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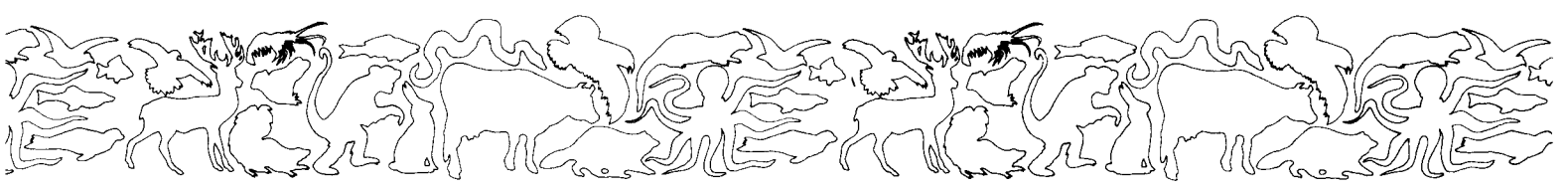
NATIONAL BODY-BURDEN DATABASE

CHEMICALS IDENTIFIED IN FERAL AND FOOD ANIMALS

1984

VOLUME IV, PART 1



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NATIONAL BODY-BURDEN DATABASE

CHEMICALS IDENTIFIED IN FERAL AND FOOD ANIMALS

1984

VOLUME IV, Part 1

Prepared by

M. Virginia Cone, Marialice Ferguson,
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Public Information and Presentations
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Oak Ridge, Tennessee 37830
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National Cancer Institute, National Institutes of Health,
Dr. Thomas P. Cameron, Chairperson

Published January 1986

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Design and Development Branch
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U.S. Environmental Protection Agency
Washington, DC 20460

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INTRODUCTION

This database was established in 1981 under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI). The work is performed by the Health and Environmental Information Section, Public Information and Presentations, Science Applications International Corporation (SAIC), Oak Ridge, Tennessee, under the direction of the Exposure Evaluation Division, Office of Toxic Substances, U.S. Environmental Protection Agency (EPA). Funds are provided through interagency agreements involving NCI, EPA, and the U.S. Department of Energy (DOE), and a contract between DOE and SAIC. The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure.

Data are obtained primarily through routine, manual searches of selected, scientific journals. These searches are augmented by searches of computerized databases. Because the database is not intended to obviate the need for the user to refer ultimately to the original sources, no attempt is made to evaluate the quality of the data. Information on chemical nomenclature and properties is from online sources and standard handbooks.

The database is used in exposure, hazard, and risk assessment; in identifying potential human and environmental health problems, including sources of exposure to toxic substances; in planning research and comparing results; and in teaching in public health and medical schools.

The database is available online through Lockheed's DIALOG Information Services, Inc. (File 138). Hard copies are printed and distributed annually, primarily to interested government agency administrators and scientists, selected government agency libraries, and medical and public health school libraries. A companion report, Chemicals Identified in Human Biological Media is also available. Individuals not having access to library copies or needing personal copies, may obtain them from the National Technical Information Service, U.S. Department of Commerce, 5285 Port Royal Road, Springfield, VA 22161. A limited number of copies is available on request to M. Virginia Cone, Science Applications International Corporation, 300 S. Tulane Avenue, Oak Ridge, TN 37830.

Comments by users of the database are invited. Correspondence should be directed to:

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USER'S GUIDE

In this 1984 annual publication, Part 1 contains introductory materials, chemical and journal lists, and indices. Part 2 contains, in tabular form, the records added since the last publication.

Appropriate data are extracted from journal articles and entered in the database by chemical, animal and tissue/body fluid. Each such data entry is a single record and is given a record number. Record numbers are assigned consecutively throughout the entire database. If a particular document contains information on more than one animal, chemical or tissue, there will be multiple records. For example, a study of 5 chemicals in each of 3 tissues in 2 animal species has 30 different records in the database and 30 record numbers. Chemicals in Part 2 are arranged alphabetically by Chemical Abstracts Service (CAS) preferred name.

Portions of two records are used to illustrate the format of the table. The chemical, in this case, benzene, hexachloro-, is listed first followed by its CAS Registry number, symbol or formula, chemical properties, and common and scientific names. These data are repeated at the top of each new page containing continued data on the same chemicals. If records on the same chemical in different animals are on the same page, only the animal and species names are repeated. Keywords and references for each record appear across the columns at the bottom of each record. If there are multiple records from the same source, keywords/references appear with the last record in each set. The tissue and the record number are given in the first column, and cases and exposure route, ranges and means of concentrations found in the tissue are reported in the next three columns.

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean
2761 Adipose	a) 135 b) 16 c) 29 Ingestion	a) 0.009-0.075 mg/kg b) Not detected-0.029 mg/kg c) 0.003-0.023 mg/g Wet wt	a) 0.038 mg/kg b) 0.012 mg/kg c) 0.009 mg/kg Wet wt

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLY
TRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED
CLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorti
13(1)19-32

Grunt
PARAPRISTIPOMA TRILINEATUM

Tissue	Cases Exposure Route	Range	Mean

The last column in these records contains the general information needed to understand the ranges and means reported, for example, group distinctions, demography, geography, health effects, pathology, morphology, toxicity, and analytical methods used (see page 5 for key to abbreviations).

Mean	General Information
mg/kg mg/kg mg/kg	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. Canada, Alberta GC-EC
; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCEN-NATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCY-	
amoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere	

lean	General Information

Exponents are written as in the following example: 5×10^{-15} is 5 x 10(E-15). All means are arithmetic unless designated geometric. When included, standard error is indicated by S.E. However, standard deviations, when given, have no such designations. When source documents display data graphically, values are estimated by the data extractors and so indicated under general information.

Keywords provide additional information about the study reported and the contents of the source document. For example, another tissue occurring as a keyword indicates that the document also contains information on that tissue.

Secondary sources such as review articles are included; however, specific data (range, mean, etc.) are not recorded. Reviews are designated in the general information column.

CAS preferred names are from the Ninth Collective Index, and, when different, names from both eighth and ninth indices (8 CI, 9CI) are given. An alphabetical list of synonyms paired with CAS preferred names is found in the Chemical Lists section of Part 1.

For accessing information in the database when only the CAS Registry number is known, the user should refer to the list (also in Part 1) of CAS Registry numbers coupled with preferred names.

Author, animal/tissue, tissue or body fluid, keywords, and geography indices in Part 1 refer the user to the appropriate record number(s) in Parts 1 and 2. A cumulative chemical index for the entire database (1981-1984) is also included.

ABBREVIATIONS USED FOR ANALYTICAL METHODS

AAS	Atomic absorption spectrometry
APDC	Ammonium pyrrolidine diethiocarbamate-methylisobutyl ketone extraction
ASV	Anodic stripping voltammetry
CC	Column chromatography
Chem	Chemical method
CI	Chemical ionization
Chemilumines	Chemiluminescence
DPASV	Differential pulse anodic stripping voltammetry
EC	Electron capture
Electrochem	Electrochemical method
ELISA	Enzyme-linked immunosorbent assay
EM	Electron microscopy
EMIT	Enzyme multiplied radioimmunoassay
ES	Emission spectrometry
GC	Gas chromatography
GC-EC	Gas chromatography, electron capture detection
GC/MS	Gas chromatography with mass spectrometry
GC/CI	Gas chromatography with chemical ionization
GC/MF	Gas chromatography with mass fragmentography
GLC	Gas-liquid chromatography
Histochem	Histochemistry
HPLC	High-pressure liquid chromatography
HPLC-ED	High-pressure liquid chromatography, electrochemical detection
HPLC/RIA	High-pressure liquid chromatography with radioimmunoassay
HPLC/TLC	High-pressure liquid chromatography with thin-layer chromatography
HPLC/FD	High-pressure liquid chromatography with fluorometric determination
ICP-AES	Inductively coupled plasma-atomic emission spectroscopy
IR	Infrared analysis
ISE	Ion-specific electrode
LC	Liquid chromatography
LSV	Linear sweep voltammetry

MAS	Molecular absorption spectrophotometry
MS	Mass spectrometry
MED	Microwave emission detector (ion)
NA	Neutron activation
NMR	Nuclear magnetic resonance
PIXE	Proton-induced X-ray emission
RIA	Radioimmunoanalysis
SPF	Spectrophotofluorometry
TLC	Thin-layer chromatography
TLC/GC	Thin-layer chromatography with gas chromatography
TPGLC	Temperature-programmed gas-liquid chromatography
UV	Ultraviolet analysis
X-ray fluores	X-ray fluorescence
X-ray spectrom	X-ray spectrometry

Acta Pharmacologica et Toxicologica
Agri-Practice (Formerly Bovine Practice)
Ambio
American Journal of Veterinary Research
Archives of Environmental Contamination and Toxicology
Archives of Environmental Health
Archives of Toxicology
Australian Veterinary Journal
Avian Diseases
British Veterinary Journal
Bulletin of Environmental Contamination and Toxicology
Canadian Journal of Animal Science
Canadian Veterinary Journal
Chemosphere
Current Contents
Ecotoxicology and Environmental Safety
Environmental Health Perspectives
Environmental Pollution, Series A (Ecological & Biological)
Environmental Research
Environmental Toxicology and Chemistry
International Journal of Environmental Studies
Journal of Agricultural and Food Chemistry
Journal of Animal Science
Journal of Environmental Science and Health (Parts A and B)
Journal of the American Veterinary Medical Association
Journal of Toxicology and Environmental Health
Journal of Wildlife Diseases
Nature
Science
Science of the Total Environment
Toxicology
Toxicology and Applied Pharmacology
Veterinary and Human Toxicology
Xenobiotica

CHEMICAL LISTS

CAS Registry Numbers-Preferred Names, page 9
Common Names-CAS Preferred Names, page 23

50-24-8
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17, 21-trihydroxy-, (11beta)- (9 CI)

50-28-2
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

50-29-3
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene) bis(4-chloro- (9 CI)

50-32-8
Benzo(a)pyrene

54-31-9
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

56-35-9
Distannoxane, hexabutyl-

56-75-7
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-, (R-(R*,R*))- (9 CI)

57-27-2
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

57-83-0
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

57-88-5
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

58-08-2
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

58-89-9
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

60-57-1
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo,exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7, 7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

63-68-3
Methionine, L- (8 CI); L-Methionine (9 CI)

67-45-8
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

67-72-1
Ethane, hexachloro-

67-97-0
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

72-20-8
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo,endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a, 7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

72-43-5
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

72-54-8
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

72-55-9
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis (4-chloro- (9 CI)

76-03-9
Acetic acid, trichloro-

76-44-8
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

79-06-1
2-Propenamide

79-09-4
Propionic acid (8 CI); Propanoic acid (9 CI)

79-57-2
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

84-65-1
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

84-74-2
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

85-01-8
Phenanthrene

87-61-6
Benzene, 1,2,3-trichloro-

87-68-3
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

87-86-5
Phenol, pentachloro-

88-06-2
Phenol, 2,4,6-trichloro-

88-89-1
Picric acid (8 CI); Phenol, 2,4,6-trinitro

90-98-2
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

91-20-3
Naphthalene

94-75-7
Acetic acid, (2,4-dichlorophenoxy)-

95-50-1
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

95-94-3
Benzene, 1,2,4,5-tetrachloro-

96-91-3
Phenol, 2-amino-4,6-dinitro-

98-57-7
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

106-46-7
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

108-36-1
Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)

108-70-3
Benzene, 1,3,5-trichloro-

108-90-7
Benzene, chloro-

108-95-2
Phenol

112-40-3
Dodecane

112-95-8
Eicosane

113-98-4
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

114-07-9
Erythromycin

115-29-7
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

117-81-7
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

118-74-1
Benzene, hexachloro-

120-12-7
Anthracene

120-82-1
Benzene, 1,2,4-trichloro-

121-25-5
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

122-14-5
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O, O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

125-28-0
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

127-27-5
Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-t rimethyl-, (1R-(1alpha,4abeta, 4balpha,7beta,10aalpha))- (9 CI)

127-47-9
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

128-46-1
Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1,2)-O-5-d eoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bi s (aminoiminomethyl)- (9 CI)

139-91-3
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

141-66-2
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

143-50-0
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

298-00-0
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O, O-dimethyl O-(4-nitrophenyl) ester (9 CI)

309-00-2
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

319-84-6
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

319-85-7
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2beta,3alpha,4beta,5alpha,6beta)- (9 CI)

328-84-7
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

333-41-5
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

471-74-9
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta, 4balpha,7alpha,10aalpha))- (9 CI)

504-24-5
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

504-88-1
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

514-10-3
Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3, 4,4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methyl ethyl-)-, (1R-(1alpha,4abeta,4balpha, 10aalpha))- (9 CI)

541-73-1
Benzene, 1,3-dichloro-

544-76-3
Hexadecane

551-11-1
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

590-46-5
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

593-45-3
Octadecane

607-99-8
Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)

608-93-5
Benzene, pentachloro-

615-54-3
Benzene, 1,2,4-tribromo-

629-50-5
Tridecane

629-59-4
Tetradecane

629-62-9
Pentadecane

629-78-7
Heptadecane

629-92-5
Nonadecane

634-66-2
Benzene, 1,2,3,4-tetrachloro-

634-90-2
Benzene, 1,2,3,5-tetrachloro-

638-36-8
Hexadecane, 2,6,10,14-tetramethyl-

709-98-8
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

732-11-6
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

789-02-6
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

1022-22-6
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

1024-57-3
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI)

1162-65-8
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,9aalpha-tetrahydro-4-methoxy- (8 CI) Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,9a-tetrahydro-4-methoxy-, (6aR-cis)- (9 CI)

1321-67-1
Naphthol (8 CI); Naphthalenol (9 CI)

1327-53-3
Arsenic oxide [As2O3]

1332-21-4
Asbestos

1336-36-3
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

1403-66-3
Gentamicin

1740-19-8
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI)

1746-01-6
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

1825-21-4
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

1912-24-9
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

1921-70-6
Pentadecane, 2,6,10,14-tetramethyl-

2050-68-2
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

2051-62-9
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

2385-85-5
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

5103-71-9
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha, 2alpha,3aalpha,4beta,7beta,7aalpha)- (9 CI)

5103-73-1
4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha, 4,7,7-aalpha-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha ,2alpha,3alpha,3aalpha,4beta,7aalpha- (9 CI)

5700-49-2
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

5835-26-7
Podocarp-7-en-15-oic acid, 13beta-methyl-13-vinyl-, (-)- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta, 4balpha,7alpha,10aalpha))- (9 CI)

6130-64-9
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido) -, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

6673-35-4
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

6795-23-9
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,9a-tetrahydro-9a-hydroxy-4-methoxy-, (6aR-cis)-

6885-57-0
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy-

7220-81-7
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

7429-90-5
Aluminum

7439-89-6
Iron

7439-91-0
Lanthanum

7439-92-1
Lead

7439-93-2
Lithium

7439-95-4
Magnesium

7439-96-5
Manganese

7439-97-6
Mercury

7439-98-7
Molybdenum

7440-02-0
Nickel

7440-07-5
Plutonium

7440-09-7
Potassium

7440-17-7
Rubidium

7440-19-9
Samarium

7440-20-2
Scandium

7440-22-4
Silver

7440-23-5
Sodium

7440-24-6
Strontium

7440-29-1
Thorium

7440-31-5
Tin

7440-36-0
Antimony

7440-38-2
Arsenic

7440-39-3
Barium

7440-43-9
Cadmium

7440-45-1
Cerium

7440-46-2
Cesium

7440-47-3
Chromium

7440-48-4
Cobalt

7440-50-8
Copper

7440-61-1
Uranium

7440-62-2
Vanadium

7440-66-6
Zinc

7440-70-2
Calcium

7487-94-7
Mercury chloride

7553-56-2
Iodine

7664-41-7
Ammonia

7723-14-0
Phosphorus

7726-95-6
Bromine

7727-37-9
Nitrogen

7782-49-2
Selenium

8001-35-2
Toxaphene

8001-50-1
Strobane

8056-08-4
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

9002-69-1
Relaxin

9002-72-6
Somatotropin

10043-66-0
Iodine, isotope of mass 131

10045-97-3
Cesium, isotope of mass 137

10098-97-2
Strontium, isotope of mass 90

10161-33-8
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta) - (9 CI)

10198-40-0
Cobalt, isotope of mass 60

10265-92-6
Phosphoramidothioic acid, O,S-dimethyl ester

10453-86-8
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl) -3-furanyl)methyl ester (9 CI)

11096-82-5
Arochlor 1260

11097-69-1
Arochlor 1254

11103-57-4
Vitamin A

12674-11-2
Aroclor 1016

12789-03-6
Chlordane

13071-79-9
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-(((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

13981-52-7
Polonium, isotope of mass 210

14158-31-7
Iodine, isotope of mass 125

14255-04-0
Lead, isotope of mass 210

14265-71-5
Selenium, isotope of mass 75

14596-10-2
Americium, isotope of mass 241

14596-37-3
Phosphorus, isotope of mass 32

14681-59-5
Iron, isotope of mass 55

14762-75-5
Carbon, isotope of mass 14

14769-73-4
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

14797-65-0
Nitrite

15046-84-1
Iodine, isotope of mass 129

15117-48-3
Plutonium, isotope of mass 239

16984-48-8
Fluoride

17341-25-2
Sodium, ion (Na(1+))

19356-17-3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3, 25-diol, (3beta,5Z,7E)- (9 CI)

21702-84-1
Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)

22967-92-6
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

25182-84-7
1-Propanol, 3-nitro-

26880-48-8
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

30560-19-1
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

30774-95-9
Phenanthrenol

31671-77-9
Anthracenecarboxaldehyde

35065-27-1
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

35367-38-5
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

35693-99-3
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

39765-80-5
4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta, 3alpha,3aalpha,4beta,7beta,7aalpha)-

41464-40-8
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

43210-67-9
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

51207-31-9
Dibenzofuran, 2,3,7,8-tetrachloro-

51481-10-8
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

51630-58-1
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

52645-53-1
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

53469-21-9
Arochlor 1242 (No postings in CHEMLINE).

55069-01-7
Eulan WA New

56073-10-0
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl) -4-hydroxy-

59080-40-9
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-

60846-21-1
5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 3-((acetyloxy)methyl)-7-(((2-amino-4-thiazolyl)(methoxyimino)acetyl)amino)-8-oxo-, (6R-trans)-

61788-33-8
Terphenyl, chlorinated

67733-52-2
1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptabromo-

70124-77-5
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

(-)-Cholesterol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

(-)-Dihydrocodeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

(-)-Morphine
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

(-)-Tetramisole
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

(2,4-Dichlorophenoxy)acetic acid
Acetic acid, (2,4-dichlorophenoxy)-

(3R-(3R*,4S*,5S*,6R*,7R*,9R*,11R*,12R*,13S*,14R*))-4-((2,6-Dideoxy-3-C-methyl-3-O-methyl-alpha-L-rib
Erythromycin

(5-Benzyl-3-furyl) methyl-2,2-dimethyl-3-(2-methylpropenyl)-cyclopropanecarboxy late
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

(5-Benzyl-3-furyl)methyl chrysanthemate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

(O,O-Dimethyl-phthalimidiomethyl-dithiophosphate)
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

009
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

1 Bazudin
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

1,1,1,2,2,2-Hexachloroethane
Ethane, hexachloro-

1,1,1-Trichloro-2,2-bis(4,4'-dichlorodiphenyl)ethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

1,1,2,3,4,4-Hexachloro-1,3-butadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

1,1-Bis(4-chlorophenyl)-2,2-dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

1,1-Bis(p-chlorophenyl)-2,2-dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

1,1-Bis(p-chlorophenyl)-2,2,2-trichloroethane 1,1,1-Trichloro-2,2-bis(p-chlorophenyl)ethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

1,1-Bis(p-chlorophenyl)2-chloroethylene
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

1,1-Dichloro-2,2-bis(4-chlorophenyl)ethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

1,1-Dichloro-2,2-bis(p-chlorophenyl)ethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

1,1-Dichloro-2,2-di(p-chlorophenyl)ethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

1,2,3,4,5-pentachlorobenzene
Benzene, pentachloro-

1,2,3,4-tetrachlorobenzene
Benzene, 1,2,3,4-tetrachloro-

1,2,3,5-Tetrachlorobenzene
Benzene, 1,2,3,5-tetrachloro-

1,2,3-Trichlorobenzene
Benzene, 1,2,3-trichloro-

1,2,4,5,6,7,8,8-Octachloro-4,7-methane-3a,4,7,7a-tetra hydroindane
Chlordane

1,2,4,5-Tetrachlorobenzene
Benzene, 1,2,4,5-tetrachloro-

1,2,4-Tribromobenzene
Benzene, 1,2,4-tribromo-

1,2,4-Trichlorobenzol
Benzene, 1,2,4-trichloro-

1,2,6-Trichlorobenzene
Benzene, 1,2,3-trichloro-

1,2-Benzenedicarboxylic acid, bis(ethylhexyl)ester
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

1,2-Dehydrohydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1,2-Dichloro-4-(trifluoromethyl)benzene
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

1,2-Dichlorobenzene
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

1,3,4-Metheno-1H-cyclobuta(cd)pentalene, dodecachlorooctahydro-
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

1,3,5-Trichlorobenzene
Benzene, 1,3,5-trichloro-

1,3,5-Trinitrophenol
Picric acid (8 CI); Phenol, 2,4,6-trinitro

1,3,7-Trimethyl-2,6-dioxopurine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

1,3,7-Trimethylxanthine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-, dimer
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

1,3-Dibromobenzene
Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)

1,3-Dichlorobenzene
Benzene, 1,3-dichloro-

1,4,5,6,7,8,8-Heptachloro-2,3-epoxy-2,3,3a,4,7,7a-hexa hydro-4,7-methanoindene
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI)

1,4-Dichlorobenzene
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

1,4-pregnadiene-3,20-dione
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1-(4-Acetamidophenoxy-3-isopropylamino-2-propanol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

1-Amino-2-hydroxy-3,5-dinitrobenzene
Phenol, 2-amino-4,6-dinitro-

1-Chloro-2,2-bis(p-chlorophenyl)ethylene
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

1-Chloro-3-ethylamino-5-isopropylamino-s-triazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

1-Dehydrohydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1-Tetramisole
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

11beta,17alpha-21-trihydroxy-4-pregnene-3,20-dione
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

11beta-Hydroxycortisone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

17-Hydroxycorticosterone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

1721 Gold
Copper

17alpha-Hydroxycorticosterone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

17beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

17beta-Hydroxy-19-norandrosta-4,9,11-trien-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

17beta-Hydroxyestra-4,9,11-trien-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

17beta-Oestradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

19-Norandrosta-4,9,11-trien-17beta-ol-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

2,2',3,4,4',5,5'-Heptabromobiphenyl
1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptabromo-

2,2',4',5-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

2,2',4,4',5,5'-Hexabromobiphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo-

2,2',4,4',5,5'-Hexachloro-1,1'-biphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

2,2',4,4',5,5'-Hexachlorobiphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

2,2',4,5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

2,2',5,5'-TCB
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

2,2',5,5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

2,2-Bis(4-chlorophenyl)-1,1-dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

2,2-Bis(4-chlorophenyl)-1,1-dichloroethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

2,2-Bis(p-chlorophenyl)-1,1,1-trichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

2,2-Bis(p-methoxyphenyl)-1,1,1-trichloroethane 2,2-di-p-anisyl-1,1,1-trichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

2,3,4,5,6-Pentachloroanisole
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

2,3,6,7-Tetrachlorodibenzo-p-dioxin
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

2,3,7,8-TCDD
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

2,3,7,8-Tetrachlorodibenzo-(b,e)(1,4)dioxan
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

2,3,7,8-Tetrachlorodibenzofuran
Dibenzofuran, 2,3,7,8-tetrachloro-

2,4'-DDT
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

2,4,2',5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

2,4,5,2',4',5'-Hexachlorobiphenyl
1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro-

2,4,6,2',4'-Pentachlorobiphenyl
2,4,6,2',4'-Pentachlorobiphenyl (No postings in CHEMLINE).

2,4,6-Tribromoanisole
Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)

2,4,6-Trichlorophenol
Phenol, 2,4,6-trichloro-

2,4,6-Trinitrofenolo
Picric acid (8 CI); Phenol, 2,4,6-trinitro

2,4,6-Trinitrophenol
Picric acid (8 CI); Phenol, 2,4,6-trinitro

2,4-D
Acetic acid, (2,4-dichlorophenoxy)-

2,4-D Acid
Acetic acid, (2,4-dichlorophenoxy)-

2,4-Dibromoanisole
Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)

2,4-Dichlorodiphenyl-ether
2,4-Dichlorodiphenyl ether (No postings in CHEMLINE).

2,4-Dinitro-6-aminophenol
Phenol, 2-amino-4,6-dinitro-

2,5,2',5'-Tetrachlorobiphenyl
1,1'-Biphenyl, 2,2',5,5'-tetrachloro-

2-(2-chlorphenyl)-2-(4-chlorophenyl)-1,1,1-trichloroet hane
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

2-Aethylamino-4-chlor-6-isopropylamino-1,3,5-triazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

2-Amino-4,6-dinitrophenol
Phenol, 2-amino-4,6-dinitro-

2-Amino-4-(methylthio)butyric acid
Methionine, L- (8 CI); L-Methionine (9 CI)

2-Chloro-4-(2-propylamino)-6-ethylamino-s-triazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

2-Chloro-4-ethylamino-6-isopropylaminotriazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

2-Ethylhexyl phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

2-Furanmethanimine, 5-nitro-N-(2-oxo-3-oxazolidinyl)-
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

2-Furfurylamino-4-chloro-5-sulfamoylbenzoic acid 4-chloro-N-(2-furylmethyl)-5-sulfamoylanthranilic a
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

2-Hydroxy-1,3,5-trinitrobenzene
Picric acid (8 CI); Phenol, 2,4,6-trinitro

2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 , 12a-hexahydro
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

2-Propenamide
2-Propenamide

25-Hydrocholecalciferol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxy D3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxy-5,6-trans-cholecalciferol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxycholecalciferol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

25-Hydroxyvitamin D3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

3',4'-Dichloropropionanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

3,17-Epidihydroxyestratriene
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

3,17beta-Dihydroxyestra-1,3,5(10)-triene
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

3,17beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

3,20-dioxo-11beta,17alpha,21-trihydroxy-1,4-pregnadien e
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

3,4-Benz(a)pyrene
Benzo(a)pyrene

3,4-Benzopyrene
Benzo(a)pyrene

3,4-Benzopyrene [carcinogen]
Benzo(a)pyrene

3,4-Dichloro-alpha,alpha,alpha-trifluorotoluene
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

3,4-Dichlorobenzotrifluoride
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

3,4-Dichlorophenyltrifluoromethane
Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI)

3,4-Dichloropropionanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2,4 ,6,8-nonatetraen-1-ol
Vitamin A

3-(Dimethyoxyphosphinyloxy)-N,N-dimethyl-cis-crotonami de
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

3-Chlorochlordene
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

3-Hydroxy-N,N-dimethyl-cis-crotonamide dimethyl phosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

3-Hydroxydimethyl crotonamide dimethyl pho
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

3-Nitro-1-propanol
1-Propanol, 3-nitro-

3-Nitropropanoic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

3-Nitropropanol
1-Propanol, 3-nitro-

3-Nitropropionic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

3beta-Hydroxycholest-5-ene
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

4'-(2-Hydroxy-3-(isopropylamino)propoxy)acetanilide
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

4,4'-DDD
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

4,4'-DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

4,4'-Dichloro-1,1'-biphenyl
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

4,4'-Dichlorobenzophenone
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

4,4'-Dichlorobiphenyl
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

4,4'-Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

4,6-Dinitro-2-aminophenol
Phenol, 2-amino-4,6-dinitro-

4,9,11-estratrien-17beta-ol-3-one
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

4-Aminopyridine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

4-Chloro-1,1'-biphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

4-Chlorobiphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

4-Chlorodiphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

4-Chlorophenyl methyl sulfone
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

4-Deoxynivalenol
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

4-Hydroxyaflatoxin B2
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy-

4-pregnene-11beta,17alpha,21-triol-3,20-dione
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

4-Pyridylamine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

5,6-cis-25-Hydroxy vitamin D3
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

5-Benzyl-3-furylmethyl(+-)-cis,trans-chrysanthemate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

5-Benzylfurfuryl chrysanthemate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)-, (1R-(1alpha(Z), 2beta(S*,E),
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

5:6-Cholesten-3beta-ol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

6-Amino-2,4-dinitrophenol
Phenol, 2-amino-4,6-dinitro-

6-Hydroxy-3-methoxy-N-methyl-4,5-epoxymorphinan
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

6-Oxa-5,7-distannaundecane, 5,5,7,7-tetrabutyl-
Distannoxane, hexabutyl-

666
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

6alpha-Hydrocodol
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

7,8-Dihydrocodeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

8056HC
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

8057HC
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

9,10-Anthracenedione
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

9,10-Anthraquinone
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

9,10-Dioxoanthracene
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

A 00
Aluminum

A 361
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

A 95
Aluminum

A 99
Aluminum

A/T/S
Erythromycin

A995
Aluminum

A999
Aluminum

AA 1099
Aluminum

AA 1199
Aluminum

Aahepta
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Aalindan
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aatrex
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aavero-extra
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Abavit B
Mercury chloride

Abbocillin-DC
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Abboticin
Erythromycin

Abietic acid
Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methyl ethyl-)-, (1R-(1alpha,4abeta,4balpha,10aalpha))- (9 CI)

Abietic acid, dehydro-
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9, 10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI)

AC 222,705
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

AC 222705
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

AC 92100
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-(((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

Accothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Acephate
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Acephate-Met
Phosphoramidothioic acid, O,S-dimethyl ester

Acetamidophos
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Aceto-Caustin
Acetic acid, trichloro-

Acide picramique
Phenol, 2-amino-4,6-dinitro-

Acide picrique
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Acide propionique
Propionic acid (8 CI); Propanoic acid (9 CI)

Acidin
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Acido picrico
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Acidol
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Acimetion
Methionine, L- (8 CI); L-Methionine (9 CI)

Acon
Vitamin A

Acrylamide
2-Propenamide

Acrylic amide
2-Propenamide

Actinite PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

AD 1
Aluminum

AD1-M
Aluminum

Adakane 12
Dodecane

Adamycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Adenohypophyseal growth hormone
Somatotropin

ADO
Aluminum

AE
Aluminum

Afaxin
Vitamin A

Aficide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aflatoxin B1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,9aalpha-tetrahydro-4-methoxy- (8 CI) Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,9a-tetrahydro-4-methoxy-, (6aR-cis)- (9 CI)

Aflatoxin B2
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

Aflatoxin M1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,9a-tetrahydro-9a-hydroxy-4-methoxy-, (6aR-cis)-

Aflatoxin M2
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy-

Afsillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Agiolan
Vitamin A

Agolutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Agria 1050
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Agritan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Agriya 1050
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Agroceres
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Agrocide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Agrocide III
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Agrocide WP
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Agrothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Aisemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Akotion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Akrylamid
2-Propenamide

Akticon
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktikon
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktikon PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktinit A
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Aktinit PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Albocarbon
Naphthalene

Aldocit
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Aldrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Aldrin Epoxide
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Alert-Pep
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Alficetyn
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

all-trans-Retinyl acetate
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Allbri Natural Copper
Copper

Alltox
Toxaphene

alpha,alpha-Bis(p-chlorophenyl)-beta,beta,beta-trichlo rethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

alpha-1,2,3,4,5,6-Hexachlorcyclohexane alpha-1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Amino-gamma-methylmercaptobutyric acid
Methionine, L- (8 CI); L-Methionine (9 CI)

alpha-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Chlordan
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

alpha-Chlordane
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

alpha-HCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachlorcyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

alpha-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI)

Alphalin
Vitamin A

Altabactina
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Altafur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Altrad
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Aluminium
Aluminum

Aluminium Flake
Aluminum

Aluminum
Aluminum

Aluminum A00
Aluminum

Aluminum Dehydrated
Aluminum

Aluminum Powder
Aluminum

Aluminum-27 CI 77000
Aluminum

Alvit 55
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Am-241
Americium, isotope of mass 241

Amatin
Benzene, hexachloro-

Ambush
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Ambushfog
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Amchem Grass Killer
Acetic acid, trichloro-

Ameisenmittel merk
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Ameisentod
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Americium-241
Americium, isotope of mass 241

Amianthys
Asbestos

Ammonia gas
Ammonia

Amoglandin
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Amphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Amphicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Amprocidum
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprol, Veterinary
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprolium
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprolium chloride
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amprovine
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Amseclor
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Anac 110
Copper

Anatola
Vitamin A

Anatox
Toxaphene

Anterior pituitary growth hormone
Somatotropin

Anthracen
Anthracene

Anthracene
Anthracene

Anthracene, 9,10-dihydro-9,10-dioxo-
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Anthracin
Anthracene

Anthradione
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Anthraquinone
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Anti-infective vitamin
Vitamin A

Anti-inflammatory hormone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Anticarie
Benzene, hexachloro-

Anticoccid
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Antigal
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Antimony
Antimony

Antixerophthalmic vitamin
Vitamin A

Antuitrin-Growth
Somatotropin

AO Al
Aluminum

Aoral
Vitamin A

Aparasin
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Apexol
Vitamin A

Aphtiria
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Aplidal
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Apostavit
Vitamin A

Aquacillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Aquadiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Aquasol A
Vitamin A

Aquasuspen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

AR2
Aluminum

Arbitex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Arbogal
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Argentum
Silver

Argezin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Arkotine
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Armco iron
Iron

Arochlor 1254
Arochlor 1254

Arochlor 1260
Arochlor 1260

Aroclor 1016
Aroclor 1016

Aroclor 1242
Arochlor 1242 (No postings in CHEMLINE).

Arsenic
Arsenic

Arsenic black
Arsenic

Arsenic sesquioxide
Arsenic oxide [As2O3]

Arsenic trioxide
Arsenic oxide [As2O3]

Arsenic-75
Arsenic

Arsenicum album
Arsenic oxide [As2O3]

Arsenious oxide
Arsenic oxide [As2O3]

Arsenous anhydride
Arsenic oxide [As2O3]

Arsenous oxide
Arsenic oxide [As2O3]

Arsodent
Arsenic oxide [As2O3]

Arwood copper
Copper

Asbestos
Asbestos

Asbestos fiber
Asbestos

Atav
Vitamin A

Atazinax
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atranex
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrasine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrataf
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atrazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Atred
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Austracol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

AV00
Aluminum

AV000
Aluminum

Avibon
Vitamin A

Avita
Vitamin A

Avitol
Vitamin A

Avloprocil
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Avlothane
Ethane, hexachloro-

Axerol
Vitamin A

Axerophthol
Vitamin A

AY 2101
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Azofos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Azophos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Azotox M-33
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

B-Selektonon
Acetic acid, (2,4-dichlorophenoxy)-

Ba 51-090453
Dodecane

Banthionine
Methionine, L- (8 CI); L-Methionine (9 CI)

Bardiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Barium
Barium

Bausudin
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

BAY 11405
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Bay 30130
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

BAY 41831
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Bay 71628
Phosphoramidothioic acid, O,S-dimethyl ester

Bayer 41831
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Bayer 5546
Phosphoramidothioic acid, O,S-dimethyl ester

Bayer 71628
Phosphoramidothioic acid, O,S-dimethyl ester

Bayer S 5660
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

BBH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Belmark
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Belt
Chlordane

Ben-Hex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Bentox 10
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Benz(a)pyrene
Benzo(a)pyrene

Benzene tetrachloride
Benzene, 1,2,4,5-tetrachloro-

Benzene, 1,2,4,5-tetrachloro-
Benzene, 1,2,4,5-tetrachloro-

Benzene, 1,2,4-trichloro-
Benzene, 1,2,4-trichloro-

Benzene, 1,3,5-trichloro-
Benzene, 1,3,5-trichloro-

Benzene, m-dichloro-
Benzene, 1,3-dichloro-

Benzenol
Phenol

Benzo(d,e,f)chrysene
Benzo(a)pyrene

Benzoepin
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Benzofuroline
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Benzyfuroline
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Benzylpenicillin potassium salt
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Benzylpenicillin potassium
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Benzylpenicillin procaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Benzylpenicillinic acid potassium salt
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Beosit
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Berkmycen
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Beronald
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

beta-1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

beta-HCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Hexachlorobenzene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2beta, 3alpha,4beta,5alpha,6beta)- (9 CI)

beta-Nitropropionic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

Betaine, hydrochloride
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Bexol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Bichloride of mercury
Mercury chloride

Bichlorure de mercure
Mercury chloride

Bidrin
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

BIO 5,462
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Bio-luton
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

BioMeT 66
Distannoxane, hexabutyl-

BioMeT SRM
Distannoxane, hexabutyl-

BioMeT TBTO
Distannoxane, hexabutyl-

Biostat
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Biostat PA
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Biosterol "Dohyfral" A
Vitamin A

Biphenyl, chlorinated
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

Bis(2-ethylhexyl)1,2-benzenedicarboxylate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Bis(2-ethylhexyl)phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Bis(4-chlorophenyl)ketone
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

Bis(tri-n-butylzinn)-oxyd
Distannoxane, hexabutyl-

Bis(tributyltin)oxide
Distannoxane, hexabutyl-

Bis-(tri-n-butylcin)oxid
Distannoxane, hexabutyl-

Bisoflex 81
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Bisoflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Blue powder
Zinc

BNP
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

Bosan supra
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Bovidermol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Bovinocidin
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

BP
Benzo(a)pyrene

Brodifacoum
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl)-4-hydroxy-

Bromine
Bromine

Bunt-cure
Benzene, hexachloro-

Bunt-no-more
Benzene, hexachloro-

Butanoic acid, 2-amino-4-(methylthio)-, (S)-
Methionine, L- (8 CI); L-Methionine (9 CI)

Bute hydrocarbon
Pentadecane, 2,6,10,14-tetramethyl-

Butinox
Distannoxane, hexabutyl-

Butter of arsenic
Arsenic oxide [As2O3]

Butyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

C 46
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

C 709
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

C-14
Carbon, isotope of mass 14

C-Sn-9
Distannoxane, hexabutyl-

C.I. 10305
Picric acid (8 CI); Phenol, 2,4,6-trinitro

C.I. 77050
Antimony

C.I. 77180
Cadmium

C.I. 77320
Cobalt

C.I. 77400
Copper

C.I. 77575
Lead

C.I. 77775
Nickel

C.I. 77805
Selenium

C.I. 77820
Silver

C.I. 77860
Tin

C.I. Pigment Metal 2
Copper

C.I. Pigment Metal 4
Lead

C.I. Pigment Metal 5
Tin

Cadmium
Cadmium

CAF
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cafeina
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Caffein
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Caffeine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Cafipel
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Calcifediol
9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI)

Calcium
Calcium

Calochlor
Mercury chloride

CAM
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Camphechlor
Toxaphene

Camphochlor
Toxaphene

Candex
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

CAP
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Carbazotic acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Carbicron
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Carbolic acid
Phenol

Carbomicron
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Carbon hexachloride
Ethane, hexachloro-

Carbon-14
Carbon, isotope of mass 14

Carboxyethane
Propionic acid (8 CI); Propanoic acid (9 CI)

Catilan
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

CD-68
Chlordane

CDA 101
Copper

CDA 102
Copper

CDA 110
Copper

CDA 122
Copper

Cefotaxime
5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 3-((acetyloxy)methyl)-7-(((2-amino-4-thiazolyl) (methoxyimino)acetyl)amino)-8-oxo-, (6R-trans)-

Cekuzina-T
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Celanex Chloresene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Celluflex DPB
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Cerium
Cerium

Cervilaxin
Relaxin

Cesium
Cesium

Cesium-133
Cesium

Cesium-137
Cesium, *isotope of mass 137*

Cetane
Hexadecane

CG-1283
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Chem rice
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Chemicetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chemicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chevron 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Chevron Ortho 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Chinetrin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Chlomycol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlor Kil
Chlordane

Chloramex
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloramicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloramsaar
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlordan
Chlordane

Chlordan, cis-
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI)
4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

Chlordane
Chlordane

Chlordane (Technical)
Chlordane

Chlordecone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Chlorid rtutnaty
Mercury chloride

Chlorinated camphene
Toxaphene

Chlorinated diphenyl
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

Chlorobenzene
Benzene, chloro-

Chlorocaps
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorocid
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorocide
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorocidin C Chlorocidin C tetran
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloromycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chloronitrin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Chlorophenothane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Chlorphenothan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Chlorphenotoxum
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Chlorthiepin
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Chlorure mercurique
Mercury chloride

Cholest-5-en-3beta-ol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesterin
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesterol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesterol base H
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Cholesteryl alcohol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Chromium
Chromium

Chromozin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Chryson
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Chrysron
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Ciazinon
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

CIBA 709
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Cidocetine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cilicaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Cilloral
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Ciplamycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

cis-2-Dimethylcarbamoyl-1-methylvinyl dimethylphosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

cis-Chlordan
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

cis-Chlordane
4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aa lpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha,3aalpha, 4beta,7beta,7aalpha)- (9 CI)

cis-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

cis-Nonachlor
4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha, 4,7,7-aalpha-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha ,2alpha,3alpha,3aalpha,4beta,7aalpha- (9 CI)

Citox
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

CKB 1220
Phosphoramidothioic acid, O,S-dimethyl ester

CL 47300
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Clofenotan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Clofenotane DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Cloramphicin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Clordecone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Cloroben
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

Clorocyn
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cloromisan
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Co-Hydeltra
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Co-op Hexa
Benzene, hexachloro-

Cobadex
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cobalt
Cobalt

Cobalt-59
Cobalt

Cobalt-60
Cobalt, isotope of mass 60

Codechine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Codelcortone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Coffeine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Cohydrin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Cohydrine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Colecalciferol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Colloidal manganese
Manganese

Compd. 269
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Compound 118
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Compound 1189
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Compound 497
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Compound 889
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Coopex
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Copper
Copper

Copper M 1
Copper

Copper powder
Copper

Corbit
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Cordulan
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Corlutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corlutina
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corluvite
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corodane
Chlordane

Corpagen
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Corporin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corpus luteum hormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Corrosive mercury chloride
Mercury chloride

Corrosive sublimate
Mercury chloride

Cort-dome
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortanal
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortef
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortenema
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Corticreme
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortifan
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortifoam
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortiment
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortispray
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortonena
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Cortril
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Counter
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

CP 47114
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

CPh
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Crescormon
Somatotropin

Crisazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Cristapen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Crotonamide, 3-hydroxy-N,N-dimethyl-, cis-, dimethyl phosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Cryptopimaric acid
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Crysticillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Cs-137
Cesium, isotope of mass 137

Cu M3
Copper

CuEP
Copper

CuEPP
Copper

Cutaval
Manganese

Cyano(3-phenoxyphenyl)methyl 4-chloro-alpha-(1-methylethyl)benzeneacetate
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Cyazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

CyBolt
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Cyclopentadiene, hexachloro-, dimer
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (4-(2-benzyl)furyl) methyl ester
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Cylphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Cymethion
Methionine, L- (8 CI); L-Methionine (9 CI)

Cynaron
Methionine, L- (8 CI); L-Methionine (9 CI)

D-(-)-Chloramphenicol D-threo-Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

D-(-)-threo-Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

d-3,17beta-Estradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

D-Chloramphenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

D3-Vigantol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Dabicycline
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Dacutox
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dalf
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dalzic
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Darifur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Dassitox
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

DBH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

DBP
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

DBP
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

DCBP
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

DCPA
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

DCuP1
Copper

DDD
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

DDMU
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

DDT, total
DDT, total (No postings in CHEMLINE).

Decachloroketone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta[cd]pent alen-2-one
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Decachloropentacyclo(5.2.1.0(2,6).0(3,9).0(5),(8))deca n-4-one
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Decemthion
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Decemthion P-6
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Dechlorane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane 4070
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane 515
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane Plus
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dechlorane Plus 515
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Decortin H
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Dehacodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

DEHP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Dehydroabietic acid
Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI)

Dehydronivalenol
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

Delsterol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Delta F
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

delta(1)-Cortisol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

delta(1)-Dehydrocortisol delta(1)-Dehydrohydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

delta(4)-Pregnene-3,20-dione
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Delta-Cortef
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Delta-Ef-Cortelan
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Delta-stab
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltacortenol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltacortril
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltahydrocortisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Deltisilone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Demethylfenitrothion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Deoval
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Deoxynivalenol
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

Deparol
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Depo-Penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Desdemin
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Despacilina
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Detmol-Extrakt
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Detox
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Detoxan
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Detreomycin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Devoran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Dextropimaric acid
Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-t rimethyl-, (1R-(1alpha,4abeta,4balpha, 7beta,10aalpha))- (9 CI)

Dexodorator
Naphthalene

DF 118
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

DH-codeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Di(Ethylhexyl)phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Di(p-methoxyphenyl)trichloromethyl methane
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Di-(2-Ethylhexyl)-phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Di-Adreson F
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Di-chloricide
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Di-n-butyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Diafuron
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Diarsenic trioxide
Arsenic oxide [As2O3]

Diazinon
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Diazinon AG 500
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Diazinone
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dibovin
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dibutyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Dichloricide aerosol
Strobane

Dichloricide mothproofer
Strobane

Dichlorodiphenyl dichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dichloromercury
Mercury chloride

Dichlorophenœxyacetic acid
Acetic acid, (2,4-dichlorophenoxy)-

Dichloropropionanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Dicid
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dicophane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dicopur
Acetic acid, (2,4-dichlorophenoxy)-

Dicrotofos
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Dicrotol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Dicrotophos
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Didrate
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dieldrex
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dieldrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dielmoth
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dietary calcium
Calcium

Diflubenzuron
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Difluron
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Dihydrin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dihydroaflatoxin B1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

Dihydroaflatoxine B1
Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-d ione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-di one, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI)

Dihydrocodeine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dihydrocortisone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Dihydrofollicular hormone
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydrofolliculin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydromenformon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydroneopine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dihydrostreptomycin
Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1, 2)-O-5-d eoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bi s(aminoiminomethyl)- (9 CI)

Dihydrotheelin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dihydroxyestrin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dilatin DB
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

Dildrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dilene
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Dimenformon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dimethoxy-DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Dimethoxy-DT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Dimethyl 3-(2-methyl-1-propenyl)cyclopropanecarboxylate
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Dimethyl 4-nitro-m-tolyl phosphorothionate
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Dimethyl 4-nitrophenyl phosphorothionate
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dimethyl p-nitrophenyl thiophosphate
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dimethyl parathion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Dimethyl phosphate of 3-Hydroxy-N,N-dimethyl-cis-crotonamide
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Dimilin
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Dimpylat
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dimpylate
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Dinoprost
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Diocode
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Dioctyl phthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Diogyn
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Diogynets
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Dioxin
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

Dipram
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Distaquaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Distokal
Ethane, hexachloro-

Distopan
Ethane, hexachloro-

Distopin
Ethane, hexachloro-

Diurnal-Penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

DMDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Dodat
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dodecachlorooctahydro-1,3,4-metheno-2H-cyclobuta(cd)pe ntalene
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dodecachloropentacyclodecane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Dol Granule
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Domolene-HC
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Donisolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Dorytox
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Dotycin
Erythromycin

Dowicide 2S
Phenol, 2,4,6-trichloro-

Dowicide 7
Phenol, pentachloro-

Dowtherm E
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

DPA
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Drilltox-Spezial Aglukon
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Drocode
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

DST
Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1, 2)-O-5-d eoxy-3-C-(hydroxymethyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bi s(aminoiminomethyl)- (9 CI)

DU 112307
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Dugoran
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Duracillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Duromorph
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Dusoline
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Dykol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Dyprin
Methionine, L- (8 CI); L-Methionine (9 CI)

Dythol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

E 3314
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

E-Cu57
Copper

E-Mycin
Erythromycin

Eazolin D
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ectiban
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

EDDI
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

EF-Cortelan Efcortelan
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Efcorbin
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Efcorlin
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Egitol
Ethane, hexachloro-

EI 47300
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Eicosane
Eicosane

Ektafos
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Elaol
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Emany Atomized Aluminum Powder
Aluminum

Embacetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Enciol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Endosulfan
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Endosulfan 35EC
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Endosulphan
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Endrex
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Endricol
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Endrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

ENT 15,152
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

ENT 15,949
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI)

ENT 19,442
Strobane

ENT 19,507
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

ENT 23,979
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

ENT 24,482
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

ENT 24,979
Distannoxane, hexabutyl-

ENT 25,584
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI)

ENT 25,705
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

ENT 25,715
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

ENT 25,719
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

ENT 27,396
Phosphoramidothioic acid, O,S-dimethyl ester

ENT 27474
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

ENT 29054
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

ENT 4,255
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

ENT 7,796
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

ENT-1506
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

ENT-16225
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

ENT-16391
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Enteromycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Enterotoxon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Entomoxan
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Enzaprost
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Enzaprost F
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

EO5A
Iron

EP 30
Phenol, pentachloro-

Epiderm H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Epiteliol
Vitamin A

Epoxyheptachlor
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

Eraldin
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Eranol
Iodine

Errolon
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Ery-Tab
Erythromycin

ERYC
Erythromycin

Erycin
Erythromycin

Erycinum
Erythromycin

EryDerm
Erythromycin

Erythro
Erythromycin

Erythrocin
Erythromycin

Erythrogran
Erythromycin

Erythroguent
Erythromycin

Erythromycin
Erythromycin

Erythromycin A
Erythromycin

Esiderm H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Eskacillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Esteron 99
Acetic acid, (2,4-dichlorophenoxy)-

Estonate
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Estonox
Toxaphene

Estra-1,3,5(10)-triene-3,17-beta-diol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Estra-1,3,5-triene
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Estrogens, conjugated
Estrogens, conjugated (No postings in CHEMLINE).

Estrol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Estrovite
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ethane hexachloride
Ethane, hexachloro-

Ethane, 1,1,1-trichloro-2,2-bis(4-chlorophenyl)
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Ethane, hexachloro-
Ethane, hexachloro-

Ethanecarboxylic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Ethylene hexachloride
Ethane, hexachloro-

Ethylenecarboxamide
2-Propenamide

Ethylenediamine dihydroiodide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Ethylformic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Ethylhexyl phthalate Eviplast 80
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Eulan WA New
Eulan WA New

Eviplast 81
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Evola
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Exmin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Exodin
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Experimental Insecticide 269
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

F-150
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Falapen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Falithion Fenition
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Falkitol
Ethane, hexachloro-

Fanterrin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Farmicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Fasciolin
Ethane, hexachloro-

Fe-55
Iron, isotope of mass 55

Femestral
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Femogen
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Fenamin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Fenamine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Fenatrol
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Fenbendazol
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Fenbendazole
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Fenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Fenitrothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Fenvalerate
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Fernimine
Acetic acid, (2,4-dichlorophenoxy)-

Fernisolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ferrovac E
Iron

Ficortril
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Flavolutan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Fleximel
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Flexol DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Flo-Cillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Flucythrinate
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Fluoride
Fluoride

Fluoride ion
Fluoride

Fluorine ion (1-)
Fluoride

Fluorocythrin
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Flytrol
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

FMC 17370
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

FMC 33297
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

FMC 41655
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Folidol M Folidol M-40
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Folithion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Follicyclin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Fologenon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

For-Syn
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Foredex 75
Acetic acid, (2,4-dichlorophenoxy)-

Forpen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Forst-Nexen
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Fourrine 4R
Phenol, 2-amino-4,6-dinitro-

Fourrine 93
Phenol, 2-amino-4,6-dinitro-

Frusemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Frusemin
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Ftalophos
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Fulsix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fuluvamide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fuming liquid arsenic
Arsenic oxide [As2O3]

Funachex
Mercury chloride

Fungifen
Phenol, pentachloro-

Furaltadone
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furanthril
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furanthryl
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furantril
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furaxon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furaxone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furazol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furazolidon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furazolidone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furazolin
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furazoline
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furazon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furesis
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furidon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furmethanol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furmethonol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furmetonol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Furosemid
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furosemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Furox
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furoxal
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furoxane
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furoxone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furoxone swine mix
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furozolidine
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Furro 4R
Phenol, 2-amino-4,6-dinitro-

Fursemid
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fursemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Fusid
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

FW 734
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

G 30027
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

G 301
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

G-24480
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Galesan
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Gamma benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-1,2,3,4,5,6-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Aminopyridine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

gamma-Benzene hexachloride
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-BHC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-HCH gamma-Hexachloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorobenzene
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Hexachlorocyclohexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

gamma-Methylthio-alpha-aminobutyric acid
Methionine, L- (8 CI); L-Methionine (9 CI)

Gammater
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Garden Tox
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

GC 1189
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

GC 1283
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Genacort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Geniphene
Toxaphene

Genoplast B
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Gentamicin
Gentamicin

Gentamycin
Gentamicin

Geomycin [Streptomyces vimosus]
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Gesafid
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Gesaprim
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Gesarol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Gesoprim
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Gesterol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gesterol 50
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gestone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gestormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gestron
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Giardil
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Giarlam
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Ginosedol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Glanducorpin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Globenicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

GPKh
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Grascide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Green Oil
Anthracene

Grey arsenic
Arsenic

Growth hormone
Somatotropin

Grundier Arbezol
Phenol, pentachloro-

Guaranine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Gyncestryl
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Gynergon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Gynlutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Gynolutone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Hamidop
Phosphoramidothioic acid, O,S-dimethyl ester

HC
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

HCB
Benzene, hexachloro-

HCBD
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

HCC
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HCCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HCE
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

HCH
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HCH
Hexachlorocyclohexane, total (No postings in CHEMLINE).

Heb-Cort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Heclotox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hedonal [herbicide]
Acetic acid, (2,4-dichlorophenoxy)-

HEOD
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Hepta
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Heptachlor
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Heptachlor epoxide
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

Heptachlorane
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Hercules 3956
Toxaphene

Hexa
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexabutyldistannoxane
Distannoxane, hexabutyl-

Hexachlor-aethan
Ethane, hexachloro-

Hexachloran Hexachlorane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexachloro-1,3-butadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Hexachlorobenzene
Benzene, hexachloro-

Hexachlorobutadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Hexachlorocyclohexane
Hexachlorocyclohexane, total (No postings in CHEMLINE).

Hexachlorocyclopentadiene dimer
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Hexachloroethane Hexachloroethylene
Ethane, hexachloro-

Hexadrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Hexaplas M/B
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Hexaverm
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexchlorobutadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Hexicide
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hexyclan
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HGI
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

HHDN
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Hi-O-Dide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hidro-Colisona
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hipercilina
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Hiptagenic acid
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

HOE 2,671
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

HOE 881
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

HOE 881V
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Hoelite
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Hoffman bonded E-D-D iodine compound
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hormoflaveine
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Hormoluton
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Hormone somatotrope
Somatotropin

Hortex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hostetex L-PEC
Benzene, 1,2,4-trichloro-

Hostocrotin H
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hungaria L 7
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Hungazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Hungazin PK
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Hy-odide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hyasorb
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Hycort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hycortol
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hycortole
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydeltra
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydeltrone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrasson
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydriodide-boot
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hydriodide-o-dide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hydro-Adreson
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocerin
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Hydrocodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Hydrocorticosterone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocortisone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocortisone free alcohol
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrocortisyl Hydrocortone
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrodeltalone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrodeltisone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrodine
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Hydrofluoric acid, ion (1-)
Fluoride

Hydroretrocortin
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Hydrovit A
Vitamin A

Hydroxybenzene
Phenol

Hylenta
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Hypophyseal growth hormone
Somatotropin

Hytone Lotion
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

I 337A
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

I-125
Iodine, isotope of mass 125

I-131
Iodine, isotope of mass 131

Ibifur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

ICI 50172
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

ICI-PP 557
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Illoxol
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Ilotycin
Erythromycin

Imidan
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Imidathion
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Incortin-H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Insectlack
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Intox
Chlordane

Intox [insecticide]
Chlordane

Intramycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

IOD-Ethamine
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Iodine
Iodine

Iodine ((127)I2)
Iodine

Iodine colloidal
Iodine

Iodine crystals
Iodine

Iodine sublimed
Iodine

Iodine-125
Iodine, isotope of mass 125

Iodine-127
Iodine

Iodine-129
Iodine, isotope of mass 129

Iodine-131
Iodine, isotope of mass 131

Iosan Superdip
Iodine

Ipaner
Acetic acid, (2,4-dichlorophenoxy)-

Iron
Iron

Iron-55
Iron, isotope of mass 55

Ismicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Isodextropimaric acid
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Isopimaric acid
Podocarp-7-en-15-oic acid, 13beta-methyl-13-vinyl-, (-)- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Ivoran
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Izal
Phenol

Jacutin
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

JISC 3108
Aluminum

JISC 3110
Aluminum

Jodethamine
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Julin's carbon chloride
Benzene, hexachloro-

Juvamycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kabipenin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Kafar copper M1 [copper]
Copper

Kafil
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Kamaver
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kamfochlor
Toxaphene

Karbicron
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Kathro
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Katlex
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Kemicetine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kendall's compound F
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Kepone
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Kestrel [pesticide]
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Ketrax
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Klorita Klorocid S
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Kodaflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Koffein
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Kokotine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Kombi-Albertan
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Kortofil
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

KS-4
Lead

Kwell
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Kypchlor
Chlordane

Kyslicnik tri-n-butylcinicity
Distannoxane, hexabutyl-

L 3
Silver

L16
Aluminum

Lamdiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Lanol
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Lanthanium
Lanthanum

Lanthanum
Lanthanum

Lard-factor
Vitamin A

Lasex Lasilix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lasix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lastanox F
Distannoxane, hexabutyl-

Lastanox Q
Distannoxane, hexabutyl-

Lastanox Q1
Distannoxane, hexabutyl-

Lastanox T
Distannoxane, hexabutyl-

Lastanox T 20
Distannoxane, hexabutyl-

Lauxtol
Phenol, pentachloro-

LB 502
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lead
Lead

Lead Flake
Lead

Lead of mass 210
Lead, isotope of mass 210

Lead S2
Lead

Lead-210
Lead, isotope of mass 210

Ledercillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Lendine
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lenocycline
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Lentopen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Lentox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Leukomyan
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Leukomycin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Levamisol
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Levamisole
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Levomicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Levomitsetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Levomycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Levomysol
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Levotetramisol
Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)-

Lidenal
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindatox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lindosep
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lintox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Linvur
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Lipo-Lutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Liquamycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Liquapen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Liroprem
Phenol, pentachloro-

Lithium
Lithium

Lobamine L-(-)-Methionine
Methionine, L- (8 CI); L-Methionine (9 CI)

Loha
Iron

Lorexane
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Loromisin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Lowpstron
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Lucorteum sol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luprosil
Propionic acid (8 CI); Propanoic acid (9 CI)

Luteal hormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteinique
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteocrin normale
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteodyn
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteogan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteohormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteopur
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteosan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteostab
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Luteovis
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutex
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutidon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutocyclin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutocyclin M
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutocylin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutoform
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutogyl
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutren
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lutromone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Lycine hydrochloride
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

M 1
Copper

M 3
Copper

M 4
Copper

M 5055
Toxaphene

m-Dibromobenzene
Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)

m-Dichlorobenzene
Benzene, 1,3-dichloro-

m-Dichlorobenzol
Benzene, 1,3-dichloro-

M-Parathion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

m-Phenylene dichloride
Benzene, 1,3-dichloro-

M2 [copper]
Copper

M3 [copper]
Copper

M31
Copper

M3S
Copper

M4 [copper]
Copper

Macasirool
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Macocyn
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Macrodiol Nordicol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Magnesium
Magnesium

Malix
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Manganese
Manganese

Marlate
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Mastiphen
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Mateina
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

MCB
Benzene, chloro-

MChVL
Molybdenum

Me1700
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Meconium
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Medaron
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Medifuran
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Megacillin tablets
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Melinite
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Melipax
Toxaphene

Membrettes
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Mendrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Meonine
Methionine, L- (8 CI); L-Methionine (9 CI)

MEP
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

MEP [pesticide]
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Meptox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Mepyrium
2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI)

Mercuric bichloride
Mercury chloride

Mercuric chloride
Mercury chloride

Mercuric chloride, solid
Mercury chloride

Mercury
Mercury

Mercury bichloride
Mercury chloride

Mercury dichloride
Mercury chloride

Mercury perchloride
Mercury chloride

Mercury(II) chloride
Mercury chloride

Merex
1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-

Mertionin
Methionine, L- (8 CI); L-Methionine (9 CI)

Met
Methionine, L- (8 CI); L-Methionine (9 CI)

Metacetonic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Metacid 50
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metacide
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metacortandralone Meticortelone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Metafos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metafos [pesticide]
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metallic arsenic
Arsenic

Metallic tin
Tin

Metamidophos
Phosphoramidothioic acid, O,S-dimethyl ester

Metana
Aluminum

Metana Aluminium Paste
Aluminum

Metaphos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metathion E 50
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metathione
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metathionine E50
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metathoin
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metation
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Metation E50
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Methamidophos
Phosphoramidothioic acid, O,S-dimethyl ester

Methilanin
Methionine, L- (8 CI); L-Methionine (9 CI)

Methionine
Methionine, L- (8 CI); L-Methionine (9 CI)

Methoxy-DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Methoxychlor
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Methyl 4-chlorophenyl sulfone
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

Methyl acetic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Methyl ether derivative of Triclosan
Triclosan methyl (No postings in CHEMLINE).

Methyl mercury ion
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methyl parathion
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Methyl pentachlorophenyl ether
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Methyl pentachlorophenate
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Methyl-E 605
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Methylmercury
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylmercury ion(1+)
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylmercury(1+)
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylmercury(II) cation
Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI)

Methylnaphthalene methanol
Methylnaphthalenemethanol (No postings in CHEMLINE).

Methylnitrophos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Methyltheobromine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Methylthiophos
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Meti-Derm
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Metione
Methionine, L- (8 CI); L-Methionine (9 CI)

Metox
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

Metron
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Metron [pesticide]
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Mglawik F
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Micloretin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Microcetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Millol 49
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Mirex
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Molecular iodine
Iodine

Molybdenum
Molybdenum

Monitor
Phosphoramidothioic acid, O,S-dimethyl ester

Monitor [insecticide]
Phosphoramidothioic acid, O,S-dimethyl ester

Monochlorobenzene
Benzene, chloro-

Monohydroxybenzene
Phenol

Monopen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Monophenol
Phenol

MonoProp
Propionic acid (8 CI); Propanoic acid (9 CI)

Monsanto CP 47114
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Montrose propanil
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Morkit
Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)

Morphia
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphin
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphina
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphine
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphinism
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphinum
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Morphium
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

Moth flakes
Naphthalene

Moth Snub D
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Mottenhexe
Ethane, hexachloro-

Mszycol Neo-Scabicidol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

MT 1E
Distannoxane, hexabutyl-

Mutoxan Neocid
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Mychel
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Mycinol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Mykolastanox FF
Distannoxane, hexabutyl-

Mylipen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Myvak
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Myvax
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

N-(((4-chlorophenyl)amino)carbonyl-2,6-difluorobenzami de
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

N-(3,4-dichlorophenyl)propionamide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

N-(Mercaptomethyl)phthalimide S-(O,O-dimethyl phosphorodithioate)
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

n-Alkanes
n-Alkanes (No postings in CHEMLINE).

n-Butyl phthalate
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

n-C13
Tridecane

n-C20
Eicosane

n-Cetane
Hexadecane

n-Dodecane
Dodecane

n-Heptadecane
Heptadecane

n-Hexadecane
Hexadecane

n-Nonadecane
Nonadecane

n-Octadecane
Octadecane

n-Pentadecane
Pentadecane

n-Tetradecane
Tetradecane

n-Tridecane
Tridecane

NA 1344
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Nadeine Novicodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Nalutron
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Naphthaline
Naphthalene

Naphthene
Naphthalene

Naphthol
Naphthol (8 CI); Naphthalenol (9 CI)

Natrium
Sodium

NCI-C00475
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

NCI-C03076
Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI)

NCI-C04604
Ethane, hexachloro-

NCI-C06428
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

NCI-C56473
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

NCI-C60173
Mercury chloride

Neftin
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Neo-Methidin
Methionine, L- (8 CI); L-Methionine (9 CI)

Neocidol
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Neocidol Neocidol [oil]
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Neoproc
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Neston
Methionine, L- (8 CI); L-Methionine (9 CI)

Nexen FB
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nexit
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nexit-stark
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nexol-E
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

NF 180
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

NF 260
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Ni 0901-S(Harshaw)
Nickel

Ni 270
Nickel

Ni 4303T
Nickel

NIA 17370
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

NIA 33297
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Niagra 5,462
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Nickel
Nickel

Nickel 270
Nickel

Nickel NP2
Nickel

Nicochloran
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Nicolen
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nicorol
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Nifulidone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nifurazolidone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nimco Cholesterol base H Nimco cholesterol base No. 712
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Nio-A-Let
Vitamin A

Nitraldone
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Nitrite
Nitrite

Nitro-Sil
Ammonia

Nitrofurmethone
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Nitrofurmeton
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Nitrofuroxon
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Nitrogen
Nitrogen

Nitrogen gas
Nitrogen

Nitrogen-14
Nitrogen

Nitrophos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Nitrous acid, ion (1-)
Nitrite

Nitrox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Nitrox 80
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Nitroxanthic acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

No Bunt
Benzene, hexachloro-

No Bunt 40
Benzene, hexachloro-

No Bunt 80
Benzene, hexachloro-

No Bunt Liquid
Benzene, hexachloro-

No-Doz
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Nonachlor, cis
4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha, 4,7,7-aalpha-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha ,2alpha,3alpha,3aalpha,4beta,7aalpha- (9 CI)

Noral Aluminium
Aluminum

Noral Extra Fine Lining Grade
Aluminum

Noral Ink Grade Aluminium
Aluminum

Normimycin V
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Noromycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Norphytane
Pentadecane, 2,6,10,14-tetramethyl-

Notaral
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Novicondin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Novocaine penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

NP2
Nickel

NRDC 104
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

NRDC 143
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

NSC 10483
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

NSC 190987
Phosphoramidothioic acid, O,S-dimethyl ester

NSC 195022
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

NSC-9169
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

NSC-9704
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Nuvanol Oleosumifene
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

O,O-Dimethyl O-(N,N-dimethylcarbamoyl-1-methylvinyl) phosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

O,O-Dimethyl o-(p-nitrophenyl)thionophosphate O,O-Dimethyl O-(p-nitrophenyl) thiophosphate
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

O,O-Dimethyl S-(phthalimidomethyl) dithiophosphate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

O,O-Dimethyl S-phthalimidomethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

O,O-Dimethyl-O-(1,4-dimethyl-3-oxo-4-aza-pent-1-enyl)p hosphate
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

O,O-Dimethyl-O-(2-dimethyl-carbamoyl-1-methyl-vinyl)ph osphat
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

O,O-Dimetil-O-(1,4-dimetil-3-oxo-4-aza-pent-1-enil)-fo sfato
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

o,p'-DDT
Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI)

O,S-Dimethyl acetylphosphoramidothioate
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

O,S-Dimethyl ester amide of amidothioate
Phosphoramidothioic acid, O,S-dimethyl ester

O,S-Dimethyl N-acetylphosphoramidothioate
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

O,S-Dimethyl phosphoramidothioate
Phosphoramidothioic acid, O,S-dimethyl ester

o-Dichlorobenzene
Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)

o-hexopyranosyl)oxy)oxacyclotetradecane-2,10-dione
Erythromycin

Octa-Klor
Chlordane

Octachlor epoxide
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Octalene
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Octalox
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Octoil
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Octylphthalate
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Oestergon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Oestra-1,3,5(10)-triene-3,17beta-diol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Oestradiol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Oestroglandol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

OFHC Cu
Copper

Oksisyklin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oktanex
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

Oleobidrin
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Oleodiazinon
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Oleogesaprim
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Oleovitamin A
Vitamin A

Oleovitamin D3
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Omal
Phenol, 2,4,6-trichloro-

Omnitox
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

OMS 1804
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

OMS 1821
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

OMS 43
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

OMS 570
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Opclor
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Optazol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Optef
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Opthochlor
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Ortazol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Orthene
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Orthene-755
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Ortho 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Ortran
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

Ospalivina
Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7,8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI)

OTBE
Distannoxane, hexabutyl-

OTC OTC [antibiotic]
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Otifuril
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Otosone-F
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Outflank
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Ovadofos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Ovadziak
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Ovahormon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovasterol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovastevol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovex [tablets]
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovocyclin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Ovocylin
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Owadofos
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Owadziak
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Oxacyclotetradecane-2,10-dione, 4-((2,6-dideoxy-3-C-methyl-3-O-methyl-alpha-L-ribo-hexopyran osyl)oxy
Erythromycin

Oxitetracyclin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxy-kesso-tetra
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Oxybenzene
Phenol

Oxybis(tributyltin)
Distannoxane, hexabutyl-

Oxychlordan
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Oxychlordane
4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI)

Oxymycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxymykoin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxypam
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxyterracin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxyterracine
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxyterracyne
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxytetracyclin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxytetracycline
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

Oxytetracycline amphoteric
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6b eta,12aalpha))-

p,p'-DDD
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

p,p'-DDE
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

p,p'-DDMU
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

p,p'-DDT
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

p,p'-Dichlorobenzophenone
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

p,p'-Dichlorobiphenyl
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

p,p'-Dichlorodiphenyldichloroethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

p,p'-Dichlorodiphenyltrichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

p,p'-Dichlorodiphenyldichloroethylene
Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI)

p,p'-Dimethoxydiphenyltrichloroethane 1,1-Bis(p-methoxyphenyl)-2,2,2-trichloroethane
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

p,p'-DMDT
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

p,p'-DME
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

p,p'-Methoxychlor
Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-methoxy- (9 CI)

p,p'-TDE
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

p,p'-TDEE
Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI)

p,p-DCBP
Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)

P-32
Phosphorus, isotope of mass 32

p-Aminopyridine
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

p-Chlorobiphenyl
Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI)

p-Chlorophenyl chloride
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

p-Chlorophenyl methyl sulfone
Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI)

p-Dichlorobenzene
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

PAD
Polychloro-2-aminodiphenyl ether (No postings in CHEMLINE).

Palatinol AH
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Palatinol C
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Panacelan
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Panacur
Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

Pantomicina
Erythromycin

Pantovernil Paraxin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

PAP-1
Aluminum

Parachlorocidum
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Paracodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Paracodine
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Paracortol
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Paradi
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paradichlorobenzene
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paradow
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paramex
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Paramoth
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Paranaphthalene
Anthracene

Parathion-methyl Parathion methyl homolog
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Parencillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Parzone
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

Pay-Off
Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

PBB
Polybrominated biphenyls (No postings in CHEMLINE).

PCA
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

PCB
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

PCB 1254
Arochlor 1254

PCB 1260
Arochlor 1260

PCDD
Polychlorinated dibenzo-p-dioxin (No postings in CHEMLINE).

PCDF
Polychlorinated dibenzofurans (No postings in CHEMLINE).

PChK
Toxaphene

PCN
Polychlorinated naphthalenes (No postings in CHEMLINE).

PCP
Phenol, pentachloro-

PCSD
Polychloro-2-(chloromethylsulphonamido)-diphenyl ether (No postings in CHEMLINE).

PCT
Terphenyl, chlorinated

PDB
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

PDD 60401
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

PDMS
Polydimethylsiloxane (No postings in CHEMLINE).

PEB1
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Pedraczak
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Pen-Fifty
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Penaquacaine G
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Pencap M
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Penchlorol
Phenol, pentachloro-

Penicillin G potassium salt
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Penicillin G procaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Penicillin G, procaine
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Penicillin potassium G, crystalline
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Penick 1382
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Penisem
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Penncap M
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Penncapthrin
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Penphene
Toxaphene

Penta
Phenol, pentachloro-

Pentachlorin
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Pentachloroanisole
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Pentachlorobenzene
Benzene, pentachloro-

Pentachloromethoxybenzene
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Pentachlorophenol
Phenol, pentachloro-

Pentachlorophenyl chloride
Benzene, hexachloro-

Pentachlorophenyl methyl ether
Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

Penticidum
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Pentid
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Pentids
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Perchloride of mercury
Mercury chloride

Perchloro-1,3-butadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Perchlorobenzene
Benzene, hexachloro-

Perchlorobutadiene
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

Perchlorodihomocubane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Perchloroethane
Ethane, hexachloro-

Perchloropentacyclo(5.2.1.0(2,6).0(3,9).0(5,8))decane
1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro-

Percolate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Percutacrine luteinique
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Perfluoride
Fluoride

Perigen
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Perlatanol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Permasan
Phenol, pentachloro-

Permasect
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Permethrin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Permetrin Permigen W
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Permicort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Persia-Perazol
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Perthrine
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Pfizerpen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Pfizerpen-AS
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Pflanzol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

PGF2alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

PH 60-40
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Phenachlor
Phenol, 2,4,6-trichloro-

Phenacide
Toxaphene

Phenanthrene
Phenanthrene

Phenanthrol
Phenanthrenol

Phenatox
Toxaphene

Phenic acid
Phenol

Phenitrothion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Phenohep
Ethane, hexachloro-

Phenol
Phenol

Phenol trinitrate
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Phenol, 2-amino-4,6-dinitro-
Phenol, 2-amino-4,6-dinitro-

Phenvalerate
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Phenyl chloride
Benzene, chloro-

Phenyl hydrate
Phenol

Phenyl hydroxide
Phenol

Phenylic acid
Phenol

Phenylic alcohol
Phenol

Phillips 1861
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

Phosmet
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phosphate de dimethyle et de 2-dimethyl carbamoyl 1-methyl vinyle
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Phosphoramidothioic acid, O,S-dimethyl ester
Phosphoramidothioic acid, O,S-dimethyl ester

Phosphoric acid, dimethyl ester, ester with (E)-3-hydroxy-N,N-dimethylcrotonamide
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-isoindol-2-yl)methyl) O,O-dimethyl ester
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phosphorus
Phosphorus

Phosphorus-31
Phosphorus

Phosphorus-32
Phosphorus, isotope of mass 32

Phthalic acid dioctyl ester
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Phthalimide, N-(mercaptomethyl)-, S-ester with O,O-dimethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phthalimido O,O-dimethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phthalimidomethyl O,O-dimethyl phosphorodithioate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phthalophos
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Phyol
Somatotropin

Phyone
Somatotropin

Phytane
Hexadecane, 2,6,10,14-tetramethyl-

Piaponon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Picral
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Picramic acid
Phenol, 2-amino-4,6-dinitro-

Picric acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Picronitric acid
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pielik
Acetic acid, (2,4-dichlorophenoxy)-

Pikrinezuur
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pikrinsaeure
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pikrynowy kwas
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Pimaric acid
Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-t rimethyl-, (1R-(1alpha,4abeta,4balpha, 7beta,10aalpha))- (9 CI)

Pitezin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Pittsburgh PX-138
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Pituitary growth hormone
Somatotropin

Pluchine
Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride

Plutonium
Plutonium

Plutonium-239
Plutonium, isotope of mass 239

PMP
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Polcort H
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Polonium-210
Polonium, isotope of mass 210

Polybrominated biphenyls
Polybrominated biphenyls (No postings in CHEMLINE).

Polychlorinated biphenyl
Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)

Polychlorinated dibenzo-p-dioxins
Polychlorinated dibenzo-p-dioxin (No postings in CHEMLINE).

Polychlorinated dibenzofurans
Polychlorinated dibenzofurans (No postings in CHEMLINE).

Polychlorinated naphthalenes
Polychlorinated naphthalenes (No postings in CHEMLINE).

Polychlorinated terphenyls
Terphenyl, chlorinated

Polychlorocamphene Strobane T
Toxaphene

Polycizer DBP
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Potassium
Potassium

Potassium benzylpenicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Potassium penicillin G
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Pounce
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

PP 557
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Practalol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Practolol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Praval
Calcium

Precortancyl
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Precortisyl
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Predne-Dome
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prednelan
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prednisolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Predonine
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prefemin
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Pregn-4-ene-3,20-dione
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Premocillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Prenolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Prepalin
Vitamin A

Primatol A
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Primaze
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Primofol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Primolut
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Pristane
Pentadecane, 2,6,10,14-tetramethyl-

Pro-Pen
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Proca-penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Procaine benzylpenicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Procaine penicillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Procanodia
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Profoliol
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Progekan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestasert
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progesterol
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestin
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progestron
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Progynon
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Progynon-DH
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Prolate
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Prolets
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Prolidon
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Proluton
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Propanamide, N-(3,4-dichlorophenyl)-
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanex
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanid
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propanil
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propenamide
2-Propenamide

Propiocine
Erythromycin

Propionic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Propionic acid 3,4-dichloroanilide
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Propionic acid grain preserver
Propionic acid (8 CI); Propanoic acid (9 CI)

Propionic acid, solution
Propionic acid (8 CI); Propanoic acid (9 CI)

Prostaglandin F2
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostaglandin F2alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostalmon F
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostin F 2 alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Prostin F2 alpha
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Proteroxyna
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Protormone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Provitamin A
Vitamin A

Provitamin D
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Prozoin
Propionic acid (8 CI); Propanoic acid (9 CI)

Pseudoacetic acid
Propionic acid (8 CI); Propanoic acid (9 CI)

Pu-239
Plutonium, isotope of mass 239

Puradin
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

PX 104
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Pydrin
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

PZh-1M3
Iron

PZh-2
Iron

PZh1M1
Iron

PZh2M
Iron

PZh2M1
Iron

PZh2M2
Iron

PZh3
Iron

PZh3M
Iron

PZh4M
Iron

Qamlin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Quecksilber chlorid
Mercury chloride

Quellada
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Quemicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Quicksilver
Mercury

R 1504
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

R 717
Ammonia

Radazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Radium D
Lead, isotope of mass 210

Radium F
Polonium, isotope of mass 210

Radonna
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Raney alloy
Nickel

Raney copper
Copper

Raney nickel
Nickel

Rapacodin
Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI)

RCH 55/5
Nickel

RE 12420
Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester

RE 9006
Phosphoramidothioic acid, O,S-dimethyl ester

Red phosphorus
Phosphorus

Red Shield
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Refresh'n
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Regulus of antimony
Antimony

Reichstein's substance M
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Relaxin
Relaxin

Releasin
Relaxin

Resmethrin
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Resmetrina
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

Retinol
Vitamin A

Retinyl acetate
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Rhodiachlor
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Rhothane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Rhothane D-3
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Ricketon
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Riomitsin Ryomycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Robimycin
Erythromycin

Rogue
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Roptazol
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Rosemide
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Rothane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

RP-Mycin
Erythromycin

Rubidium
Rubidium

S 1-165
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

S 112A
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

S 3151
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

S 5602
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

S 5660
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

s-Tetrachlorobenzene
Benzene, 1,2,4,5-tetrachloro-

s-Triazine, 2-chloro-4-ethylamino-6-isopropylamino-
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

s-Trichlorobenzene
Benzene, 1,3,5-trichloro-

S0
Lead

S1
Lead

Safidon
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Salix
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Samarium
Samarium

Sandaracopimaric acid
Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-tr imethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI)

Sang-gamma
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sanocide
Benzene, hexachloro-

Santochlor
Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)

Santophen 20
Phenol, pentachloro-

Sarolex
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

SBP 1382
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI) ; Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl) methyl ester (9 CI)

SBP 1513
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

SBP 1513ITEC
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Scandium
Scandium

Scherisolon
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Scheroson F
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Scotcil
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

SD 2794
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

SD 3417
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

SD 3419
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI)

SD 3562
Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI); Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI)

SD 43775
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Seedrin
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

Seguril
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Selenium
Selenium

Selenium-75
Selenium, isotope of mass 75

Sentry grain preserver
Propionic acid (8 CI); Propanoic acid (9 CI)

Sepsinol
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Septicol
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Sharcillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Shell Silver
Silver

Sicol 150
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Sigmacort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Signef
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Silflake 135
Silver

Silicones
Organosiloxanes (No postings in CHEMLINE).

Silver
Silver

Silver atom
Silver

Silver Matt Powder
Tin

Silver metal
Silver

Simidan
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Sinafid M-48
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Sintomicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

Sintomicetine R
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))-(9 CI)

SK-Penicillin G
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Smidan
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Snieciotox
Benzene, hexachloro-

Sodium
Sodium

Sodium (1+)
Sodium, ion (Na(1+))

Sodium (Na(1+))
Sodium, ion (Na(1+))

Sodium cation
Sodium, ion (Na(1+))

Sodium ion
Sodium, ion (Na(1+))

Sodium ion (Na(1+))
Sodium, ion (Na(1+))

Sodium ion(1+)
Sodium, ion (Na(1+))

Sodium metal
Sodium

Sodium(1+) ion
Sodium, ion (Na(1+))

Sodium-23
Sodium

Solkaciclina
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Somacton
Somatotropin

Somatotropin
Somatotropin

Sotropin H
Somatotropin

Spectracide
Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI)

Spirit of Hartshorn
Ammonia

Spritz-Rapidin
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Spruehpflanzol
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Sr 999
Silver

SRA 5172
Phosphoramidothioic acid, O,S-dimethyl ester

Staflex DBP
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Staflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Stam
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stam F 34
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stam LV 10
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stam M-4
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Stannicide A
Distannoxane, hexabutyl-

Stannicide O
Distannoxane, hexabutyl-

Stanomucetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Stauffer R 1504
Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI)

Steran
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Sterane
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Sterolone
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Stevacin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

STH
Somatotropin

Stibium
Antimony

Stim
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Stockade
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Stomoxin
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Stomoxin P
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Strazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Strel
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Streunex
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Strobane
Strobane

Strontium
Strontium

Strontium-90
Strontium, isotope of mass 90

Sublimat
Mercury chloride

Sublimate
Mercury chloride

Sugracillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Sulem
Mercury chloride

Sulema
Mercury chloride

Sumicidin
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Sumithion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Supernox
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Surcopur
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Surpur
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

SUY B-2
Iron

Sylvic acid
Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4,4a,4b,5,6, 10,10a-decahydro-1,4a-dimethyl-7-(1-methyl ethyl-)-, (1R-(1alpha,4abeta,4balpha,10aalpha))- (9 CI)

sym-Trichlorobenzene
Benzene, 1,3,5-trichloro-

Syndiol Theelin, dihydro-
Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI)

Syngesterone
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Syngestrets
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Synpran N
Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI)

Synthetic 3956
Toxaphene

Synthomycetine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Syntolutan
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Tabilin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, monopotassium salt (9 CI)

Tafidex
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Talcord
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

Talon
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl)-4-hydroxy-

Tamaron
Phosphoramidothioic acid, O,S-dimethyl ester

Tap 85
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Tar camphor
Naphthalene

Tarcortin
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Tatuzinho
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

TBA
Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)

TBTO
Distannoxane, hexabutyl-

TCA
Acetic acid, trichloro-

TCB
1,1'-Biphenyl, 2,2',4,5'-tetrachloro-

TCDBD
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

TCDD
Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI)

TDE
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Technical Chlordane
Chlordane

Tegolan
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Tenox P grain preservative
Propionic acid (8 CI); Propanoic acid (9 CI)

Teranol
Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)

Teravit
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Terbufos
Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI)

Termitox
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahyd ro-, endo, exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI)

Terrafungine
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Terramycin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Testavol
Vitamin A

Tetra Olive N2G
Anthracene

Tetrachlorodiphenyl ethane
Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI)

Tetran
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Tevcocin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Texacort Lotion Topicort
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

TH 60-40
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Thein
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Theine
Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)

Thimul
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Thiodan
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Thionex 1,2,3,4,7,7-hexachlorobicyclo[2.2.1]-2-heptene-5,6-bisoxymet hylene sulfite
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Thiophenit
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Thiophosphorsaeure-O,S-dimethylesteramid
Phosphoramidothioic acid, O,S-dimethyl ester

Thorium-232
Thorium

Tifomycine
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Tin
Tin

Tin Flake
Tin

Tin Powder
Tin

Tionex
5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI)

Tipula
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI)
1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha,4alpha, 4abeta,5alpha,8alpha,8abeta)- (9 CI)

TL 898
Mercury chloride

Topazone
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Total BHC
BHC, total (No postings in CHEMLINE).

Total HCH
BHC, total (No postings in CHEMLINE).

Toxakil
Toxaphene

Toxaphen
Toxaphene

Toxichlor
Chlordane

Toxyphen
Toxaphene

trans-Nonachlor
4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta,3alpha, 3aalpha,4beta,7beta,7aalpha)-

Transit
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Traumide
Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Trenbolone
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

Treomicetina
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

Tri-6 Viton
Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5alpha,6beta)- (9 CI)

Triazine A 1294
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Tributyltin oxide
Distannoxane, hexabutyl-

Trichloroacetic acid
Acetic acid, trichloro-

Trichlorobis(4'-chlorophenyl)ethane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Trichloroethanoic acid
Acetic acid, trichloro-

Triclosan methyl
Triclosan methyl (No postings in CHEMLINE).

Trienbolone
Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI)

Trifurox
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

Trinitrophenol
Picric acid (8 CI); Phenol, 2,4,6-trinitro

Trivitan
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Trofurit
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

Trojchlorobenzen
Benzene, 1,2,4-trichloro-

Truflex DOP
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

TsM1
Molybdenum

U 14583
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

U 46DP
Acetic acid, (2,4-dichlorophenoxy)-

U-14,583
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

U-14583
5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI)

Ulacort
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ultracorten H Ultracortene-H
Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)

Ultrafur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

UN 0154
Picric acid (8 CI); Phenol, 2,4,6-trinitro

UN 1344
Picric acid (8 CI); Phenol, 2,4,6-trinitro

UN 1624
Mercury chloride

UN 1848
Propionic acid (8 CI); Propanoic acid (9 CI)

Unexan-Koeder
Chlordane

Unifur
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Unimoll DB
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

Unimycetin
Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitroph enethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*))- (9 CI)

unsym-Trichlorobenzene
Benzene, 1,2,4-trichloro-

Uranium I [(238)U]
Uranium

Uranium-238
Uranium

Urea, 1-(m-chlorophenyl)-3-(2-(diethylamino)ethyl-2-thio- 1-(4-Chlorophenyl)-3-(2,6-difluorobenzoyl)
Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-

Urex
Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)

USAF DO-4
Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)

USAF EA-1
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI)

V 9
Silver

Vaflol
Vitamin A

Valsyn
2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)ami no)- (9 CI)

Vanadium
Vanadium

Vanadium-51
Vanadium

Vectal
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Vectal SC
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Velsicol 104
4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4, 5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI)

Velsicol 1068 1,2,4,5,6,7,8,8-Octachloro-2,3,3a,4,7,7a-hexahydro-4,7-metha noindene
Chlordane

Velsicol 53-CS-17
4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta,2alpha, 5alpha,5abeta,6beta,6aalpha)- (9 CI)

Vendarcin
2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12 ,12a-hexahydroxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))-

Verthion
Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI)

Verton 2-D
Acetic acid, (2,4-dichlorophenoxy)-

Verton 2D
Acetic acid, (2,4-dichlorophenoxy)-

Vestinol AH
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Vi-Alpha
Vitamin A

vic-Trichlorobenzene
Benzene, 1,2,3-trichloro-

Vidon 638
Acetic acid, (2,4-dichlorophenoxy)-

Vigorsan
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Vinicizer 80 Witcizer
Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI)

Vitamin A
Vitamin A

Vitamin A acetate
Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI)

Vitamin A alcohol
Vitamin A

Vitamin A(1)
Vitamin A

Vitamin D3
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Vitarrine
Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI)

Vitavel A
Vitamin A

Viting Dan-Dee-3
Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

Vitpex Vogan
Vitamin A

VMI 10-3
Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI)

Vofatox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Vogan-Neu
Vitamin A

Vomitoxin
Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)-

W 1164-3
Relaxin

Wang
Tin

WBA 8119
2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-nap hthalenyl)-4-hydroxy-

Weedex A
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

White arsenic
Arsenic oxide [As2O3]

White phosphorus
Phosphorus

White tar
Naphthalene

Whitmoyer ethylene diamine dihydriodide
Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI)

Witcizer 300
Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI)

WL 43479
Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester

WL 43775
Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester

Wofatox
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Wofotax
Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI)

Wonuk
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Wood alcohols B.P.
Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

Wycillin
4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0) heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alph a,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI)

Yellow phosphorus
Phosphorus

Zeapos
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Zeazin
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Zeazine
s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI)

Zerdane
Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis(4-chloro- (9 CI)

Zinc
Zinc

ZOBA 4R
Phenol, 2-amino-4,6-dinitro-

[component of] Eulan WA New
Polychloro-2-(chloromethylsulphonamido)-diphenyl ether (No postings in CHEMLINE).

[component of] Eulan WA New
Polychloro-2-aminodiphenyl ether (No postings in CHEMLINE).

[component of] Tricofuron
2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI)

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Goto, M. **2769, 3108, 4824, 4837**

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Graber, G. **3670, 3671, 3674, 4253, 4254, 4257**

Graham, F. **4634**

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Gustaffsson, B.K. **5680, 5692, 5695**

Gustafsson, B.K. **5681, 5684, 5693, 5696**

Gutenmann, W.H. **3201, 3262-3264, 3282, 3285, 3287, 3288**

Gyang, E.O. **5085**

Hagan, R.C. **3915, 5054**

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Hall, R.J. **3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240**

Hallford, D.M. **3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408**

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Hanson, E.E. **3399, 3400, 3405, 5167**

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Haux, C. **2718, 2719, 3254, 3255, 3612, 4395, 4653, 5381**

Hayton, W.L. **4914**

Heaney, D.P. **3649, 3654, 4732**

Heath, E.M. **5474-5481**

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Heinz, G.H. **2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813**

Helwig, D.D. **2694, 2695, 3332**

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Henry, P.R. **4494-4498**

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Hensler, G.L. **2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813**

Hernandez, L.M. **2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819**

Hicks, B.D. **3388-3390, 4475, 4476, 5133, 5134**

Hidaka, H. **3073, 3440, 3806, 3856, 5747, 5754, 5810, 5814**

Hidiroglou, M. **3649, 3654, 4732**

Higdon, P.K. **2836, 2837, 3789**

Hilbert, B. **5756, 5757, 5775**

Hilde B.L. **3352, 4881**

Hilker, D. **3877-3890, 3893-3902**

Hill, G.M. **3387, 3673, 4256, 4474, 4907, 5437**

Hillers, J.K. **5024**

Hilton, J.W. **3388-3390, 4475, 4476, 5133, 5134**

Hird, D. **3353**

Hodgins, D.A. **4661, 4662, 5111, 5112**

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Hogan, J.W. **4945-4956**

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Holmberg, O. **5163, 5164, 5741, 5742**

Holmbom, B. **4937-4941**

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Honda, K. **2708, 3159-3178, 3203, 3240, 3316, 3317, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5298-5317, 5344, 5367, 5423, 5424**

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Hook, J.B. **2778-2782**

Hora, M.E. **2694, 2695, 3332**

Horn af Rantzien, M. **5163, 5164, 5741, 5742**

Horn, E. **3877, 3878, 3880-3882, 3884-3890, 3893-3897**

Hotchkiss, D.K. **4201**

Houle, C.R. **2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4647, 4666, 4667, 4681, 4688, 4714, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444**

Hove, K. **3352, 4881**

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Howell-Heller, P. **4330, 4333, 4340, 4345**

Hoyano, Y. **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

Huber, T.L. **3910, 4163**

Hudgens, R.E. **3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408**

Hughes, D.L. **2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105**

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Jarman, W.M. **2940, 2941, 4019, 4020**

Jelus-Tyror, B. **3877, 3878, 3880-3882, 3884-3890, 3893-3897**

Jensen, A.A. **5186-5198**

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Johnson, M.S. **3300-3305, 3335-3341**

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Koritz, G.D. **5680, 5681, 5684, 5692, 5693, 5695, 5696**

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Lal, H. **3384, 3385**

Lamont, T.G. **2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811**

Lamphere, D.N. **3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5278, 5282**

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Larsson, A. **2718, 2719, 3254, 3255, 3612, 4395, 4653, 5381**

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Lindsay, D.G. **2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834**

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Mack, P.D. **4838-4843, 4845-4858**

MacMonegle, C.W. **3415, 3709, 3796, 5550, 5592, 5758, 5816**

Magee, B.H. **3280, 3283, 3286, 3289-3291**

Maita, K. **2778-2782**

Majak, W. **4800, 5059, 5058, 5448, 5449**

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Maly, M.S. **3333, 3334**

Mamarbachi, G. **2633, 4867-4876**

Marcelle, C. **2866-2868, 3719, 3720, 3727**

Marinez-Torres, C. **3393-3396, 4259-4262**

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Masters, H.G. **3646, 5404, 5407, 5409, 5410**

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Matsubara, F. **2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419**

Matsumoto, M. **5234-5239**

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Mattraw, H.C. **2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823**

Mayberry, C. **3646, 5404, 5407, 5409, 5410**

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Mazzarri, G. **3393-3396, 4259-4262**

McClary, D.G. **5743**

McDaniel, R.C. **3891, 3892**

McEwen, L.C. **2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812**

McFarlane, J.D. **5082, 5083, 5087**

McGaw, S. **4427**

McGill, C. **5756, 5757, 5775**

McGuinness, E. **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

McKeown, B.A. **4844**

McKim, J.M. **5474-5481**

McKim, J.M., Jr. **3094-3097, 4112-4115**

McLane, M.A.R. **4071, 4072, 5646, 5647**

McMillan, W.E. **3665**

McOrist, S. **3500, 3587, 3588, 4513, 5356**

Medeiros, C. **3128, 3224, 3318, 3517, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431**

Meier, P.G. **2684**

Meijer, J. **2842-2859**

Mendenhall, V.M. **4071, 4072, 5646, 5647**

Menzer, R.E. **2744, 2745**

Mercer, H.D. **5051-5053**

Meyer, A.W. **3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5278, 5282**

Meyer, C. **3877-3890, 3893-3902**

Meyer, J.S. **5245-5247**

Michel, T.C. **4729, 5723**

Michot, C.E. **2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800**

Middlesworth, L.V. **4191**

Miles, R.D. **4494-4498**

Miller, E. **4729, 5723**

Miller, E.R. **3315, 3387, 3485, 3666, 3673, 4248, 4256, 4474, 4907, 5421, 5437**

Miller, K,W. **3280, 3283, 3286**

Miller, K.W. **3289-3291, 4160-4162**

Minns, C.K. **4427**

Miravet, L. **4251, 4252, 4255**

Misra, U.K. **5254-5256**

Misra, V. **3384, 3385**

Mitchell, C.A. **4859**

Mitchell, G.E., Jr. **3374, 4463, 5036**

Mitchum, R.K. **3891, 3892**

Mitema, E.S. **2628**

Miyazaki, N. **4585-4597, 4716-4727, 5094-5106**

Miyazaki, T. **5234-5239**

Modrowski, D. **4251, 4252, 4255**

Monk, J.G. **2940, 2941, 4019, 4020**

Moore, J. **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

Moore, J.C. **2836, 2837, 3789**

Moore, J.F. **3179, 4003, 4329, 4365, 4366, 4598**

Morgan, E.B. **5080**

Moriarity, C. **5056**

Moriarty, F. **3127, 4270**

Morieux, C. **4251, 4252, 4255**

Moseley, W.M. **5162**

Mount, M.E. **2630, 4838-4843, 4845-4858, 4860, 4861, 4865**

Mourer, C. **5709, 5710**

Muir, A.D. **4800, 5058, 5059, 5448, 5449**

Mulhern, B.M. **3179, 4003, 4329, 4598**

Muntifering, R.B. **3374, 4463, 5036**

Murray, H.E. **2752, 3416, 3684, 3798, 4822, 4913, 4915**

Murti, C.R.K. **3384, 3385**

Musewe, V.O. **2628**

Mushinsky, H.R. **2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800**

Myers, M.S. **2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825**

Nagel, R. **4816-4818**

Nakamura, T. **4805-4807, 5020**

Naples, P. **2947, 3209, 3576, 5136**

Nash, D.M. **5093**

Nasu, T. **2708, 3203, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5344**

Nauwelaers, J.P. **3475-3479, 3622-3626, 4783-4787**

Neidert, E. **4820, 4821, 5729, 5731-5734**

Nelson, H.A. **2689-2693**

Ney, J.J. **3121, 3157, 3158, 3319-3321, 4265, 4326, 4327, 4422-4425, 4754, 4760, 4761, 4794-4797, 5258, 5295, 5296, 5432-5434**

Ng, L.L. **5711-5720**

Nichols, J.W. **2720**

Nicholson, J.K. **4689-4693, 5425-5430**

Niethammer, K.R. **2881, 2886, 2896, 2905, 2910, 2955, 2982-2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3813-3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3933-3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4039-4052, 4070, 4099, 4100, 4102, 4123-4139, 5207-5210, 5212, 5213, 5215, 5216, 5218-5227, 5229-5232, 5484, 5494, 5513-5519, 5542, 5566, 5568-5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5617-5625, 5643, 5666, 5751, 5752, 5771, 5773, 5808**

Niimi, A.J. **2746, 2812, 2826, 3109, 4728, 5206, 5482, 5547, 5548, 5724-5726**

Niiml, A.J. **2806, 2814, 2818, 2820, 2823, 2828, 2831, 2833, 2835, 3917, 5483**

Nishikawa, M. **2650-2657, 3306-3313, 3376-3383, 3656-3663, 4239-4246, 4465-4472, 4525-4532, 4898-4905, 5041-5048, 5154-5161, 5412-5419**

Nolan, C.V. **3236-3239**

Norheim, G. **2747, 2748, 2756-2759, 2763-2766, 2877, 2878, 2939, 2949, 2950, 2970, 2973, 2974, 3970, 3971, 4017, 4018, 4023, 4024, 4033-4035, 4537, 4610, 4611, 4613, 4618**

Norris, R.H. **3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3572-3575, 3611, 3613, 3614, 3627, 3628, 3676-3679, 5345, 5346, 5380, 5382, 5391-5393, 5439-5441**

North, M.J. **4141-4146, 4966-5019**

Nugent, T.E. **4733, 4734**

Nyboer, R.W. **4380-4382**

O'Dell, G.D. **3748**

O'Keefe, P. **3877-3890, 3893-3902**

O'Keeffe, M. **3911-3914**

Oehler, D.D. **5176-5185, 5730, 5735-5740**

Ohno, H. **4536, 4573, 4583, 4584, 4599, 4600, 4608, 4612, 4614, 4619, 4623-4625, 4630, 4658, 4669, 4682, 4697, 4698**

Oikari, A. **4937-4941**

Olesen, B. **4819**

Oliver, B.G. **2806, 2812, 2814, 2818, 2820, 2823, 2826, 2828, 2831, 2833, 2835, 3109, 3917, 5206, 5482, 5483, 5547, 5548, 5724-5726**

Oloffs, P.C. **4844**

Olsen, R.F. **5162**

Olson, O.E. **5130, 5132**

Olson, W.G. **4188, 4189, 5085**

Olsson, M. **4957-4965**

Opdycke, J.C. **2744, 2745**

Orskov, E.R. **5057**

Osborn, D. **4689-4693, 5425-5430**

Ose, Y. **4805-4807**

Osheim, D.L. **2689-2693**

Osweiler, G.D. **4819**

Ott, R.S. **5680, 5681, 5684, 5692, 5693, 5695, 5696**

Palmer, I.S. **5130, 5132**

Palmork, K.H. **4810-4813**

Parkhurst, B.R. **5245-5247**

Parrish, D.B. **5062, 5063**

Parrish, J.J. **3282, 3285, 3287, 3288**

Pass, M.A. **4800, 5058, 5059, 5448, 5449**

Pastel, M.J. **2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 5485-5492, 5498, 5524-5532, 5534-5541**

Paterson, J.A. **4140**

Pattee, O.H. **4365-4367, 4369, 4368, 4370-4372, 4374, 4373, 4375**

Patterson, J.R. **4820, 4821, 5729, 5731-5734**

Patton, W.H. **5721, 5722**

Paul, A.C. **4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435**

Paul, B.S. **5679**

Peakall, D.B. **2940, 2941, 4019, 4020**

Pearson, A.M. **3737-3741, 3752-3755, 3757-3761, 3769-3773**

Peattie, M.E. **2735, 2750, 2751, 2753, 2754, 2798, 2799, 2805, 2810, 2811, 2813, 2815-2817, 2819, 2821, 2822, 2824, 2825, 2827, 2829, 2830, 2832, 2834**

Peet, R.L. **5756, 5757, 5775**

Pennak, R.W. **5245-5247**

Perdomo, J. **3393-3396, 4259-4262**

Pereira, J. **2947, 3209, 3576, 5136**

Perkins, E.G. **5711-5720**

Perry, T.W. **2685-2688**

Pestka, J.J. **3737-3741, 3752-3755, 3757-3761, 3769-3773**

Peterle, T.J. **3858-3863, 3873-3875**

Peterson, L.A. **2689-2693**

Peterson, R.C. **2685-2688**

Petty, H.B. **3795, 5549, 5815**

Petty, J.D. **4945-4956**

Pettyl, H.B. **3415, 3709, 3796, 5550, 5592, 5758, 5816**

Pier, A.C. **3742-3747, 3749-3751, 3762-3768**

Pillai, K.C. **4264, 4357, 4361, 4392, 4398, 4399, 4417, 4430-4432, 4435**

Pimentel, D. **3201, 3262-3264**

Plummer, M.V. **3891, 3892**

Podowski, A.A. **5499-5511**

Pointillart, A. **4251, 4252, 4255**

Polin, D. **5450, 5451**

Pondick, J.S. **3315, 3485, 3666, 4248, 5421**

Popplewell, D.S. **2661, 3401, 4930, 4933, 5175**

Prelusky, D.B. **5233**

Price, N.C. **4141-4146, 4966-5019**

Prouty, R.M. **5589, 5590**

Prpic-Majic, D. **4277**

Puffer, H.W. **2914, 3803**

Puls, R. **5086**

Pyysalo, H. **3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872**

Ramamoorthy, S. **2761, 2761, 2784, 2784, 2790, 2790, 2803, 2803, 2804, 2804, 2807, 2807, 2808, 2808, 2809, 2809, 2961, 2961, 3041, 3041, 3051, 3051, 3082, 3082, 3083, 3083, 3092, 3092, 3099, 3099, 3100, 3100, 3101, 3101, 3421, 3421, 3429, 3429, 3434, 3434, 3441, 3441, 3442, 3442, 3443, 3443, 3445, 3445, 3446, 3446, 3447, 3447, 3687, 3687, 3691, 3691, 3692, 3692, 3694, 3694, 3695, 3695, 3696, 3696, 3697, 3697, 3698, 3698, 3699, 3699, 3931, 3931, 3949, 3949, 3950, 3950, 3955, 3955, 3956, 3956, 3958, 3958, 3959, 3959, 3968, 3968, 3969, 3969, 4027, 4027, 4076, 4076, 4085, 4085, 4106, 4106, 4107, 4107, 4111, 4111, 4116, 4116, 4117, 4117, 4118, 4118, 5613, 5613, 5650, 5650, 5656, 5656, 5669, 5669, 5670, 5670, 5671, 5671, 5672, 5672, 5673, 5673**

Randall, R.M. **2908, 2909, 2954, 2975, 2977, 3037, 3038, 3091, 3843, 3991, 3992, 4025, 4036, 4037, 4074, 4075, 4109, 5598, 5611, 5614, 5615, 5649**

Rappe, C. **4945-4956**

Ray, A.C. **2681**

Ray, L.E. **2752, 3416, 3684, 3798, 4822, 4913, 4915**

Ray, S. **3150, 3151, 3207, 3221, 3229, 3231, 3234, 3248, 3258, 3259, 3267, 3331, 3342, 3345**

Raynaud, J.P. **5682, 5685, 5687, 5689, 5691, 5694**

Reagor, J.C. **2681**

Reddy, C.S. **3131, 3132, 3135, 3139, 3520, 3525, 3528, 3531, 5271, 5275, 5278, 5282**

Rediske, R.R. **2684**

Reece, W.O. **4201**

Reichel, W.L. **2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813**

Reynolds, J.D. **3795, 4380-4382, 5549, 5815**

Reynolds, J.P. **3353**

Reynolds, L.M. **2940, 2941, 4019, 4020**

Ribeyre, F. **4699-4705, 4715**

Rice, D.W. **3536**

Richard, J.L. **3742-3747, 3749-3751, 3762-3768**

Richardson, D.W. **5257**

Rico, M.C. **2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819**

Ridlen, R.L. **3775-3788**

Riekwel-Booy, G. **2707, 2709, 2727-2729**

Ringer, R.K. **2778-2782, 2942-2944**

Risco, C.A. **3353**

Risebrough, R.W. **2940, 2941, 4019, 4020**

Robb, R. **4862-4864**

Robertson, I.D. **2730-2734**

Robinson, D.L. **4447**

Robinson, F.R. **2685-2688**

Rode, L.M. **4800, 5058**

Ronald, K. **2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794**

Ronneau, C. **2683, 2699, 2736, 3110, 3397, 3398, 3451, 3488, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273**

Rosales, M.T.L. **2862-2865, 2869-2874, 3797, 3802, 3807, 3808, 3835, 3839, 3840, 3864-3866, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5600, 5610, 5641, 5644, 5645, 5662-5664, 5759, 5761, 5770, 5784, 5785, 5795-5797**

Rosenblatt, D.H. **4825-4836, 4916-4927**

Ross, P.F. **2689-2693**

Ross, R. **3351**

Rottinghaus, G.E. **4819**

Rowe, L. **4275, 4279, 4282, 4285, 4289, 4295, 4299, 4302, 4304, 4306, 4307**

Rowe, L.D. **4278, 4280, 4284, 4287, 4292, 4297, 4298, 4301, 4303, 4305, 4309**

Rowland, K.R. **3891, 3892**

Rozman, K. **3984, 3985, 5495-5497**

Rozman, T. **3984, 3985, 5495-5497**

Rudolph, S.G. **4054-4057**

Ruhr, L.P. **4276**

Rush, G.F. **2778-2782**

Sabourin, T.D. **2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800**

Sadiq, M. **4778-4780, 4792, 4793, 4798, 4799, 5248-5253**

Saltes, J.G. **5442, 5443**

Sanchez, D.A. **5245-5247**

Sandstrom, B. **3354, 5281**

Sanpera, C. **3548, 4506, 5297**

Sapienza, P.P. **4729, 5723**

Saschenbrecker, P.W. **4820, 4821, 5729, 5731-5734**

Sato, E. **4805-4807**

Saveur, B. **4882**

Saxena, A.K. **3514, 4199, 4267, 4550, 5263**

Sayre, M.W. **2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099, 4100, 4102, 4123-4128, 4131, 4135-4139, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5484, 5494, 5515, 5517, 5519, 5542, 5566, 5568, 5571, 5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5666, 5751, 5752, 5771, 5773, 5808**

Scanlon, P.F. **3125, 3126, 3129, 3130, 3180, 3181, 3187-3198, 3211, 3212, 3241, 3242, 3245-3247, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3515, 3516, 3518, 3519, 3549, 3550, 3556-3567, 3577, 3578, 3599, 3600, 3605-3607, 3615, 3616, 3631-3636, 3675, 3681, 3682, 4268, 4269, 4272, 4273, 4328, 4331, 4332, 4339, 4341-4344, 4346-4349, 4358, 4359, 4386-4390, 4396, 4397, 4400-4405, 4428, 4429, 5264-5266, 5268-5270, 5318-5320, 5326-5340, 5347-5349, 5368, 5369, 5374-5376, 5383-5385, 5394-5401, 5438, 5445-5447**

Schaefer, A.L. **5135**

Schurman, S. **2947, 3209, 3576, 5136**

Schwartz, C.C. **5544-5546**

Schwartz, L.D. **5721, 5722**

Scott, P.M. **5233**

Searle, C.E. **4810-4813**

Seel, D.C. **4147-4151, 4153-4159**

Self, H.L. **4201**

Shane, L. **3879, 3883, 3898-3902**

Shanker, R. **3514, 4199, 4267, 4550, 5263**

Shariatpanahi, M. **2710-2715, 2721-2726**

Shariff, M.A. **5135**

Sharma, Y.K. **5255, 5254, 5256**

Shea, P.J. **4054-4057**

Sheffy, T.B. **2895**

Shewfelt, W. **4862-4864**

Shibuya, H. **2769, 3108, 4824, 4837**

Shimoda, W. **5051-5053**

Shotwell, O.L. **3742-3747, 3749-3751, 3762-3768**

Shukla, L.J. **3514, 4199, 4267, 4550, 5263**

Sick, L.V. **3111-3119, 3250, 4742-4751**

Siemers, R.J. **2919, 3048, 3049, 3103-3106, 3997-4000, 4081-4084, 4119-4122, 5559, 5602-5606, 5652-5655, 5674-5678, 5762-5766, 5786-5789, 5801-5805, 5820, 5821**

Sileo, L. **3908, 3909, 4164, 4180, 4181, 4365, 4366, 4752, 4803, 4804, 4808, 4809, 5199, 5240**

Sim, J.S. **3449, 3450**

Sindelar, C.R. **2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811**

Singer, P. **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

Sjobeck, M. **3254**

Sjobeck, M.-L. **2718, 2719, 3255, 3612, 4395, 4653, 5381**

Skaare, J.U. **2785-2788, 3043-3046, 3430-3432, 3701-3703, 3729-3732, 4077-4080, 5558, 5651**

Skender, L. **4277**

Sklan, D. **5257**

Sloan, R. **3877, 3878, 3880-3882, 3884-3890, 3893-3897**

Smiley, K. **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

Smith, G.S. **3984, 3985, 5495-5497**

Smith, J.H. **2778-2782**

Smith, L.M. **4945-4956**

Smith, R. **3879, 3883, 3898-3902**

Smith, S.D. **2720**

Smith, S.I. **4730, 4801, 4802, 5084**

Soine, P.J. **5544-5546**

Solbakken, J.E. **4810-4813**

Sorensen, E.M.B. **5122-5129**

South, P.J. **5081, 5091**

Spagone, C. **2916, 2937, 3026, 3030, 3035, 3042**

Springer, A.M. **2940, 2941, 4019, 4020**

Srivastava, S.N. **3514, 4199, 4267, 4550, 5263**

Stafford, C.J. **2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5587, 5588, 5616, 5745, 5748, 5750, 5755, 5772, 5807, 5812**

Stalling, D.L. **4945-4956**

Steffey, K.L. **3415, 3709, 3795, 3796, 5549, 5550, 5592, 5758, 5815, 5816**

Steiner, J.W. **2700-2702, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283**

Stephenson, D.C. **3358**

Stevens, J.B. **4188, 4189, 5085**

Stickel, L.F. **2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105**

Stickel, W.H. **2883, 2911, 2964, 2965, 3081, 3976, 3994, 4028, 4029, 4105**

Stickle, W.B. **2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800**

Stinson, M.D. **3155, 3156, 3545-3547, 4315, 4317, 4323, 4325, 4581, 4582**

Stoewsand, G.S. **3201, 3262-3264, 3280, 3282, 3283, 3285-3291**

Stone, W.B. **2887-2893, 2904, 2906, 2907, 2920-2933, 2951-2953, 2958-2960, 2962, 2963, 2966-2969, 3013-3021, 3023, 3024, 3053-3056, 3058-3064, 3085-3090, 3978-3981, 4002, 4004-4013, 4030-4032, 4061-4067, 4069, 4086-4092, 4108, 5485-5492, 5498, 5524-5532, 5534-5541**

Stoner, J.H. **2659**

Stouffer, J.R. **3282, 3285, 3287-3291**

Stougger, J.R. **3280, 3283, 3286**

Stowe, C.M. **5683, 5686, 5688, 5690**

Strik, J.J.T.W.A. **2897**

Stubblefield, R.D. **3742-3747, 3749-3751, 3762-3768**

Stuedemann, J.A. **4448**

Subramanian, B.R. **3806**

Sugiura, K. **2769, 3108, 4824, 4837**

Sullivan, J.R. **2895**

Sumerling, T.J. **3402, 5174**

Sundberg, J.P. **4380-4382**

Sutton, R.H. **4266**

Suzuki, H. **2769, 3108, 4824, 4837**

Suzuki, K.T. **2650-2657, 3222, 3223, 3306-3313, 3361, 3362, 3376-3383, 3589, 3590, 3656-3663, 4222, 4223, 4239-4246, 4450, 4451, 4465-4472, 4525-4532, 4884, 4885, 4898-4905, 5041-5048, 5154-5161, 5357, 5358, 5412-5419**

Swick, R.A. **3651**

Szefer, P. **3182-3186, 3494-3498, 3551-3555, 4216-4220, 4334-4338, 4507-4511, 4762-4766, 5201-5204, 5241-5244, 5321-5325**

Takekawa, J. **3665**

Tanabe, S. **2918, 3034, 3079, 3107, 3806, 3804, 3842, 3869, 3876, 4166, 4173, 4177, 4179**

Tanaka, H. **2918, 3034, 3079, 3107, 3804, 3842, 3869, 3876, 4166, 4173, 4177, 4179**

Tanksley, T.D. **2681**

Tatsukawa, R. **2663-2677, 2708, 2749, 2760, 2762, 2767, 2775, 2776, 2783, 2789, 2791, 2792, 2880, 2918, 2957, 2978, 3011, 3012, 3025, 3032, 3034, 3050, 3052, 3057, 3073, 3079, 3080, 3107, 3159-3178, 3203, 3240, 3316, 3317, 3440, 3499, 3571, 3790, 3792, 3804, 3806, 3810-3812, 3834, 3836, 3841, 3842, 3847-3849, 3856, 3869, 3870, 3876, 4165-4179, 4221, 4353, 4512, 4585-4597, 4609, 4716-4727, 4767, 5094-5106, 5298-5317, 5344, 5367, 5423, 5424, 5747, 5754, 5810, 5814**

Teeny, F.M. **2638, 2639, 2644, 2645, 2649, 2658, 2660, 2737-2743, 3357, 3363, 3368, 3369, 3373, 3386, 3391, 3464, 3467, 3473, 3474, 3480, 3486, 3487, 3541, 3591, 3617, 3618, 3642, 3667, 3680, 4213, 4224, 4229, 4230, 4234, 4249, 4258, 4436-4442, 4449, 4452, 4457, 4458, 4462, 4473, 4477, 4503, 4514, 4519, 4520, 4524, 4534, 4535, 4572, 4647, 4666, 4667, 4681, 4688, 4714, 4883, 4886, 4891, 4892, 4896, 4906, 4908, 5026, 5027, 5031, 5032, 5035, 5049, 5050, 5141, 5142, 5146, 5147, 5150, 5152, 5153, 5166, 5168-5173, 5291, 5359, 5386, 5387, 5402, 5422, 5444**

Teigen, S.W. **2785-2788, 3043-3046, 3430-3432, 3701-3703, 3729-3732, 4077-4080, 5558, 5651**

Telfer, S.B. **3521, 3643**

Telford, J.N. **3282, 3285, 3287, 3288, 3280, 3283, 3286, 3289-3291**

ten Noever de Brauw, M.C. **2707, 2709, 2727-2729**

Terashima, Y. **3374, 4463, 5036**

Thaler, R.C. **5130, 5132**

Thielecke, J.R. **4707, 4710**

Thieleke, J.R. **4683, 4684**

Thomas, K.W. **3500, 3587, 3588, 4513, 5356**

Thome, J.P. **2866-2868, 3719, 3720, 3727**

Thomson, A.G. **4147-4151, 4153-4159**

Tobin, T. **4733, 4734**

Topping, J.J. **2704-2706, 2717, 2901, 2902, 2912, 3036, 3146, 3147, 3152, 3251, 3418-3420, 3426, 3462, 3463, 3465, 3471, 3537, 3538, 3542, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311-4313, 4393, 4568, 4569, 4574, 4652, 5287, 5288, 5292, 5378, 5595, 5596, 5601, 5648**

Toutain, P.L. **5682, 5685, 5687, 5689, 5691, 5694**

Trengove, C.L. **3644, 3652**

Trenholm, H.L. **5233**

Tribble, L.F. **5709, 5710**

Tsitsamis, S.D. **5085**

Tucker, R.E. **3374, 4463, 5036**

Tuinstra, L.G.M.T. **2897**

Turgeon, K.S. **4909-4912**

Turner, V.A. **4729, 5723**

Tyler, R.D. **2629**

Usenik, E.A. **5085**

Vallely, P.J. **2700-2702, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283**

Vallribera, M. **3548, 4506, 5297**

van Beersum, I. **3202, 3570, 4352, 5343**

Van Bruwaene, R. **3134, 3137, 3138, 3141-3143, 3213-3215, 3322-3324, 3407-3409, 3452, 3454, 3456, 3458, 3459, 3489-3492, 3506-3509, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493**

Van der Zande, T. **3066**

van Dijk, H.J. **3748**

Van Hassel, J.H. **3121, 3157, 3158, 3319-3321, 4265, 4326, 4327, 4422-4425, 4754, 4760, 4761, 4794-4797, 5258, 5295, 5296, 5432-5434**

Van Hoof, F. **3475-3479, 3622-3626, 4783-4787**

Van Kerkom, J. **3452, 3454, 3456, 3458, 3459, 3489-3492, 4200, 4207, 4209, 4482, 4485, 4487, 4489-4491, 4493**

Van Miller, J.P. **2696-2698**

Vandergraaff, R. **3644, 3652**

Varma, K.J. **5679**

Vasilikiotis, G. **3217, 3232, 3233, 4360, 4383, 4384, 4621, 4650, 4651**

Veit, H.P. **4328**

Venant, A. **3693, 3704, 3733, 3857**

Viswanathan, P.N. **3384, 3385**

Wade, K.R. **2659**

Wahlstrom, R.C. **5130, 5132**

Walker, W. **2940, 2941, 4019, 4020**

Waller, W.T. **5245-5247**

Walton, B.J. **2940, 2941, 4019, 4020**

Watanabe, E. **4805-4807, 5020**

Watanabe, I. **2663-2677, 2749, 2760, 2762, 2767, 2775, 2776, 2783, 2789, 2791, 2792, 2880, 2957, 2978, 3011, 3012, 3025, 3032, 3050, 3052, 3057, 3080, 3790, 3792, 3810-3812, 3834, 3836, 3841, 3847-3849, 3870, 4165, 4167-4172, 4174-4176, 4178**

Watanabe, N. **4805-4807, 5020**

Watanabe, T. **3712, 3721**

Watling, H.R. **3144, 3228, 3230, 3235, 3249, 3252, 3292-3299, 3314, 3460, 3468-3470, 3472, 3484, 3493, 3501-3505, 3534, 3596-3598, 3608, 3610, 3655, 3664, 4210, 4247, 4310, 4379, 4385, 4391, 4394, 4418, 4499, 4533, 4759, 4768, 4769, 4776, 4777, 4791, 5285, 5364-5366, 5377, 5379, 5411, 5420**

Watling, R.J. **3144, 3228, 3292-3299, 3314, 3460, 3484, 3493, 3505, 3534, 3596, 3655, 3664, 4210, 4247, 4310, 4418, 4499, 4533, 4759, 4791, 5285, 5364, 5411, 5420**

Weaver, G. **2876, 2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 2996, 3065, 3084, 3102**

Weaver, G.L.H. **5709, 5710**

Wedemeyer, G.A. **2720**

Wells, D.E. **4141-4146, 4966-5019**

Whaling, P.J. **4622**

Wheatly A. **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

Whitbeck, G.A. **5081, 5091**

White, D. **3651**

White, D.H. **2881, 2886, 2896, 2905, 2910, 2955, 2982-2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3813-3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3933-3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4039-4052, 4070, 4099, 4100, 4102, 4123-4139, 4859, 5207-5210, 5212, 5213,**

5215, 5216, 5218-5227, 5229-5232, 5484, 5494, 5513-5519, 5542, 5566, 5568-5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5617-5625, 5643, 5666, 5751, 5752, 5771, 5773, 5808

Wickstrom, K. **3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872**

Wiemeyer, S.N. **2755, 2934, 3179, 3805, 3927, 4003, 4014, 4329, 4598, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811**

Wilkinson, S.R. **4448**

Wilson, D. **5080**

Wilson, P.D. **4266**

Wilson, R.C. **3910, 4163, 5060**

Wilson, R.P. **5079**

Wilson, S.J. **3346**

Winger, P.V. **3665**

Winterlin, W. **5709, 5710**

Womac, C. **4275, 4278-4280, 4282, 4284, 4285, 4287, 4289, 4292, 4295, 4297-4299, 4301-4307, 4309**

Wren, C.D. **2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390**

Yamagishi, T. **5234-5239**

Yamato, Y. **3712, 3721**

Yasutake, W.T. **2720**

Yost, G.S. **5059, 5448, 5449**

Younger, R.L. **3523, 3524, 3527, 3530, 3533, 4202, 4204-4206, 4208, 4283, 4286, 4291, 4294, 4308, 4483, 4484, 4486, 4488, 4492, 5272, 5274, 5277, 5280, 5284**

Zahner, J.M. **5060**

Zaidi, S.H. **3514, 4199, 4267, 4550, 5263**

Zaidi, T.H. **4778-4780, 4792, 4793, 4798, 4799, 5248-5253**

Zaroogian, G.E. **3629, 3630, 4770, 4775**

Zeringue, L. **5080**

Zervas, G. **3521, 3643**

Zinkl, J.G **4838-4843, 4845-4858**

Zinkl, J.G. **4054-4057**

Zmudski, J. **4275, 4279, 4282, 4285, 4289, 4295, 4299, 4302, 4304, 4306, 4307**

Zmudzki, J. **4278, 4280, 4284, 4287, 4292, 4297, 4298, 4301, 4303, 4305, 4309**

Zotou, A. **3217, 3232, 3233, 4360, 4383, 4384, 4621, 4650, 4651**

Amphipod
Body **5065, 5452**

Arca
Muscle **4264**

Auk, Japanese
Feathers **4536**

Auk, little
Adipose **2747, 2877, 3970**
Liver **2748, 2878, 3971, 4537**

Barbel, steed
Muscle **4805**

Bass, black sea
Blood **3111, 4742**
Body **2879**
Brain **3112, 4743**
Gall bladder **3113, 4744**
Gills **3114, 4745**
Heart **3115, 4746**
Kidney **3116, 4747**
Liver **3117, 4748**
Muscle **3118, 4749**
Skin **3119, 4750**

Bass, Japan sea
Body **2663, 2672, 2749, 2880, 3790, 4165**

Bass, largemouth
Body **2881, 3120, 3918, 3972, 4123, 5207, 5586**

Bass, rock
Body **3121, 4265, 4754, 5258**
Muscle **3877**

Bass, smallmouth
Muscle **3878**

Bass, striped
Body **2882, 3879, 3898**
Heart **4538**
Liver **4539**
Muscle **4540**

Bass, white
Body **4541**
Heart **4542**
Liver **4543**
Muscle **4544**

Bat, big brown
Adipose **3973**

Bat, Eastern Pipistrelle
Adipose **3974**

Bat, gray
Body **5587**
Brain **5588, 5748, 5755**

Bat, grey-headed fruit
Kidney **4266**

Bat, little brown
Adipose **3975**
Body **5589**
Brain **5590**

Beaver
Intestine **2634, 3122, 3347, 3510, 4195, 4443, 4478, 4755, 4877, 5021, 5075, 5137, 5259**
Kidney **2635, 3123, 3348, 3511, 4196, 4444, 4479, 4756, 4878, 5022, 5076, 5138, 5260**
Liver **2636, 3124, 3349, 3512, 4197, 4445, 4480, 4757, 4879, 5023, 5077, 5139, 5261**
Muscle **2637, 3350, 3513, 4198, 4446, 4481, 4758, 4880, 5078, 5262**

Becune
Muscle **4545**

Blackbird, red-winged
Brain **2883, 3976**

Blackfish, Sacramento
Heart **4546**
Muscle **4547**

Bleak (fish)
Body **2884**

Bloater
Body, whole **4950**

Bluebird, western
Brain **4838, 4849**

Liver **4839, 4850**

Bluefish
Body **2885**

Bluegill
Body **2678, 2886, 3791, 3919, 3977, 4124, 5208**

Bonito
Muscle **4548**

Bourgeois
Muscle **4549**

Brant, American
Adipose **2887, 3978**
Brain **2888**
Liver **2889, 3979**
Muscle **2890**

Bream, sea
Body **3792**

Buffalo
Blood, serum **5679**

Buffalo, water
Lung **3514, 4199, 4267, 4550, 5263**

Bufflehead
Adipose **2891**
Bone **4268, 5264**
Kidney **3125, 3515, 4269, 5265**
Liver **2892, 3126, 3516, 3980, 5266**
Muscle **2893, 3981**

Bullfrog
Body **3793, 3982, 5209**

Bullhead
Body **3127, 4270**

Bullhead, brown
Liver **4551**
Muscle **3880, 4552**

Butterfish
Body **2894**

Buzzard
Bone **4147**

Caddisfly
Body **3128, 3517, 4271, 5267**

Canvasback
Bone **4272, 5268**
Kidney **3129, 3518, 4273, 5269**
Liver **3130, 3519, 5270**

Carangue balo
Muscle **4553**

Carp
Body **3881, 3899, 4554**
Heart **4555**
Liver **4556**
Muscle **2895, 4557**

Carp, common
Body, whole **4945, 4951**

Carp, deepbodied crucian
Muscle **4806**

Carp, silver
Body **5020**

Catfish, channel
Body **2896, 3794, 3920, 3983, 4125, 5210, 5591**
Heart **4558**
Liver **4559**
Muscle **3882, 4560, 5079**

Catfish, white
Heart **4561**
Liver **4562**
Muscle **4563**

Cattle
Adipose **2685, 2689, 3775, 3795, 3911, 3984, 4736, 5549, 5729, 5756, 5815**
Bile **3742, 3762**
Blood **2730, 3131, 3520, 3743, 3776, 4200, 4274-4278, 5080, 5081, 5271**
Blood, cells **5082**
Blood, plasma **3351, 3352, 3521, 4800, 4819, 4881, 5024, 5057, 5058, 5060, 5083, 5084, 5163, 5448, 5680, 5681, 5741**
Blood, serum **2628, 2629, 3353, 3522, 4184, 4188, 4201, 4447, 4448, 5051, 5085, 5086, 5162, 5682, 5683**

Blood, whole **4862, 5087, 5730, 5757**
Bone **4279, 4280, 4482**
Brain **2690, 3523, 3705, 3777, 4202, 4281-4284, 4483, 5272, 5731**
Caruncles **5684**
Hair **2683, 2699, 2731, 2736, 3110, 3397, 3398, 3451, 3488, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273**
Heart **3524, 3706, 3744, 3763, 3778, 4204, 4285-4287, 4484, 4737, 5274, 5732**
Intestine **3452**
Kidney **2691, 2700, 2732, 3132-3134, 3453, 3525-3527, 3707, 3745, 3764, 3779, 3912, 4205, 4288-4292, 4485, 4486, 4564, 4738, 4863, 5089, 5275-5277, 5685, 5686, 5733**
Liver **2686, 2692, 2701, 2733, 3135-3137, 3454, 3455, 3489, 3528-3530, 3708, 3746, 3765, 3780, 3913, 4206, 4293-4297, 4487, 4488, 4565, 4739, 4864, 5090, 5278-5280, 5687, 5688, 5734**
Lung **3747, 3766, 3781, 4298, 5689, 5690**
Milk **2661, 2687, 2693, 2750, 3138, 3354, 3401, 3402, 3415, 3456, 3490, 3709, 3748, 3782, 3796, 3985, 4189, 4207, 4489, 4930, 5052, 5091, 5164, 5174, 5175, 5233, 5281, 5550, 5592, 5735, 5742, 5743, 5758, 5816**
Muscle **2702, 2751, 3139-3141, 3457, 3491, 3531, 3532, 3749, 3767, 3783, 3914, 4299-4301, 4490, 4566, 4740, 5092, 5282, 5283, 5691, 5736**
Nerve **4302, 4303**
Ovary **3784, 5692, 5693, 5737**
Pancreas **3750, 4304, 4305**
Skin **4491**
Spinal cord **4306**
Spleen **3458, 3533, 3785, 4208, 4307-4309, 4492, 4741, 5284, 5694, 5738**
Thyroid gland **2688**
Tongue **3786, 5739**
Udder **3787**
Urine **2734, 3142, 3459, 3492, 3710, 3751, 3768, 3788, 4209, 4493, 5053, 5740**
Uterus **5695, 5696**

Cattle, Hereford
Blood, serum **4140**

Chamois
Liver **3403, 4931**

Char
Muscle **4957**

Chicken
Adipose **2897, 4820, 5460**
Blood **2744**
Blood, plasma **3915, 4494, 4882, 5054, 5093**
Body **3143**
Bone **4495**
Bone marrow **5461**
Brain **5462**
Eggs **2745, 5463**
Feathers **5709**
Gizzard **3737, 3752, 3757, 3769**
Heart **3738, 3758, 3770, 5464**
Intestine **5465**
Kidney **3739, 3753, 3759, 3771, 4496, 5466**
Liver **3404, 3740, 3754, 3760, 3772, 4497, 4821, 4928, 5467**
Lung **5468**
Muscle **3741, 3755, 3761, 3773, 4498, 5469**
Ovary **5470**
Skin **5471, 5710**
Spleen **5472**
Stomach **5473**

Chicken, white leghorn
Blood, plasma **3355**
Blood, serum **3449**
Body **5450, 5451**
Eggs **3450**
Eggshell gland **3356, 3986**

Chironomid
Body **2684, 2898**

Chub
Body **2899**

Clam
Body **2752, 2862, 3144, 3416, 3460, 3493, 3534, 3684, 3797, 3798, 4210, 4310, 4499, 4759, 4822, 4913, 4915, 5066, 5285, 5453, 5564, 5593, 5759**

Clam, Asiatic
Body, whole **2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823**

Clam, freshwater Asiatic
Body **3536**

Clam, hard-shell
Body **2704, 2901, 3146, 3418, 3462, 3537, 3711, 3922, 3988, 4311, 4568, 5287, 5595**

Clam, papershell
Body **2679**

Clam, short-necked
Body **3712, 5234**

Clam, soft-shell
Body **2705, 2902, 3147, 3419, 3463, 3538, 3713, 3923, 3989, 4312, 4569, 5288, 5596**
Muscle **3148, 3539, 4211, 4501, 4570, 5289**

Clam, thin-shelled surf
Body **5235**

Cockle
Muscle **3149, 3540, 4212, 4502, 4571, 5290**

Cod
Body **2903**
Liver **2753, 2819, 2827, 2834, 4958**
Muscle **2754**

Cod, pacific
Muscle **2638, 2737, 3357, 3464, 3541, 4213, 4436, 4449, 4503, 4572, 4883, 5026, 5141, 5166, 5291**

Coelenterate
Body **3150**

Coot, American
Adipose **2904**
Body **2905, 3714, 3800, 3924, 3990, 4126, 5212, 5566, 5597**
Liver **2906**
Muscle **2907**

Copepod
Body **3151**

Cormorant, cape
Eggs **2908, 3991**

Cormorant, Temminck's
Feathers **4573**

Cormorant, white-breasted
Eggs **2909, 3992, 5598**

Cottonmouth
Body **2910, 3715, 3801, 3925, 3993, 4127, 5213, 5484, 5599**

Cowbird, brown-headed
Brain **2911, 3994**

Crab
Body **2863, 3802, 5600, 5761**
Exoskeleton **3903**
Gills **3904**
Hepatopancreas **3905**
Muscle **3906**
Testis **3907**

Crab, blue
Body **2706, 2912, 3152, 3420, 3465, 3542, 3716, 3926, 3995, 4313, 4574, 5292, 5601**

Crab, Dungeness
Hepatopancreas **3153, 3543, 4214, 4504, 4575, 5293**
Muscle **3154, 3544, 4215, 4505, 4576, 5294**

Crab, Mediterranean shore
Body **2913**

Crappie, white
Heart **4577**
Liver **4578**
Muscle **4579**

Crayfish
Abdomen **4580**
Body **3996, 4314, 5067, 5454**
Body, whole **3155, 4315**

Digestive tract **4316**
Exoskeleton **3545, 4317, 4318, 4581**
Exuvia **4319**
Gills **4320**
Green gland **4321**
Hepatopancreas **4322**
Muscle **3546, 4323, 4324, 4582**
Organs **3156, 3547, 4325**

Croaker, white
Muscle **2914, 3803**

Cunner
Body **2915**

Curlew, Indian
Feathers **4583**

Cuttlefish
Muscle **2916**

Dab
Muscle **2707**

Dace, blacknose
Body **3157, 4326, 4760, 5295**

Dace, Japanese
Muscle **4807**

Darter, fantail
Body **3158, 4327, 4761, 5296**

Deer, mule
Bone **5167**
Liver **3399**
Muscle **3405**
Rumen **3400**

Deer, roe
Liver **3406, 4932**

Deer, white-tailed
Blood, plasma **3358**

Diver, pacific
Feathers **4584**

Dogfish
Body **2917**
Liver **3548, 4506, 5297**

Dolphin, striped
Adipose **2918, 3804, 4166, 4585, 4716, 5094**
Blood **3159, 4586, 5095, 5298**
Blubber **3160, 5299**
Bone **3161, 5300**
Brain **3162, 4587, 4717, 5096, 5301**
Diaphragm **3163, 4588, 4718, 5097, 5302**
Heart **3164, 4589, 4719, 5098, 5303**
Intestine **3165, 4590, 4720, 5099, 5304**
Kidney **3166, 4591, 4721, 5100, 5305**
Liver **3167, 4592, 4722, 5101, 5306**
Lung **3168, 4593, 4723, 5102, 5307**
Mammary gland **3169, 5308**
Milk **3170, 5309**
Muscle **3171, 4594, 4724, 5103, 5310**
Ovary **3172, 5311**
Pancreas **3173, 4595, 4725, 5104, 5312**
Placenta **3174, 5313**
Skin **3175, 5314**
Spleen **3176, 4596, 4726, 5105, 5315**
Stomach **3177, 4597, 4727, 5106, 5316**
Testis **3178, 5317**

Dove, mourning
Adipose **2919, 3997, 5602, 5762**
Brain **5603, 5763**
Heart **3998, 5604, 5764**
Liver **3999, 5605, 5765**
Muscle **4000, 5606, 5766**

Dove, ringed turtle
Testis **4328**

Duck
Eggshell gland **4001**

Duck, black
Adipose **2920, 3900, 4002, 5485**
Blood, whole **3179, 4003, 4329, 4598**
Bone **4330, 4331, 5318**
Brain **2921, 4004, 5486**
Kidney **3180, 3549, 4332, 5319**
Liver **2922, 3181, 3550, 4005, 4333, 5320, 5487**
Muscle **2923, 4006, 5488**

Duck, long-tailed
Feathers **3182, 3494, 3551, 4216, 4334, 4507, 4762, 5321**
Heart **3183, 3495, 3552, 4217, 4335, 4508, 4763, 5201, 5241, 5322**

Liver **3184, 3496, 3553, 4218, 4336, 4509, 4764, 5202, 5242, 5323**
Muscle **3185, 3497, 3554, 4219, 4337, 4510, 4765, 5203, 5243, 5324**
Stomach **3186, 3498, 3555, 4220, 4338, 4511, 4766, 5204, 5244, 5325**

Duck, mallard
Adipose **2924, 3901, 4007**
Blood, plasma **3359**
Bone **3187, 3506, 3556, 4339-4341, 5326, 5327**
Brain **2925, 3507, 5489**
Eggshell gland **3360**
Feathers **4599**
Kidney **3188-3190, 3508, 3557-3559, 4342, 4343, 5328-5330**
Liver **2926, 3191-3193, 3407, 3509, 3560-3562, 4008, 4344, 4345, 5331-5333, 5490**
Lung **3408**
Muscle **2927, 3409, 4009**

Duck, mallard/black hybrid
Brain **2928**
Muscle **2929**

Duck, mandarin
Feathers **4600**

Duck, ring-necked
Bone **4346, 5334**
Kidney **3194, 3563, 4347, 5335**
Liver **3195, 3564, 5336**

Duck, ruddy
Bone **4348, 5337**
Kidney **3196, 3565, 4349, 5338**
Liver **3197, 3566, 5339**

Duck, tufted
Muscle **4601**

Duck, white Pekin
Adipose **2930, 4010**
Brain **2931, 4011, 5491**
Liver **2932, 4012, 5492**
Muscle **2933, 4013**

Duck, wood
Adipose **3902, 4602**
Liver **3198, 3567, 4603, 5340**
Muscle **4604**

Eagle, bald
Eggs **2755, 2934, 3805, 3927, 4014, 4605, 5214, 5493, 5543, 5567, 5607, 5744, 5749, 5767, 5806, 5811**

Eagle, booted
Eggs **2935, 3199, 3568, 3685, 3717, 3928, 3961, 4015, 4350, 4606, 5341, 5551, 5608, 5768**

Eagle, golden
Blood, serum **4160**

Eagle, imperial
Eggs **2936, 3200, 3569, 3686, 3718, 3929, 3962, 4016, 4351, 4607, 5342, 5552, 5609, 5769, 5817**

Eagle, sea
Muscle **4959**

Eagle, Steller's sea
Feathers **4608**

Eagle, white-tailed
Body **5186**

Earthworm
Body **3201, 3202, 3570, 4352, 5343**
Body, whole **2708, 3203, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5344**

Earthworm, aquatic
Body **5068, 5455**

Eel
Blood **4354**
Gills **3204, 3572, 5345**
Liver **3205, 3573, 4355**
Muscle **2937, 3206, 3574, 4356**

Eel, American
Body **2938**

Eider
Adipose **2756, 2939, 4017**
Liver **2757, 4018, 4610**

Falcon, peregrine
Eggs **2940, 4019**

Shell membrane **2941, 4020**

Ferret, European
Blood **2942**
Body **2943**
Urine **2944**

Finfish
Body **3207**

Fish
Body **2735, 2815, 2821, 2824, 2829, 2832**
Body, whole **3806**
Bone **4909**
Gastrointestinal tract **4910**
Muscle **2813, 2864, 3208, 3575, 3807, 4357, 4430, 5346, 5610**
Skin **4911**
Urine **4912**

Flounder
Muscle **2709, 2865, 3808, 5770**

Flounder, fourspot
Body **2945**

Flounder, summer
Body **2946**

Flounder, windowpane
Liver **2947, 3209, 3576, 5136**

Flounder, winter
Body **2948**

Frog, bronze
Body **4021**

Frog, leopard
Body **3210**

Frog, southern leopard
Body **4022, 5215**

Fulmar
Adipose **2758, 2949, 4023**
Liver **2759, 2950, 4024, 4611**

Gadwall
Adipose **2951**
Bone **4358, 5347**
Brain **2952**
Kidney **3211, 3577, 4359, 5348**
Liver **3212, 3578, 5349**
Muscle **2953**

Gannet, cape
Eggs **2954, 4025, 5611**

Gar, spotted
Body **2955, 3809, 3930, 4026, 4128, 5216, 5494, 5568, 5612, 5771**

Goat
Bile **5711**
Blood **2710, 4860, 4865**
Blood, plasma **2711, 5254, 5712**
Blood, whole **5495**
Fat **5713**
Intestine **5714**
Kidney **3213, 5715**
Liver **3214, 5716**
Milk **2712, 2713, 5255, 5256, 5496, 5717**
Muscle **5718**
Udder **5719**
Urine **2630, 2714, 2715, 3215, 4861, 5497, 5720**

Goatfish, gold band
Body **2956**

Goby
Body **2664, 2673, 2760, 2957, 3810, 4167, 5236**

Goldeneye
Adipose **2958**
Brain **2959**
Liver **2960, 5498**

Goldenorfe ide
Body **4816**

Goldeye
Adipose **2761, 2961, 3421, 3687, 3931, 3968, 4027, 5613**

Goldfish
Bile **4141, 5499**
Body **3216, 3883, 4817**
Body, whole **5500**
Brain **5501**

Gills **4142, 5502**
Gut **4143**
Heart **5503**
Intestine **5504**
Kidney **5505**
Liver **4144, 5506**
Muscle **3884, 4145**
Ovary **5507**
Pancreas **5508**
Skin **4146**
Spinal cord **5509**
Spleen **5510**
Testis **5511**

Goose, Canada
Liver **2962**
Muscle **2963**

Grackle
Body **2964**
Brain **2965**

Grackle, common
Body **4028**
Brain **4029**

Grackle, great-tailed
Gut **4859**

Grebe, black-necked
Feathers **4612**

Grebe, eared
Adipose **2966, 4030**
Brain **2967, 4031**
Liver **2968**
Muscle **2969, 4032**

Grebe, great crested
Bone **4148**

Grunt
Body **2762, 3811**

Gudgeon
Brain **2866, 3719**
Liver **2867, 3720**
Muscle **2868**

Gudgeon, topmouth
Body **5237**

Guillemot, Brunnich's
Liver **2763, 2970, 4033, 4613**

Gull
Adipose **2971**
Liver **2972**

Gull, Asiatic common
Feathers **4614**

Gull, black-headed
Adipose **5187**
Liver **5188**
Muscle **5189**

Gull, California
Eggs **4615**
Liver **4616**
Muscle **4617**

Gull, glaucous
Adipose **2764, 2973, 4034**
Liver **2765, 2974, 4035, 4618**

Gull, gluacous
Adipose **2766**

Gull, grey-headed
Eggs **2975, 4036, 5614**

Gull, herring
Adipose **5190**
Body, whole **4946, 4952**
Eggs **2976, 5191**

Gull, kelp
Eggs **2977, 4037, 5615**

Gull, slaty-backed
Feathers **4619**

Guppy
Body **3721**

Gyrfalcon
Feathers **4620**

Hairtail
Body **2665, 2669, 2767, 2978, 3812, 4168**

Hake
Muscle **3217, 4360, 4621**

Hake, blue
Muscle **4622**

Hake, red
Body **2979**

Hake, silver
Body **2980**

Hawk, Asiatic sparrow
Feathers **4623**

Hawk, red-tailed
Blood, serum **4161**

Hawk, sparrow
Bone **4149**
Liver **5192**

Heron
Liver **5193**

Heron, black-crowned night
Eggs **2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812**

Heron, eastern reef
Feathers **4624**

Heron, green-backed
Adipose **2982, 3813, 3933, 4039, 4129, 5218, 5513, 5569, 5617**
Body **2983, 2984, 3722, 3814, 3815, 3934, 3935, 4040, 4041, 4130, 4131, 5219, 5220, 5514, 5515, 5570, 5571, 5618, 5619, 5751, 5773, 5808**
Brain **3936, 4042, 5221**
Liver **2985, 3937, 4043, 4132, 5222**
Muscle **2986, 3938, 4044, 4133, 5223**

Heron, grey
Bone **4150**

Heron, little blue
Body **2987, 2988, 3723, 3816, 3817, 3939, 3940, 4045, 4046, 4134, 4135, 5224, 5225, 5516, 5517, 5572, 5573, 5620, 5621, 5752**

Heron, night
Feathers **4625**

Heron, yellow-crowned night
Adipose **4047, 5622**
Body **2989, 2990, 3818, 3819, 3941, 3942, 4048, 4049, 5226, 5227, 5518, 5519, 5623, 5624**
Brain **4050**
Liver **4051, 5625**
Muscle **4052**

Herring
Body **2991**
Muscle **4361, 4431**

Hobby
Eggs **2992, 3218, 3579, 3688, 3724, 3964, 4053, 4362, 4626, 5350, 5553, 5774, 5818**

Honeybee
Body **2716, 3466, 3580, 4823, 5205**

Horse
Blood, plasma **3581, 5351**
Blood, serum **3582, 4733**
Blood, whole **5775**
Kidney **3583, 4363, 5352**
Liver **3584, 4364, 5353**
Urine **4734**

Job
Muscle **4627**

Junco, grey-headed
Brain **4840, 4851**
Liver **4841, 4852**

Kestrel
Blood **4365**
Bone **4151, 4152**
Liver **4366**

Kestrel, American
Adipose **4054**
Blood **4055, 4367**
Body **4056**
Bone **4368, 4369**
Brain **4057, 4370**
Kidney **4371**
Liver **4372, 4373**
Muscle **4374**
Shell **4375**

Kestrel, European
Liver **5194**

Killifish
Body **2769, 3108, 4824, 4837**

Kingfish
Muscle **4628**

Kingfisher
Bone **4153**
Liver **5195**

Kite, black
Eggs **2860, 2993, 3219, 3585, 3689, 3725, 3943, 3965, 4058, 4376, 4629, 5354, 5554, 5626, 5776**

Kite, black-eared
Feathers **4630**

Kite, red
Eggs **2861, 2994, 3220, 3586, 3690, 3726, 3944, 3966, 4059, 4377, 4631, 5355, 5555, 5627, 5777, 5819**

Koala
Blood, plasma **3587**
Liver **3500, 3588, 4513, 5356**

Lamprey
Muscle **4960**

Limpet
Body **2995, 3221**

Lizard, water
Kidney **3222, 3361, 3589, 4222, 4450, 4884, 5357**
Liver **3223, 3362, 3590, 4223, 4451, 4885, 5358**

Lobster, Atlantic
Body **2996**

Loon, common
Adipose **2770, 2997, 3422, 3820, 4632, 5520, 5628, 5778**
Blood **2998, 3821, 4633**
Body **4634**
Brain **2771, 2999, 3423, 3822, 4635, 5521, 5629, 5779**
Embryos **2772, 3000, 3424, 3823, 3945, 4060, 4636, 5522, 5630, 5780**
Feathers **3001, 3824, 4637, 5631**
Gizzard **3002, 3825, 4638, 5632**
Heart **3003, 3826, 4639, 5633**
Intestine **3004, 3827, 4640, 5634**
Kidney **3005, 3828, 4641, 5635**
Liver **2773, 3006, 3829, 4642, 5636, 5781**
Lung **3007, 3830, 4643, 5637**
Muscle **2774, 3008, 3425, 3831, 4644, 5523, 5638, 5782**
Uropygial gland **3009, 3832, 4645, 5639**
Uropygial oil **3010, 3833, 5640**

Mackerel
Body **2775, 3011, 3834, 4169**
Muscle **2869, 3835, 4646, 5556, 5574, 5641**

Mackerel, Atka
Muscle **2639, 2738, 3363, 3467, 3591, 4224, 4437, 4452, 4514, 4647, 4886, 5027, 5142, 5168, 5359**

Mackerel, horse
Body **2674, 2776, 3012, 3836, 4170**

Mayfly
Body **3224, 3592, 4378, 5069, 5360, 5456**

Merganser, American
Adipose **3013, 4061, 5524**
Brain **3014, 4062, 5525**
Liver **3015, 4063, 5526**
Muscle **3016, 4064, 5527**

Merganser, hooded
Adipose **3017, 4065, 5528**
Liver **3018, 4066, 5529**
Muscle **3019, 4067, 5530**

Merganser, red-breasted
Adipose **3020, 5531**
Brain **3021, 5532**
Eggs **2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813**
Liver **3023, 4069, 5534**
Muscle **3024, 5535**

Merlin
Bone **4154**

Midge
Larvae **3727**

Mink
Adipose **2778**
Brain **2779**
Kidney **2780**
Liver **2781**
Muscle **2782**

Minnow, fathead
Body **5056**
Body, whole **3225, 3593, 5361**
Gills **3226, 3594, 5362**
Organs **3227, 3595, 5363**

Minnow, sheepshead
Body **4914**
Body, whole **2836, 2837, 3789**

Mollusc sp.
Body **3228, 3596, 5364**

Mollusk
Body **3229, 3230, 3468, 3501, 3597, 4379, 4768, 5365**

Mollusk, cephalopod
Body **3231**

Monkey, rhesus
Blood, serum **2696**
Milk **2697**
Skin **2698**

Mosquitofish
Body **2838, 3838, 3947, 4070, 4136, 4649, 5229, 5643**

Mouse, deer
Bone **4380**
Kidney **4381**
Liver **4382**

Mouse, house
Body **2839**

Mullet
Body **2666, 2670, 2675, 2783, 3025, 4171**
Muscle **3026, 3232, 4383, 4650**

Mullet, golden gray
Body **3027**

Mullet, red
Body **3028**

Mullet, striped
Body **3029**
Muscle **2870, 3839, 5557, 5576, 5644, 5784**

Mullet, white
Muscle **2871, 3840, 5577, 5645, 5785**

Murex
Body **3030**

Mussel
Body **2667, 2676, 2817, 2822, 2825, 2830, 3031, 3032, 3233-3235, 3469, 3502, 3598, 3841, 4172, 4384, 4385, 4651, 4769, 5366**
Gills **3236**
Hepatopancreas **3237**
Kidney **3238**
Mantle **3239**

Mussel, blue
Body **3033, 5238**

Mussels
Body **4770**

Myctophid
Body **3034, 3842, 4173**
Body, whole **3240, 5367**

Nudibranch
Body **3035**

Nuthatch, pygmy
Brain **4842, 4853**
Liver **4843, 4854**

Oldsquaw
Bone **4386, 5368**
Kidney **3241, 3599, 4387**
Liver **3242, 3600, 5369**

Otter
Intestine **2640, 3243, 3364, 3601, 4225, 4453, 4515, 4771, 4887, 5028, 5107, 5143, 5370**
Kidney **2641, 3244, 3365, 3602, 4226, 4454, 4516, 4772, 4888, 5029, 5108, 5144, 5371**
Liver **2642, 3366, 3603, 4227, 4455, 4517, 4773, 4889, 5030, 5109, 5145, 5372**
Muscle **2643, 3367, 3604, 4228, 4456, 4518, 4774, 4890, 5110, 5373**

Otter, river
Bone **3245, 3605, 4388, 5374**
Kidney **3246, 3606, 4389, 5375**
Liver **3247, 3607, 4390, 5376**

Owl, barn
Body **4071, 5646, 5728**
Bone **4155**
Eggs **4072, 5647**
Liver **5196**

Owl, great horned
Blood, serum **4162**

Owl, little
Bone **4156**

Owl, long-eared
Bone **4157**
Liver **5197**

Owl, short-eared
Bone **4158**

Owl, tawny
Bone **4159**

Oyster
Body **3248-3250, 3470, 3503, 3608, 4391, 4751, 4775, 4776, 5239, 5377**
Muscle **4392**

Oyster, American
Body **2717, 3036, 3251, 3426, 3471, 3609, 3728, 3948, 4073, 4393, 4652, 4825, 4916, 5378, 5648**
Gills **4826, 4917**
Mantle **4827, 4918**
Muscle **4828, 4919**

Oyster, Pacific
Body **3252, 3472, 3504, 3610, 4394, 4777, 5379**

Oystercatcher, African black
Eggs **3037, 4074, 5649**

Penguin, jackass
Eggs **3038, 3843, 4075**

Perch
Gills **3253, 3611, 5380**
Liver **2718, 3254-3256, 3612, 3613, 4395, 5381, 5382**
Muscle **2719, 3257, 3614, 4653**

Perch, white
Muscle **3885**

Perch, yellow
Body **4654**
Body, whole **4947, 4953**
Heart **4655**
Liver **4656**
Muscle **4657**

Periwinkle
Body **3258**

Pheasant
Liver **5721**
Muscle **5722**

Pheasant, green
Feathers **4658**

Phytoplankton
Body **3259**

Pike
Liver **3039, 3427, 3844, 4961**
Muscle **3040, 3428, 3845, 4659, 4660, 4962**

Pike, northern
Adipose **2784, 2842, 3041, 3429, 3691, 3949, 4076, 4966, 4993, 5650**
Bile **2843, 4967, 4968, 4994, 4995**
Blood **4969, 4970, 4996, 4997**
Body **2844, 4661, 5111**
Brain **2845, 4971, 4972, 4998, 4999**
Esophagus **4973, 4974, 5000, 5001**

Eye **2846, 4975, 4976, 5002, 5003**
Gall bladder **2847**
Gas bladder **2848**
Gills **2849, 4977, 4978, 5004, 5005**
Gonads **2850**
Heart **2851**
Intestine **2852, 4979, 4980, 5006, 5007**
Kidney **2853, 4981, 4982, 5008, 5009**
Liver **2854, 4662, 4983, 4984, 5010, 5011, 5112**
Muscle **2855, 3886, 4985, 4986, 5012, 5013**
Scales **2856**
Skin **2857, 4987, 4988, 5014, 5015**
Spleen **2858, 4989, 4990, 5016, 5017**
Stomach **2859, 4991, 4992, 5018, 5019**

Pike, walleye
Muscle **3887**

Pilchaid
Muscle **3042**

Pilchard
Muscle **4663**

Pintail
Bone **4396, 5383**
Kidney **3260, 3615, 4397, 5384**
Liver **3261, 3616, 5385**

Platte vielle
Muscle **4664**

Plover
Muscle **4665**

Pollock, walleye
Muscle **2644, 2739, 3368, 3473, 3617, 4229, 4438, 4457, 4519, 4666, 4891, 5031, 5146, 5169, 5386**

Pomfret
Muscle **2645, 2740, 3369, 3474, 3618, 4230, 4439, 4458, 4520, 4667, 4892, 5032, 5147, 5170, 5387**

Pomfret, black
Muscle **4398**

Prawn
Muscle **4399, 4432**

Ptarmigan, willow
Muscle **4668**

Puffin
Brain **2785, 3043, 3430, 3729, 4077**
Eggs **2786, 3044, 3701, 3730, 4078**
Liver **2787, 3045, 3431, 3702, 3731, 4079**
Uropygial gland **2788, 3046, 3432, 3703, 3732, 4080, 5558, 5651**

Pumpkinseed
Muscle **3888**

Quail, Japanese
Egg, yolk **5062**
Kidney **3262**
Liver **3263, 5063**
Muscle **3264**

Queenfish
Gastrointestinal tract **4778, 5248**
Liver **4779, 5249**
Muscle **4780, 5250**

Rabbit, wild
Body, whole **4933**

Raccoon
Kidney **2646, 3265, 3370, 3619, 4231, 4459, 4521, 4781, 4893, 5033, 5113, 5148, 5388**
Liver **2647, 3266, 3371, 3620, 4232, 4460, 4522, 4894, 5034, 5114, 5149, 5389**
Muscle **2648, 3372, 3621, 4233, 4461, 4523, 4782, 4895, 5115, 5390**

Rail, eastern water
Feathers **4669**

Roach
Gills **3475, 3622, 4783**
Kidney **3476, 3623, 4784**
Liver **3477, 3624, 4785**
Muscle **3047, 3433, 3478, 3625, 3846, 4670, 4786**
Opercle **3479, 3626, 4787**

Robin
Brain **3048, 4081, 5559, 5652, 5786, 5820**

Heart **3049, 4082, 5653, 5787**
Liver **4083, 5654, 5788**
Muscle **4084, 5655, 5789, 5821**

Ruff
Muscle **4671**

Sailfish
Muscle **4672**

Salmon
Gills **5391**
Liver **3627, 5392**
Muscle **3628, 4673, 4963, 5393**

Salmon, Chinook
Muscle **3889**

Salmon, Coho
Body **2720**
Muscle **3890**

Sandpiper
Muscle **4674**

Sandworm
Body **5727**

Sardine
Body **2668, 2671, 2677, 2789, 3050, 3847, 4174**
Muscle **4675**

Sauger
Adipose **2790, 3051, 3434, 3692, 3950, 4085, 5656**

Saury, Pacific
Body **2791, 3052, 3848, 4175**

Scallop
Body **3267**

Scallop, bay
Intestine **3629**
Muscle **3630**

Scaup, greater
Adipose **3053, 4086, 5536**
Bone **4400, 5394**
Brain **3054, 4087, 5537**
Kidney **3268, 3631, 4401, 5395**
Liver **3055, 3269, 3632, 4088, 5396, 5538**
Muscle **3056, 4089, 5539**

Scaup, lesser
Bone **4402, 5397**
Kidney **3270, 3633, 4403, 5398**
Liver **3271, 3634, 5399**

Scorpionfish
Body **2792, 3057, 3849, 4176**

Scoter, surf
Adipose **3058**
Liver **3059**
Muscle **3060**

Scoter, white-winged
Adipose **3061, 4090**
Bone **4404**
Brain **3062**
Kidney **3272, 3635, 4405, 5400**
Liver **3063, 3273, 3636, 4091, 5401, 5540**
Muscle **3064, 4092, 5541**

Sculpin, mottled
Body **5070, 5457**

Scup
Body **3065**

Seal
Adipose **4964**

Seal, gray
Adipose **4965**
Body **5198**

Seal, harbour
Adipose **3066**

Seal, harp
Adipose **2793, 3067, 3435, 3850, 4093, 5657, 5790**
Blood **3068, 3274, 3637, 3851, 4094, 4406, 4676, 5116**
Brain **2794, 3069, 3275, 3436, 3638, 3852, 4095, 4407, 4677, 5117, 5658, 5791**
Kidney **2795, 3070, 3276, 3437, 3639, 3853, 4096, 4408, 4678, 5118, 5659, 5792**

Liver **2796, 3071, 3277, 3438, 3640, 3854, 4097, 4409, 4679, 5119, 5660, 5793**
Muscle **2797, 3072, 3278, 3439, 3641, 3855, 4098, 4410, 4680, 5120, 5661, 5794**

Seal, Weddell
Adipose **3073, 3440, 3856, 5747, 5754, 5810, 5814**

Shad, American
Muscle **2649, 2741, 3373, 3480, 3642, 4234, 4440, 4462, 4524, 4681, 4896, 5035, 5150, 5171, 5402**

Shad, threadfin
Body **3074, 3951, 4099, 4137, 5230, 5578**

Shag, pelagic
Feathers **4682**

Shark
Muscle **4683**

Shark, tiger
Muscle **4684**

Sheep
Adipose **3693, 3704, 3733, 3857, 5176**
Blood **2721, 5121**
Blood, plasma **3346, 3374, 3392, 3643, 3644, 3910, 4463, 4730, 4801, 5036, 5059, 5135, 5257, 5449, 5824**
Blood, serum **3375, 4163, 4235, 4464, 4897, 5037, 5151**
Blood, whole **5177**
Bone **3279, 3481, 3645, 4236, 4411, 4685, 4788, 5403**
Brain **5178**
Heart **5179**
Kidney **2798, 3280-3282, 3410, 3482, 3646, 3647, 4237, 4412, 4413, 4433, 4686, 4789, 4942, 5038, 5180, 5404, 5405**
Liver **3283-3285, 3411, 3412, 3483, 3648-3653, 4238, 4414, 4415, 4434, 4687, 4732, 4790, 4934, 4943, 5039, 5181, 5406-5408**
Milk **2722, 4190**
Muscle **2799, 3286, 3287, 3413, 4416, 5040, 5182**
Pancreas **5409**
Spleen **5183**
Testis **3288**
Thyroid gland **4191**
Tongue **5184**
Urine **2723, 3654, 4802, 5185, 5410**

Sheep, Finn-Dorset
Kidney **3289**
Liver **3290**
Muscle **3291**

Sheep, Iranian fat-tailed
Blood, plasma **2724**
Milk **2725**
Urine **2726**

Shell, wedge
Body **3292, 3655, 5411**
Digestive gland **3293**
Foot **3294**
Gills **3295**
Gonads **3296**
Mantle **3297**
Muscle **3298**
Syphon **3299**

Shiner, blacktail
Body **3075, 3952, 4100, 4138, 5579**

Shiner, blacktailed
Body **5231**

Shiner, golden
Body **2840**

Shrew sp.
Adipose **3858**
Body, whole **3859**
Milk **3860**

Shrew, common
Body **3300**
Bone **3301**
Heart **3302**
Kidney **3303**
Liver **3304**
Muscle **3305**

Shrew, short-tailed
Body, whole **3861**
Stomach **3862**

Urine **3863**

Shrimp
Body **3076**
Muscle **2727, 4417, 4435**

Shrimp, blue
Body **2872, 3864, 5580, 5662, 5795**

Shrimp, deep-water pink
Body **3077**

Shrimp, rock
Body **2873, 3865, 5663, 5796**

Shrimp, white
Body **2874, 3866, 5560, 5581, 5664, 5797**

Silkworm
Alimentary canal **2650, 3306, 3376, 3656, 4239, 4465, 4525, 4898, 5041, 5154, 5412**
Fat body **2651, 3307, 3377, 3657, 4240, 4466, 4526, 4899, 5042, 5155, 5413**
Gonads **2652, 3308, 3378, 3658, 4241, 4467, 4527, 4900, 5043, 5156, 5414**
Head **2653, 3309, 3379, 3659, 4242, 4468, 4528, 4901, 5044, 5157, 5415**
Integument **2654, 3310, 3380, 3660, 4243, 4469, 4529, 4902, 5045, 5158, 5416**
Malpighian tubes **2655, 3311, 3381, 3661, 4244, 4470, 4530, 4903, 5046, 5159, 5417**
Silk gland **2656, 3312, 3382, 3662, 4245, 4471, 4531, 4904, 5047, 5160, 5418**
Trachea **2657, 3313, 3383, 3663, 4246, 4472, 4532, 4905, 5048, 5161, 5419**

Snail
Body **3314, 3384, 3484, 3505, 3664, 4247, 4418, 4533, 4791, 5071, 5420**
Shell **3385**

Snail (Hydrophobia)
Body **5458**

Snail (Physa)
Body **5459**

Snail, apple
Body **3665**

Snail, aquatic
Body **4419**
Shell **4420**

Snail, saltwater
Body **3315, 3485, 3666, 4248, 5421**

Snake
Adipose **3891**
Eggs **3892**

Snake, ribbon
Body **2841**

Snake, water
Adipose **3734, 3867, 4101, 5561, 5582, 5665, 5798**
Adipose tissue **2800**
Body **3078, 3735, 3868, 3953, 4102, 4139, 5232, 5542, 5583, 5666**
Liver **2801, 3954, 4103, 5562, 5584, 5667, 5799**
Muscle **2802, 4104, 5563, 5668, 5800**

Snakes, sea
Liver **4792, 5251**
Muscle **4793, 5252**

Sole
Muscle **2728**

Sole, Dover
Muscle **2658, 2742, 3386, 3486, 3667, 4249, 4441, 4473, 4534, 4688, 4906, 5049, 5152, 5172, 5422**

Sole, English
Bile **2680, 2682, 4182, 4183, 4731, 4753, 4814, 4815, 5825**

Sole, lemon
Muscle **2729**

Squid
Body **3079, 3080, 3869, 3870, 4177, 4178**
Liver **3316, 5423**
Muscle **3317, 5424**

Starling
Bone **4689, 5425**
Brain **3081, 4105**
Gut **4690, 5426**
Kidney **4691, 5427**
Liver **4692, 5428**
Muscle **4693, 5429**
Pancreas **5430**

Stonefly
Body **3318, 3668, 4421, 5072, 5431**

Sucker
Muscle **3893**

Sucker, longnose
Adipose **2803, 3082, 3441, 3694, 3955, 4106, 5669**

Sucker, northern hog
Body **3319, 4422, 4794, 5432**

Sucker, Tahoe
Muscle **4694**

Sucker, white
Adipose **2804, 3083, 3442, 3695, 3956, 4107, 5670**
Body **3320, 3894, 4423, 4795, 5433**
Bone **4424, 4796**

Sunfish, green
Liver **5122**
Muscle **5123**

Sunfish, redbreast
Body **3321, 4425, 4797, 5434**

Sunfish, redear
Hepatopancreas **5124**
Kidney **5125**
Liver **5126**
Ovary **5127**
Pancreas **5128**
Testis **5129**

Swan, mute
Blood **4426**
Thyroid gland **4192, 4194**

Swine
Adrenal gland **5697**
Bile **4185, 5544, 5698**
Blood **3683, 3916, 5055, 5061, 5130, 5822**
Blood, plasma **2662, 3393, 3669, 4186, 4250, 4251, 4259, 5435, 5545**
Blood, serum **3448, 5131, 5699, 5826**
Bone **4252**
Fetus **4729, 5723**
Hair **5132**
Heart **5700**
Intestine **3394, 4260**
Kidney **3322, 3670, 4253, 5701**
Liver **3323, 3671, 4254, 4255, 4735, 4929, 4935, 5546, 5702**
Lung **5703**
Lymph node **5704**
Milk **3387, 3672, 3673, 4256, 4474, 4907, 5436, 5437**
Muscle **2805, 2816, 3324, 3674, 4257, 5705**
Spleen **5706**
Stomach **3395, 4261**
Thyroid Gland **5707**
Urine **2681, 3396, 4187, 4262, 5708**

Tautog
Body **3084**

Teal, blue-winged
Adipose **3085**
Liver **3086**
Muscle **3087**

Teal, common
Muscle **4695**

Teal, green-winged
Adipose **3088, 4108**
Brain **3089**
Liver **3325, 3675, 5438**
Muscle **3090**

Tench
Gills **3326, 3676, 5439**
Liver **3327, 3677, 5440**
Muscle **3328, 3678, 5441**

Tern, roseate
Eggs **3091, 4109**

Thrush
Muscle **4696**

Thrush, dusky
Feathers **4697**

Thrush, red-bellied rock
Feathers **4698**

Tilapia
Muscle **2875, 3736, 3871, 3957, 3960, 3967, 4110, 5585**

Trout, brook
Adipose **4867**
Bile **5474**
Blood **5475**
Body **5476**
Body, whole **4954, 5245**
Intestine **4868**
Liver **2633**
Muscle **4869, 5246**
Ovary **4870**
Skin **5247**
Urine **5477**
Viscera **4871**

Trout, brown
Adipose **3092, 3443, 3696, 4111**
Body, whole **4948**
Gills **2659, 3679**
Liver **3329**
Muscle **3330, 3895**

Trout, lake
Adipose **4872**
Body **3896**
Body, whole **4949, 4955**
Intestine **4873**
Liver **4874**
Muscle **4875**
Ovary **4876**

Trout, rainbow
Adipose **4829, 4920**
Bile **2631, 4937-4941, 5478**
Blood **4699, 5479**
Blood, plasma **3388**
Blood, whole **4427**
Body **2746, 2806, 2812, 2814, 2818, 2820, 2823, 2826, 2828, 2831, 2833, 2835, 3109, 3917, 4728, 4818, 4844, 4866, 5206, 5480, 5482, 5483, 5547, 5548, 5724-5726**
Brain **4700**
Gills **4701, 4830, 4921, 5442**
Intestine **4702, 4831, 4922**
Kidney **3389, 4475, 4703, 4832, 4923, 5133**
Liver **3390, 4476, 4715, 4833, 4924, 5134, 5443**
Muscle **3897, 4704, 4834, 4925**
Skin **4835, 4926**
Spleen **4705, 4836, 4927**
Urine **2632, 5481**

Tuna
Muscle **4706**

Tuna, bigeye
Muscle **4707**

Tuna, bluefin
Body **3093**

Tuna, dogtooth
Muscle **4708**

Tuna, skipjack
Muscle **4709**

Tuna, yellowfin
Muscle **4710, 4711**

Tunicate
Body **3331**

Turkey
Liver **3414, 3756, 3774, 4936**

Turkey wing
Blood **4810**
Gills **4811**
Hepatopancreas **4812**
Muscle **4813**

Turtle, green
Liver **3094, 4112**
Muscle **3095, 4113**

Turtle, hawksbill
Liver **4798, 5253**
Muscle **4799**

Turtle, loggerhead
Liver **3096, 4114**
Muscle **3097, 4115**

Turtle, sea
Liver **3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240**

Turtle, snapping
Adipose **2694, 3332**
Muscle **2695**

Vara vara
Muscle **4712**

Vendace
Muscle **3098, 3444, 3872**

Vole, meadow
Adipose **3873**
Body, whole **3874**
Kidney **3333**
Liver **3334**
Stomach **3875**

Vole, short-tailed field
Body **3335**
Bone **3336**
Heart **3337**
Kidney **3338**
Liver **3339**
Muscle **3340**
Teeth **3341**

Walleye
Adipose **2807, 3099, 3445, 3697, 3958, 3969, 4116, 5671**
Body, whole **4956**

Warbler, Grace's
Brain **4845, 4855**
Liver **4846, 4856**

Warbler, yellow-rumped
Brain **4847, 4857**
Liver **4848, 4858**

Waterfowl
Muscle **4193**

Whelk, dog
Body **3342**

Whimbrel
Muscle **4713**

White fish, mountain
Adipose **4117**

Whitefish, lake
Adipose **2808, 3100, 3446, 3698, 3959, 4118, 5672**

Whitefish, mountain
Adipose **2809, 3101, 3447, 3699, 5673**

Whiting
Body **2810**
Liver **2811**

Whiting, Pacific
Muscle **2660, 2743, 3391, 3487, 3680, 4258, 4442, 4477, 4535, 4714, 4908, 5050, 5153, 5173, 5444**

Wigeon, American
Bone **4428, 5445**
Kidney **3343, 3681, 4429, 5446**
Liver **3344, 3682, 5447**

Windowpane
Body **3102**

Woodcock
Adipose **3103, 5674, 5801**
Brain **4119, 5675, 5802**
Heart **3104, 4120, 5676, 5803**
Liver **3105, 4121, 5677, 5804**
Muscle **3106, 4122, 5678, 5805**

Worm, polychaete
Body **3345**

Zooplankton
Body **3107, 3876, 4179**

Abdomen **4580**

Adipose **2685, 2689, 2694, 2747, 2756, 2758, 2761, 2764, 2766, 2770, 2778, 2784, 2790, 2793, 2803, 2804, 2807-2809, 2842, 2877, 2887, 2891, 2897, 2904, 2918-2920, 2924, 2930, 2939, 2949, 2951, 2958, 2961, 2966, 2971, 2973, 2982, 2997, 3013, 3017, 3020, 3041, 3051, 3053, 3058, 3061, 3066, 3067, 3073, 3082, 3083, 3085, 3088, 3092, 3099-3101, 3103, 3332, 3421, 3422, 3429, 3434, 3435, 3440-3443, 3445-3447, 3687, 3691-3699, 3704, 3733, 3734, 3775, 3795, 3804, 3813, 3820, 3850, 3856-3858, 3867, 3873, 3891, 3900-3902, 3911, 3931, 3933, 3949, 3950, 3955, 3956, 3958, 3959, 3968-3970, 3973-3975, 3978, 3984, 3997, 4002, 4007, 4010, 4017, 4023, 4027, 4030, 4034, 4039, 4047, 4054, 4061, 4065, 4076, 4085, 4086, 4090, 4093, 4101, 4106-4108, 4111, 4116-4118, 4129, 4166, 4585, 4602, 4632, 4716, 4736, 4820, 4829, 4867, 4872, 4920, 4964-4966, 4993, 5094, 5176, 5187, 5190, 5218, 5460, 5485, 5513, 5520, 5524, 5528, 5531, 5536, 5549, 5561, 5569, 5582, 5602, 5613, 5617, 5622, 5628, 5650, 5656, 5657, 5665, 5669-5674, 5729, 5747, 5754, 5756, 5762, 5778, 5790, 5798, 5801, 5810, 5814, 5815**

Adipose tissue **2800**

Adrenal gland **5697**

Alimentary canal **2650, 3306, 3376, 3656, 4239, 4465, 4525, 4898, 5041, 5154, 5412**

Bile **2631, 2680, 2682, 2843, 3742, 3762, 4141, 4182, 4183, 4185, 4731, 4753, 4814, 4815, 4937-4941, 4967, 4968, 4994, 4995, 5474, 5478, 5499, 5544, 5698, 5711, 5825**

Blood **2710, 2721, 2730, 2744, 2942, 2998, 3068, 3111, 3131, 3159, 3274, 3520, 3637, 3683, 3743, 3776, 3821, 3851, 3916, 4055, 4094, 4200, 4274-4278, 4354, 4365, 4367, 4406, 4426, 4586, 4633, 4676, 4699, 4742, 4810, 4860, 4865, 4969, 4970, 4996, 4997, 5055, 5061, 5080, 5081, 5095, 5116, 5121, 5130, 5271, 5298, 5475, 5479, 5822**

Blood, cells **5082**

Blood, plasma **2662, 2711, 2724, 3346, 3351, 3352, 3355, 3358, 3359, 3374, 3388, 3392, 3393, 3521, 3581, 3587, 3643, 3644, 3669, 3910, 3915, 4186, 4250, 4251, 4259, 4463, 4494, 4730, 4800, 4801, 4819, 4881, 4882, 5024, 5036, 5054, 5057-5060, 5083, 5084, 5093, 5135, 5163, 5254, 5257, 5351, 5435, 5448, 5449, 5545, 5680, 5681, 5712, 5741, 5824**

Blood, serum **2628, 2629, 2696, 3353, 3375, 3448, 3449, 3522, 3582, 4140, 4160-4163, 4184, 4188, 4201, 4235, 4447, 4448, 4464, 4733, 4897, 5037, 5051, 5085, 5086, 5131, 5151, 5162, 5679, 5682, 5683, 5699, 5826**

Blood, whole **3179, 4003, 4329, 4427, 4598, 4862, 5087, 5177, 5495, 5730, 5757, 5775**

Blubber **3160, 5299**

Body **2663-2679, 2684, 2704-2706, 2716, 2717, 2720, 2735, 2746, 2749, 2752, 2760, 2762, 2767, 2769, 2775, 2776, 2783, 2789, 2791, 2792, 2806, 2810, 2812, 2814, 2815, 2817, 2818, 2820-2826, 2828-2833, 2835, 2838-2841, 2844, 2862, 2863, 2872-2874, 2876, 2879-2882, 2884-2886, 2894, 2896, 2898, 2899, 2901-2903, 2905, 2910, 2912, 2913, 2915, 2917, 2938, 2943, 2945, 2946, 2948, 2955-2957, 2964, 2978-2980, 2983, 2984, 2987-2991, 2995, 2996, 3011, 3012, 3025, 3027-3036, 3050, 3052, 3057, 3065, 3074-3080, 3084, 3093, 3102, 3107-3109, 3120, 3121, 3127, 3128, 3143, 3144, 3146, 3147, 3150-3152, 3157, 3158, 3201, 3202, 3207, 3210, 3216, 3221, 3224, 3228-3231, 3233-3235, 3248-3252, 3258, 3259, 3267, 3292, 3300,**

3314, 3315, 3318-3321, 3331, 3335, 3342, 3345, 3384, 3416, 3418-3420, 3426, 3460, 3462, 3463, 3465, 3466, 3468-3472, 3484, 3485, 3493, 3501-3505, 3517, 3534, 3536-3538, 3542, 3570, 3580, 3592, 3596-3598, 3608-3610, 3655, 3664-3666, 3668, 3684, 3711-3716, 3721-3723, 3728, 3735, 3790-3794, 3797, 3798, 3800-3802, 3809-3812, 3814-3819, 3834, 3836, 3838, 3841, 3842, 3847-3849, 3864-3866, 3868-3870, 3876, 3879, 3881, 3883, 3894, 3896, 3898, 3899, 3917-3920, 3922-3926, 3930, 3934, 3935, 3939-3942, 3947, 3948, 3951-3953, 3972, 3977, 3982, 3983, 3988-3990, 3993, 3995, 3996, 4021, 4022, 4026, 4028, 4040, 4041, 4045, 4046, 4048, 4049, 4056, 4070, 4071, 4073, 4099, 4100, 4102, 4123-4128, 4130, 4131, 4134-4139, 4165, 4167-4179, 4210, 4247, 4248, 4265, 4270, 4271, 4310-4314, 4326, 4327, 4352, 4378, 4379, 4384, 4385, 4391, 4393, 4394, 4418, 4419, 4421-4423, 4425, 4499, 4533, 4541, 4554, 4568, 4569, 4574, 4634, 4649, 4651, 4652, 4654, 4661, 4728, 4751, 4754, 4759-4761, 4768-4770, 4775-4777, 4791, 4794, 4795, 4797, 4816-4818, 4822-4825, 4837, 4844, 4866, 4913-4916, 5020, 5056, 5065-5072, 5111, 5186, 5198, 5205-5210, 5212, 5213, 5215, 5216, 5219, 5220, 5224-5227, 5229-5232, 5234-5239, 5258, 5267, 5285, 5287, 5288, 5292, 5295, 5296, 5343, 5360, 5364-5366, 5377-5379, 5411, 5420, 5421, 5431-5434, 5450-5459, 5476, 5480, 5482-5484, 5494, 5514-5519, 5542, 5547, 5548, 5560, 5564, 5566, 5568, 5570-5573, 5578-5581, 5583, 5586, 5587, 5589, 5591, 5593, 5595-5597, 5599-5601, 5612, 5618-5621, 5623, 5624, 5643, 5646, 5648, 5662-5664, 5666, 5724-5728, 5751, 5752, 5759, 5761, 5771, 5773, 5795-5797, 5808

Body, whole **2703, 2708, 2836, 2837, 2900, 3145, 3155, 3203, 3225, 3240, 3417, 3461, 3499, 3535, 3571, 3593, 3789, 3799, 3806, 3859, 3861, 3874, 3921, 3987, 4221, 4315, 4353, 4500, 4512, 4567, 4609, 4767, 4933, 4945-4956, 5165, 5211, 5245, 5286, 5344, 5361, 5367, 5500, 5565, 5594, 5760, 5823**

Bone **3161, 3187, 3245, 3279, 3301, 3336, 3481, 3506, 3556, 3605, 3645, 4147-4159, 4236, 4252, 4268, 4272, 4279, 4280, 4330, 4331, 4339-4341, 4346, 4348, 4358, 4368, 4369, 4380, 4386, 4388, 4396, 4400, 4402, 4404, 4411, 4424, 4428, 4482, 4495, 4685, 4689, 4788, 4796, 4909, 5167, 5264, 5268, 5300, 5318, 5326, 5327, 5334, 5337, 5347, 5368, 5374, 5383, 5394, 5397, 5403, 5425, 5445**

Bone marrow **5461**

Brain **2690, 2771, 2779, 2785, 2794, 2845, 2866, 2883, 2888, 2911, 2921, 2925, 2928, 2931, 2952, 2959, 2965, 2967, 2999, 3014, 3021, 3043, 3048, 3054, 3062, 3069, 3081, 3089, 3112, 3162, 3275, 3423, 3430, 3436, 3507, 3523, 3638, 3705, 3719, 3729, 3777, 3822, 3852, 3936, 3976, 3994, 4004, 4011, 4029, 4031, 4042, 4050, 4057, 4062, 4077, 4081, 4087, 4095, 4105, 4119, 4202, 4281-4284, 4370, 4407, 4483, 4587, 4635, 4677, 4700, 4717, 4743, 4838, 4840, 4842, 4845, 4847, 4849, 4851, 4853, 4855, 4857, 4971, 4972, 4998, 4999, 5096, 5117, 5178, 5221, 5272, 5301, 5462, 5486, 5489, 5491, 5501, 5521, 5525, 5532, 5537, 5559, 5588, 5590, 5603, 5629, 5652, 5658, 5675, 5731, 5748, 5755, 5763, 5779, 5786, 5791, 5802, 5820**

Caruncles **5684**

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Eggshell gland **3356, 3360, 3986, 4001**

Embryos **2772, 3000, 3424, 3823, 3945, 4060, 4636, 5522, 5630, 5780**

Esophagus **4973, 4974, 5000, 5001**

Exoskeleton **3545, 3903, 4317, 4318, 4581**

Exuvia **4319**

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Fat **5713**

Fat body **2651, 3307, 3377, 3657, 4240, 4466, 4526, 4899, 5042, 5155, 5413**

Feathers **3001, 3182, 3494, 3551, 3824, 4216, 4334, 4507, 4536, 4573, 4583, 4584, 4599, 4600, 4608, 4612, 4614, 4619, 4620, 4623-4625, 4630, 4637, 4658, 4669, 4682, 4697, 4698, 4762, 5321, 5631, 5709**

Fetus **4729, 5723**

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Gall bladder **2847, 3113, 4744**

Gas bladder **2848**

Gastrointestinal tract **4778, 4910, 5248**

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Gizzard **3002, 3737, 3752, 3757, 3769, 3825, 4638, 5632**

Gonads **2652, 2850, 3296, 3308, 3378, 3658, 4241, 4467, 4527, 4900, 5043, 5156, 5414**

Green gland **4321**

Gut **4143, 4690, 4859, 5426**

Hair **2683, 2699, 2731, 2736, 3110, 3397, 3398, 3451, 3488, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5132, 5140, 5200, 5273**

Head **2653, 3309, 3379, 3659, 4242, 4468, 4528, 4901, 5044, 5157, 5415**

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Hepatopancreas **3153, 3237, 3543, 3905, 4214, 4322, 4504, 4575, 4812, 5124, 5293**

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Ovary **3172, 3784, 4870, 4876, 5127, 5311, 5470, 5507, 5692, 5693, 5737**

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Placenta **3174, 5313**

Rumen **3400**

Scales **2856**

Shell **3385, 4375, 4420**

Shell membrane **2941, 4020**

Silk gland **2656, 3312, 3382, 3662, 4245, 4471, 4531, 4904, 5047, 5160, 5418**

Skin **2698, 2857, 3119, 3175, 4146, 4491, 4750, 4835, 4911, 4926, 4987, 4988, 5014, 5015, 5247, 5314, 5471, 5710**

Spinal cord **4306, 5509**

Spleen **2858, 3176, 3458, 3533, 3785, 4208, 4307-4309, 4492, 4596, 4705, 4726, 4741, 4836, 4927, 4989, 4990, 5016, 5017, 5105, 5183, 5284, 5315, 5472, 5510, 5694, 5706, 5738**

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Syphon **3299**

Teeth **3341**

Testis **3178, 3288, 3907, 4328, 5129, 5317, 5511**

Thyroid gland **2688, 4191, 4192, 4194, 5707**

Tongue **3786, 5184, 5739**

Trachea **2657, 3313, 3383, 3663, 4246, 4472, 4532, 4905, 5048, 5161, 5419**

Udder **3787, 5719**

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Uropygial gland **2788, 3009, 3046, 3432, 3703, 3732, 3832, 4080, 4645, 5558, 5639, 5651**

Uropygial oil **3010, 3833, 5640**

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Viscera **4871**

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WOOD PRESERVATIVES 2716, 3466, 3580, 4823, 5205

WORMS 3202, 3570, 4352, 5343, 5727

WYOMING 2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807, 5812

YUGOSLAVIA 4277

Algeria **3693, 3704, 3733, 3857**

Algonquin Park **2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782**

Antarctica, Syowa Station **3073, 3440, 3806, 3856, 5747, 5754, 5810, 5814**

Arctic **2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794**

Arizona, Kiabab National Forest **4838-4843, 4845-4858**

Arkansas **3891, 3892**

Arkansas, Garland **2838-2841**

Atlantic Ocean **4676-4680, 5116-5118**

Australia **3581-3584, 3644, 3646, 3652, 4184, 4190, 4363, 4364, 5082, 5083, 5087, 5351-5353, 5404, 5407, 5409, 5410, 5756, 5757, 5775, 5824**

Australia, Queensland **2700-2702, 2730-2734, 3133, 3136, 3140, 3453, 3455, 3457, 3526, 3529, 3532, 4290, 4296, 4300, 4564-4566, 5089, 5090, 5092, 5276, 5279, 5283**

Australia, Queensland, Brisbane **4266**

Australia, Tasmania, South Esk River **3204-3206, 3208, 3253, 3256, 3257, 3326-3330, 3572-3575, 3611, 3613, 3614, 3627, 3628, 3676-3679, 5345, 5346, 5380, 5382, 5391-5393, 5439-5441**

Australia, Victoria, East Gippsland and French Island **3500, 3587, 3588, 4513, 5356**

Belgium **2683, 2699, 2736, 3397, 3398, 3451, 3488, 3719, 3720, 3727, 4203, 4263, 5025, 5064, 5073, 5074, 5088, 5140, 5200, 5273**

Belgium, Antwerp, Meuse River **4783, 4787**

Belgium, Meuse River, Antwerp **3475-3479, 3622-3626, 4784-4786**

Belgium, rural farms **3110**

Bermuda, Harrington Sound **4810-4813**

California **2940, 2941, 3353, 3903-3907, 4019, 4020, 4054-4057, 4865**

California (S) **2914, 3803**

California, Davis **2630, 4860, 4861**

California, Tracy **3536**

Canada **2746, 2793-2797, 2940, 2941, 3067-3072, 3274-3278, 3435-3439, 3449, 3450, 3637-3641, 3850-3855, 4019, 4020, 4093-4098, 4406-4410, 4676-4680, 4728, 4800, 4820, 4821, 4844, 5058, 5116-5120, 5135, 5657-5661, 5790-5794**

Canada, Alberta **2761, 2784, 2790, 2803, 2804, 2807-2809, 2961, 3041, 3051, 3082, 3083, 3092, 3099-3101, 3421, 3429, 3434, 3441-3443, 3445-3447, 3687, 3691, 3692, 3694-3699, 3931, 3949, 3950, 3955, 3956, 3958, 3959, 3968, 3969, 4027, 4076, 4085, 4106, 4107, 4111, 4116-4118, 5613, 5650, 5656, 5669-5673**

Canada, British Columbia, SE, Windermere Valley **5086**

Canada, Great Lakes, Gamaraska River **2814, 2818, 2820, 2823, 2828, 2831, 2833, 2835, 3917, 5483**

Canada, northwestern Manitoba **3522**

Canada, Ontaria, Clay Lake **4661, 4662, 5111, 5112**

Canada, Ontario **2812, 2826, 3109, 3201, 3388-3390, 4476, 5133, 5134, 5206, 5482, 5547, 5548, 5697-5708, 5724-5726**

Canada, Ontario, Georgian Bay, Tadenac Lake **2634-2637, 2640-2643, 2646-2648, 3122-3124, 3243, 3244, 3265, 3266, 3347-3350, 3364-3367, 3370-3372, 3510-3513, 3601-3604, 3619-3621, 4195-4198, 4225-4228, 4231-4233, 4443-4446, 4453-4456, 4459-4461, 4478-4481, 4515-4518, 4521-4523, 4755-4758, 4771-4774, 4781, 4782, 4877-4880, 4887-4890, 4893-4895, 5021-5023, 5028-5030, 5033, 5034, 5075-5078, 5107-5110, 5113-5115, 5137-5139, 5143-5145, 5148, 5149, 5259-5262, 5370-5373, 5388-5390**

Canada, Ontario, Kinoje Lake **2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782**

Canada, Ontario, Middlesex County **3705-3708, 3710**

Canada, Ottawa **3649, 3654, 4732**

Canada, Quebec, Lac Ste-Anne **2633, 4867-4876**

Canada, Saskatchewan, Saskatoon **4274, 4281, 4288, 4293**

Cape Hatteras, Gulf Stream **4622**

Chesapeake Bay **3125, 3126, 3129, 3130, 3180, 3181, 3190, 3193-3198, 3211, 3212, 3241, 3242, 3260, 3261, 3268-3273, 3325, 3343, 3344, 3515, 3516, 3518, 3519, 3549, 3550, 3559, 3562-3567, 3577, 3578, 3599, 3600, 3615, 3616, 3631-3636, 3675, 3681, 3682, 4268, 4269, 4272, 4273, 4331, 4332, 4341, 4343, 4346-4349, 4358, 4359, 4386, 4387, 4396, 4397, 4400-4405, 4428, 4429, 5264-5266, 5268-5270, 5318-5320, 5327, 5330, 5333-5340, 5347-5349, 5368, 5369, 5383-5385, 5394-5401, 5438, 5445-5447**

Colorado **2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807**

Colorado, Gunnison **5245-5247**

Connecticut **3315, 3485, 3666, 4248, 4330, 4333, 4340, 4345, 5421**

Crossbreed barrows, wt 91-107 kg **2681**

Denmark, West Jutland, Ringkobing Fjord **4426**

Egypt, Nile River and canals **2875, 3736, 3871, 3957, 3960, 3967, 4110, 5585**

England, central **3300-3305, 3335-3341**

England; Cumbria **4420**

England; Cumbria, Ullswater **4354-4356, 4419**

England, East Midlands, River Trent **4192, 4194**

Finland **3039, 3040, 3047, 3098, 3427, 3428, 3433, 3444, 3844-3846, 3872, 4937-4941**

Florida **4494-4498**

Florida, Apalachicola River **2703, 2900, 3145, 3417, 3461, 3535, 3799, 3921, 3987, 4500, 4567, 5165, 5211, 5286, 5565, 5594, 5760, 5823**

Florida, East coast **3094-3097, 4112-4115**

Florida, Loxahatchee National Wildlife Refuge **3665**

Florida, northern Gulf Coast, Dog Island **4634**

France **3351, 4185-4187, 4882**

France, Talence **4699-4705, 4715**

Georgia **3756, 3774, 5060**

Georgia, Millen **2678**

Germany **3403, 3404, 3406, 3412, 3414, 4735, 4816-4818, 4928, 4929, 4931, 4932, 4934-4936, 5727**

Great Britain, Derbyshire, River Ecclesbourne **3127, 4270**

Great Lakes **3878, 3881, 3882, 3887, 3890, 3893, 3896, 3897**

Great Lakes, Lake Ontario **3880, 3885, 3889, 3894, 3895**

Greece, North Aegean Sea **3217, 3232, 4360, 4383, 4384, 4621, 4650, 4651**

Greenland **2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 4676-4680, 5116-5120, 5657-5661, 5790-5794**

Hawaii **4707, 4710**

Idaho **5121**

Idaho, Idaho National Engineering Laboratory, Test Reactor Area **4193**

Idaho, University of Idaho **5081, 5091**

Illinois **3415, 3709, 3795, 3796, 3915, 5054, 5549, 5550, 5592, 5758, 5815, 5816**

Illinois, Savanna, Ayers Sand Prairie Nature Preserve, Thomson-Fulto* **4380-4382**

Illinois, Vermilion and Shelby Counties **2919, 3048, 3049, 3103-3106, 3997-4000, 4081-4084, 4119-4122, 5559, 5602-5606, 5652-5655, 5674-5678, 5762-5766, 5786-5789, 5801-5805, 5820, 5821**

India **3514, 4199, 4267, 4550, 5255, 5263**

India, Bombay **4264, 4398**

India, Periyar River **4357, 4361, 4430-4432, 4435**

India, Periyar River and Bombay **4392, 4399, 4417**

Indian Ocean (W), Seychelles **4545, 4548, 4549, 4553, 4627, 4628, 4664, 4672, 4708, 4709, 4711, 4712**

Iowa **4201, 5131**

Iran **2710, 2712, 2714, 2721-2723**

Iran, Nowruz oil field **4778-4780, 4792, 4793, 4798, 4799, 5248-5253**

Ireland **3911-3914**

Italy, Rome **4736-4741**

Italy, Sicily, Augusta Bay **2916, 2937, 3026, 3030, 3035, 3042**

Japan **2650-2657, 2666-2668, 2675-2677, 2769, 2783, 2789, 2957, 3025, 3032, 3050, 3108, 3306-3313, 3376-3383, 3656-3663, 3712, 3721, 3810, 3841, 3847, 4167, 4171, 4172, 4174, 4239-4246, 4465-4472, 4525-4532, 4824, 4837, 4898-4905, 5020, 5041-5048, 5154-5161, 5234-5239, 5412-5419**

Japan, Aichi **2664**

Japan, Aomori **2792, 3057, 3849, 4176**

Japan, Hokkaido, Kushiro City **4608**

Japan, Hokkaido, Nemuro City **4584**

Japan, Hongkong **3792**

Japan, Iwate **2791, 3052, 3848, 4175**

Japan, Kagawa **2670**

Japan, Kawana, east Izu Peninsula **3159-3178, 3240, 3316, 3317, 5298-5317, 5367, 5423, 5424**

Japan, Matsuyama City, Tsubaki shrine **2708, 3203, 3499, 3571, 4221, 4353, 4512, 4609, 4767, 5344**

Japan, Nagara River watershed **4805-4807**

Japan, Osaka **2663, 2672, 2749, 2880, 3790, 4165**

Japan, Sanin **2762, 3080, 4178**

Japan, Saniu **3811, 3870**

Japan, Shikoku **2665, 2669, 2767, 2978, 3812, 4168**

Japan, Shiranui Sea **4573, 4583, 4599, 4600, 4612, 4614, 4623, 4625, 4630, 4658, 4669, 4682, 4697, 4698**

Japan, Shiranui Sea, Minamata Bay **4536, 4619**

Japan, Shizuoka **2775, 3011, 3834, 4169**

Japan, Taiji, southern Kii Peninsula **3159-3178, 3240, 3316, 3317, 5298-5317, 5367, 5423, 5424**

Japan, Toltori **2673**

Japan, Tottori **2760**

Japan, Wakayama **2671, 2674, 2776, 3012, 3836, 4170**

Kansas **5062, 5063**

Kansas City, stockyards **4140**

Kentucky **4730, 4801, 4802, 5084**

Kentucky, Harrodsburg **3225**

Kentucky, Lexington **3120, 3210, 3216**

Kenya **2628**

Lake Huron, Saginaw Bay **4946, 4952**

Lake Michigan, northwestern islands **2777, 3022, 3837, 3946, 4068, 4648, 4944, 5228, 5533, 5575, 5642, 5746, 5753, 5783, 5809, 5813**

Lake Ontario, Roosevelt Beach **4948, 4954**

Lake Superior, Keweenaw Bay **4950**

Long Island Sound **2947, 3209, 3576, 5136**

Louisana, Lake Providence, Lake Bruin, Lake St. John **2987, 2989, 3816, 3818, 3939, 3941, 4045, 4048, 4134, 5224, 5226, 5516, 5518, 5572, 5620, 5623**

Louisiana **2881, 2886, 2896, 2905, 2910, 2955, 2984, 2988, 2990, 3074, 3075, 3078, 3714, 3715, 3722, 3723, 3735, 3791, 3793, 3794, 3800, 3801, 3809, 3815, 3817, 3819, 3838, 3868, 3918-3920, 3924, 3925, 3930, 3935, 3940, 3942, 3947, 3951-3953, 3972, 3977, 3982, 3983, 3990, 3993, 3996, 4021, 4022, 4026, 4041, 4046, 4049, 4070, 4099, 4100, 4102, 4123-4128, 4131, 4135-4139, 4447, 5207-5210, 5212, 5213, 5215, 5216, 5220, 5225, 5227, 5229-5232, 5484, 5494, 5515, 5517, 5519, 5542, 5566, 5568, 5571, 5573, 5578, 5579, 5583, 5586, 5591, 5597, 5599, 5612, 5619, 5621, 5624, 5643, 5666, 5751, 5752, 5771, 5773, 5808**

Louisiana, Franklin **5080**

Louisiana, Lake Providence **2982, 2985, 2986, 3813, 3933, 3936-3938, 4039, 4042-4044, 4047, 4050-4052, 4129, 4132, 4133, 5221, 5223, 5513, 5569, 5617, 5622, 5625**

Louisiana, Lake Province, Lake Bruin, Lake St. John **2983, 3814, 3934, 4040, 4130, 5219, 5514, 5570, 5618**

Louisiana, Mississippi River, near Baton Rouge **2800-2802, 3734, 3867, 3954, 4101, 4103, 4104, 5561-5563, 5582, 5584, 5665, 5667, 5668, 5798-5800**

Lower Hudson River (106 mi N of NYC) **3900, 3901**

Lower Hudson River (160 mi N of NYC) **3902**

Lower Hudson River near Albany, NY **3883**

Maine **3315, 3485, 3666, 4248, 5421**

Maine, Portland **2752, 3416, 3684, 3798, 4822, 4913, 4915**

Maine, Woods Pond **4947, 4953**

Marland, Laurel **4367, 4370**

Maryland **2744, 2745, 2883, 2964, 2965, 3081, 3179, 3879, 3898, 4003, 4329, 4598**

Maryland, Cecil County, North East **5589, 5590**

Maryland, Chesapeake Bay area **3251, 3471, 3538, 4312, 5288**

Maryland, Chesapeake Bay area tributaries **2705, 2706, 3147, 3152, 3463, 3465, 3542, 4313, 4569, 4574, 5292**

Maryland, Chesapeake Bay area, tributaries **2704, 2717, 2901, 2902, 2912, 3036, 3146, 3418-3420, 3426, 3462, 3537, 3609, 3711, 3713, 3716, 3728, 3922, 3923, 3926, 3948, 3988, 3989, 3995, 4073, 4311, 4393, 4568, 4652, 5287, 5378, 5595, 5596, 5601, 5648**

Maryland, Eastern **3976, 3994, 4028, 4029, 4105**

Maryland, Laurel **4369, 4371, 4372, 4374**

Maryland, Laurel, Patuxent Wildlife Refuge **4368, 4373, 4375**

Maryland, Washington County, Hancock, Round Top Mountain **3973-3975**

Massachusetts **3315, 3485, 3666, 4248, 4330, 4333, 4340, 4345, 5421**

Massachusetts, Buzzards Bay and Acushnet River **2996**

Massachusetts, Cotuit Sound **4775**

Massachusetts, Greenfield, Green River **3128, 3224, 3318, 3517, 3592, 3668, 4271, 4378, 4421, 5267, 5360, 5431**

Massachusetts, New Bedford area **2879, 2882, 2885, 2894, 2915, 2917, 2938, 2945, 2946, 2948, 2979, 2980, 3065, 3084, 3102**

Mexico (NW), Sinaloa, Huizache-Caimanero lagoon system **2863, 3802, 3807, 3864, 3866, 5610, 5644, 5662, 5761, 5797**

Mexico (NW), Sinaloa, Huizache-Caimanreo lagoon system **3839, 3840**

Mexico (NW), Sinaloa, Huizache-Caimanuo lagoon system **2870, 5795**

Mexico (NW), Sinaloa, Huizache-Ciamaneno Lagoon complex **2864**

Mexico (NW), Somora, Yavaros lagoon system **2873, 2874**

Mexico (NW), Sonora, Yavaros lagoon system **2862, 2863, 2865, 2869-2872, 3797, 3802, 3808, 3835, 3839, 3840, 3864-3866, 5556, 5557, 5560, 5564, 5574, 5576, 5577, 5580, 5581, 5593, 5641, 5645, 5662, 5663, 5759, 5761, 5770, 5784, 5785, 5795-5797**

Mexico (NW), Sonora, Yavaros lagoon system, Mexico (NW), Sinaloa, Hu* **5600, 5664**

Mexico (NW), Sonora, Yavoros lagoon system **5644**

Mexico(NW), Sinaloa, Huizache-Caimanuo lagoon system **2872**

Mexico, Bay of Campeche, Laguna Madre **3908, 3909, 4164, 4180, 4181, 4752, 4803, 4804, 4808, 4809, 5199, 5240**

Michigan **4945, 4949, 4951, 4955, 4956, 5065-5072, 5162, 5450-5459**

Michigan, Ann Arbor **2684**

Minnesota **2694, 2695**

Minnesota, Mississippi River **3332**

Mississippi **5079**

Missouri **4276, 4314, 4316, 4318-4322, 4324**

Missouri, Boone County **5587, 5588**

Missouri, Boone County, Devil's Icebox and Hunter Caves **5748, 5755**

Missouri, Columbia **4819**

Netherlands **2707, 2709, 2727-2729, 2897**

Netherlands, coast **3066**

Netherlands, Eindhoven, S.E., Dutch Kempen region **3202, 3570, 4352, 5343**

Nevada, Lahontan Reservoir **4538-4544, 4546, 4547, 4551, 4552, 4554-4563, 4577-4580, 4615-4617, 4649, 4654-4657, 4694**

New Bedford, MA area **2876**

New Jersey **3879, 3898**

New Jersey, southwestern **5728**

New Mexico **3279, 3281, 3284, 3375, 3481-3483, 3645, 3647, 3653, 4235-4238, 4411, 4413, 4415, 4464, 4685-4687, 4788-4790, 4897, 5037, 5151, 5403, 5405, 5408**

New York **3282, 3285, 3287, 3288, 3879, 3898, 3899, 4955**

New York, Hudson and Niagara Rivers **3980**

New York, Hudson River **2904, 2906, 2907, 2951-2953, 3058-3064, 3085-3090, 4090-4092, 4108, 5540, 5541**

New York, Hudson River and Long Island **2920-2923, 4002, 4004-4006, 5485-5488**

New York, Hudson River area **2924-2927, 4007-4009, 5489, 5490**

New York, Hudson River region **2962, 2963**

New York, Ithaca **3262-3264, 3289-3291**

New York, Lake Ontario **2887, 2890, 3978**

New York, Long Island **2888, 2928, 2929, 4012, 5492**

New York, Long Island and Lake Ontario **2889, 3979**

New York, Long Island and Niagara River **3054-3056, 4086-4089, 5536-5539**

New York, Niagara and Hudson Rivers **2891-2893, 3981**

New York, Niagara Falls **3877, 3886, 3888**

New York, Niagara Falls, Cayuga Creek **3884**

New York, Niagara River **2958-2960, 2966-2969, 3013-3021, 3023, 3024, 4030-4032, 4061-4067, 4069, 5498, 5524-5532, 5534, 5535**

New York, Niagara River and Long Island **3053**

New York, Syracuse **3280, 3283, 3286**

New York, Syracuse, Ley Creek Sewage Treatment Plant **3289-3291**

New York, Westchester County **2930, 2933, 4010, 4011, 4013, 5491**

New York, Westchester County and Long Island **2931, 2932**

North Carolina, Belews Lake **5122, 5123**

North Dakota **2689-2693**

Northwest Atlantic **2793-2797, 3067-3072, 3274-3278, 3435-3439, 3637-3641, 3850-3855, 4093-4098, 4406-4410, 5119, 5120, 5657-5661, 5790-5794**

Norway **2785-2788, 3043-3046, 3352, 3430-3432, 3701-3703, 3729-3732, 4077-4080, 4881, 5558, 5651**

Norway, Svalbard **2758, 2759, 2877, 2878, 2973, 2974, 3970, 4034, 4611**

Norway, Svalbard, Spitsbergen **2747, 2748, 2756, 2757, 2763-2765, 2939, 2949, 2950, 2970, 3971, 4017, 4018, 4023, 4024, 4033, 4035, 4537, 4610, 4613, 4618**

Ohio **4945, 4951, 4956**

Ohio, Newtown **3225**

Ohio, Oxford, Bachelor Wildlife Reserve **3333, 3334**

Ohio, Urbana **3858-3863, 3873-3875**

Ontario **4862-4864**

Oregon, coast **3148, 3149, 3153, 3154, 3539, 3540, 3543, 3544, 4211, 4212, 4214, 4215, 4501, 4502, 4504, 4505, 4570, 4571, 4575, 4576, 5289, 5290, 5293, 5294**

Oregon, Corvallis area **3651**

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Pacific Ocean, Hawaii **4683, 4684**

Pacific Ocean, northeast **2638, 2645, 2737, 2741**

Papua New Guinea, Port Moresby **4646, 4663, 4673, 4675, 4706**

Parry Sound **2770-2774, 2997-3010, 3422-3425, 3820-3833, 3945, 4060, 4632, 4633, 4635-4645, 5520-5523, 5628-5640, 5778-5782**

Pennsylvania **5721, 5722**

Poland, Gdansk Bay **3182-3186, 3494-3498, 3551-3555, 4216-4220, 4334-4338, 4507-4511, 4762-4766, 5201-5204, 5241-5244, 5321-5325**

Rhode Island **3315, 3485, 3666, 3879, 3898, 4248, 5421**

Rhode Island, Narragansett Bay **4770**

Rhode Island, Salt Pond **3629, 3630**

Saudi Arabia, Arabian Gulf **4778-4780, 4792, 4793, 4798, 4799, 5248-5253**

Scotland **3392, 4141-4146, 5057**

Scotland, Loch Faskally **4968, 4969, 4971, 4973, 4975, 4977, 4979, 4981, 4983, 4985, 4987, 4989, 4991, 4994, 4996, 4998, 5000, 5002, 5004, 5006, 5008, 5010, 5012, 5014, 5016, 5018**

Scotland, Loch Faskally (Pitlochry) **4966, 4967, 4970, 4972, 4974, 4976, 4978, 4980, 4982, 4984, 4986, 4988, 4990, 4992, 4993, 4995, 4997, 4999, 5001, 5003, 5005, 5007, 5009, 5011, 5013, 5015, 5017, 5019**

South Africa **3144, 3228, 3292, 3293, 3295, 3297-3299, 3314, 3460, 3484, 3493, 3505, 3534, 3596, 3655, 3664, 4210, 4247, 4310, 4418, 4499, 4533, 4759, 4791, 5285, 5364, 5411, 5420**

South Africa, Cape Town, Bloubergstrand **3235, 3469, 3502, 3598, 4385, 4769, 5366**

South Africa, Eastern Cape **2908, 2909, 2954, 2975, 2977, 3037, 3038, 3091, 3843, 3991, 3992, 4025, 4036, 4037, 4074, 4075, 4109, 5598, 5611, 5614, 5615, 5649**

South Africa, Knysna Heads **3230, 3249, 3252, 3468, 3470, 3472, 3501, 3503, 3504, 3597, 3608, 3610, 4379, 4391, 4394, 4768, 4776, 4777, 5365, 5377, 5379**

South Carolina **3111-3119, 3748, 4742-4750**

South Carolina, Aiken, Savannah River Plant **2679**

South Carolina, Bulls Bay **3250, 4751**

South Carolina, Orangeburg **2678**

South Dakota **5130, 5132**

Spain **2860, 2861, 2935, 2936, 2992-2994, 3199, 3200, 3218-3220, 3568, 3569, 3579, 3585, 3586, 3685, 3686, 3688-3690, 3717, 3718, 3724-3726, 3928, 3929, 3943, 3944, 3961, 3962, 3964-3966, 4015, 4016, 4053, 4058, 4059, 4350, 4351, 4362, 4376, 4377, 4606, 4607, 4626, 4629, 4631, 5341, 5342, 5350, 5354, 5355, 5551-5555, 5608, 5609, 5626, 5627, 5768, 5769, 5774, 5776, 5777, 5817-5819**

Spitbergen **2973, 2974, 4034**

Spitsbergen **2758, 2759, 2877, 2878, 3970, 4611**

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Sweden, Eman River system **3254**

Sweden, national park of Stora Sjofallet and Sjaunja Bird Preservati* **4620**

Sweden, southern area **2898**

Sweden, vicinity of Sjaunja Bird Preservation area **4601, 4665, 4668, 4671, 4674, 4695, 4696, 4713**

Tennessee, Holston River **4602-4604**

Texas **3358, 3775-3788, 5124, 5176-5185, 5729-5740**

Texas, Martin Lake watershed **5125-5129**

Texas, West, rodeo and fair grounds and Fort Hancock **4859**

United Kingdom **4147-4151, 4153-4159, 4191**

United Kingdom, Cumbria, Sellafield **3402, 5174**

United Kingdom, Huntingdon **4689-4693, 5425-5430**

United Kingdom, Kent, Headcorn **4866**

United Kingdom, West Cumbria **2661, 3401, 4930, 4933, 5175**

United States, 15 states **4014**

Venezuela **3393-3396, 4259-4262**

Virginia **3189, 3192, 3558, 3561, 5329, 5332**

Virginia, Back Creek **3121, 3157, 3158, 3319-3321, 4265, 4326, 4327, 4422-4425, 4754, 4760, 4761, 4794-4797, 5258, 5295, 5296, 5432-5434**

Virginia, Blacksburg **3187, 3188, 3191, 3556, 3557, 3560, 4339, 4342, 4344, 5326, 5328, 5331**

Virginia, Tidewater region **3245-3247, 3605-3607, 4388-4390, 5374-5376**

Wales, Tywi River catchment **2659**

Washington **2631, 2632, 2720, 4815, 5024, 5442, 5443**

Washington, Duwamish Waterway **2680, 2682, 4182, 4183, 4731, 4753, 4814, 5825**

Washington, Hanford **3399, 3400, 3405, 5167**

Washington, Pullman **4914**

Washington, Seattle, Lake Washington and Lake Union **3155, 3156, 3545-3547, 4315, 4317, 4323, 4325, 4581, 4582**

West Germany, Giessen **5460-5473**

West Germany, Lueneburg heath **3410, 3411, 3413, 4412, 4414, 4416, 4433, 4434, 4942, 4943, 5038-5040**

Wisconsin **5056, 5085**

Wisconsin, Lower Fox River, Little Lake Butte des Morts **2895**

Wisconsin, Madison **2716, 3466, 3580, 4823, 5205**

Wyoming **2768, 2981, 3700, 3932, 3963, 4038, 5217, 5512, 5616, 5745, 5750, 5772, 5807**

Yugoslavia, small farms up to 5000 m from lead smelter **4277**

Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitrophenethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*)) - (9 CI) **2628, 2629**

Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI) **2630**

Acetic acid, (2,4-dichlorophenoxy)- **2631, 2632**

Acetic acid, (2,4,5-trichlorophenoxy)- **2-4**

Acetic acid, trichloro- **2633**

Aluminum **2634-2660**

Americium, isotope of mass 241 **2661**

Ammonia **2662**

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI) **1516-1520, 2663-2668**

Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI) **2669-2671**

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI) **2672-2677**

Anthracene **2678, 2679**

Anthracenecarboxaldehyde **2680**

Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI) **2681**

Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI) **2682**

Antimony **533, 534, 1521, 1522, 2683**

Arochlor 1242 (No postings in CHEMLINE). **535, 1523, 2684**

Arochlor 1254 **5-11, 536-538, 1524-1531, 2685-2688**

Arochlor 1260 **16-20, 539, 540, 1532-1542, 2689-2695, 2801, 2917-2921**

Aroclor 1016 **12-15, 2696-2698**

Arsenic **21-26, 541-558, 1543-1564, 2699-2729, 2873, 2897-2901**

Arsenic oxide [As2O3] **2730-2734**

Asbestos **2735**

Barium **2736-2743**

Benz(a)anthracene **27-32**

Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro- **1565-1589, 2744, 2745**

Benzene, chloro- **2746**

Benzene, hexachloro- **33-39, 559-564, 1590-1614, 2714-2716, 2721-2727, 2747-2757, 2757, 2758, 2758-2807, 2807-2811, 2940-2944**

Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI) **2812**

Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI) **2813, 2814**

Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI) **2815, 2816**

Benzene, pentachloro- **2817, 2818**

Benzene, 1,2,3-trichloro- **2819, 2820**

Benzene, 1,2,3,4-tetrachloro- **2821-2823**

Benzene, 1,2,3,5-tetrachloro- **2824, 2825**

Benzene, 1,2,4-tribromo- **2826**

Benzene, 1,2,4-trichloro- **2827, 2828**

Benzene, 1,2,4,5-tetrachloro- **2829-2831**

Benzene, 1,3-dichloro- **2832, 2833**

Benzene, 1,3,5-trichloro- **2834, 2835**

Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester **2836**

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester **1615-1619, 2696-2700, 2837-2841**

Benzenesulfonamide, 4-amino-N-(2,6-dimethoxy-4-pyrimidinyl)- **1620-1625**

Benzidine, dichloro- (8 CI); (1,1'-Biphenyl)-4,4'-diamine, dichloro- (9 CI) **565-567**

Benzo(a)pyrene **40-45, 568-570, 1626-1630, 2842-2858, 2858, 2859, 2859-2863**

Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI) **2860, 2861**

Benzylamine, N-ethyl-N-phenyl- (8 CI); Benzenemethanamine, N-ethyl-N-phenyl- (9CI) **1631**

Beryllium **571, 572, 1632, 1633**

BHC, total (No postings in CHEMLINE). **172-176, 773, 2729, 2797-2799, 2862-2875**

Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI) **46-62, 573-619, 1634-1712, 2710-2713, 2737-2743, 2761, 2876-2896, 2896-2938, 2938-2993, 2993, 2994, 2994, 2995, 2995, 2996, 2996, 2997, 2997, 2998, 2998-3031, 3031, 3032, 3032, 3033, 3033, 3034, 3034-3107**

Biphenyl, 4-chloro- (8 CI); 1,1'-Biphenyl, 4-chloro- (9 CI) **3108**

Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI) **3109**

Boron **63, 64, 620, 621**

Bromine **3110**

Cadmium **65-118, 622-704, 1713-1785, 2634-2636, 2643-2645, 2843-2847, 2864, 2878-2881, 3111-3345**

Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI) **1786, 3346**

Calcium **3047, 3347-3391**

Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester **3392**

Carbamic acid, methyl-, 2,3-dihydro-2,2-dimethyl-7-benzofuranyl ester (8 CI); 7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-, methylcarbamate (9 CI) **1787-1790**

Carbon, isotope of mass 14 **3393-3396**

Cerium **3397**

Cesium **3398-3400**

Cesium, isotope of mass 137 **119, 3401-3414**

Chlordane **705-717, 1791, 2803, 3039-3042, 3415-3447**

Chloroform (8 CI); Methane, trichloro- (9 CI) **718-720, 1792-1797**

Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI) **3448**

Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI) **3449, 3450**

Chromium **120, 121, 721-731, 1798-1829, 2866, 3451-3487**

Cobalt **122, 123, 732, 733, 1830-1841, 2848-2852, 2865, 3488-3505**

Cobalt, isotope of mass 60 **3506-3509**

Copper **124-167, 734-766, 1842-1911, 2637-2639, 2816, 2833-2837, 2867, 2875, 2876, 2890-2893, 3045, 3510-3682**

Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI) **3683**

Creosote **168**

Cyclohexane, 1,2,3,4,5,6-hexachloro-, alpha- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3beta,4alpha,5beta,6beta)- (9 CI) **169-171, 767-769, 2717-2719, 2728, 2802, 3684-3699**

Cyclohexane, 1,2,3,4,5,6-hexachloro-, beta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2beta,3alpha,4beta,5alpha,6beta)- (9 CI) **770, 771, 3700-3704**

Cyclohexane, 1,2,3,4,5,6-hexachloro-, delta- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha,3alpha,4beta,5alpha,6beta)- (9 CI) **772**

Cyclohexane, 1,2,3,4,5,6-hexachloro-, gamma- (8 CI); Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha,2alpha,3beta,4alpha,5alpha,6beta)- (9 CI) **3705-3736**

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,8,9,9a-hexahydro-9a-hydroxy-4-methoxy- **3737-3741**

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,9a-tetrahydro-9a-hydroxy-4-methoxy-, (6aR-cis)- **774-779, 3742-3756**

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6aalpha,8,9,9aalpha-hexahydro-4-methoxy- (8 CI); Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,8,9,9a-hexahydro-4-methoxy-, (6aR-cis)- (9 CI) **3757-3761**

Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6aalpha,9aalpha-tetrahydro-4-methoxy- (8 CI) Cyclopenta(c)furo(3',2':4,5)furo(2,3-h)(1)benzopyran-1,11-dione, 2,3,6a,9a-tetrahydro-4-methoxy-, (6aR-cis)- (9 CI) **780-792, 1912, 3762-3774**

Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methylpropenyl)-, (5-benzyl-3-furyl)methyl ester (8 CI); Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, (5-(phenylmethyl)-3-furanyl)methyl ester (9 CI) **3775-3788**

Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (3-phenoxyphenyl)methyl ester **1913, 3789**

Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(3-phenoxyphenyl) methyl ester **1914**

DDT, total (No postings in CHEMLINE). **196-201, 444-448, 793-808, 845-859, 1915-1934, 1959-1975, 2730-2736, 2800, 2895, 2928, 2929, 2934, 3035-3038, 3790-3876**

Dibenzo(b,e)(1,4)dioxin, heptachloro- **809, 810**

Dibenzo(b,e)(1,4)dioxin, hexachloro- **811, 812**

Dibenzo-p-dioxin, octachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, octachloro- (9 CI) **813, 814**

Dibenzo-p-dioxin, 2,3,7,8-tetrachloro- (8 CI); Dibenzo(b,e)(1,4)dioxin, 2,3,7,8-tetrachloro- (9 CI) **177-182, 815-820, 1935-1938, 3002-3018, 3877-3897**

Dibenzofuran, 2,3,7,8-tetrachloro- **3898-3902**

Distannoxane, hexabutyl- **3903-3907**

Dodecane **1939, 3020, 3908**

Dodecane, 1-cyclohexyl- (8 CI); Cyclohexane, dodecyl- (9 CI) **821-826**

Eicosane **1940, 3029, 3909**

Erythromycin **3910**

Estr-4-en-3-one, 17-hydroxy-7,17-dimethyl-, (7alpha,17beta)- **1941-1947**

Estra-4,9,11-trien-3-one, 17beta-hydroxy- (8 CI); Estra-4,9,11-trien-3-one, 17-hydroxy-, (17beta)- (9 CI) **3911-3914**

Estradiol (8 CI); Estra-1,3,5(10)-triene-3,17-diol, (17beta)- (9 CI) **3915**

Estrogens, conjugated (No postings in CHEMLINE). **3916**

Ethane, hexachloro- **3917**

Ethane, 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2-dichloro-1-(4-chlorophenyl)ethyl)- (9 CI) **183-185**

Ethane, 1,1-dichloro-2,2-bis(p-chlorphenyl)- (8 CI); Benzene, 1,1'-(2,2-dichloroethylidene)bis(4-chloro- (9 CI) **186-195, 827-841, 1948-1958, 2935, 3918-3959**

Ethane, 1,1,1-trichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)- (8 CI); Benzene, 1-chloro-2-(2,2,2-trichloro-1-(4-chlorophenyl)ethyl)- (9 CI) **3960**

Ethane, 1,1,1-trichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene)bis (4-chloro- (9 CI) **3961-3967**

Ethane, 1,1,1-trichloro-2,2-bis(p-methoxyphenyl)- (8 CI); Benzene, 1,1'-(2,2,2-trichloroethylidene) bis(4-methoxy- (9 CI) **3968, 3969**

Ethylene, tetrachloro- (8 CI); Ethene, tetrachloro- (9 CI) **1976-1983**

Ethylene, trichloro- (8 CI); Ethene, trichloro- (9 CI) **1984-1992**

Ethylene, 1,1-dichloro-2,2-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(dichloroethenylidene)bis(4-chloro- (9 CI) **202-209, 211-216, 860-901, 1993-2039, 2706-2709, 2720, 2752, 2894, 2912-2916, 2936, 3970-4122**

Ethylene, 2-chloro-1,1-bis(p-chlorophenyl)- (8 CI); Benzene, 1,1'-(chloroethenylidene)bis(4-chloro- (9 CI) **4123-4139**

Ethylenediamine, dihydriodide (8 CI); 1,2-Ethanediamine, dihydriodide (9 CI) **4140**

Eulan WA New **4141-4146**

Fluorene (8 CI); 9H-Fluorene (9 CI) **2040**

Fluoride **3043, 4147-4159**

Fluorine **217, 218**

Gallium **902, 903**

Gentamicin **904-906, 4160-4163**

Heptadecane **2041-2047, 3024, 4164**

Hexachlorocyclohexane, total (No postings in CHEMLINE). **4165-4179**

Hexadecane **2048-2053, 3023, 4180**

Hexadecane, 2,6,10,14-tetramethyl- **2054, 3027, 4181**

Hydroxybiphenyl (No postings in CHEMLINE). **4182**

Hydroxyfluorene (No postings in CHEMLINE). **4183**

Imidazo(2,1-b)thiazole, 2,3,5,6-tetrahydro-6-phenyl, (S)- **4184-4187**

Iodine **219-222, 4188-4191**

Iodine, isotope of mass 125 **4192**

Iodine, isotope of mass 129 **4193**

Iodine, isotope of mass 131 **4194**

Iron **223-225, 907-921, 2055-2079, 2640-2642, 2818-2822, 2882-2885, 3046, 4195-4258**

Iron, isotope of mass 55 **4259-4262**

Ivermectin **2744-2751**

Lanthanum **4263**

Lead **226-276, 922-1028, 2080-2156, 2631-2633, 2810-2814, 2838-2842, 2871, 2877, 2907, 2908, 2991, 2992, 2999, 4264-4429**

Lead, isotope of mass 210 **277, 278, 4430-4435**

Lithium **4436-4442**

m-Toluidine, N-benzyl-N-ethyl- (8 CI); Benzenemethanamine, N-ethyl-N-(3-methylphenyl)- (9 CI) **2157**

Magnesium **2868, 3049, 4443-4477**

Manganese **279-284, 1029-1042, 2158-2178, 2817, 2828-2832, 2869, 4478-4535**

Mercury **285-338, 1043-1135, 2179-2264, 2628-2630, 2652-2667, 2701-2705, 2762, 2764-2796, 2874, 2909-2911, 2930-2933, 2939, 2945-2987, 3000, 3001, 4536-4714**

Mercury chloride **4715**

Mercury(1+), methyl-, ion (8 CI); Mercury(1+), methyl- (9 CI) **339-356, 1136-1154, 2265-2271, 4716-4728**

Methanaminium, 1-carboxy-N,N,N-trimethyl-, chloride **4729**

Methane, bromodichloro- **2272, 2273**

Methionine, DL- (8 CI); DL-Methionine (9 CI) **1155**

Methionine, L- (8 CI); L-Methionine (9 CI) **4730**

Methylnaphthalenemethanol (No postings in CHEMLINE). **4731**

Molybdenum **357-370, 2274-2277, 4732**

Morphinan-3,6alpha-diol, 7,8-didehydro-4,5alpha-epoxy-17-methyl- (8 CI); Morphinan-3,6-diol, 7, 8-didehydro-4,5-epoxy-17-methyl- (5alpha,6alpha)- (9 CI) **4733, 4734**

Morphinan-6alpha-ol, 4,5alpha-epoxy-3-methoxy-17-methyl- (8 CI); Morphinan-6-ol, 4,5-epoxy-3-methoxy-17-methyl-, (5alpha,6alpha)- (9 CI) **4735**

n-Alkanes (No postings in CHEMLINE). **4736-4741**

Naphthalene **1156-1180, 2278-2290, 3030, 4742-4752**

Naphthalene, decahydro-, trans- **2291**

Naphthalene, methyl- **2292**

Naphthalene, 1,2,3,4-tetrahydro- **2293**

Naphthalene, 1,3,5-trimethyl- **2294**

Naphthalene, 1,5-dimethyl- **2295**

Naphthalene, 2-ethyl- **2296**

Naphthol (8 CI); Naphthalenol (9 CI) **4753**

Nickel **371-381, 1181-1200, 2297-2320, 2649-2651, 2853-2856, 2870, 4754-4799**

Nitrite **4800**

Nitrogen **4801, 4802**

Nonadecane **2321-2326, 3028, 4803**

Nonane, 1-cyclohexyl- (8 CI); Cyclohexane, nonyl- (9 CI) **2327**

Octadecane **2328-2333, 3026, 4804**

Octane, 1-cyclohexyl- (8 CI); Cyclohexane, octyl- (9 CI) **2334**

Octanohydroxamic acid (8 CI); Octanamide, N-hydroxy- (9 CI) **382-396**

Organosiloxanes (No postings in CHEMLINE). **4805-4807**

p-Toluidine, alpha,alpha,alpha-trifluoro-2,6-dinitro-N,N-dipropyl- (8 CI); Benzenamine, 2,6-dinitro-N,N-dipropyl-4-(trifluoromethyl)- (9 CI) **2335-2349**

Pentadecane **2350-2355, 3022, 4808**

Pentadecane, 2,6,10,14-tetramethyl- **2356, 3025, 4809**

Phenanthrene **2357-2366, 4810-4813**

Phenanthrenecarboxaldehyde (No postings in CHEMLINE). **4814**

Phenanthrenol **4815**

Phenol **2367, 2368, 4816-4818**

Phenol, pentachloro- **397-400, 1201-1203, 2369-2378, 2806, 2922-2925, 4819-4824**

Phenol, 2-amino-4,6-dinitro- **4825-4836**

Phenol, 2,2'-methylenebis(3,4,6-trichloro- **401-404**

Phenol, 2,4,6-trichloro- **4837**

Phosphonic acid, methyl-, diisopropyl ester (8 CI); Phosphonic acid, methyl-, bis(1-methylethyl) ester (9 CI) **1204, 1205**

Phosphonodithioic acid, ethyl-, O-ethyl S-phenyl ester **2379-2383**

Phosphoramidic acid, methyl-, 4-tert-butyl-2-chlorophenyl methyl ester (8 CI); Phosphoramidic acid, methyl-, 2-chloro-4-(1,1-dimethylethyl)phenyl methyl ester (9 CI) **1206**

Phosphoramidothioic acid, acetyl-, O,S-dimethyl ester **2384, 2385, 4838-4848**

Phosphoramidothioic acid, O,S-dimethyl ester **4849-4858**

Phosphoric acid, dimethyl ester, ester with 3-hydroxy-N,N-dimethylcrotonamide, (E)- (8 CI) ; Phosphoric acid, 3-(dimethylamino)-1-methyl-3-oxo-1-propenyl dimethyl ester, (E)- (9 CI) **4859**

Phosphorodithioic acid, O,O-dimethyl ester, S-ester with N-(mercaptomethyl)phthalimide (8 CI); Phosphorodithioic acid, S-((1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl) O,O-dimethyl ester (9 CI) **4860, 4861**

Phosphorodithioic acid, S-((tert-butylthio)methyl) O,O-diethyl ester (8 CI); Phosphorodithioic acid, S-(((1,1-dimethylethyl)thio)methyl) O,O-diethyl ester (9 CI) **4862-4864**

Phosphorothioic acid, O,O-diethyl, O-(2-isopropyl-6-methyl-4-pyrimidinyl ester (8 CI); Phosphorothioic acid, O,O-diethyl O-(6-methyl-2-(1-methylethyl)-4-pyrimidinyl) ester (9 CI) **4865**

Phosphorothioic acid, O,O-dimethyl O-(p-nitrophenyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(4-nitrophenyl) ester (9 CI) **4866**

Phosphorothioic acid, O,O-dimethyl O-(4-methylthio)-m-tolyl ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-(methylthio)phenyl) ester (9 CI) **405**

Phosphorothioic acid, O,O-dimethyl O-(4-nitro-m-tolyl) ester (8 CI); Phosphorothioic acid, O,O-dimethyl O-(3-methyl-4-nitrophenyl) ester (9 CI) **1207-1210, 4867-4876**

Phosphorus **3050, 4877-4908**

Phosphorus, isotope of mass 32 **4909-4912**

Phthalic acid, bis(2-ethylhexyl) ester (8 CI); 1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester (9 CI) **1211-1214, 2805, 4913, 4914**

Phthalic acid, dibutyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dibutyl ester (9 CI) **1215-1217, 2804, 4915**

Phthalic acid, dimethyl ester (8 CI); 1,2-Benzenedicarboxylic acid, dimethyl ester (9 CI) **1218, 1219**

Picric acid (8 CI); Phenol, 2,4,6-trinitro **4916-4927**

Plutonium **4928, 4929**

Plutonium, isotope of mass 239 **4930-4936**

Podocarp-7-en-15-oic acid, 13beta-methyl-13-vinyl-, (-)- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI) **4937**

Podocarp-8(14)-en-15-oic acid, 13alpha-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a,-dodecahydro-1,4a,7-trimethyl-, (1R-(1alpha,4abeta,4balpha, 7beta,10aalpha))- (9 CI) **4938**

Podocarp-8(14)-en-15-oic acid, 13beta-methyl-13-vinyl- (8 CI); 1-Phenanthrenecarboxylic acid, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,10a-dodecahydro-1,4a,7-trimethyl-, (1R-(1alpha,4abeta,4balpha, 7alpha,10aalpha))- (9 CI) **4939**

Podocarpa-7,13-dien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4, 4a,4b,5,6,10,10a-decahydro-1,4a-dimethyl-7-(1-methylethyl-)-, (1R-(1alpha,4abeta,4balpha, 10aalpha))- (9 CI) **4940**

Podocarpa-8,11,13-trien-15-oic acid, 13-isopropyl- (8 CI); 1-Phenanthrenecarboxylic acid, 1,2,3,4, 4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-, (1R-(1alpha,4abeta,10aalpha))- (9 CI) **4941**

Polonium, isotope of mass 210 **406, 407, 4942, 4943**

Polybrominated biphenyls (No postings in CHEMLINE). **1220-1228, 4944**

Polychlorinated dibenzo-p-dioxin (No postings in CHEMLINE). **4945-4949**

Polychlorinated dibenzofurans (No postings in CHEMLINE). **1229, 1230, 4950-4956**

Polychlorinated naphthalenes (No postings in CHEMLINE). **1231-1239, 4957-4965**

Polychloro-2-(chloromethylsulphonamido)-diphenyl ether (No postings in CHEMLINE). **4966-4992**

Polychloro-2-aminodiphenyl ether (No postings in CHEMLINE). **4993-5019**

Polydimethylsiloxane (No postings in CHEMLINE). **5020**

Potassium **5021-5050**

Pregna-1,4-diene-3,20-dione, 11beta,17,21-trihydroxy- (8 CI); Pregna-1,4-diene-3,20-dione, 11,17, 21-trihydroxy-, (11beta)- (9 CI) **5051-5053**

Progesterone (8 CI); Pregn-4-ene-3,20-dione (9 CI) **5054, 5055**

Propionanilide, 3',4'-dichloro- (8 CI); Propanamide, N-(3,4-dichlorophenyl)- (9 CI) **5056**

Propionic acid (8 CI); Propanoic acid (9 CI) **5057**

Propionic acid, 3-nitro- (8 CI); Propanoic acid, 3-nitro- (9 CI) **5058, 5059**

Pyrene **408-413**

Pyrene, methyl- **414-419**

Pyridine, 4-amino- (8 CI); 4-Pyridinamine (9 CI) **1240-1253, 5060**

Quinidine (8 CI); Cinchonan-9-ol, 6'-methoxy-, (9S)- (9 CI) **1254**

Radium, isotope of mass 226 **420-422**

Relaxin **5061**

Retinol, acetate, all-trans- (8 CI); Retinol, acetate (9 CI) **5062, 5063**

Rubidium **5064**

s-Triazine, 2-chloro-4-(ethylamino)-6-(isopropylamino)- (8 CI); 1,3,5-Triazine-2,4-diamine, 6-chloro-N-ethyl-N'-(1-methylethyl)- (9 CI) **5065-5072**

Samarium **5073**

Scandium **5074**

Selenium **423-431, 1255-1300, 2386-2401, 2668-2687, 3044, 5075-5134**

Selenium, isotope of mass 75 **5135**

Silicon **1301**

Silver **432-435, 1302, 1303, 2402, 5136**

Sodium **5137-5153**

Sodium, ion (Na(1+)) **5154-5161**

Somatotropin **5162**

Streptomycin, dihydro- (8 CI); D-Streptamine, O-2-deoxy-2-(methylamino)-alpha-L-glucopyranosyl-(1,2)-O-5-deoxy-3-C-(hydroxymet hyl)-alpha-L-lyxofuranosyl-(1-4)-N,N'-bis (aminoiminomethyl)- (9 CI) **5163, 5164**

Strobane **5165**

Strontium **2403, 2404, 5166-5173**

Strontium, isotope of mass 90 **5174, 5175**

Sulfanilamide, N(1)-(4,6-dimethyl-2-pyrimidinyl)- (8 CI); Benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)- (9 CI) **436-440, 1304-1319, 2405-2410, 2902-2906**

Sulfone, p-chlorophenyl methyl (8 CI); Benzene, 1-chloro-4-(methylsulfonyl)- (9 CI) **5176-5185**

Tellurium **1320, 1321, 2411-2414**

Terphenyl, chlorinated **5186-5198**

Tetradecane **2415-2420, 3021, 5199**

Thallium **1322, 1323**

Thiocyanic acid, ion(1-) (8 CI); Thiocyanate (9 CI) **1324**

Thorium **2692-2695, 5200-5204**

Thorium, isotope of mass 230 **441-443**

Tin **1325, 1326, 2421-2425, 5205**

Titanium **2426, 2427**

Tocopherol **2428-2431**

Toluene (8 CI); Benzene, methyl- (9 CI) **2432-2449**

Toluene, 3,4-dichloro-alpha,alpha,alpha-trifluoro- (8 CI); Benzene, 1,2-dichloro-4-(trifluoromethyl)- (9 CI) **5206**

Toxaphene **449-452, 1327-1334, 2450-2452, 5207-5232**

Trichothec-9-en-8-one, 12,13-epoxy-3,7,15-trihydroxy-, (3alpha,7alpha)- **5233**

Triclosan methyl (No postings in CHEMLINE). **5234-5239**

Tridecane **2453, 3019, 5240**

Uranium **453-456, 2688-2691, 5241-5247**

Urea, 3-(3,4-dichlorophenyl)-1,1-dimethyl- (8 CI); Urea, N'-(3,4-dichlorophenyl)-N,N-dimethyl- (9 CI) **457, 458**

Vanadium **1335-1359, 2454-2462, 5248-5253**

Vitamin A **2808, 2809, 5254-5257**

Zinc **459-489, 1360-1404, 2463-2525, 2646-2648, 2815, 2823-2827, 2872, 2886-2889, 3048, 5258-5447**

1-Naphthylamine (8 CI); 1-Naphthalenamine (9 CI) **2526, 2527**

1-Propanol, 3-nitro- **5448, 5449**

1,1'-Biphenyl, 2,2',3,4,4',5,5'-heptabromo- **5450**

1,1'-Biphenyl, 2,2',4,4',5,5'-hexabromo- **5451**

1,1'-Biphenyl, 2,2',4,4',5,5'-hexachloro- **5452-5459**

1,1'-Biphenyl, 2,2',4,5'-tetrachloro- **5460-5473**

1,1'-Biphenyl, 2,2',5,5'-tetrachloro- **5474-5481**

1,2,4,5-Tetrabromobenzene (No postings in CHEMLINE). **5482**

1,3-Butadiene, 1,1,2,3,4,4-hexachloro- **5483**

1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b-undecachlorooctahydro- **1405, 2528-2545**

1,3,4-Metheno-1H-cyclobuta(cd)pentalene, 1,1a,2,2,3,3a,4,5,5,5a,5b,6-dodecachlorooctahydro- **490-508, 1406-1412, 2546, 5484-5542**

1,3,4-Metheno-2H-cyclobuta(cd)pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro- **509-514, 2988-2990, 5543-5546**

1,3,5-Triazine-2,4(1H,3H)-dione, 3-cyclohexyl-6-(dimethylamino)-1-methyl- **2547-2549**

1,3,5-Tribromobenzene (No postings in CHEMLINE). **5547**

1,4-Dichloronaphthalene (No postings in CHEMLINE). **5548**

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,exo- (8 CI) 1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1alpha, 4alpha,4abeta,5alpha,8alpha,8abeta)- (9 CI) **2550, 5549-5563**

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,endo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a, 7,7a-octahydro-, (1aalpha,2beta,2abeta,3alpha,6alpha,6abeta,7beta,7aalpha)- (9 CI) **1413-1422, 2551-2560, 5564-5585**

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-, endo,exo- (8 CI) 2,7:3,6-Dimethanonaphth(2,3-b)oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7, 7a-octahydro-, (1aalpha,2beta,2aalpha,3beta,6beta,6aalpha,7beta,7aalpha)- (9 CI) **515-520, 1423-1441, 2561-2597, 2926, 2927, 2937, 5586-5678**

1H,12H-Furo(3',2':4,5)furo(2,3-h)pyrano(3,4-c)(1)benzopyran-1,12-dione, 3,4,7a,10a-tetrahydro-5-methoxy-, (7aR-cis)- **1442, 1443**

2-Naphthacenecarboxamide, 4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,5,6,10,12,12a-hexahydroxy-6-m ethyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5alpha,5aalpha,6beta,12aalpha))- **5679-5708**

2-Naphthacenecarboxamide, 7-chloro-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10, 12,12a-pentahyd roxy-6-methyl-1,11-dioxo- (8 CI) 2-Naphthacenecarboxamide, 7-chloro-4-(dimethylamino)-1,4,4a,5,5a,6,11,12a-octahydro-3,6,10,12,12a-pentahyd roxy-6-methyl-1,11-dioxo-, (4S-(4alpha,4aalpha,5aalpha,6beta,12aalpha))- (9 CI) **2598**

2-Oxazolidinone, 3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 3-(((5-nitro-2-furanyl) methylene)amino)- (9 CI) **5709, 5710**

2-Oxazolidinone, 5-(morpholinomethyl)-3-((5-nitrofurfurylidene)amino)- (8 CI); 2-Oxazolidinone, 5-(4-morpholinylmethyl)-3-(((5-nitro-2-furanyl)methylene)amino)- (9 CI) **5711-5720**

2-Picolinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-, chloride (8 CI); Pyridinium, 1-((4-amino-2-propyl-5-pyrimidinyl)methyl)-2-methyl-, chloride (9 CI) **5721, 5722**

2-Propenamide **5723**

2,3,4-Trichloroanisole (No postings in CHEMLINE). **5724**

2,4-Dichlorodiphenyl ether (No postings in CHEMLINE). **5725**

2,4,5-Trichlorotoluene (No postings in CHEMLINE). **5726**

2,4,6,2',4'-Pentachlorobiphenyl (No postings in CHEMLINE). **5727**

2H-1-Benzopyran-2-one, 3-(3-(4'-bromo(1,1'-biphenyl)-4-yl)-1,2,3,4-tetrahydro-1-naphthalenyl)-4-hydroxy - **5728**

4-Chlorophenyl methyl sulfide (No postings in CHEMLINE). **5729-5740**

4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido) -, compd. with 2-(diethylamino)ethyl p-aminobenzoate (1:1), monohydrate (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alpha,6beta))-, compd. with 2-(diethylamino)ethyl 4-aminobenzoate (1:1), monohydrate (9 CI) **5741, 5742**

4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-(2-phenylacetamido)-, monopotassium salt (8 CI); 4-Thia-1-azabicyclo(3.2.0)heptane-2-carboxylic acid, 3,3-dimethyl-7-oxo-6-((phenylacetyl)amino)-(2S-(2alpha,5alpha,6beta))-, monopotassium salt (9 CI) **5743**

4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta, 3alpha,3aalpha,4beta,7beta,7aalpha)- **521-524, 1444-1450, 2599-2601, 2759, 5744-5747**

4,7-Methanoindan, 1,2,4,5,6,7,8,8-octachloro-1,2-epoxy-3a,4,7,7a-tetrahydro- (8 CI) 2,5-Methano-2H-indeno(1,2-b)oxirene, 1a,2,3,4,5,6a,7,7-octachloro-1a,1b,5,5a,6,6a-hexahydro- (9 CI) **525-527, 1451-1457, 2602-2607, 2755, 2756, 5748-5754**

4,7-Methanoindan, 1,4,5,6,7,8,8-heptachloro-2,3-epoxy-3a,4,7,7a-tetrahydro- (8 CI); 2,5-Methano-2H-indeno(1,2-b)oxirene, 2,3,4,5,6,7,7-heptachloro-1a,1b,5,5a,6,6a-hexahydro-, (1aalpha,1bbeta, 2alpha,5alpha,5abeta,6beta,6aalpha)- (9 CI) **528, 1458-1468, 2608-2621, 2753, 2754, 5755-5805**

4,7-Methanoindan, 1alpha,2alpha,3alpha,4beta,5,6,7beta,8,8-nonachloro-3aalpha,4,7,7-aalpha-tetrahy dro- (8 CI) 4,7-Methano-1H-indene, 1,2,3,4,5,6,7,8,8-nonachloro-2,3,3a,4,7,7a-hexahydro-(1alpha,2alpha,3alpha,3aalp ha,4beta,7aalpha- (9 CI) **529, 1469-1477, 2622, 2623, 2760, 5806-5810**

4,7-Methanoindan, 1alpha,2alpha,4beta,5,6,7beta,8,8-octachloro-3aalpha,4,7,7aalpha-tetrahydro (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2alpha, 3aalpha,4beta,7beta,7aalpha)- (9 CI) **530, 531, 1478-1504, 2624, 5811-5814**

4,7-Methanoindan, 1beta,2alpha,4alpha,5,6,7alpha,8,8-octachloro-3abeta,4,7,7abeta-tetrahydro- (8 CI) 4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-, (1alpha,2beta, 3aalpha,4beta,7beta,7aalpha)- (9 CI) **1505-1511**

4,7-Methanoindene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro- (9 CI) **532, 1512, 1513, 5815-5821**

4,7-Methanoindene, 3a,4,7,7a-tetrahydro- (8 CI); 4,7-Methano-1H-indene, 3a,4,7,7a-tetrahydro- (9 CI) **1514, 1515**

5-Heptenoic acid, 7-(3,5-dihydroxy-2-(3-hydroxy-1-octenyl)cyclopentyl)- (8 CI); Prosta-5,13-dien-1-oic acid, 9,11,15-trihydroxy-, (5Z,9alpha,11alpha,13E,15S)- (9 CI) **5822**

5-Norbornene-2,3-dimethanol, 1,4,5,6,7,7-hexachloro-, cyclic sulfite (8 CI); 6,9-Methano-2,4,3-benzodioxathiepan, 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-, 3-oxide (9 CI) **2625-2627, 5823**

5-Thia-1-azabicyclo(4.2.0)oct-2-ene-2-carboxylic acid, 3-((acetyloxy)methyl)-7-(((2-amino-4-thiazolyl)(methoxyimino)acetyl)amino)-8-oxo -, (6R-trans)- **5824**

9-Hydroxyfluorene (No postings in CHEMLINE). **5825**

9,10-Secocholesta-5,7,10(19)-triene-3beta,25-diol (8 CI); 9,10-Secocholesta-5,7,10(19)-triene-3,25-diol, (3beta,5Z,7E)- (9 CI) **5826**

Acetamide, 2,2-dichloro-N-(beta-hydroxy-alpha-(hydroxymethyl)-p-nitrophenethyl)-, D-threo-(-)-, (8 CI); Acetamide, 2,2-dichloro-N-(2-hydroxy-1-(hydroxymethyl)-2-(4-nitrophenyl)ethyl)-,(R-(R*,R*)) - (9 CI)
56-75-7
C11-H12-Cl2-N2-O5
MW 323.14, MP 150.5-151.5 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2628 Blood, serum	10 Injection	a) 0 ug/ml b) 1.93+/-0.13-6.72+/-0.12 ug/ml c) 3.10+/-0.11-8.55+/-0.19 ug/ml	a) Not applicable b) Not applicable c) Not applicable	a) Controls, 2 cases b) 20 mg/kg, 4 cases c) 60 mg/kg, 4 cases 1-6 wk, daily dose for 6 wk. Significant decrease in weight gain with high dose. Kenya Spectrometry
BLOOD SERUM; CATTLE; TERRESTRIAL; KENYA; JUVENILES; DELIBERATE EXPOSURE; INFECTION; ANTIBIOTICS; DRUGS; DRUG THERAPY; BIOACCUMULATION				
Mitema, E.S.; Musewe, V.O. 1984 British Veterinary Journal 140:437-443				

Tissue	Cases Exposure Route	Range	Mean	General Information
2629 Blood, serum	4 Injection	a) Not given b) Not given c) Not given	a) 80.5+/-20.6-5 ug/ml b) 11.0+/-1.0-2 ug/ml c) 7.0+/-1.4-2 ug/ml S.E.	a) 2 min and 8 hr after IV b) 2.5+/-0.6 and 12 hr after IM c) 3.8+/-0.8 and 12 hr after SC 25 *mg/kg dose (in propylene glycol)* to 4 mo old Holstein calves, mean wt 79.0+/-5.3 kg. Crossover study. Trough levels after repeated 12 hr doses (separate study of 4 d old calves) consistently >15 ug/ml. Additional studies of age effects on pharmacokinetics, toxicity, and antipyrine elimination. Reduced elimination rates in newborn compared with older calves. Transient weakness, intravascular hemolysis, respiratory changes Bioassay; Colorimetry
BLOOD SERUM; TERRESTRIAL; DELIBERATE EXPOSURE; AGE; ANTIBIOTICS; DRUGS; METABOLISM; CATTLE				
Burrows, G.E.; Tyler, R.D.; Craigmill, A.L.; Barto, P.B. 1984 American Journal of Veterinary Research 45(8):1586-1591				

Acetanilide, 4'-(2-hydroxy-3-(isopropylamino)propoxy)- (8 CI); Acetamide, N-(4-(2-hydroxy-3-((1-methylethyl)amino)propoxy)phenyl)- (9 CI)
6673-35-4
C14-H22-N2-O3
MW 264.32, MP 134-136 C

Goat
CAPRA HIRCUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2630 Urine	7 Ingestion	a) Not detected-49.0 ppm b) Not detected-9.8 ppm c) Not detected-151 ppm d) Not detected-11.6 ppm e) Not detected-1838 ppm	a) 7.2+/-1.4 ppm b) 0.9+/-0.3 ppm c) 19.1+/-5.6 ppm d) 1.2+/-0.4 ppm e) Not given S.E.	a) Acute single-dose 200 mg/kg body wt, 2 hr post-treatment b) 7 hr post-treatment c) 24 hr d) 48 hr 70% recovery from whole blood. Values estimated from graph. California, Davis No clinical evidence of poisoning in kids or 5.0 mg/kg/d group. With higher doses, some miosis, tachycardia, diarrhea, hypersalivation, muscle fasiculation, sternal recumbancy, depression, dyspnea. Recovery, acute single-dose, by 48 hr. None detected in milk. GC/MS
URINE; BLOOD; IMIDAN; INSECTICIDES; PESTICIDE RESIDUES; ORGANOPHOSPHATES; GOATS; POISONING; METABOLITES; CALIFORNIA; TERRESTRIAL; DELIBERATE EXPOSURE Mount, M.E. 1984 Toxicology and Applied Pharmacology 72:236-244				

Acetic acid, (2,4-dichlorophenoxy)-
94-75-7
C8-H6-Cl2-O3
MW 221.04, MP 138 C, BP 160 C at 0.4 mm Hg

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2631 Bile	Injection	a) Not given b) Not given c) Not given d) Not given	a) 185+/-19 nmol/mL b) 120+/-23 nmol/mL c) 0.91+/-0.24 nmol/mL d) 0.43 nmol/mL	a) 20 hr after 10 mg/kg, 0.77% of dose b) 92 hr after treatment with 10 mg/kg c) 20 hr after 0.1 mg/kg, 0.77+/-0.02% of dose d) 92 hr after 0.1 mg/kg, 0.59+/-0.03% of dose Not detectable in liver, fat, muscle, or plasma. Washington Scintillation counting
2632 Urine	3 Injection	Not given	10.5 nmol/mL	Peak at 3 hr after treatment with 0.1 mg/kg. Estimated from graph. Washington Scintillation counting
BILE; URINE; AQUATIC; DELIBERATE EXPOSURE; AGRICULTURE; FISHES; PESTICIDE RESIDUES; HERBICIDES; METABOLISM; WATER POLLUTION; BIOACCUMULATION Carpenter, L.A.; Eaton, D.L. 1983 Archives of Environmental Contamination and Toxicology 12:169-173				

Acetic acid, trichloro-

76-03-9
C2-H-Cl3-O2
MW 163.40, MP 57-58 C, BP 196-197 C

Trout, brook
SALVELINUS FONTINALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2633 Liver	1 Ingestion	Not applicable	28.4 ng/g	After 2nd application. South Basin, previously iced-over, average depth 15 m. Aerial spraying May-June 1977. Mean wt 235.1 g, length 27.3 cm. Canada, Quebec, Lac Ste-Anne GC-flame ionization detector

FISHES; BIOACCUMULATION; INSECTICIDES; ORGANOPHOSPHATES; LIVER; MUSCLES; INTESTINES; OVARIES; CANADA; ADIPOSE TISSUE; PESTICIDE RESIDUES; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Holmes, S.B.; Kingsbury, P.D.; Mamarbachi, G.; Mathieu, P. 1984 Bulletin of Envivonmental Contamination and Toxicology 33:468-475

Aluminum

7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Beaver
CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2634 Intestine	4 Ingestion	Not given	11.9+/-5.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2635 Kidney	4 Ingestion	Not given	2.9+/-1.7 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2636 Liver	4 Ingestion	Not given	3.7+/-0.9 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2637 Muscle	4 Ingestion	Not given	4.6+/-2.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING

Wren, C.D. 1984 Science of the Total Environment 34:177-184

Aluminum

7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Cod, pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2638 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.239+/-0.142 ug/g b) 0.182+/-0.099 ug/g c) 0.035+/-0.024 ug/g d) 0.199+/-0.117 ug/g e) 0.265+/-0.151 ug/g f) 0.261+/-0.123 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Low level. No significant differences e), f) in distribution of element. Pacific Ocean, northeast ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Mackerel, Atka
PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2639 Muscle	20 Ingestion	Not given	0.110+/-0.142 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2640 Intestine	4 Ingestion	Not given	2.6+/-1.3 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2641 Kidney	4 Ingestion	Not given	2.4+/-1.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

(next page)

Aluminum

7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Otter
LUTRA CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2642 Liver	4 Ingestion	Not given	1.2+/-0.3 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2643 Muscle	4 Ingestion	Not given	4.2+/-1.6 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING

Wren, C.D. 1984 Science of the Total Environment 34:177-184

Pollock, walleye
THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2644 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.175+/-0.138 ug/g b) 0.177+/-0.157 ug/g c) 0.041+/-0.046 ug/g d) 0.135+/-0.116 ug/g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g d) Overall mean, combined sites Considered low levels. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2645 Muscle	24 Ingestion	Not given	0.060+/-0.047 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean, northeast ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Aluminum

7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
2646 Kidney	4 Ingestion	Not given	1.8+/-0.5 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2647 Liver	4 Ingestion	Not given	1.1+/-0.3 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
2648 Muscle	4 Ingestion	Not given	3.2+/-1.2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2649 Muscle	13 Ingestion	Not given	0.137+/-0.065 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
2650 Alimentary canal	Ingestion	a) Not given b) Not given	a) 67.9+/-5.2 ug/g b) 101+/-22 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS

(next page)

Aluminum
7429-90-5
Al
AtW 26.98154,MP 660 C,BP 2327 C,VP 1mm Hg at 1540 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2651 Fat body	Ingestion	a) Not given b) Not given	a) 36.3+/-8.6 ug/g b) 41.3+/-11.3 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2652 Gonads	Ingestion	a) Not given b) Not given	a) 41.8 ug/g b) 59.4 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2653 Head	Ingestion	a) Not given b) Not given	a) 27.6+/-5.4 ug/g b) 46.2+/-3.7 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2654 Integument	Ingestion	a) Not given b) Not given	a) 19.6+/-4.1 ug/g b) 41.3+/-28.4 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2655 Malpighian tubes	Ingestion	a) Not given b) Not given	a) 45.2+/-11.6 ug/g b) 27.4+/-4.8 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
2656 Silk gland	Ingestion	a) Not given b) Not given	a) 26.4+/-6.4 ug/g b) 31.1+/-9.8 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS

(next page)

Aluminum
7429-90-5
Al
AtW 26.98154,MP 660 C,BP 2327 C,VP 1mm Hg at 1540 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2657 Trachea	Ingestion	a) Not given b) Not given	a) 31.7+/-4.0 ug/g b) 38.9+/-6.0 ug/g Dry wt	a) Controls b) Treatment After diet containing no (controls), or 80 ug Cd/g wet wt, fed from hatching until 6th day of 5th instar. Japan AAS
SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253				

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2658 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.203+/-0.231 ug/g b) 0.045+/-0.105 ug/g c) 0.354+/-0.266 ug/g d) 0.198+/-0.210 ug/g Wet wt	a) Caught near Newport, OR, 29 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Aluminum
7429-90-5
Al
AtW 26.98154,MP 660 C,BP 2327 C,VP 1mm Hg at 1540 C

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2659 Gills	a) 2 b) 4 c) 4 d) 3 e) 2 f) 3 g) 4	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 61 ug/g b) 1582 ug/g c) 673 ug/g d) 2197 ug/g e) 406 ug/g f) 1275 ug/g g) 3505 ug/g Dry wt	a) Esgair Garn (south), 6.4 pH, 11 u eq Al/l b) Nant y Craflwyn, 4.9 pH, 50 u eq Al/l c) Nant Cwmbys, 4.8 pH, 24 u eq Al/l d) Trawsnant, 5.3 pH, 37 u eq Al/l e) Camddwr, 5.3 pH, 14 u eq Al/l f) Tywi, 4.6 pH, 24 u eq Al/l g) Nant y Fannog, 4.4 pH, 57 u eq Al/l Both a) and e) drain unafforested watersheds, b)-d) and f)-g) drain afforested watersheds Positive correlation between mortality rate and gill Al concentration ($r=0.96$, $p<0.05$). Wales, Tywi River catchment AAS

GILLS; AQUATIC; BENTHOS; FISHES; PH; ALUMINUM; SURFACE WATER; ACIDIC DEPOSITION; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; WATER POLLUTION

Stoner, J.H.; Gee, A.S.; Wade, K.R. 1984 Environmental Pollution (Series A) 35:125-157

Aluminum
7429-90-5
Al
AtW 26.98154, MP 660 C, BP 2327 C, VP 1 mm Hg at 1540 C

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2660 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.102+/-0.154 ug/g b) 0.173+/-0.138 ug/g	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Americium, isotope of mass 241
14596-10-2
Am
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2661 Milk		0.0003-0.0018 Bq/l	Not given	Americium-241. Collected around Sellafield Works (nuclear reprocessing plant) and nearby Ravenglass Estuary. United Kingdom, West Cumbria
MILK; TERRESTRIAL; CATTLE; LACTATION; RADIONUCLIDES; WATER POLLUTION; STRONTIUM; CESIUM; PLUTONIUM; RABBITS Curtis, E.J.C.; Bradford, W.R.; Popplewell, D.S. 1984 Science of the Total Environment 35:267-283				

Ammonia

7664-41-7
H3-N
MW 17.03, MP -77.7 C, BP -33.35 C, VP 10 atm at 25.7 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2662 Blood, plasma		a) 127.9+/-20.9-168.9+/-18.4 ug b) 131.5+/-30.3-160+/-44.0 ug c) 189.8+/-30.0-238.0+/-17.5 ug d) 186.9+/-23.5-258.6+/-30.2 ug /dl S.E.	a) Not given b) Not given c) Not given d) Not given	a) 6 sows (controls) 86d pregnancy-14 d lactation, fed semi-purified diet with 63 mg/kg Zn, 2 kg/d during pregnancy, ad libitum during lactation b) 6 sows (low Zn), 13 mg/kg Zn, same regime c) Piglets of control sows, birth-14 d d) Piglets of low Zn sows, birth-14 d Purebred Landrace sows, 29-41 mo old, multipara, wt 198-267 kg. Farrowing induced d 114. No wt difference between controls and low Zn sows. No differences in levels between controls and others. In piglets, NH4 decreased with age. Ranges of means.

BLOOD PLASMA; MILK; TERRESTRIAL; DELIBERATE EXPOSURE; ADULTS; NEWBORN; ZINC; COPPER; IRON; AMMONIA; ANIMAL FEEDS; DIETS; LACTATION; PREGNANCY

Kalinowski, J.; Chavez, E.R. 1984 Canadian Journal of Animal Science 64:749-758

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)

1825-21-4
C7-H3-Cl5-O
MW 280.35

Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2663 Body	1	Not applicable	0.5 ppb *Wet wt*	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Osaka GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)
1825-21-4
C7-H3-Cl5-O
MW 280.35

Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2664 Body	1	Not applicable	0.1 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Aichi GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2665 Body	1	Not applicable	0.2 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2666 Body	a) 1 b) 1 c) 1	a) Not applicable b) Not applicable c) Not applicable	a) 1.2 ppb b) 0.5 ppb c) 0.1 ppb Wet wt	a) Osaka b) Tottori c) Ekime Collected offshore 10/81 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,3,4,5,6-pentachloro- (8 CI); Benzene, pentachloromethoxy- (9 CI)
1825-21-4
C7-H3-Cl5-O
MW 280.35
Mussel
MYTILUS EDULIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2667 Body	a) 1 b) 1	a) Not applicable b) Not applicable	a) 10.7 ppb b) 0.2 ppb Wet wt	a) Osaka b) Wakayama Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2668 Body	a) 2 b) 1	a) 1.6-3.9 ppb wet wt b) Not applicable	a) 2.8 ppb b) 0.2 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)
21702-84-1
C7-H6-Br2-O
Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2669 Body	1	Not applicable	1.0 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.5 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4-dibromo- (8 CI); Benzene, 2,4-dibromo-1-methoxy- (9 CI)
21702-84-1
C7-H6-Br2-O
Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2670 Body	1	Not applicable	0.6 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.5 ppb. Japan, Kagawa GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2671 Body	2	0.6-1.3 ppb Wet wt	0.95 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.5 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)
607-99-8
C7-H5-Br3-O
Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2672 Body	1	Not applicable	0.4 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Osaka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)
607-99-8
C7-H5-Br3-O

Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2673 Body	1	Not applicable	0.3 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Toltori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mackerel, horse
TRACHURUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2674 Body	1	Not applicable	0.1 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2675 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 0.5 ppb b) 1.2 ppb c) 0.5 ppb d) 0.2 ppb Wet wt	a) Osaka b) Totlori c) Ekime d) Kagawa Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Anisole, 2,4,6-tribromo- (8 CI); Benzene, 1,3,5-tribromo-2-methoxy- (9 CI)
607-09-8
C7-H5-Br3-O

Mussel
MYTILUS EDULIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2676 Body	a) 1 b) 1 c) 1	a) Not applicable b) Not applicable c) Not applicable	a) 0.6 ppb b) 0.3 ppb c) 0.1 ppb Wet wt	a) Osaka b) Wakayama c) Ekime Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2677 Body	a) 2 b) 1	a) 1.5-5.4 ppb wet wt b) Not applicable	a) 3.5 ppb b) 0.1 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Anthracene

120-12-7
C14-H10
MW 178.22, MP 218 C, BP 342 C, VP 1 mm Hg at 145.0 C (sublimes)

Bluegill
LEPOMIS MACHROCHIRUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2678 Body	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 2,389+/-275 ng/g b) 457+/-182 ng/g c) 7763+/-1325 ng/g Wet wt	a) 4 hr, reach 1 b) 4 hr, reach 5 c) 24 hr, reach 5 Time exposed to 12.2 ug/L nominal concentration. Georgia, Millen; South Carolina, Orangeburg Death HPLC
MOLLUSKS; FISHES; BODY; AQUATIC; DELIBERATE EXPOSURE; POLYCYCLIC AROMATIC HYDROCARBONS; POISONING Landrum, P.F.; Bartell, S.M.; Giesy, J.P.; Leversee, G.J.; Bowling, J.W. Haddock, J.; LaGory, K.; Gerould, S.; Bruno, M. 1984 Ecotoxicology and Environmental Safety 8:183-201				

Clam, papershell
ANODONTA IMBECILLIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2679 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 300 ng/g b) 4,200 ng/g c) 6,800 ng/g d) 8,400 ng/g e) 12,300 ng/g f) 17,000 ng/g Dry wt	a) 6 hr b) 24 hr c) 48 hr d) 96 hr e) 168 hr f) 336 hr Time exposed to 12.2 ug/L nominal concentration. Estimated from graph. South Carolina, Aiken, Savannah River Plant Death at about 336 hr. HPLC
MOLLUSKS; FISHES; BODY; AQUATIC; DELIBERATE EXPOSURE; POLYCYCLIC AROMATIC HYDROCARBONS; POISONING Landrum, P.F.; Bartell, S.M.; Giesy, J.P.; Leversee, G.J.; Bowling, J.W. Haddock, J.; LaGory, K.; Gerould, S.; Bruno, M. 1984 Ecotoxicology and Environmental Safety 8:183-201				

Anthracenecarboxaldehyde

31671-77-9
C15-H10-O

Sole, English
PAROPHRYS VETULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2680 Bile	1	Not applicable	2700 ng/g Wet wt	Levels significantly higher than in fish from unpolluted Meadow Point area. Washington, Duwamish Waterway GC/MS
BILE; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; WASHINGTON; LIVER DISEASES; NEOPLASMS; MEASUREMENT METHODS; BIPHENYL COMPOUNDS; POLYCYCLIC AROMATIC HYDROCARBONS; BIOACCUMULATION; METABOLITES; URBAN AREAS; WATER POLLUTION Krahn, M.M.; Myers, M.S.; Burrows, D.G.; Malins, D.C. 1984 Xenobiotica 14:633-646				

Anthranilic acid, 4-chloro-N-furfuryl-5-sulfamoyl- (8 CI); Benzoic acid, 5-(aminosulfonyl)-4-chloro-2-((2-furanylmethyl)amino)- (9 CI)
54-31-9
C12-H11-Cl-N2-O5-S
MW 330.77, MP 206 C

Swine
SUS SCROFA

Tissue	Cases Exposure Route	Range	Mean	General Information
2681 Urine	a) 1 b) 1 c) 1 d) 1 e) 1 Injection Ingestion	a) 31.3-0 mg/l b) 122.2-1.74 mg/l c) 57.6-0.64 mg/l d) 40-0.14 mg/l e) 32.7-0.05 mg/l	a) Not given b) Not given c) Not given d) Not given e) Not given	a) Collections at 12 and 96 hr after 0.45 mg/kg (Lasix) IM. 62% total dose (corrected for recovery and glucuronide formation) excreted in 72 hr b) 12 and 96 hr after 0.91 mg/kg. Dose repeated at 3 hr. 43% total dose excreted in 96 hr c) 12 and 120 hr after 0.45 mg/kg. 76% excreted in 120 hr d) 12 and 120 hr after 0.23 mg/kg. 89% excreted in 120 hr e) 24 and 120 hr after 0.45 mg/kg oral. 23% excreted in 120 hr Bulk eliminated by 24 hr. Poorly absorbed from GI tract. About 12% excreted as glucuronide conjugate. Crossbreed barrows, wt 91-107 kg HPLC
URINE; TERRESTRIAL; DELIBERATE EXPOSURE; DIURETICS; DRUG ABUSE; DRUGS Ray, A.C.; Tanksley, T.D.; LaRue, D.C.; Reagor, J.C. 1984 American Journal of Veterinary Research 45(7):1460-1463				

Anthraquinone (8 CI); 9,10-Anthracenedione (9 CI)
84-65-1
C14-H8-O2
208.20 MW 208.20, MP 286 C, BP 377 C at 760 mm Hg, VP 1 mm Hg at 190 C

Sole, English
PAROPHRYS VETULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2682 Bile	1	Not applicable	4800 ng/g Wet wt	Levels significantly higher than in fish from unpolluted Meadow Point area. Washington, Duwamish Waterway GC/MS
BILE; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; WASHINGTON; LIVER DISEASES; NEOPLASMS; MEASUREMENT METHODS; BIPHENYL COMPOUNDS; POLYCYCLIC AROMATIC HYDROCARBONS; BIOACCUMULATION; METABOLITES; URBAN AREAS; WATER POLLUTION Krahn, M.M.; Myers, M.S.; Burrows, D.G.; Malins, D.C. 1984 Xenobiotica 14:633-646				

Antimony
7440-36-0
Sb
AtW 121.75, MP 630 C, BP 1635 C, VP 1 mm Hg at 886 C, 10 mm Hg at 960 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2683 Hair	Ingestion	Not given	0.005 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA

CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS

Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142

Arochlor 1242 (No postings in CHEMLINE).
53469-21-9
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Chironomid
GLYPTOTENDIPES BARBIPES STAEGER

Tissue	Cases Exposure Route	Range	Mean	General Information
2684 Body	Ingestion, Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 0.75+/-0.05 ug/g b) 13.2+/-0.5 ug/g c) 19.5+/-0.5 ug/g d) 0.15+/-0.05 ug/g e) 3.5+/-0.5 ug/g f) 5.4+/-0.5 ug/g g) 0.10+/-0.05 ug/g h) 2.0+/-0.5 ug/g i) 2.9+/-0.5 ug/g Wet wt	a) 0.01 ppm, 0% mineral oil b) 0.1 ppm, 0% oil c) 1.0 ppm, 0% oil d) 0.01, 0.25% oil e) 0.1 ppm, 0.25% oil f) 1.0 ppm, 0.25% oil g) 0.01 ppm, 1.0% oil h) 0.1 ppm, 1.0% oil i) 1.0 ppm, 1.0% oil. 2nd instar midges from sewage treatment plant sludge lagoon, treated with Aroclor/ mineral oil substrate for 30 d. Bioconcentration of Aroclor, oil contamination reduced bioavailability. Michigan, Ann Arbor GC-EC

CHIRONOMIDS; POLYCHLORINATED BIPHENYLS; BIOCONCENTRATION; MINERAL OILS; MICHIGAN; BODY; BIOAVAILABILITY; FOOD CONTAMINATION; WATER POLLUTION; ENVIRONMENTAL EXPOSURE; SEWAGE

Meier, P.G.; Rediske, R.R. 1984 Bulletin of Environmental Contamination and Toxicology 33:225-232

Arochlor 1254
11097-69-1
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2685 Adipose	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 18.1 ug/g b) 0.65 ug/g c) 130.6 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Samples from fetuses (age 8-9 mo, wt 23-34 kg) removed from cows after 130 treatment days Mothers, crossbred (Hereford X Simmental) beef cows, more than 6 mo from parturition before treatment GC-EC
2686 Liver	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 4.7 ug/g b) 3.6 ug/g c) 54.1 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Samples from fetuses (age 8-9 mo, wt 23-34 kg) removed from cows after 130 treatment days Mothers, crossbred (Hereford X Simmental) beef cows, more than 6 mo from parturition before treatment GC-EC
2687 Milk	a) 1 b) 1 c) 1	a) Not applicable b) Not applicable c) Not applicable	a) 8.5 ug/g b) 0.54 ug/g c) 96.4 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Colostrum, 1 day after parturition. 130 exposure days. Crossbred (Hereford X Simmental) beef cows GC-EC
2688 Thyroid gland	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 19.4 ug/g b) 2.3 ug/g c) 121.1 ug/g	a) Contaminated silage b) Clean silage c) Clean silage + 200 mg Arochlor 1254/day Samples from fetuses (age 8-9 mo, wt 23-34 kg) removed from cows after 130 treatment days Mothers, crossbred (Hereford X Simmental) beef cows, more than 6 mo from parturition before treatment GC-EC

CATTLE; BIOACCUMULATION; PREGNANCY; POLYCHLORINATED BIPHENYLS; ADIPOSE TISSUE; LIVER; MILK; THYROID GLANDS; INDIANA; ADULTS; FETUS

Perry, T.W.; Everson, R.J.; Hendrix, K.S.; Peterson, R.C.; Robinson, F.R. 1983 Trace Substances in Environmental Health-XVI. Proceedings of the Annual Conference on Trace Substances in Environmental Health held at the University of Missouri, Columbia, Missouri, May 31-June 3, 1982

Arochlor 1260
11096-82-5
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2689 Adipose	a) 1 b) 1 c) 1 Oral Transplacental	a) Not given b) 15-0.8 ppm c) 21-1 ppm	a) 14 ppm b) Not given c) Not given	a) Exposed in utero, died of respiratory failure after delivery b) Mother, not exposed during elimination period of 669 d c) Substitute calf, exposed thru nursing from b) Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2690 Brain	1 Transplacental	Not given	0.1 ppm	Exposed in utero, died of respiratory failure 10 min postpartum. Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2691 Kidney	1 Transplacental	Not given	0.3 ppm	Exposed in utero, died of respiratory failure 10 min postpartum. Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2692 Liver	1 Transplacental	Not given	0.4 ppm	Exposed in utero, died of respiratory failure 10 min postpartum. Mother had licked waste oil from leaking container that had been in the pasture several years. North Dakota GC
2693 Milk	1 Oral	9-4 ppm	Not given	Heifer exposed by licking waste oil from leaking container that had been in pasture several years. No exposure during 265 d nursing period. North Dakota GC
ADIPOSE TISSUE; BRAIN; LIVER; KIDNEYS; MILK; CATTLE; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; IOWA; POLYCHLORINATED BIPHENYLS; ACCIDENTAL POISONING; AGRICULTURE; INDUSTRIAL POLLUTION; TRANSPLACENTAL TRANSFER; LAND POLLUTION Peterson, L.A.; Ross, P.F.; Osheim, D.L.; Nelson, H.A. 1983 Bulletin of Environmental Contamination and Toxicology 31:263-266				

Turtle, snapping
CHELHYDRA SERPENTINA

Tissue	Cases Exposure Route	Range	Mean	General Information
2694 Adipose	a) 5 b) 4 c) 3 d) 2 e) 2 f) 1	a) 11.6-47.7 mg/kg b) 28.8-60.5 mg/kg c) 1.4-2.8 mg/kg d) Not applicable e) Not applicable f) Not applicable	a) 19.16 mg/kg b) 40.23 mg/kg c) 13.67 mg/kg d) 0.8 mg/kg e) <0.2 mg/kg f) 5.0 mg/kg	a) Mississippi River, St. Paul b) Mississippi River, Prairie Island c) Mississippi River, Lake City d) Reeds Lake, Waseca County e) Pomme de Terre River, Glenwood f) Silver Lake, Wright County 25-88% lipid. Length 5.5-15 in., wt 1.8-21.8 lb, estimated age 3->20 yr Minnesota

(next page)

Arochlor 1260
11096-82-5
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Turtle, snapping
CHELHYDRA SERPENTINA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2695 Muscle	a) 5 b) 4 c) 3 d) 2 e) 2 f) 1	a) <0.025-0.086 mg/kg b) <0.025-0.073 mg/kg c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) 0.041 mg/kg b) 0.042 mg/kg c) <0.025 mg/kg d) <0.025 mg/kg e) <0.025 mg/kg f) <0.025 mg/kg	a) Mississippi River, St. Paul b) Mississippi River, Prairie Island c) Mississippi River, Lake City d) Reeds Lake, Waseca County e) Pomme de Terre River, Glenwood f) Silver Lake, Wright County Red meat <0.05-0.68% lipid. Length 5.5-15 in., wt 1.8-21.8 lb, estimated age 3->20 yr Minnesota
TURTLES; CADMIUM; MERCURY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; ADIPOSE TISSUE; MUSCLES; MINNESOTA Helwig, D.D.; Hora, M.E. 1983 Bulletin of Environmental Contamination and Toxicology 30:186-190				

Aroclor 1016
12674-11-2
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Monkey, rhesus
MACACA MULATTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2696 Blood, serum	14 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.027+/-0.008 ppm b) 5.89+/-1.39 ppm c) 0.012+/-0.006 ppm d) 2.40+/-1.15 ppm	a) 7 adult females fed 1.0 ppm/d for 87+/-9 wk, whole serum b) Same 7, serum lipid c) 7 adult females fed 0.25 ppm/d for same period, whole serum d) Same 7, serum lipid Lipid levels higher than in milk (3.92 ppm) or fat (4.29 ppm). GC-EC
2697 Milk	24 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given n) Not given	a) 3.00+/-0.60 ppm b) 3.70+/-0.94 ppm c) 3.46+/-1.19 ppm d) 3.60+/-0.88 ppm e) 3.92+/-1.41 ppm f) 1.08+/-0.35 ppm g) 1.23+/-0.17 ppm h) 1.74+/-0.53 ppm i) 1.83+/-0.75 ppm j) 1.45+/-0.55 ppm k) 0.69+/-0.32 ppm l) 0.94 ppm m) 0.82+/-0.28 ppm n) 0.73+/-0.47 ppm	a) 8 adults nursing for 1 mo, fed 1.0 ppm/d for 87+/-9 wk b) 7 of same cases nursing 2 mo c) 8 adults from a) nursing 3 mo d) Same 8, 4 mo e) 7 of same cases, lipid fraction taken concomitantly with serum and fat lipids f) 8 adults nursing 1 mo, fed 0.25 ppm/d for 87+/-9 wk g) Same 8 nursing 2 mo h) Same 8, 3 mo i) Same 8, 4 mo j) Same 8, lipid fraction taken concomitantly with serum and fat lipids k) 8 adults (unexposed controls) nursing 1 mo l) Same 8, 2 mo m) Same 8, 3 mo n) Same 8, 4 mo. GC-EC

(next page)

Aroclor 1016

12674-11-2

EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Monkey, rhesus

MACACA MULATTA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2698 Skin	a) 8 b) 7 c) 2	a) Not given b) Not given c) 1.01-2.07 ppm	a) 3.37+/-0.76 ppm b) 1.65+/-0.84 ppm c) 1.54+/-0.75 ppm	a) 1.0 ppm b) 0.25 ppm c) 0 ppm Levels fed mothers daily for 87+/-9 wk. Means are levels in infants at birth. GC-EC
ADIPOSE TISSUE; BLOOD SERUM; SKIN; MILK; MONKEYS; TERRESTRIAL; DELIBERATE EXPOSURE; PENNSYLVANIA; WISCONSIN; ADULTS; INFANTS; NEWBORN; CHLORINATED HYDROCARBONS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; DIETS; LACTATION; *TRANSPLACENTAL TRANSFER* Barsotti, D.A.; Van Miller, J.P. 1984 Toxicology 30:31-44				

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Cattle

BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2699 Hair	Ingestion	Not given	0.19 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; *TRACE ELEMENTS* Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Tissue	Cases Exposure Route	Range	Mean	General Information
2700 Kidney	177	<0.02-0.20 mg/kg Wet wt	0.03+or-0.04 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 117 samples below detection limit. Australia, Queensland AAS
2701 Liver	179	<0.02-0.09 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 141 samples below detection limit. Australia, Queensland AAS

(next page)

Arsenic

7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2702 Muscle	181	<0.02-0.20 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 144 samples below detection limit. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2703 Body, whole	9	<0.1-0.36 ug/g Dry wt	<0.1 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. Positive correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS

BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY
Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2704 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) Data not available b) Not detected c) Not detected-1.00 ug/g d) 0.03-2.75 ug/g e) Not detected-3.34 ug/g Wet wt	a) Data not available b) Not detected c) 0.12 ug/g d) 0.51 ug/g e) 1.44 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. Maryland, Chesapeake Bay area, tributaries Colorimetry

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE
Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2705 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) Data not available b) Not detected c) Not detected-1.00 ug/g d) 0.03-2.75 ug/g e) Not detected-3.34 ug/g Wet wt	a) Data not available b) Not detected c) 0.12 ug/g d) 0.51 ug/g e) 1.44 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. Maryland, Chesapeake Bay area tributaries Colorimetry
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2706 Body	a) 8 b) 20 Ingestion	a) Not detected-0.47 ug/g b) Not detected-4.00 ug/g Wet wt	a) 0.15 ug/g b) 0.81 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. Maryland, Chesapeake Bay area tributaries Colorimetry
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Dab
LIMANDA LIMANDA

Tissue	Cases Exposure Route	Range	Mean	General Information
2707 Muscle	3	a) 2.4-12.5 mg/kg b) 2.0-11.0 mg/kg	a) 6.0 mg/kg b) 5.1 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Earthworm

PHERETIMA HILGENDORFI

Tissue	Cases Exposure Route	Range	Mean	General Information
2708 Body, whole	37	0.02-3.62 ug/wet g	1.72+/-1.09 ug/wet g	Accumulation is dependent upon age or exposure time. Correlations between metal concentrations and body length or weight were significantly positive. Body burdens increased linearly with increased body length throughout the whole life span. Japan, Matsuyama City, Tsubaki shrine Silver-diethyldithiocarbamate method

IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING

Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432

Flounder

PLATICHTHYS FLESUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2709 Muscle	3	a) 0.45-6.8 mg/kg b) 0.45-5.6 mg/kg	a) 3.7 mg/kg b) 3.0 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS

CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES

Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141

Goat

CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2710 Blood	2 Ingestion	a) Not applicable b) 3.3-18 ug/ml c) Not applicable	a) <0.01 ug/ml b) Not given c) 0.03 ug/ml	a) Initial level before treatment b) 1-28 d treatment period c) End 10 d elimination period, after treatment Estimated from graph. 10 mg As/Kg/d for 4 wk, given as Na-methanearsonate. Steady state 16 ug/ml after 25 d. Rapid linear decrease during elimination period. Iran AAS

GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION

Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Goat
CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2711 Blood, plasma	2 Ingestion	a) 1.2-1.0 ug/ml b) 78-96%	a) Not applicable b) Not applicable	a) 1-70 hr, peak (17.2 ug/ml) after 10 mg/kg, estimated from graph b) % clearance, 24-72 hr 10 mg/kg Administered as monosodium methanearsonate. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Tissue	Cases Exposure Route	Range	Mean	General Information
2712 Milk	a) 1 b) 2 Ingestion	a) 0-0.03 ppm b) 0-0.06 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, peak wk 3 5 wk loss of As. Range of means. 10 mg As/Kg/d for 4 wk, given as Na-methanearsonate. No signicant difference between treated and control. Iran AAS
GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64				

Tissue	Cases Exposure Route	Range	Mean	General Information
2713 Milk	2 Ingestion	a) 0.04-0.00 ppm b) 0.14-0.03 ppm	a) Not applicable b) Not applicable	a) Controls b) Treatment (0-24 hr)-(144-168 hr) after 10 mg/kg as monosodium methanearsonate. Not excreted in significant amounts. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Goat

CAPRA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2714 Urine	a) 1 b) 2 Ingestion	a) 0-0.04 ppm b) 0-218.5 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, 10 d elimination period after treatment, peak d 1 Excretion of As. Range of means. 10 mg As/Kg/d 4 wk, given as Na-methanearsonate. Iran AAS
GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64				

Tissue	Cases Exposure Route	Range	Mean	General Information
2715 Urine	2 Ingestion	50-93%	a) Not applicable b) Not applicable	% dose recovered 24-96 hr after 10 mg/kg as monosodium methanearsonate. Major route of excretion. 5% dose recovered in feces in 48 hr. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Honeybee

APIS MELLIFERA L.

Tissue	Cases Exposure Route	Range	Mean	General Information
2716 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) 0.77-0.79 ppm	a) Not given b) <0.1 ppm c) 0.27 ppm d) <0.1 ppm e) 0.17 ppm f) 0.89 ppm	a) Controls, 1st summer b) Controls, 2nd summer c) Water repellant, 1st summer d) Water repellant, 2nd summer e) Chromated copper arsenate (CCA), 1st summer f) CCA, 2nd summer Controls, untreated wood. Wood of beehives treated in 1980 to retentions of 4 kg/cu m (CCA) or 3-min dip (Forest Products Laboratory water repellant). 5 colonies /treatment. Wisconsin, Madison AAS
INSECTS; ARSENIC; COPPER; TIN; ANIMAL POPULATIONS; WOOD PRESERVATIVES; PENTACHLOROPHENOL; CHROMIUM; DELIBERATE EXPOSURE; BODY; TERRESTRIAL; PESTICIDES Kalnins, M.A.; Detroy, B.F. 1984 Journal of Agricultural and Food Chemistry 32(5):1176-1180				

Arsenic

7440-38-2

As

AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Oyster, American

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2717 Body	a) 104 b) 129 c) 95 d) 281 e) 376 Ingestion	a) Not detected b) Trace-0.93 ug/g c) Not detected-0.68 ug/g d) Not detected-1.87 ug/g e) Not detected-1.85 ug/g Wet wt	a) Data not available b) Trace c) 0.07 ug/g d) 0.26 ug/g e) 0.50 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Increases in As merit future study. Maryland, Chesapeake Bay area, tributaries Colorimetry
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Perch

PERCA FLUVIATILIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2718 Liver	a) 10 b) 10 c) 10 Ingestion	a) Not given b) Not given c) Not given	a) 3.3+/-0.5 ug/g b) 2.7+/-0.2 ug/g c) 3.1+/-0.3 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS
2719 Muscle	a) 11 b) 10 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 1.23+/-0.17 ug/g b) 0.83+/-0.07 ug/g c) 1.36+/-0.22 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS
LIVER; MUSCLES; FISHES; AQUATIC; DELIBERATE EXPOSURE; SWEDEN; METAL POISONING; ZINC; LEAD; COPPER; CADMIUM; MERCURY; ARSENIC; BIOACCUMULATION; INDUSTRIAL POLLUTION; WATER POLLUTION; ADULTS Larsson, A.; Haux, C.; Sjobeck, M.-L.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:118-128				

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Salmon, Coho
ONCORHYNCHUS KISUTCH

Tissue	Cases Exposure Route	Range	Mean	General Information
2720 Body	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) <0.4 ug/g b) <0.4 ug/g c) <0.4 ug/g d) <0.4 ug/g e) <0.4 ug/g Wet wt	a) Controls, 0 ug/l b) 10 ug/l c) 30 ug/l d) 100 ug/l e) 300 ug/l As trioxide, exposed for 6 mo, no accumulation. Washington AAS
BODY; FISHES; AQUATIC; DELIBERATE EXPOSURE; JUVENILES; METAL POISONING; WASHINGTON; ARSENIC; BIOACCUMULATION Nichols, J.W.; Wedemeyer, G.A.; Mayer, F.L.; Dickhoff, W.W.; Gregory, S.V.; Yasutake, W.T.; Smith, S.D. 1984 Environmental Toxicology and Chemistry 3:143-149				

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2721 Blood	2 Ingestion	a) Not applicable b) 8-29 ug/ml c) Not applicable	a) <0.01 ug/ml b) Not given c) 0.03 ug/ml	a) Initial level before treatment b) 1-28 d treatment period c) End 10 d elimination period, after treatment Estimated from graph. 10 mg As/kg/d for 4 wk, given as Na-methanearsonate. Steady state 24 ug/ml after 20 d. Rapid linear decrease during elimination period. Iran AAS
2722 Milk	a) 1 b) 2 Ingestion	a) 0-0.03 ppm b) 0-0.07 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, peak wk 3 5 wk loss of As. Range of means. 10 mg As/Kg/d for 4 wk, given as Na-methanearsonate. No significant difference between treated and control. Iran AAS
2723 Urine	a) 1 b) 2 Ingestion	a) 0-0.07 ppm b) 0-341.3 ppm	a) Not applicable b) Not applicable	a) Control b) Treated, 10 d elimination period after treatment, peak d 1 Excretion of As. Range of means, 10 mg As/kg/d 4 wk, given Na-methanearsonate. Iran AAS
GOATS; SHEEP; IRAN; BLOOD; URINE; MILK; HERBICIDES; ARSENIC; ARSENIC ORGANIC COMPOUNDS; TERRESTRIAL; PESTICIDE RESIDUES; DELIBERATE EXPOSURE; FOOD CONTAMINATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Science and Health B19(6):55-64				

Arsenic

7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Sheep, Iranian fat-tailed
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2724 Blood, plasma	2 Ingestion	a) 1.1-1.0 ug/ml b) 68-96%	a) Not applicable b) Not applicable	a) 1-70 hr, peak (14.5 ug/ml) 5 hr after 10 mg/kg, estimated from graph b) % clearance, 24-72 hr after 10 mg/kg Administered as monosodium methanearsonate. AAS
2725 Milk	2 Ingestion	a) 0.02-0.03 ppm b) 0.18-0.02 ppm	a) Not applicable b) Not applicable	a) Controls b) Treatment (0-24 hr)-(144-168 hr) after 10 mg/kg as monosodium methanearsonate. Not excreted in significant levels. AAS
2726 Urine	2 Ingestion	53-89%	Not applicable	% dose recovered 24-96 hr after 10 mg/kg as monosodium methanearsonate. Major route of excretion. 8% dose recovered in feces in 48 hr. AAS
BLOOD PLASMA; URINE; MILK; SHEEP; GOATS; TERRESTRIAL; DELIBERATE EXPOSURE; METAL POISONING; ARSENIC; ARSENIC ORGANIC COMPOUNDS; BIOACCUMULATION Shariatpanahi, M.; Anderson, A.C. 1984 Journal of Environmental Health and Science B19:427-439				

Shrimp
NEPHROPS NORVEGICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2727 Muscle	3	a) 11.5-13.0 mg/kg b) 9.2-10.8 mg/kg	a) 12.0 mg/kg b) 10.0 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES ; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Sole
SOLEA SOLEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2728 Muscle	3	a) 6.2-10.2 mg/kg b) 5.2-9.0 mg/kg	a) 8.0 mg/kg b) 6.3 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Arsenic
7440-38-2
As
AtW 74.9216, MP 817 C at 28 atm, BP 613 C (sublimes), VP 1 mm Hg at 380 C, 10 mm Hg at 440 C

Sole, lemon
MICROSTOMUS KITT

Tissue	Cases Exposure Route	Range	Mean	General Information
2729 Muscle	3	a) 24.9-31.4 mg/kg b) 19.0-21.2 mg/kg	a) 27.9 mg/kg b) 20.0 mg/kg	a) Total As b) Methyl-As after alkaline digestion/reduction Netherlands GC/MS
CRUSTACEANS; NETHERLANDS; MUSCLES; MEASUREMENT METHODS; ARSENIC; BIOACCUMULATION; FISHES Luten, J.B.; Riekwel-Booy, G.; Greef, J.v.d.; ten Noever de Brauw, M.C. 1983 Chemosphere 12(2):131-141				

Arsenic oxide [As2O3]
1327-53-3
As2-O3
MW 197.82, MP 313 C (claudetite), 275 C (arsenolite)

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2730 Blood	101 Dermal	Up to 6.7 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage
2731 Hair	101 Dermal	Up to 12 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage

(next page)

Arsenic oxide [As2O3]
1327-53-3
As2-O3
MW 197.82, MP 313 C (claudetite), 275 C (arsenolite)

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2732 Kidney	101 Dermal	Up to 23 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage
2733 Liver	101 Dermal	Up to 15 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage
2734 Urine	101 Dermal	Up to 45 mg/kg	Not given	67 g/adult and 17 g/calf applied topically by pouring along the backbone. Toxic dose is 33-55 mg/kg. Normal tissue levels <1 mg/kg. Arsenical concentrate stored in lousicide drum. Australia, Queensland Dark scour flecked with blood, bloody oral and nasal discharge, depression, stilted gait, death Mucosal and submucosal congestion and hemorrhage, subcutaneous edema and hemorrhage, congestion of renal medulla and glomerular capillaries, subendocardial hemorrhage

AUTOPSIES; CATTLE; TERRESTRIAL; ACCIDENTAL POISONING; DELIBERATE EXPOSURE; ARSENIC; LIVER; KIDNEYS; URINE; HAIR; BLOOD; PESTICIDES; PESTICIDE RESIDUES
Robertson, I.D.; Harms, W.E.; Ketterer, P.J. 1984 Australian Veterinary Journal 61(11):366-367

Asbestos
1332-21-4
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2735 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Barium
7440-39-3
Ba
AtW 137.34, MP 710 C (approx), BP 1600 C (approx), VP 10 mm Hg at 1049 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2736 Hair	Ingestion	Not given	6.3 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA

CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS

Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142

Cod, pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2737 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.010+/-0.008 ug/g b) 0.007+/-0.002 ug/g c) 0.022+/-0.007 ug/g d) 0.011+/-0.001 ug/g e) 0.010+/-0.007 ug/g f) 0.011+/-0.006 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Considered low level. No significant differences e), f) in distribution of element. Pacific Ocean, northeast ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Barium

7440-39-3

Ba

AtW 137.34, MP 710 C (approx), BP 1600 C (approx), VP 10 mm Hg at 1049 C

Mackerel, Atka

PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2738 Muscle	20 Ingestion	Not given	0.008+/-0.008 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Pollock, walleye

THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2739 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.019+/-0.008 ug/g b) 0.020+/-0.009 ug/g c) 0.024+/-0.005 ug/g d) 0.021+/-0.007 ug/g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g d) Overall mean, combined sites Considered low levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Pomfret

BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2740 Muscle	24 Ingestion	Not given	0.013+/-0.008 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Barium

7440-39-3

Ba

AtW 137.34, MP 710 C (approx), BP 1600 C (approx), VP 10 mm Hg at 1049 C

Shad, American

ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2741 Muscle	13 Ingestion	Not given	0.008+/-0.002 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g. Considered low level.. Pacific Ocean, northeast ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Sole, Dover

MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2742 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.007+/-0.007 ug/g b) 0.023+/-0.006 ug/g c) 0.015+/-0.006 ug/g d) 0.012+/-0.007 ug/g Wet wt	a) Caught near Newport, OR, 29 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Considered low level. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Whiting, Pacific

MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2743 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.009+/-0.008 ug/g b) 0.009+/-0.002 ug/g Wet wt	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Considered low level. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Benzamide, N-(((4-chlorophenyl)amino)carbonyl-2,6-difluoro-
35367-38-5
C14-H9-Cl-F2-N2-O2
MW 310.68, MP 210-230 C, 239 C

Chicken
GALLUS GALLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2744 Blood	12 Injection, Ingestion	a) 496-90 ppm b) 399-90 ppm c) 150-300 ppm d) 800-250 ppm	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 0.15-24 hr, peak (496 ppm) immediately after 1 mg/kg IV, 2 white leghorns b) 0.15-24 hr, peak (399 ppm) immediately after 1 mg/kg IV, 3 Rhode Island Red/Barred Plymouth Rocks c) 2-30 hr, peak (300 ppm) from 16-30 hr after 5 mg/kg oral, 3 white leghorns d) 2-36 hr, peak (800 ppm) 2 hr after 5 mg/kg oral, 3 Rhode Island Red/Barred Plymouth Rocks. Maryland Scintillation counting
2745 Eggs	a) 8 b) 8 Ingestion	a) 0.66+/-0.13-0.04+/-0.01 ppm b) 0.24+/-0.02-0.02+/-0.01 ppm	a) Not applicable b) Not applicable	a) 2-20 d, peak (3.46+/-0.50 ppm) on d 9 of 5 mg/kg/d for 11 d. White leghorn variety b) 2-20 d, peak (1.72+/-0.13 ppm) on d 9 of 5 mg/kg/d for 11 d. Rhode Island Red/Barred Plymouth Rock variety. Each time point a mean of 4-6 eggs. Maryland HPLC
BLOOD; EGGS; DELIBERATE EXPOSURE; MARYLAND; INSECTICIDES; ACCIDENTAL POISONING; BIOACCUMULATION; BIRDS; TERRESTRIAL Opdycke, J.C.; Menzer, R.E. 1984 Journal of Toxicology and Environmental Health 13:721-733				

Benzene, chloro-
108-90-7
C6-H5-Cl
MW 112.56, MP -45 C, BP 131.7 C, VP 10 mm Hg at 22.2 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2746 Body	a) 30 b) 30 c) 30 Ingestion	a) 4+/-1-8+/-4 ug/kg b) 60+/-10-76+/-11 ug/kg c) 1550+/-210-3430+/-450 ug/kg	a) Not applicable b) Not applicable c) Not applicable	a) Controls, 0-119 d, peak (22+/-6 ug/kg) 63 d, continual exposure to 19 ug/l b) 8-119 d, plateau during continual exposure to 115 ug/l c) 7-105 d, gradual increase during continual exposure to 2350 ug/l 5 time points/study, 6 fish/time point, accumulation did not affect differential red and white blood cell ratios. Canada AAS
BODY; FISHES; AQUATIC; DELIBERATE EXPOSURE; CANADA; METAL POISONING; CHLOROBENZENES; METHYL MERCURY COMPOUNDS; BIOACCUMULATION Niimi, A.J.; Lowe-Jinde, L. 1984 Archives of Environmental Contamination and Toxicology 13:303-311				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Auk, little
ALLE ALLE

Tissue	Cases Exposure Route	Range	Mean	General Information
2747 Adipose	7 Ingestion	Not given	0.40+/-0.08 ug/g Wet wt	Shot waterfowl. Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Body wt 170 g. Norway, Svalbard, Spitsbergen GC-EC
2748 Liver	9 Ingestion	Not given	0.014+/-0.004 ug/g Wet wt	Shot waterfowl. Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Body wt 170 g. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2749 Body	1	Not applicable	0.5 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Osaka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2750 Milk				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2751 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Clam

Tissue	Cases Exposure Route	Range	Mean	General Information
2752 Body		a) Not given b) Not given	a) <0.10 ng/g b) 0.64 ng/g	a) Site 1 b) Site 2 Collected 11/80. Pooled whole clams, mean sample wt 30 g Maine, Portland GC-EC

MAINE; BODY; DDT; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; PENTACHLOROPHENOL; PHTHALATES; BIOACCUMULATION; MOLLUSKS; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS

Ray, L.E.; Murray, H.E.; Giam, C.S. 1983 Chemosphere 12(7/8):1031-1038

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2753 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
2754 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Eagle, bald
HALIAEETUS LEUCOCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2755 Eggs	28	a) Not applicable b) 0.01-0.06 ppm c) 0.04-0.05 ppm d) 0.02-0.05 ppm e) Not applicable f) 0.02-0.10 ppm g) 0.01-0.26 ppm Fresh wet wt	a) 0.09 ppm b) 0.02 ppm c) 0.05 ppm d) 0.04 ppm e) 0.03 ppm f) 0.06 ppm g) 0.08 ppm Fresh wet wt	a) AK, 1976, 1 egg b) WI, 1976, 1978-79, 5 eggs c) OH, 1976, 2 eggs d) ME, 1974, 1976-79, 9 eggs e) DE, 1977, 1 egg f) MD, 1973, 1977, 3 eggs g) VA, 1976-77, 1979, 7 eggs Most often in ME and Chesapeake Bay area (20 of 44 eggs), rare elsewhere (8 of 79). GE-EC; GC-MS; Silica gel chrom.
EGGS; EAGLES; BIRDS; ENVIRONMENTAL EXPOSURE; ALASKA; ARIZONA; CALIFORNIA; DELAWARE; FLORIDA; LOUISIANA; MAINE; MARYLAND; MICHIGAN; MINNESOTA; NEW YORK; OHIO; OREGON; VIRGINIA; WISCONSIN; UNITED STATES; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; POPULATION EXPOSURE Wiemeyer, S.N.; Lamont, T.G.; Bunck, C.M.; Sindelar, C.R.; Gramlich, F.J.; Fraser, J.D.; Byrd, M.A. 1984 Archives of Environmental Contamination and Toxicology 13:529-549				

Eider
SOMATERIA MOLLISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2756 Adipose	8 Ingestion	Not given	0.13+/-0.02 ug/g Wet wt	Shot waterfowl. Diet of benthonic molluscs, above normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 2100 g. Norway, Svalbard, Spitsbergen GC-EC
2757 Liver	9 Ingestion	Not given	0.002+/-0.002 ug/g Wet wt	Shot waterfowl. Diet of benthonic molluscs, above normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 2100 g. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Fulmar
FULMARUS GLACIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2758 Adipose	7 Ingestion	Not given	1.7+/-0.4 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard; Spitsbergen GC-EC
2759 Liver	10 Ingestion	Not given	0.049+/-0.014 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard; Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2760 Body	1	Not applicable	0.3 ppb wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Tottori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
2761 Adipose	a) 135 b) 16 c) 29 Ingestion	a) 0.009-0.075 mg/kg b) Not detected-0.029 mg/kg c) 0.003-0.023 mg/g Wet wt	a) 0.038 mg/kg b) 0.012 mg/kg c) 0.009 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Grunt
PARAPRISTIPOMA TRILINEATUM

Tissue	Cases Exposure Route	Range	Mean	General Information
2762 Body	1	Not applicable	0.3 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Sanin GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Guillemot, Brunnich's
URIA LOMVIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2763 Liver	9 Ingestion	Not given	0.028+/-0.015 ug/g Wet wt	Shot waterfowl. Diet of fish, pelagic crustaceans. Lean nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen Disease found in one specimen GC-EC

LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS
Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Gull, glaucous
LARUS HYPERBOREUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2764 Adipose	6 Ingestion	Not given	1.9+/-1.1 ug/g Wet wt	Shot waterfowl. Omnivorous scavengers, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard, Spitsbergen GC-EC
2765 Liver	11 Ingestion	Not given	0.14+/-0.14 ug/g Wet wt	Shot waterfowl, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Gull, gluacous

Tissue	Cases Exposure Route	Range	Mean	General Information
2766 Adipose				
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2767 Body	1	Not applicable	0.5 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Heron, black-crowned night
NYCTICORAX NYCTICORAX

Tissue	Cases Exposure Route	Range	Mean	General Information
2768 Eggs	147	0.21-0.24 ppm	0.23 ppm Geometric mean	Collected between May 17 and June 1, 1979. Possible sources: nesting and feeding habitats, or migration routes and wintering grounds in Mexico. Colorado; Wyoming GC; EC
EGGS; BIRDS; ENVIRONMENTAL EXPOSURE; COLORADO; WYOMING; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; OXYCHLORDANE; NONACHLOR; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE; POLYCHLORINATED BIPHENYLS; ANIMAL POPULATIONS; BIOLOGICAL MONITORING; PESTICIDE RESIDUES; LAND POLLUTION; WATER POLLUTION; AQUATIC McEwen, L.C.; Stafford, C.J.; Hensler, G.L 1984 Environmental Toxicology and Chemistry 3:367-376				

Killifish
ORYZIAS LATIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
2769 Body	a) 84 b) 132 Ingestion	a) 50,000-50,000 ppb b) 3,000-2,000 ppb	a) Not applicable b) Not applicable	a) 1-60 d, plateau of 50,000 ppb during time course. Initial exposure, 16 g in 4 L acetone sprayed on pond. 14 data points, 6 fish/point b) 1-30 d, peak (30,000 ppb) on d 15. Constant exposure to 1.18+/-0.07 ppb for 15 d. 22 data points, 6 fish/point Ranges of means. Estimated from graph. Japan GC-EC
BODY; DELIBERATE EXPOSURE; JAPAN; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; HEXACHLOROBENZENE; PENTACHLOROPHENOL; WATER POLLUTION; INDUSTRIAL POLLUTION; BIOACCUMULATION; FISHES; ANIMAL POPULATIONS; PESTICIDE RESIDUES; AQUATIC Sugiura, K.; Aoki, M.; Kaneko, S.; Daisaku, I.; Komatsu, Y.; Shibuya, H.; Suzuki, H.; Goto, M. 1984 Archives of Environmental Contamination and Toxicology 13:745-758				

Loon, common
GAVIA IMMER

Tissue	Cases Exposure Route	Range	Mean	General Information
2770 Adipose	a) 11 b) 37	a) Not given b) Not given	a) 0.03 ug/g b) 1.41+/-4.16 ug/g Wet wt	a) Unknown condition, collected in 1969, 62.0+/-13.1% fat b) Collected in 1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2771 Brain	a) 11 b) 38 c) 1 d) 23	a) Not given b) Not given c) Not given d) Not given	a) <0.01 ug/g b) <0.01 ug/g c) 0.01 ug/g d) 0.01+/-0.02 ug/g Wet wt	a) Unknown condition, collected in 1969, 7.76+/-1.12% fat b) Healthy, collected in 1978-79, 6.16+/-0.59% fat c) Emaciated, collected in 1978-79, 7.13% fat d) Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Loon, common
GAVIA IMMER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2772 Embryos	a) 12 b) 19	a) Not given b) Not given	a) 0.01 ug/g b) 0.01 ug/g Wet wt	a) Collected in 1978 from Algonquin-Parry Sound b) In 1979-80 from same. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2773 Liver	37	Not given	0.03+/-0.05 ug/g Wet wt	Collected in 1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2774 Muscle	a) 21 b) 37	a) Not given b) Not given	a) <0.01 ug/g b) 0.06+/-0.18 ug/g Wet wt	a) Healthy condition, collected in 1978-79, 2.59+/-1.16% fat b) Collected in 1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

EGGS; BRAIN; ADIPOSE TISSUE; LIVER; MUSCLES; FEATHERS; INTESTINES; EMBRYOS; DDT; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; MERCURY; CHLORINE ORGANIC COMPOUNDS; PESTICIDES; PESTICIDE RESIDUES; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; LUNGS; GIZZARD; BLOOD; HEART; KIDNEYS

Frank, R.; Lumsden, H.; Barr, J.F.; Braun, H.E. 1983 Archives of Environmental Contamination and Toxicology 12:641-654

Mackerel
PNEUMATOPHORUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2775 Body	1	Not applicable	3.4 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Shizuoka GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Mackerel, horse
TRACHURUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2776 Body	1	Not applicable	0.3 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Merganser, red-breasted
MERGUS SERRATOR

Tissue	Cases Exposure Route	Range	Mean	General Information
2777 Eggs	a) 49 b) 49	a) Not applicable b) Not applicable	a) 0.06 ppm b) 0.07 ppm Wet wt Geometric means	a) Randomly selected b) Unhatched Collected 1977, pairs from same nests analyzed. Lake Michigan, northwestern islands GLC
EGGS; AQUATIC; BIRDS; WATERFOWL; ENVIRONMENTAL EXPOSURE; GREAT LAKES; BROMINATED HYDROCARBONS; CHLORINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; NONACHLOR; OXYCHLORDANE; PESTICIDES; POLYBROMINATED BIPHENYLS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION Haseltine, S.D.; Heinz, G.H.; Hensler, G.L.; Reichel, W.L. 1983 Environmental Pollution 32:211-232				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Mink
MUSTELA VISION

Tissue	Cases Exposure Route	Range	Mean	General Information
2778 Adipose	a) 6 b) 6 c) 6 Ingestion	a) Not given b) Not given c) Not given	a) 35.71 +or- 12.81 mg/g b) 94.59 +or- 17.30 mg/g c) 626.10 +or- 12.01 mg/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
2779 Brain	a) 6 b) 6 c) 6 Ingestion	Not detected Not detected Not given	a) Not applicable b) Not applicable c) 36.31 +or- 3.52 mg/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
2780 Kidney	a) 6 b) 6 c) 6 Ingestion	a) Not detected b) Not given c) Not given	a) Not applicable b) 4.18 +or- 0.98 ng/g c) 14.61 +or- 5.01 ng/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Mink
MUSTELA VISION

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2781 Liver	a) 6 b) 6 c) 6 Ingestion	Not detected Not detected Not given	a) Not applicable b) Not aplicable c) 36.71 +or- 13.48 ng/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
2782 Muscle	a) 6 b) 6 c) 6 Ingestion	a) Not detected b) Not given c) Not given	a) Not applicable b) 1.42 +or- 0.50 ng/g c) 8.45 +or- 0.75 ng/g	a) Controls b) 1 ppm c) 5 ppm Dietary levels of dams for 2 months before breeding with males on same treatment, and during gestation and lactation. Samples from young, age 16-17 wk. Standard dark mink 8%, 44%, and 77% mortality of controls, 1- and 5-ppm groups, respectively, prior to weaning. Induction of hepatic mixed-function oxidases. No significant hepatic or renal damage in surviving young. GC-EC
MINK; JUVENILES; BIOACCUMULATION; HEXACHLOROBENZENE; ADIPOSE TISSUE; BRAIN; KIDNEYS; LIVER; MUSCLES; MICHIGAN Rush, G.F.; Smith, J.H.; Maita, K.; Bleavins, M.; Aulerich, R.J.; Ringer, R.K.; Hook, J.B. 1983 Environmental Research 31:116-124				

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2783 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 3.8 ppb b) 0.4 ppb c) 2.0 ppb d) 1.0 ppb Wet wt	a) Osaka b) Tottori c) Ekime d) Kagawa Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2784 Adipose	a) 50 b) 28 c) 20 d) 7 Ingestion	a) Not detected-0.015 mg/kg b) 0.001-0.015 mg/kg c) 0.007-0.025 mg/kg d) 0.010-0.027 mg/kg Wet wt	a) 0.001 mg/kg b) 0.006 mg/kg c) 0.013 mg/kg d) 0.020 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Lake Wabamun, isolated area d) McGregor Lake Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Puffin
FRATERCULA ARCTICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2785 Brain	a) 10 b) 10 c) 10 Ingestion	a) 87-458 ng/g b) 81-631 ng/g c) 7-77 ng/g Fat wt	a) 266+/-115 ng/g b) 296+/-142 ng/g c) 38+/-23 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82 b) Chicks collected at Hernyken, Rost, 7/82 c) Chicks collected at Hernyken, Rost, 7/83. Norway GC
2786 Eggs	20 Ingestion	630-1493 ng/g Fat wt	986+/-217 ng/g Fat wt	Collected at Hernyken, Rost, during 5/83. Norway GC
2787 Liver	Ingestion	a) 292-8333 ng/g b) 92-1482 ng/g c) 185-2402 ng/g d) 15-225 ng/g e) 270-1269 ng/g f) 185-2402 ng/g g) 292-1864 ng/g h) 893-8333 ng/g Fat wt	a) 1604+/-1636 ng/g b) 665+/-425 ng/g c) 782+/-586 ng/g d) 37+/-17 ng/g e) 509+/-316 ng/g f) 934+/-768 ng/g g) 980+/-525 ng/g h) 2103+/-2028 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82, 19 cases b) Adults collected at Hornoy 7/82, 12 cases c) Rost, 7/82, chicks, 17 cases d) Rost, 7/83, chicks, 10 cases e) Rost, 1982, female chicks, 7 cases f) male chicks, 7 cases g) Rost, 1982, female adults, 8 cases h) Male adults, 11 cases. Norway GC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Puffin
FRATERCULA ARCTICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2788 Uropygial gland	19 Ingestion	a) 269-2403 ng/g b) 551-1890 ng/g c) 269-943 ng/g d) 1133-2403 ng/g Fat wt	a) 1047+/-596 ng/g b) 1354+/-901 ng/g c) 695+/-235 ng/g d) 1633+/-553 ng/g Fat wt	a) Collected at Hernyken, Rost, 7/82, 8 cases b) Collected at Hornoy, 7/82, 11 cases c) Females, collected at Hernyken, Rost, in 7/82, 5 cases d) Males, 3 cases. Norway GC

LIVER; BRAIN; UROPYGIAL GLAND; EGGS; WATERFOWL; AQUATIC; ENVIRONMENTAL EXPOSURE; NORWAY; ADULTS; JUVENILES; ALDRIN; DDE; HEXACHLOROBENZENE; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; DIELDRIN; PESTICIDES; BIOACCUMULATION; FOOD CONTAMINATION; WATER POLLUTION; INDUSTRIAL POLLUTION; PESTICIDE RESIDUES

Ingebrigtsen, K.; Skaare, J.U.; Teigen, S.W. 1984 Journal of Toxicology and Environmental Health 14:813-828

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
2789 Body	a) 2 b) 1	a) 0.9-1.2 ppb wet wt b) Not applicable	a) 1.1 ppb b) 0.5 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Sauger
STIZOSTEDION CANADENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
2790 Adipose	a) 23 b) 32 c) 27 Ingestion	a) 0.007-0.022 mg/kg b) Not detected-0.021 mg/kg c) 0.012-0.230 mg/kg Wet wt	a) 0.018 mg/kg b) 0.008 mg/kg c) 0.039 mg/kg Wet wt	a) Red Deer River, below city of Red Deer b) South Saskatchewan River c) Oldman River Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE

Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Saury, Pacific
COLOLABIS SAIRA

Tissue	Cases Exposure Route	Range	Mean	General Information
2791 Body	1	Not applicable	2.6 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Iwate GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Scorpionfish
SEBASTES INERMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2792 Body	1	Not applicable	0.3 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <0.1 ppb. Japan, Aomori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
2793 Adipose	15 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.04+/-0.03 mg/kg b) 0.04+/-0.04 mg/kg c) 0.05+/-0.03 mg/kg d) 0.04+/-0.04 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Males had slightly higher levels than females. Minimal accumulation. No significant differences with age, site or sex. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

(next page)

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2794 Brain	2 Ingestion	a) Not given b) Not given	a) 0.01+/-0.0 mg/kg b) 0.06+/-0.0 mg/kg	a) Tissue b) Extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Minimal accumulations. Small sample site. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
2795 Kidney	13 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) Not detected b) Not detected c) 0.27+/-0.30 mg/kg d) 0.05+/-0.13 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Extractable fat data showed some accumulation in juveniles. Small sample site. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
2796 Liver	8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.01+/-0.01 mg/kg b) Not detected c) 0.28+/-0.31 mg/kg d) Not detected	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Minimal accumulations. Sample site small. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
2797 Muscle	6 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.01+/-0.00 mg/kg b) Not detected c) 0.73+/-0.69 mg/kg d) Not detected	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Extractable fat data showed some accumulation in juveniles. Small sample site. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

SEALS; CHLORINE ORGANIC COMPOUNDS; ADIPOSE TISSUE; BLOOD; BRAIN; LIVER; KIDNEYS; MUSCLES; DDT; DIELDRIN; HEXACHLOROBENZENE; HEPTACHLOR EPOXIDE; ATLANTIC; ARCTIC; CANADA; BIOACCUMULATION; PESTICIDE RESIDUES; BIOLOGICAL MONITORING; AGE; GREENLAND; POLYCHLORINATED BIPHENYLS; SEX; METABOLITES; DDE; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:133-152

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2798 Kidney				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
2799 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Snake, water
NERODIA (NATRIX) RHOMBIFERA

Tissue	Cases Exposure Route	Range	Mean	General Information
2800 Adipose tissue	21	1.92-4.66 ppm	Not given	Thomas Point, Brusly and Belle Helene sites, collected between 1977 & 79. Residue detected in 21 of 21. Range of means. Louisiana, Mississippi River, near Baton Rouge GC-EC
2801 Liver	19	0.01-0.03 ppm	Not given	Brusly and Belle Helene sites, collected between 1977 & 79. Residue detected in 10 of 19. Range of means. Louisiana, Mississippi River, near Baton Rouge GC-EC
2802 Muscle	7	Not given	0.01 ppm	Belle Helene site, collected between 1977 & 79. Residue detected in 5 of 7. Louisiana, Mississippi River, near Baton Rouge GC-EC

ADIPOSE TISSUE; LIVER; MUSCLES; BODY; SNAKES; AQUATIC; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; LINDANE; ALDRIN; DIELDRIN; HEPTACHLOR EPOXIDE; HEXACHLOROBENZENE; DDT; DDE; DDE; POLYCHLORINATED BIPHENYLS; FISHES; AGRICULTURE; BIOMAGNIFICATION; BIOCONCENTRATION; PESTICIDE RESIDUES; WATER POLLUTION

Sabourin, T.D.; Stickle, W.B.; Michot, C.E.; Garton, D.W.; Mushinsky, H.R. 1984 Bulletin of Environmental Contamination and Toxicology 32:460-468

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Sucker, longnose
CATOSTOMUS CATOSTOMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2803 Adipose	54 Ingestion	Not detected-0.025 mg/kg Wet wt	0.018 mg/kg Wet wt	North Saskatchewan River below Edmonton Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
2804 Adipose	a) 40 b) 20 c) 16 d) 17 Ingestion	a) Not detected-0.020 mg/kg b) 0.002-0.009 mg/kg c) Not detected-0.006 mg/kg d) 0.004-0.019 Wet wt	a) 0.011 mg/kg b) 0.006 mg/kg c) 0.003 mg/kg d) 0.010 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Beaver River d) Lake Wabamun Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2805 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2806 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 2.3+/-0.2 ng/g b) 3.4+/-0.2 ng/g c) 2.7+/-0.9 ng/g d) 2.9+/-0.4 ng/g e) 4.5+/-0.8 ng/g f) 6.0+/-0.5 ng/g g) 13+/-0.8 ng/g h) 95+/-10 ng/g i) 160+/-29 ng/g j) 32.7 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 0.32+/-0.3 ng/L, day 8 e) Day 69 f) Day 119 g) 8.0+/-6.0 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g.
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291				

Walleye
STIZOSTEDION VITREUM VITREUM

Tissue	Cases Exposure Route	Range	Mean	General Information
2807 Adipose	a) 65 b) 21 c) 17 d) 23 Ingestion	a) Not detected-0.042 mg/kg b) 0.001-0.015 mg/kg c) Not detected-0.054 mg/kg d) 0.017-0.036 mg/kg Wet wt	a) 0.026 mg/kg b) 0.010 mg/kg c) 0.024 mg/kg d) 0.024 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River c) Bow River below Calgary d) St. Mary's River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Benzene, hexachloro-
118-74-1
C6-Cl6
MW 284.80, MP 231 C, BP 323-326 C, VP 1 mm Hg at 114.4 C

Whitefish, lake
COREGONUS CLUPEAFORMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2808 Adipose	a) 21 b) 19 c) 14 d) 25 Ingestion	a) Not detected-0.031 mg/kg b) 0.001-0.019 mg/kg c) Not detected-0.034 mg/kg d) 0.009-0.031 mg/kg Wet wt	a) 0.014 mg/kg b) 0.011 mg/kg c) 0.013 mg/kg d) 0.021 mg/kg Wet wt	a) Red Deer River below city of Red Deer b) Lake Newell c) McGregor Lake d) Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Whitefish, mountain
PROSOPIUM WILLIAMSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
2809 Adipose	60 Ingestion	Not detected-0.028 mg/kg Wet wt	0.001 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Whiting
GADUS MERLANGUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2810 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
2811 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Benzene, m-dibromo- (8 CI); Benzene, 1,3-dibromo- (9 CI)
108-36-1
C6-H4-Br2
MW 235.92, MP -7 C, BP 218 C

Trout, rainbow
SALMO GAIRNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2812 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 2.3+/-0.90 ng/g b) 3.6+/-0.66 ng/g c) 4.0+/-1.1 ng/g d) 3.5+/-0.5 ng/g e) 3.4+/-0.48 ng/g	a) Day 8 b) Day 21 c) Day 38 d) Day 58 e) Day 90 Days held in flow-through tanks to determine bioconcentration factor 5 chemicals tested at low levels in mixtures with minimal interactive effects Water level 5.4+/-0.72 ng/L. Canada, Ontario GC-EC

BODY; TROUT; AQUATIC; DELIBERATE EXPOSURE; ONTARIO; CANADA; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; BIOCONCENTRATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION

Oliver, B.G.; Niimi, A.J. 1984 Environmental Toxicology and Chemistry 3:271-277

Benzene, o-dichloro- (8 CI); Benzene, 1,2-dichloro- (9 CI)
95-50-1
C6-H4-Cl2
MW 147.0, MP -17.5 C, BP 180-183 C, VP 1 mm Hg at 20.0 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2813 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, o-dichloro- (8 Cl); Benzene, 1,2-dichloro- (9 Cl)
95-50-1
C6-H4-Cl2
MW 147.0, MP -17.5 C, BP 180-183 C, VP 1 mm Hg at 20.0 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2814 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 3.2+/-0.5 ng/g c) 2.9+/-1.5 ng/g d) 14+/-2.3 ng/g e) 12+/-3.8 ng/g f) 14+/-1.8 ng/g g) 390+/-66ng/g h) 630+/-190 ng/g i) 670+/-99ng/g j) <1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 47+/-17 ng/l, day 8 e) Day 69 f) Day 119 g) 940+/-160 ng/l, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, p-dichloro- (8 Cl); Benzene, 1,4-dichloro- (9 Cl)
106-46-7
C6-H4-Cl2
MW 147.01, MP 53 C, BP 174.12 C, VP 10 mm Hg at 54.8 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2815 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, p-dichloro- (8 CI); Benzene, 1,4-dichloro- (9 CI)
106-46-7
C6-H4-Cl2
MW 147.01, MP 53 C, BP 174.12 C, VP 10 mm Hg at 54.8 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2816 Muscle				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, pentachloro-
608-93-5
C6-H-Cl5
MW 250.34, MP 86 C, BP 277 C

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2817 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS
Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, pentachloro-
608-93-5
C6-H-Cl5
MW 250.34, MP 86 C, BP 277 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2818 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.46+/-0.18 ng/g b) 1.5+/-0.2 ng/g c) 0.9+/-0.4 ng/g d) 1.2+/-0.2 ng/g e) 4.1+/-0.7 ng/g f) 5.2+/-0.5 ng/g g) 34+/-2 ng/g h) 210+/-36 ng/g i) 220+/-25 ng/g j) 3.4 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 0.34+/-0.1 ng/L, day 8 e) Day 69 f) Day 119 g) 9.3+/-7.6 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291				

Benzene, 1,2,3-trichloro-
87-61-6
C6-H3-Cl3
MW 181.46, MP 52.6 C, BP 221 C, VP 1 mm Hg at 40 C

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2819 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Benzene, 1,2,3-trichloro-
87-61-6
C6-H3-Cl3
MW 181.46, MP 52.6 C, BP 221 C, VP 1 mm Hg at 40 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2820 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 2.2+/-0.4 ng/g c) 0.1+/-0.04 ng/g d) 4.8+/-0.8 ng/g e) 5.3+/-1.6 ng/g f) 5.3+/-0.8 ng/g g) 96+/-12 ng/g h) 210+/-61 ng/g i) 210+/-32 ng/g j) <0.1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 4.3+/-2 ng/L, day 8 e) Day 69 f) Day 119 g) 72+/-25 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,2,3,4-tetrachloro-
634-66-2
C6-H2-Cl4
MW 215.90, MP 47.5 C, BP 254 C at 760 mm Hg, VP 1 mm at 68.5 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2821 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, 1,2,3,4-tetrachloro-
634-66-2
C6-H2-Cl4
MW 215.90, MP 47.5 C, BP 254 C at 760 mm Hg, VP 1 mm at 68.5 C

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2822 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2823 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.23+/-0.7 ng/g b) 1.8+/-0.4 ng/g c) 1.0+/-0.4 ng/g d) 2.8+/-0.6 ng/g e) 7.7+/-2.0 ng/g f) 7.6+/-1.0 ng/g g) 79+/-6 ng/g h) 350+/-92 ng/g i) 320+/-40 ng/g j) 0.95 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 1.4+/-0.3 ng/L, day 8 e) Day 69 f) Day 119 g) 26+/-15 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niimi, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,2,3,5-tetrachloro-
634-90-2
C6-H2-Cl4
MW 215.90, MP 54.5 C, BP 246 C, VP 1 mm Hg at 58.2 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2824 Body				Review. Information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2825 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Benzene, 1,2,4-tribromo-
615-54-3
C6-H3-Br3
MW 314.82, MP 44-45 C, BP 275 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2826 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.44+/-0.18 ng/g b) 1.3+/-0.26 ng/g c) 2.3+/-0.53 ng/g d) 2.1+/-0.30 ng/g e) 2.7+/-0.49 ng/g	a) Day 8 b) Day 21 c) Day 38 d) Day 58 e) Day 90 Days held in flow-through tanks to determine bioconcentration factor 5 chemicals tested at low levels in mixtures with minimal interactive effects Water level 0.58+/-0.11 ng/L. Canada, Ontario GC-EC

BODY; TROUT; AQUATIC; DELIBERATE EXPOSURE; ONTARIO; CANADA; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; BIOCONCENTRATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION

Oliver, B.G.; Niimi, A.J. 1984 Environmental Toxicology and Chemistry 3:271-277

Benzene, 1,2,4-trichloro-
120-82-1
C6-H3-Cl3
MW 181.46, MP 17 C, BP 213 C, VP 1 mm Hg at 38.4 C

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2827 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2828 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.22+/-0.06 ng/g b) 4.7+/-0.7 ng/g c) 0.3+/-0.1 ng/g d) 4.0+/-0.8 ng/g e) 4.6+/-1.5 ng/g f) 4.4+/-0.8 ng/g g) 82+/-10 ng/g h) 190+/-54 ng/g i) 180+/-23 ng/g j) 0.6 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 3.2+/-2 ng/L, day 8 e) Day 69 f) Day 119 g) 52+/-21, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,2,4,5-tetrachloro-
95-94-3
C6-H2-Cl4
MW 215.9, MP 138 C, BP 245 C, VP less than 0.1 mm Hg at 25 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2829 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Mussel
MYTILUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2830 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.
REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86				

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2831 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 0.7+/-0.7 ng/g b) 1.6+/-0.4 ng/g c) 0.6+/-0.3 ng/g d) 2.6+/-0.5 ng/g e) 5.7+/-1.5 ng/g f) 6.9+/-1.0 ng/g g) 76+/-5.8 ng/g h) 290+/-75 ng/g i) 320+/-39 ng/g j) 0.53 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 1.0+/-0.5 ng/L, day 8 e) Day 69 f) Day 119 g) 21+/-13 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC
CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291				

Benzene, 1,3-dichloro-
541-73-1
C6-H4-Cl2
MW 147.01, MP -24.8 C, BP 173 C, VP 1 mm Hg at 12.1 C

Fish

Tissue	Cases Exposure Route	Range	Mean	General Information
2832 Body				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene. Tissue assumed to be muscle.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2833 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 6.7+/-0.7 ng/g c) Not detected d) 14+/-2.3 ng/g e) 12+/-4.2 ng/g f) 13+/-2.2 ng/g g) 360+/-57 ng/g h) 600+/-190 ng/g i) 640+/-100 ng/g j) <1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 28+/-5 ng/L, day 8 e) Day 69 f) Day 119 g) 690+/-150 ng/L, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291

Benzene, 1,3,5-trichloro-
108-70-3
C6-H3-Cl3
MW 181.46, MP 63.4 C, BP 208.4 C (also reported as 208.5 C), VP 10 mm Hg at 78 C

Cod
GADUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2834 Liver				Review. Summary of information on levels of the more highly chlorinated benzene residues in foods in the U.K. was summarized. Mean intake of 0.2 ug/person/day was calculated for hexachlorobenzene.

REVIEW; FISHES; LIVER; CATTLE; ADIPOSE TISSUE; MUSSELS; AQUATIC; TERRESTRIAL; KIDNEYS; MILK; MUSCLES; SHEEP; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; CHLOROBENZENES; HEXACHLOROBENZENE; PESTICIDE RESIDUES; METABOLITES; BODY; SWINE; MOLLUSKS

Peattie, M.E.; Lindsay, D.G.; Hoodless, R.A. 1984 Science of the Total Environment 34:73-86

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
2835 Body	32	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) Not detected b) 1.1+/-0.3 ng/g c) 0.2+/-0.1 ng/g d) 3.7+/-0.7 ng/g e) 4.4+/-1.3 ng/g f) 4.5+/-0.7 ng/g g) 81+/-10 ng/g h) 200+/-61 ng/g i) 200+/-28 ng/g j) <0.1 ng/g	a) Controls, day 0 b) Controls, day 34 c) Controls, day 119 d) 2.3+/-0.4 ng/l, day 8 e) Day 69 f) Day 119 g) 45+/-20 ng/l, day 7 h) Day 43 i) Day 105 j) Fish from Lake Ontario Water concentrations and exposure times d)-i). Hatchery reared, mean wt increase from 255 to 390 g during study, a)-i). Mean wt j) 3100 g. Canada, Great Lakes, Gamaraska River GC-EC

CANADA; ADULTS; BODY; COMPARATIVE EVALUATIONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE

Oliver, B.G.; Niiml, A.J. 1983 Environmental Science Technology 17:287-291

Benzeneacetic acid, 4-(difluoromethoxy)-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
70124-77-5
C26-H23-F2-N-O4
Minnow, sheepshead
CYPRINODON VARIEGATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2836 Body, whole	80	a) Not given b) Not given c) Not given d) Not given e) Not given	a) <0.5 mg/kg b) <0.5 mg/kg c) <0.5 mg/kg d) <0.5 mg/kg e) <0.5 mg/kg	a) Control b) 0.03 ug/L, exposure concentration c) 0.06 ug/L d) 0.12 ug/L e) 0.27 ug/L c) -e) Significant weight reduction. 8% and 0% survival at 0.5 and 1.0 ug/L, exposures. Inactivity, bent and swimming in circles, abnormal movement GC/MS
AQUATIC; FISHES; BODY; DELIBERATE EXPOSURE; INSECTICIDES; BIOCONCENTRATION; BIOLOGICAL MONITORING; POISONING Hansen, D.J.; Goodman, L.R.; Moore, J.C.; Higdon, P.K. 1983 Environmental Toxicology and Chemistry 2:251-258				

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
51630-58-1
C25-H22-Cl-N-O3
MW 419.93
Minnow, sheepshead
CYPRINODON VARIEGATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2837 Body, whole	80	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) <0.10 mg/kg b) 0.13 mg/kg c) 0.20 mg/kg d) 1.4 mg/kg e) 1.1 mg/kg f) 3.2 mg/kg	a) Control b) 0.28 ug/L, exposure concentration c) 0.56 ug/L d) 2.0 ug/L e) 2.2 ug/L f) 3.9 ug/L 9% survival at 7.6 ug/L, 26% at 3.9 ug/L. Fish in d) and e) were significantly shorter than a), b) and c). Lethargy, curled position, infrequent feeding GC/MS
AQUATIC; FISHES; BODY; DELIBERATE EXPOSURE; INSECTICIDES; BIOCONCENTRATION; BIOLOGICAL MONITORING; POISONING Hansen, D.J.; Goodman, L.R.; Moore, J.C.; Higdon, P.K. 1983 Environmental Toxicology and Chemistry 2:251-258				

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
51630-58-1
C25-H22-Cl-N-O3
MW 419.93
Mosquitofish
GAMBUSIA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2838 Body	1	Not given	0.32 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and *Toxicology* 31:61-65				

Mouse, house
MUS MUSCULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2839 Body	3	Not given	0.01 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Shiner, golden
NOTEMIGONUS CRYSOLEUCUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2840 Body	1	Not given	0.47 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Benzeneacetic acid, 4-chloro-alpha-(1-methylethyl)-, cyano(3-phenoxyphenyl)methyl ester
51630-58-1
C25-H22-Cl-N-O3
MW 419.93
Snake, ribbon
THAMNOPHIS PROXIMUS PROXIMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2841 Body	1	Not given	0.12 ppm Wet wt	Collected from cotton fields, 7/79, 5 days after aerial application of 0.112 kg/ha Arkansas, Garland GC-EC
MICE; BIRDS; SNAKES; FISHES; ARKANSAS; BODY; INSECTICIDES; BIOACCUMULATION				
Bennett, R.S., Jr.; Klaas, E.E.; Coats, J.R.; Mayse, M.A.; Kolbe, E.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:61-65				

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg
Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2842 Adipose	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.22 ng b) 0.23 ng c) 0.21 ng d) 0.16 ng /0.12 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Little accumulation. Sweden Radiometry
2843 Bile	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 11 ng b) 68 ng c) 184 ng d) 82 ng /0.024 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Data includes gallbladder. Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. At 0.8, 8.5 d gallbladder and bile (0.12% tot. body wt) had >50% radiotracer. After 8.5 d most tracer (>93%) as metabolites. Autoradiography findings given. Sweden Radiometry

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Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2844 Body	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 53 ng b) 126 ng c) 301 ng d) 294 ng /14.27 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Sum of 18 individual organ/tissue values. Mean total body wt 20.1 g. Results expressed as ng benzo(a)pyrene, but include metabolites. After 8.5 d >93% of tracer as metabolites. Autoradiography findings given. Sweden Radiometry
2845 Brain	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.20 ng b) 0.15 ng c) 0.087 ng d) 0.089 ng /0.088 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2846 Eye	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.004 ng b) 0.007 ng c) 0.028 ng d) 0.025 ng /0.05 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2847 Gall bladder	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 11 ng b) 68 ng c) 184 ng d) 82 ng /0.024 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Data includes bile. Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. At 0.8, 8.5 d gallbladder and bile (0.12% tot. body wt) had >50% radio-tracer. After 8.5 d most tracer (>93%) as metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2848 Gas bladder	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given	a) 0.27 ng b) 0.34 ng c) 0.33 ng /0.11 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2849 Gills	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 15 ng b) 14 ng c) 15 ng d) 7.4 ng /0.48 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Accumulated significant amounts. After 8.5 d most tracer (>93%) as metabolites. Discussion of autoradiograpy findings given. Sweden Radiometry
2850 Gonads	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given	a) 0.056 ng b) 0.17 ng c) 0.15 ng /0.032 wet wt	a) 0.14 d b) 0.80 d c) 8.5 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry
2851 Heart	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.12 ng b) 0.10 ng c) 0.070 ng d) 0.046 ng /0.028 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2852 Intestine	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.57 ng b) 1.6 ng c) 13 ng d) 113 ng /0.24 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. After 8.5 d most (<93%) as metabolites. At 23 d 50% radiotracer in gut/contents. Autoradiography findings given. Sweden Radiometry
2853 Kidney	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 1.8 ng b) 3.9 ng c) 12 ng d) 10 ng /0.12 wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Accumulated significant amounts, concentrated in distal section. After 8.5 d most (>93%) tracer as metabolites. Autoradiography findings given. Sweden Radiometry
2854 Liver	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 9.6 ng b) 15 ng c) 37 ng d) 14 ng /0.34 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Accumulated significant amounts. After 8.5 d most tracer (>93%) as metabolites. Discussion of autoradiograpy findings given. Sweden Radiometry
2855 Muscle	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 6.6 ng b) 7.1 ng c) 4.0 ng d) 7.0 ng /10 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Radiometry

(next page)

Benzo(a)pyrene
50-32-8
C20-H12
MW 252.3, MP 179 C, BP 372 C at 10 mm Hg

Pike, northern
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2856 Scales	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 2.6 ng b) 2.8 ng c) 1.6 ng d) 0.88 ng /0.48 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Dermal uptake may be significant. Sweden Radiometry
2857 Skin	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 2.1 ng b) 3.3 ng c) 2.4 ng d) 1.2 ng /1.5 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Dermal uptake may be significant. Sweden Radiometry
2858 Spleen	5 Ingestion Inhalation Dermal Immersion	a) Not given b) Not given c) Not given d) Not given	a) 0.063 ng b) 0.076 ng c) 0.056 ng d) 0.041 ng /0.018 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. Autoradiography findings given. Sweden Scintillation counting
2859 Stomach	5 Ingestion Inhalation Dermal	a) Not given b) Not given c) Not given d) Not given	a) 0.41 ng b) 0.63 ng c) 0.37 ng d) 0.31 ng /0.24 g wet wt	a) 0.14 d b) 0.80 d c) 8.5 d d) 23 d Time after immersion in water containing a total of 750 ng. Results expressed as ng benzo(a)pyrene, but include metabolites. After 8.5 d most tracer (>93%) as metabolites. At 23 d 50% tracer in gut/contents. Autoradiography findings given. Sweden Radiometry

FISHES; CARCINOGEN; METABOLISM; SWEDEN; BILE; GALL BLADDER; LIVER; GILLS; INTESTINES; KIDNEYS; MUSCLES; SKIN; SCALES; BLOOD; STOMACH; ADIPOSE TISSUE; GAS BLADDER; GONADS; BRAIN; SPLEEN; HEART; EYE; BIOCONCENTRATION; BIOACCUMULATION; POLYCYCLIC AROMATIC HYDROCARBONS; AQUATIC; DELIBERATE EXPOSURE; BODY; MEASUREMENT METHODS

Balk, L.; Meijer, J.; DePierre, J.W.; Appelgren, L.-E. 1984 Toxicology and Applied Pharmacology 74:430-449

Benzophenone, 4,4'-dichloro- (8 CI); Methanone, bis(4-chlorophenyl)- (9 CI)
90-98-2
C13-H8-Cl2-O
MW 251.13, MP 147-148 C, BP 353 C at 757 mm Hg

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
2860 Eggs	a) 2 b) 5 Ingestion	a) Not given b) Not given	a) 0.018 ppm b) 0.275 ppm Wet wt	a) Collected 1981 b) 1982. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2861 Eggs	a) 4 b) 2 Ingestion	a) Not given b) Not given	a) 0.073 ppm b) 0.034 ppm Wet wt	a) Collected 1981 b) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Clam
MEGAPITARIA SQUALIDA

Tissue	Cases Exposure Route	Range	Mean	General Information
2862 Body	16	Not given	0.54 ppb Wet wt	Collected 7/80. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Crab
CALLINECTES ARCUATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2863 Body	a) 5 b) 5	a) Not given b) Not given	a) 0.12 ppb b) 0.47 ppb Wet wt	a) Caimanero, 10/80 b) Yavaros, 1/81. Mexico (NW), Sonora, Yavaros lagoon system; Mexico (NW), Sinaloa, Huizache-Caimanero lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Fish
CENTROPOMUS PECTINATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2864 Muscle	a) 1 b) 1	a) Not given b) Not given	a) 0.40 ppb b) 0.43 ppb Wet wt	a) Collected 10/80 b) Collected 1/81. Mexico (NW), Sinaloa, Huizache-Ciamaneno Lagoon complex GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Flounder
PARALICHTYS WOOLINARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2865 Muscle	1	Not given	1.11 ppb Wet wt	Collected 1/81. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85
Gudgeon
GOBIO GOBIO

Tissue	Cases Exposure Route	Range	Mean	General Information
2866 Brain	47	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 129+/-27 ppb b) 145+/-18 ppb c) 108+/-10 ppb d) 149+/-16 ppb e) 899+/-206 ppb f) 3527+/-605 ppb g) 9005+/-2416 ppb	a) 0.22+/-0.08 ppb b) 1.13+/-0.03 ppb c) 7.5+/-0.26 ppb d) 28.5+/-0.35 ppb e) 37.0+/-1.30 ppb f) 72.0+/-4.71 ppb g) 142.0+/-4.04 ppb Concentrations in water for 96 hr Increased mortality above 28.5 ppb GC-EC
2867 Liver	47	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 46+/-6 ppb b) 224+/-43 ppb c) 254+/-33 ppb d) 187+/-43 ppb e) 2160+/-696 ppb f) 5005+/-621 ppb g) 8257+/-1556 ppb Concentrations in water for 96 hr	a) 0.22+/-0.08 ppb b) 1.13+/-0.03 ppb c) 7.5+/-0.26 ppb d) 28.5+/-0.35 ppb e) 37.0+/-1.30 ppb f) 72.0+/-4.71 ppb g) 142.0+/-4.04 ppb Concentrations in water for 96 hr GC-EC
2868 Muscle	50	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 20+/-4 ppb b) 22+/-2 ppb c) 87+/-18 ppb d) 13+/-4 ppb e) 193+/-43 ppb f) 1068+/-157 ppb g) 593+/-121 ppb	a) 0.22+/-0.08 ppb b) 1.13+/-0.03 ppb c) 7.5+/-0.26 ppb d) 28.5+/-0.35 ppb e) 37.0+/-1.30 ppb f) 72.0+/-4.71 ppb g) 142.0+/-4.04 ppb Concentrations in water for 96 hr Increased mortality above 28.5 ppb GC-EC
BELGIUM; MUSCLES; LIVER; BRAIN; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; LINDANE; BIOACCUMULATION; FISHES Marcelle, C.; Thome, J.P. 1983 Bulletin of Environmental Contamination and Toxicology 31:453-458				

Mackerel
SCOMBEROMORUS MACULATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2869 Muscle	a) 2 b) 1	a) Not given b) Not given	a) 0.79 ppb b) 0.60 ppb Wet wt	a) 10/80 b) 1/81. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).
C6-H6-Cl6
MW 290.85

Mullet, striped
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2870 Muscle	a) 3 b) 11 c) 3 d) 6 e) 4	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 2.50 ppb b) 1.36 ppb c) 1.40 ppb d) 1.69 ppb e) 1.77 ppb Wet wt	a) Moron carit, 7/81 b) Yavaros, 10/80 c) Yavaros, 1/81 d) Yavaros, 4/81 e) Caimanero, 1/81. Mexico (NW), Sonora, Yavaros lagoon system; Mexico (NW), Sinaloa, Huizache-Caimanuo lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Mullet, white
MUGIL CUREMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2871 Muscle	4	Not given	1.22 ppm Wet wt	Collected 1/81. Mexico (NW), Sonora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Shrimp, blue
PENAEUS STYLIROSTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2872 Body	a) 12 b) 15 c) 51 d) 13	a) Not given b) Not given c) Not given d) Not given	a) 0.23 ppb b) 0.11 ppb c) 0.46 ppb d) 1.00 ppb Wet wt	a) Moron carit, 7/80 b) Zavara, 10/80 c) Yavara, 10/81 d) Caimaners, 1/81. Mexico (NW), Sonora, Yavaros lagoon system; Mexico(NW), Sinaloa, Huizache-Caimanuo lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

BHC, total (No postings in CHEMLINE).

C6-H6-Cl6
MW 290.85

Shrimp, rock
TRACHYPENAEUS SIMILIS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2873 Body	3	Not given	0.78 ppb Wet wt	Collected 1/81. Mexico (NW), Somora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Shrimp, white
PENAEUS VANAMEI

Tissue	Cases Exposure Route	Range	Mean	General Information
2874 Body	a) 12 b) 12	a) Not given b) Not given	a) 0.60 ppb b) 1.71 ppb Wet wt	a) Caimanero, 10/80 b) Moroncarit, 7/81. Mexico (NW), Somora, Yavaros lagoon system GC
CRUSTACEANS; MOLLUSKS; MUSCLES; CHLORINE ORGANIC COMPOUNDS; MEXICO; BODY; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Rosales, M.T.L.; Escalona, R.L. 1983 Bulletin of Environmental Contamination and Toxicology 30:456-463				

Tilapia
TILAPIA sp

Tissue	Cases Exposure Route	Range	Mean	General Information
2875 Muscle	Ingestion	a) 1.6-4.2 ug/L b) 1.6-9.7 ug/L c) 2.0-14.6 ug/L d) 0.8-2.5 ug/L e) 0.7-3.1 ug/L f) 0.5-2.7 ug/L g) 0.8-3.0 ug/L h) 2.3-4.9 ug/L	a) 3.0 ug/L b) 4.7 ug/L c) 8.5 ug/L d) 1.4 ug/L e) 1.6 ug/L f) 1.3 ug/L g) 6.5 ug/L [sic] h) 3.1 ug/L	a) Aswan b) Assiut c) Cairo d) El-Mansora e) Faraskour f) Edfina g) El-Mahmodia canal h) Abo El-Gheit canal 80 composite samples, approx 5 fish each. Sites a) near Lake Nassar, e), f) near Mediterranean Sea on the Nile river, g), h) in agricultural areas polluted with pesticides (application, leachates). Egypt, Nile River and canals GC-EC
PESTICIDE RESIDUES; FISHES; MUSCLES; EGYPT; AQUATIC; CHLORINE ORGANIC COMPOUNDS; DDT; DDE; BIOLOGICAL MONITORING; WATER POLLUTION; METABOLITES; LINDANE; INSECTICIDES; ENVIRONMENTAL EXPOSURE; HEXACHLOROCYCLOHEXANE Aly, O.A.; Badawy, M.I. 1894 Bulletin of Environmental Contamination and Toxicology 33:246-252				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Auk, little
ALLE ALLE

Tissue	Cases Exposure Route	Range	Mean	General Information
2877 Adipose	7 Ingestion	Not given	7.1+/-1.2 ug/g Wet wt	Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Norway, Svalbard; Spitsbergen GC-EC
2878 Liver	9 Ingestion	Not given	0.2+/-0.08 ug/g Wet wt	Shot waterfowl. Diet of small crustaceans, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Body wt 170 g. Norway, Svalbard; Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Bass, black sea
CENTROPRISTIS STRIATA

Tissue	Cases Exposure Route	Range	Mean	General Information
2879 Body	1	Not applicable	0.4 mg/l Wet wt	Edible tissues, 1978-80 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Bass, Japan sea
LATEOLABRAX JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2880 Body	1	Not applicable	109 ppb Wet wt	Collected offshore 10/81. 20 g edible tissue analyzed. Not detected < 1.0 ppb. Japan, Osaka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Bass, largemouth
MICROPTERUS SALMOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
2881 Body	a) 5 b) 5	a) 0.36-0.74 ppm b) 0.23-0.23 ppm Wet wt	a) 0.50 ppm b) 0.24 ppm Wet wt	a) Lake Providence, 7.3% lipids b) Lake Bruin, 9.2% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are fish and crayfish. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH

Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Bass, striped
MORONE SAXATILIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2882 Body	8	0.1-3.0 mg/l Wet wt	1.2 mg/l Median, 0.9 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC

Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Blackbird, red-winged
AGELAIUS PHOENICEUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2883 Brain	a) 5 b) 5 Ingestion	a) 500-600 ppm b) 100-200 ppm Wet wt	a) 550 ppm b) 134+/-39.1 ppm Wet wt	a) Died within 6 d, 50% mortality point b) Survived, sacrificed at 50% mortality point 1500 ppm dietary dose. Data estimated from graph. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC

BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL

Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Bleak (fish)
ALBURNUS ALBURNUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2884 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Bluefish
POMATOMUS SALTATRIX

Tissue	Cases Exposure Route	Range	Mean	General Information
2885 Body	11	0.2-18.5 mg/l Wet wt	2.1 mg/l Median, 0.3 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Bluegill
LEPOMIS MACROCHIRUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2886 Body	a) 5 b) 1	a) 0.18-0.24 ppm b) Not detected-0.10 ppm Wet wt	a) 0.21 ppm b) 0.06 ppm Wet wt	a) Lake Providence, 3.3% lipids b) Lake Bruin, 2.2% lipids Collected 6/15-9/25/80. Secondary consumers, major foods are fish. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Brant, American
BRANTA BERNICLA

Tissue	Cases Exposure Route	Range	Mean	General Information
2887 Adipose	1	Not applicable	0.96 ug/g Wet wt	Adult collected 10/79 (dead of trauma). Subcutaneous fat. Level highest of 4 tissues analyzed. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Lake Ontario GC-EC
2888 Brain	1	Not applicable	0.22 ug/g Wet wt	Adult collected 1/80 (dead of trauma) New York, Long Island GC-EC
2889 Liver	2	0.24-0.90 ug/g Wet wt	0.57 ug/g Wet wt	Adults collected 1/80 and 10/79, dead of trauma. Highest level in LakeOntario bird. New York, Long Island and Lake Ontario GC-EC
2890 Muscle	1	Not applicable	0.01 ug/g Wet wt	Adult collected 10/79 (dead of trauma). Breast muscle. Substantially lower levels than in fat or liver. New York, Lake Ontario GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Bufflehead
BUCEPHALA ALBEOLA

Tissue	Cases Exposure Route	Range	Mean	General Information
2891 Adipose	3	0.24-53.0 ug/g Wet wt	18.68 ug/g Wet wt	Adult, 2 juveniles collected 10/79 and 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara and Hudson Rivers GC-EC
2892 Liver	2	0.07-0.08 ug/g Wet wt	0.075 ug/g Wet wt	Adult, juvenile collected 10/79 and 12/79 New York, Niagara and Hudson Rivers GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Bufflehead
BUCEPHALA ALBEOLA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2893 Muscle	3	0.05-0.58 ug/g Wet wt	0.25 ug/g Wet wt	Adult, 2 juveniles collected 10/79 and 12/79. Breast muscle. Substantially lower levels than in fat. New York, Niagara and Hudson Rivers GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Butterfish
PEPRILUS TRIACANTHUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2894 Body	4	<0.1-0.9 mg/l Wet wt	0.5 mg/l Median, 0.5 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Carp
CYPRINUS CARPIO

Tissue	Cases Exposure Route	Range	Mean	General Information
2895 Muscle		a) Not given b) Not given c) Not given d) Not given e) Not given	a) 39 ppb b) 32 ppb c) 16 ppb d) 6 ppb e) 5 ppb Estimated from graph	a) 1976 b) 1977 c) 1978 d) 1980 e) 1981 Declines of body burdens attributed to effluent controls by paper mills. Fish length 22-26 in. Wisconsin, Lower Fox River, Little Lake Butte des Morts GC-EC
WISCONSIN; MUSCLES; BIOACCUMULATION; BIOINDICATORS; FISHES; INDUSTRIAL EMISSIONS; WATER POLLUTION; POLYCHLORINATED BIPHENYLS Sullivan, J.R.; Delfino, J.J.; Buelow, C.R.; Sheffy, T.B. 1983 Bulletin of Environmental Contamination and Toxicology 30:58-64				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Catfish, channel
ICTALURUS PUNETATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2896 Body	4	0.77-1.47 ppm Wet wt	1.00 ppm Wet wt	Lake Providence, 2.9% lipids. Collected 6/15-9/25/80. Tertiary consumers, major foods are fish and insects. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Chicken
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
2897 Adipose	24 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.24 mg/kg b) 0.97 mg/kg c) 30.8 mg/kg d) 0.43 mg/kg e) 34.7 mg/kg f) 0.90 mg/kg g) 54.0 mg/kg h) 47.3 mg/kg	a) Control, 27 d b) 0.16 mg/kg residue, 27 d c) 9.03 mg/kg residue, 27 d d) 0.07 mg/kg technical, 27 d e) 8.02 mg/kg technical, 27 d f) Control, 20 d, liver fat g) 9.03 mg/kg residue, 20 d, liver fat h) 8.02 mg/kg technical, 20 d, liver fat Totals in body fat (a)-e)) and liver fat (f)-h)) after diet with lard from Aroclor 1254-treated swine (residue) or Aroclor 1254 (technical) in control lard. Extensive metabolite (18 chlorobiphenyls) data given. Metabolite ratios changed depending upon source of contaminant, location of adipose, or dosage. 3 cases/study. Netherlands GC-EC
ADIPOSE TISSUE; DELIBERATE EXPOSURE; JUVENILES; NETHERLANDS; CHICKENS; POLYCHLORINATED BIPHENYLS; CHLORINE ORGANIC COMPOUNDS; ANIMAL FEEDS; BIOACCUMULATION; FOOD CONTAMINATION; METABOLISM; METABOLITES; BIRDS; TERRESTRIAL Hansen, L.G.; Tuinstra, L.G.M.T.; Kan, C.A.; Strik, J.J.T.W.A.; Koeman, J.H. 1983 Journal of Agricultural Food Chemistry 31:254-260				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Chironomid
CHIRONOMUS PLUMOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2898 Body	Ingestion	a) Not given b) Not given c) Not given d) 302-4845 ug/g e) 665-5130 ug/g f) 170-5514 ug/g g) Not given h) Not given Extractable fat	a) 4.7 ug/g b) 7.7 ug/g c) 5.8 ug/g d) Not given e) Not given f) Not given g) 10.0+/-2.6 ug/g h) 8.9+/-0.9 ug/g Extractable fat	a) Larvae, Lake Havgardssjon sediment b) Adults, lake sediment c) Exuviae, lake sediment d) Larvae, treated lake sediment e) Adults, treated lake sediment f) Exuviae, treated lake sediment g) Larvae in sewage treatment plant sediment h) Adults from sewage sediment Lake sediment (from lab study) 0.027 ug/g dry wt, treated lake sediment (from lab study) 2.9-69.8 ug/g dry wt, sewage sediment (from field study) 0.292 ug/g dry wt. Sweden, southern area GC

CHIRONOMIDS; AQUATIC; TERRESTRIAL; ADULTS; POLYCHLORINATED BIPHENYLS; LARVAE; SEDIMENTS; SWEDEN; BIOACCUMULATION; BIOMAGNIFICATION; SEWAGE; LIPIDS
Larsson, P. 1984 Environmental Pollution (Series A) 34:283-289

Chub
LENCISCUS CEPHABUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2899 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2900 Body, whole	9	10-44 ug/kg Dry wt	21 ug/kg Dry wt Median	Trend in concentration increase from inorganic to organic to living material. August 1979-May 1980, sampling dates. Non-point sources. No significant seasonal, temporal or spatial variablity reported. Florida, Apalachicola River GC-EC

BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY
Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2901 Body	a) 213 b) 138 c) 96 d) 262 e) 379 Ingestion	a) Not detected-0.06 ug/g b) Not detected-0.05 ug/g c) Not detected-0.08 ug/g d) Not detected-0.010 ug/g e) Not detected-0.010 ug/g Wet wt	a) 0.02 ug/g b) 0.02 ug/g c) 0.03 ug/g d) 0.02 ug/g e) 0.010 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2902 Body	a) 26 b) 7 c) 18 d) 115 e) 34 Ingestion	a) Not detected-0.06 ug/g b) Not detected-0.05 ug/g c) Not detected-0.08 ug/g d) Not detected-0.10 ug/g e) Trace-0.030 ug/g Wet wt	a) 0.02 ug/g b) 0.02 ug/g c) 0.03 ug/g d) 0.02 ug/g e) 0.01 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for organochlorine residues in shellfish 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Cod
GADUS MOCHUA

Tissue	Cases Exposure Route	Range	Mean	General Information
2903 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Coot, American
FULICA AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
2904 Adipose	2	10.0-14.0 ug/g Wet wt	12.0 ug/g Wet wt	Juveniles collected 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Tissue	Cases Exposure Route	Range	Mean	General Information
2905 Body	2	Not detected-0.45 ppm Wet wt	0.11 ppm Wet wt	Lake Providence, 10.6% lipids. Collected 2/80. Secondary consumers. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Coot, American
FULICA AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
2906 Liver	2	0.55-0.87 ug/g Wet wt	0.71 ug/g Wet wt	Juveniles collected 12/79 New York, Hudson River GC-EC
2907 Muscle	2	0.51-0.93 ug/g Wet wt	0.72 ug/g Wet wt	Juveniles collected 12/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Cormorant, cape
PHALACROCORAX CAPENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2908 Eggs	5	0.07-0.43 ug/g	0.21 ug/g	7 eggs analysed. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Cormorant, white-breasted
PHALACROCORAX CARBO

Tissue	Cases Exposure Route	Range	Mean	General Information
2909 Eggs	9	0.17-3.00 ug/g	0.89 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Cottonmouth
AGKISTRODON PISCIVOROUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2910 Body	a) 10 b) 3	a) 0.20-1.61 ppm b) Not detected-0.42 ppm Wet wt	a) 0.53 ppm b) 0.08 ppm Wet wt	a) Lake Providence, 4.3% lipids b) Lake Bruin, 2.5% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are snakes, fish and frogs. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH

Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Cowbird, brown-headed
MOLOTHRUS ATER

Tissue	Cases Exposure Route	Range	Mean	General Information
2911 Brain	a) 5 b) 5 Ingestion	a) 400-500 ppm b) 80-100 ppm Wet wt	a) 450 ppm b) 88+/-10.7 ppm Wet wt	a) Died within 7 d, 50% mortality point b) Survived, sacrificed at 50% mortality point 1500 ppm dietary dose. Estimated from graph. Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC

BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL

Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2912 Body	a) 3 b) 14 c) 9 d) 22 Ingestion	a) Data not available b) Not detected-0.06 ug/g c) 0.01-0.20 ug/g d) Not detected-0.80 ug/g Wet wt	a) Data not available b) 0.02 ug/g c) 0.04 ug/g d) 0.015 ug/g Wet wt	a) 1976 b) 1977 c) 1979 d) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small (none 1978), mostly in 1979-1980, not possible to see yearly trend. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Crab, Mediterranean shore
CARCINUS MEDITERRANEUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2913 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Croaker, white
GENYONEMUS LINEATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2914 Muscle	60	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.20 +or- 0.04 mg/kg b) 0.21 +or- 0.04 mg/kg c) 0.07 +or- 0.016 mg/kg d) 0.018 +or- 0.003 mg/kg e) 0.036 +or- 0.005 mg/kg f) 0.013 +or- 0.002 mg/kg Wet wt	a) Uncooked b) Pan fried c) Pan fried, adjusted to 65% wt loss during frying d) Uncooked e) Pan fried f) Pan fried, adjusted to 28% wt loss during frying Collected 5-6/81 in Santa Monica Bay a)-c), and Orange County, Abalone Point d)-f). Composite fillet samples. Fish wt 9-38 g, length 10-13 cm California (S) GC-EC

MUSCLES; CALIFORNIA; BIOACCUMULATION; FISHES; WATER POLLUTION; DDT; POLYCHLORINATED BIPHENYLS
Puffer, H.W.; Gossett, R.W. 1983 Bulletin of Environmental Contamination and Toxicology 30:65-73

Cunner
TAUTOGOLABRUS ADSPERSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2915 Body	2	20-57 mg/l Wet wt	38 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Cuttlefish

Tissue	Cases Exposure Route	Range	Mean	General Information
2916 Muscle	2	0.1-0.3 ppm Wet wt	0.2 ppm Wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS

CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES
Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3):291-298

Dogfish
Probably MUSTELUS CANIS or SQUALUS ACANTHIAS

Tissue	Cases Exposure Route	Range	Mean	General Information
2917 Body	1	Not applicable	0.2 mg/l Wet wt	Edible tissues, 1978-80 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Dolphin, striped
STENELLA COERULEOALBA

Tissue	Cases Exposure Route	Range	Mean	General Information
2918 Adipose	4 Ingestion	2800-4100 ug/kg	3700 ug/kg	Seawater levels 0.04-0.59 ng/l (mean 0.28 ng/l). Bioconcentration factor 13,000. Pacific Ocean GC-EC

BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE
Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738

Dove, mourning
ZENAIDURA MACROURA

Tissue	Cases Exposure Route	Range	Mean	General Information
2919 Adipose	1	<0.0001-0.3718 ppm	0.0930 ppm	None in 3 birds (same species) or in other tissues. Illinois, Vermilion and Shelby Counties GC-EC

ADIPOSE TISSUE; BRAIN; MUSCLES; LIVER; HEART; TERRESTRIAL; BIRDS; ENVIRONMENTAL EXPOSURE; ILLINOIS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FOOD CONTAMINATION; PESTICIDE RESIDUES
Edwards, W.R.; Duzan, R.E.; Siemers, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:407-414

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Duck, black
ANAS RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
2920 Adipose	8	1.8-19.0 ug/g Wet wt	6.78 ug/g Wet wt	7 adults, 1 juvenile shot 10/79, 11/79 and 1/80. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River and Long Island GC-EC
2921 Brain	8	0.02-0.94 ug/g Wet wt	0.25 ug/g Wet wt	7 adults, 1 juvenile shot 10/79, 11/79 and 1/80 New York, Hudson River and Long Island GC-EC
2922 Liver	3	0.45-1.0 ug/g Wet wt	0.63 ug/g Wet wt	3 adults shot 10/79 and 1/80 New York, Hudson River and Long Island GC-EC
2923 Muscle	8	0.06-0.34 ug/g Wet wt	0.18 ug/g Wet wt	7 adults, 1 juvenile shot 10/79, 11/79 and 1/80. Breast muscle. Substantially lower levels than in fat. New York, Hudson River and Long Island GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
2924 Adipose	15	0.01-26.0 ug/g Wet wt	6.69 ug/g Wet wt	12 adults, 3 juveniles shot 10/79. Subcutaneous fat. Level highest of 4 tissues analyzed. No significant difference in levels due to age, sex or collection site among 17 total species. FDA tolerance level of 3.0 ppm in fat exceeded. NY and NJ hunters warned about consuming contaminated waterfowl. New York, Hudson River area GC-EC
2925 Brain	14	0.02-3.0 ug/g Wet wt	0.46 ug/g Wet wt	11 adults, 3 juveniles shot 10/79 New York, Hudson River area GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Duck, mallard
ANAS PLATYRHYNCHOS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2926 Liver	12	0.05-1.6 ug/g Wet wt	0.52 ug/g Wet wt	9 adults, 3 juveniles shot 10/79. New York, Hudson River area GC-EC
2927 Muscle	15	0.05-0.79 ug/g Wet wt	0.40 ug/g Wet wt	12 adults, 3 juveniles shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River area GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Duck, mallard/black hybrid
ANAS PLATYRHYNCHOS/RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
2928 Brain	1	Not applicable	0.14 ug/g Wet wt	Adult shot 12/79. New York, Long Island GC-EC
2929 Muscle	1	Not applicable	0.16 ug/g Wet wt	Adult shot 12/79. Breast muscle New York, Long Island GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Duck, white Pekin
ANAS PLATYRHYNCHOS DOMESTICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2930 Adipose	1	Not applicable	0.14 ug/g Wet wt	Adult domestic bird sacrificed 10/79. Subcutaneous fat. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Westchester County GC-EC
2931 Brain	2	0.28-1.2 ug/g Wet wt	0.74 ug/g Wet wt	Adult domestic birds sacrificed 10/79 and 11/79 New York, Westchester County and Long Island GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Duck, white Pekin
ANAS PLATYRHYNCHOS DOMESTICUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2932 Liver	2	0.22-0.46 ug/g Wet wt	0.34 ug/g Wet wt	Adult domestic birds sacrificed 10/79 and 11/79. New York, Westchester County and Long Island GC-EC
2933 Muscle	1	Not applicable	0.39 ug/g Wet wt	Adult domestic bird sacrificed 10/79. Breast muscle New York, Westchester County GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Eagle, bald
HALIAEETUS LEUCOCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2934 Eggs	123	a) 0.53-4.8 ppm b) 1.4-5.6 ppm c) 2.4-2.6 ppm d) 1.2-8.5 ppm e) 0.52-44.0 ppm f) 1.6-98.0 ppm g) 7.0-37.0 ppm h) 3.2-9.6 ppm i) 5.4-75.0 ppm j) 25.0-52.0 ppm k) 5.7-64.0 ppm l) 23.0-218.0 ppm m) Not applicable n) 5.7-28.0 ppm Fresh wet wt	a) 2.13 ppm b) 3.5 ppm c) 2.5 ppm d) 3.8 ppm e) 8.5 ppm f) 16.29 ppm g) 25.75 ppm h) 6.33 ppm i) 27.34 ppm j) 27.44 ppm k) 27.05 ppm l) 55.09 ppm m) 7.4 ppm n) 13.75 ppm Fresh wet wt	a) AK, 1975-76, 5 eggs b) OR, 1979, 2 eggs c) CA, 1977, 2 eggs d) AZ, 1977, 3 eggs e) MN, 1972, 1976-79, 16 eggs f) WI, 1976-79, 37 eggs g) MI, 1969, 1974, 1978, 4 eggs h) NY, 1971, 1977, 1978, 3 eggs i) ME, 1974-79, 19 eggs j) DE, 1977-78, 3 eggs k) MD, 1973, 1977-79, 11 eggs l) VA, 1976-77, 1979, 11 eggs m) LA, 1979, 1 egg n) FL, 1975-77, 1979, 6 eggs In all eggs but one. 218 ppm in VA (Mason Neck) highest ever for this species. TLC; Silica gel chromatography; GC-MS
EGGS; EAGLES; BIRDS; ENVIRONMENTAL EXPOSURE; ALASKA; ARIZONA; CALIFORNIA; DELAWARE; FLORIDA; LOUISIANA; MAINE; MARYLAND; MICHIGAN; MINNESOTA; NEW YORK; OHIO; OREGON; VIRGINIA; WISCONSIN; UNITED STATES; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; POPULATION EXPOSURE Wiemeyer, S.N.; Lamont, T.G.; Bunck, C.M.; Sindelar, C.R.; Gramlich, F.J.; Fraser, J.D.; Byrd, M.A. 1984 Archives of Environmental Contamination and Toxicology 13:529-549				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Eagle, booted
HIERAETUS PENNATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2935 Eggs	a) 1 b) 3 Ingestion	a) Not given b) Not given	a) 0.946 ppm b) 0.254 ppm Wet wt	a) Collected 1981 b) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Eagle, imperial
AQUILA HELIACA

Tissue	Cases Exposure Route	Range	Mean	General Information
2936 Eggs	a) 6 b) 3 c) 3 d) 10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.786 ppm b) 2.747 ppm c) 2.455 ppm d) 2.020 ppm Wet wt	a) Collected 1980 b) 1981 c) 1982 d) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Eel

Tissue	Cases Exposure Route	Range	Mean	General Information
2937 Muscle	3	Not given	1.6 ppm wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3):291-298				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Eel, American
ANGUILLA ROSTRATA

Tissue	Cases Exposure Route	Range	Mean	General Information
2938 Body	32	11-730 mg/l Wet wt	131 mg/l Median, 24 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Eider
SOMATERIA MOLLISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
2939 Adipose	8 Ingestion	Not given	3.1+/-1.2 ug/g Wet wt	Shot waterfowl. Diet of benthonic molluscs, above normal nutritional conditions. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Falcon, peregrine
FALCO PEREGRINUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2940 Eggs	20	a) 105-630 ppm b) 170-580 ppm c) 40-520 ppm Lipid wt	a) 251 ppm b) 365 ppm c) 200 ppm Lipid wt	a) 6 collected in 1978, analyzed by CA Dept of Fish and Game b) Same 6 analyzed by Bodega Marine Lab (BML) c) 14 collected 1979, 1980, Ontario Research Foundation No significant difference in results from different laboratories or between levels by whole egg versus shell membrane analyses. California; Canada GC-EC
2941 Shell membrane	a) 6 b) 14	a) 180-450 ppm b) 50-390 ppm Lipid wt	a) 277 ppm b) 185 ppm Lipid wt	a) Collected 1978, analysed by Canadian Wildlife Service (CWS) b) 1979, 1980, CWS Results not significantly different than those from whole egg analysis. California; Canada GC-EC
EGGS; TERRESTRIAL; BIRDS; FALCONS; ENVIRONMENTAL EXPOSURE; CALIFORNIA; CANADA; COMPARATIVE EVALUATIONS; MEASUREMENT METHODS; CHLORINE ORGANIC COMPOUNDS; DDE; INDUSTRIAL CHEMICALS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; POPULATION EXPOSURE Peakall, D.B.; Lew, T.S.; Springer, A.M.; Walker, W.; Risebrough, R.W.; Monk, J.G., Jarman, W.M.; Walton, B.J.; Reynolds, L.M.; Fyfe, R.W.; Kiff, L.F. 1983 Archives of Environmental Contamination and Toxicology 12:523-528				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Ferret, European
MUSTELA PUTORIUS FURO

Tissue	Cases Exposure Route	Range	Mean	General Information
2942 Blood	a) 10 b) 4 Ingestion	a) Not given b) Not given	a) 3155 dpm/ml b) 415 dpm/ml	a) 24 hr b) 168 hr At time indicated after 4.83 uCi in 7.5 g feed. 24 hr data include both pregnant and nonpregnant cases, 168 hr data nonpregnant controls. Scintillation counting
2943 Body	a) 4 b) 4 c) 3 d) 4 Placental Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.010% b) 0.037% c) 0.156% d) 0.282%	a) At birth, mother exposed in 1st trimester b) At birth, mother exposed in 3rd trimester c) 1 wk old, mother exposed in 1st trimester d) 1 wk old, mother exposed in 3rd trimester Birth dose assumed to be from placental transfer and 1 wk dose from milk. Fetus and newborn considered at risk. Scintillation counting
2944 Urine	14 Ingestion	0-2.2%	Not applicable	0-35 d, % dose recovered after 4.83 uCi in 7.5 g feed. 1.5% was recovered by d 3. Fecal excretion was 30% by d 35. Estimated from graph. Range of means. Scintillation counting

BLOOD; BODY; URINE; DELIBERATE EXPOSURE; FERRETS; ADULTS; JUVENILES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; DIETS; PREGNANCY; RADIONUCLIDES; TRANSPLACENTAL TRANSFER; LACTATION; TERRESTRIAL
Bleavins, M.R.; Breslin, W.J.; Aulerich, R.J.; Ringer, R.K. 1984 Environmental Toxicology and Chemistry 3:637-644

Flounder, fourspot
PARALICHTHYS OBLONGUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2945 Body	1	Not applicable	0.8 mg/l Wet wt	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Flounder, summer
PARALICHTHYS DENTATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2946 Body	10	0.2-22.0 mg/l Wet wt	9.3 mg/l Median, 7.4 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Flounder, windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2947 Liver	a) 18 b) 18 c) 10 d) 9 e) 15 f) 18 g) 18 h) 10 i) 9 j) 18 k) 10 l) 8 m) 14	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given	a) 1.2+/-0.309 ppm b) 1.9+/-1.230 ppm c) 1.6+/-1.830 ppm d) 1.8+/-1.380 ppm e) 1.2+/-0.777 ppm f) 1.5+/-0.455 ppm g) 1.7+/-0.382 ppm h) 1.1+/-0.734 ppm i) 0.6 ppm j) 1.5+/-0.813 ppm k) 2.0+/-1.870 ppm l) 2.3+/-1.740 ppm m) 0.88+/-0.484 ppm Wet wt	a) 5/80 b) 9/80 c) 11/80 d) 7/81 e) 5/80 f) 7/80 g) 9/80 h) 11/80 i) 5/80 j) 7/80 k) 11/80 l) 7/81 m) 7/82 Hempstead Harbor, NY a)-d), Milford, CT g)-j), Roanoke Point, NY k)-m). Length 18-35 cm. Long Island Sound AAS

LIVER; COPPER; CADMIUM; CONNECTICUT; NEW YORK; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE
Greig, R.A.; Schurman, S.; Pereira, J.; Naples, P. 1983 Bulletin of Environmental Contamination and Toxicology 31:257-262

Flounder, winter
PSEUDOPLEURONECTES AMERICANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2948 Body	44	0-22 mg/l Wet wt	6.4 mg/l Median, 6.8 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area

BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC
Weaver, G. 1984 Environmental Science and Technology 18:22A-27A

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Fulmar
FULMARUS GLACIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2949 Adipose	7 Ingestion	Not given	59+/-22 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen GC-EC
2950 Liver	10 Ingestion	Not given	1.6+/-0.4 ug/g Wet wt	Shot waterfowl. Diet of high trophic levels of pelagic animals, normal nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Levels intermediate in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Gadwall
ANAS STREPERA

Tissue	Cases Exposure Route	Range	Mean	General Information
2951 Adipose	1	Not applicable	3.6 ug/g Wet wt	Juvenile shot 10/79. Subcutaneous fat. Level highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
2952 Brain	1	Not applicable	0.12 ug/g Wet wt	Juvenile shot 10/79 New York, Hudson River GC-EC
2953 Muscle	1	Not applicable	0.20 ug/g Wet wt	Juvenile shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Gannet, cape
SULA CAPENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2954 Eggs	4	0.02-0.09 ug/g	0.05 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS
BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201				

Gar, spotted
LEPISOSTEUS OCULATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2955 Body	a) 1 b) 5	a) Not given b) 0.20-0.46 ppm Wet wt	a) 0.59 ppm b) 0.28 ppm Wet wt	a) Lake Providence, 11.1% lipids b) Lake Bruin, 2.7% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are fish. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Goatfish, gold band
UPENEUS MOLLUCENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2956 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Goby
ACANTHOGOBIUS FLAVIMANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2957 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 29 ppb b) 9 ppb c) 6 ppb d) 4 ppb Wet wt	a) Hiroshima b) Aichi c) Fukuoka d) Tottori Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Goldeneye
BUCEPHALA CLANGULA

Tissue	Cases Exposure Route	Range	Mean	General Information
2958 Adipose	1	Not applicable	1.2 ug/g Wet wt	Juvenile collected 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara River GC-EC
2959 Brain	1	Not applicable	0.33 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC
2960 Liver	1	Not applicable	0.41 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
2961 Adipose	a) 135 b) 16 c) 29 Ingestion	a) 0.051-24.0 mg/kg b) Not detected-3.01 mg/kg c) 0.59-8.49 mg/kg Wet wt	a) 6.29 mg/kg b) 0.031 mg/kg c) 2.87 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. a) Considered moderately high. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Goose, Canada
BRANTA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2962 Liver	2	0.28-0.43 ug/g Wet wt	0.36 ug/g Wet wt	Adults collected 6/77 (diazinon poisoning) and 3/79 (trauma). New York, Hudson River region GC-EC
2963 Muscle	2	0.40-0.50 ug/g Wet wt	0.45 ug/g Wet wt	Adults collected 6/77 (diazinon poisoning) and 3/79 (trauma). Breast muscle New York, Hudson River region GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Grackle
QUISCALUS QUISCULA

Tissue	Cases Exposure Route	Range	Mean	General Information
2964 Body	a) 15 b) 12 c) 24 Ingestion	a) 22,600-98,600 ppm b) 6,690-22,500 ppm c) 1,300-169 ppm	a) Not applicable b) Not applicable c) Not applicable	a) 2-8 d, died b) 2-8 d, sacrificed c) 0-224 d following 8 d exposure 1500 ppm, dietary dose. Lipid basis, a), b). Wet wt basis, c). Mortality and rate of elimination both associated with lipid levels. Estimated from graph. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC
2965 Brain	a) 15 b) 12 c) 24 Ingestion	a) 349-763 ppm b) 55-225 ppm c) 156-35 ppm Wet wt	a) 579+/-117.7 ppm b) 156+/-49.1 ppm c) Not applicable Wet wt	a) Died d 8 on dose of 1500 ppm Araclor 1254. 50% mortality point b) Survivors sacrificed at 50% mortality point c) Dietary PCBs (1500 ppm) for 8 d, then normal diet for 224 d. Gradual loss of residues, range of means Lethal brain level considered 310 ppm. Estimated from graph. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC
BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13				

Grebe, eared
PODICEPS CASPICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2966 Adipose	1	Not applicable	0.05 ug/g Wet wt	Juvenile collected 12/79. Subcutaneous fat. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara River GC-EC
2967 Brain	1	Not applicable	2.2 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC
2968 Liver	1	Not applicable	1.3 ug/g Wet wt	Juvenile collected 12/79 New York, Niagara River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Grebe, eared
PODICEPS CASPICUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
2969 Muscle	1	Not applicable	0.45 ug/g Wet wt	Juvenile collected 12/79. Breast muscle New York, Niagara River C-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Guillemot, Brunnich's
URIA LOMVIA

Tissue	Cases Exposure Route	Range	Mean	General Information
2970 Liver	9 Ingestion	Not given	0.4+/-0.2 ug/g Wet wt	Shot waterfowl. Diet of fish, pelagic crustaceans. Lean nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Lowest levels in waterfowl studied. Average body wt 860 g. Norway, Svalbard, Spitsbergen Disease found in one specimen GC-EC
LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152				

Gull
LARUS RIDIBUNDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2971 Adipose				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
2972 Liver				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Gull, glaucous
LARUS HYPERBOREUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2973 Adipose	6 Ingestion	Not given	82+/-54 ug/g Wet wt	Shot waterfowl. Omnivorous scavengers, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard; Spitbergen GC-EC
2974 Liver	11 Ingestion	Not given	6.1+/-6.7 ug/g Wet wt	Shot waterfowl. Omnivorous scavengers, above average nutritional condition. Few juveniles. Relationship between trophic level and amount of chlorinated hydrocarbons. Highest levels in waterfowl studied. Average body wt 2000 g. Norway, Svalbard; Spitbergen GC-EC

LIVER; ADIPOSE TISSUE; MERCURY; PESTICIDE RESIDUES; DIETS; BIOACCUMULATION; NORWAY; BIOLOGICAL MONITORING; BIOMAGNIFICATION; BIPHENYL COMPOUNDS; AQUATIC; BIRDS; ENVIRONMENTAL EXPOSURE; WATERFOWL; WATER POLLUTION; FOOD CONTAMINATION; AUTOPSIES; DDE; HEXACHLOROBENZENE; CHLORINATED HYDROCARBONS
Norheim, G.; Kjos-Hanssen, B. 1984 Environmental Pollution (Series A) 33:143-152

Gull, grey-headed
LARUS CIRROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2975 Eggs	4	0.38-1.06 ug/g	0.59 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Gull, herring
LARUS ARGENTATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2976 Eggs				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Gull, kelp
LARUS DOMINICANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2977 Eggs	15	0.03-1.56 ug/g	0.85 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS
BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201				

Hairtail
TRICHIURUS LEPTURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2978 Body	1	Not applicable	47 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Shikoku GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Hake, red
UROPHYCIS CHUSS

Tissue	Cases Exposure Route	Range	Mean	General Information
2979 Body	1	Not given	<0.1 mg/l Wet wt	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Hake, silver
MERLUCCIUS BILINEARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
2980 Body	2	0.7-6.4 mg/l Wet wt	3.5 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Heron, black-crowned night
NYCTICORAX NYCTICORAX

Tissue	Cases Exposure Route	Range	Mean	General Information
2981 Eggs	147	0.37-46 ppm	3.9 ppm Geometric mean	Collected between May 17 and June 1, 1979. Possible sources: nesting and feeding habitats, or migration routes and wintering grounds in Mexico. Shell thicknesses inversely correlated with levels in eggs. Colorado; Wyoming GC; EC
EGGS; BIRDS; ENVIRONMENTAL EXPOSURE; COLORADO; WYOMING; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; OXYCHLORDANE; NONACHLOR; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE; POLYCHLORINATED BIPHENYLS; ANIMAL POPULATIONS; BIOLOGICAL MONITORING; PESTICIDE RESIDUES; LAND POLLUTION; WATER POLLUTION; AQUATIC McEwen, L.C.; Stafford, C.J.; Hensler, G.L 1984 Environmental Toxicology and Chemistry 3:367-376				

Heron, green-backed
BUTORIDES STRIATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2982 Adipose	4 Ingestion	Not given	5.95 ppm Wet wt	Composite from birds shot in 1980. Residues linked to fish diet. Louisiana, Lake Providence GC; GC/MS
2983 Body	a) 12 b) 14 Ingestion	a) 0.24-4.79 ppm b) Not detected-1.97 ppm Wet wt	a) 0.72 ppm b) 0.43 ppm Wet wt Geometric means	a) Adults, mean lipid 16.2% b) Immature, mean lipid 14.8%, 13 had detectable levels Collected (shot) in 1980. Beak, feet, wing tips, skin, GI tract removed before homogenization. Residues linked to fish diet. Louisiana, Lake Province, Lake Bruin, Lake St. John GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 38:491-498				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Heron, green-backed
BUTORIDES STRIATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2984 Body	a) 10 b) 9 c) 6	a) 0.56-4.79 ppm b) Not detected-1.48 ppm c) 0.24-0.66 ppm Wet wt	a) 0.82 ppm b) 0.43 ppm c) 0.40 ppm Wet wt	a) Lake Providence, 11.4% lipids b) Lake Bruin, 12.9% lipids c) Lake St. John, 26.7% lipids Collected between 6/15-9/25/80. Tertiary consumers, major foods are fish. Lakes acting as sumps. Immature birds are good monitors of contamination. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Tissue	Cases Exposure Route	Range	Mean	General Information
2985 Liver	4 Ingestion	Not given	0.21 ppm Wet wt	Composite from birds shot in 1980. Residues linked to fish diet. Louisiana, Lake Providence GC; GC/MS
2986 Muscle	4 Ingestion	Not given	0.12 ppm Wet wt	Composite from birds shot in 1980. Residues linked to fish diet. Louisiana, Lake Providence GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 38:491-498				

Heron, little blue
EGRETTA CAERULEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2987 Body	a) 6 b) 15 Ingestion	a) Not detectable-2.22 ppm b) Not detected-0.62 ppm Wet wt	a) 0.50 ppm b) 0.17 ppm Wet wt Geometric means	a) Adults, 5 had detectable levels, mean lipid 10.8% b) Immature, 10 had detectable levels, mean lipid 8.2% Collected (shot) 1980. Beak, feet, skin, wing tips and GI tracts removed before homogenization. Moderate residues linked to mixed diet of fish, crustaceans and insects. Louisana, Lake Providence, Lake Bruin, Lake St. John GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 38:491-498				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Heron, little blue
EGRETTA CAERULEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2988 Body	a) 4 b) 5 c) 6	a) Not detected-0.36 ppm b) Not detected-2.22 ppm c) 0.27-0.79 ppm Wet wt	a) 0.14 ppm b) 0.19 ppm c) 0.46 ppm Wet wt	a) Lake Providence, 3.7% lipids b) Lake Bruin, 6.0% lipids c) Lake St. John, 18.2% lipids Collected 6/15-9/25/80. Tertiary consumer, major foods are small fish and invertebrates. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Heron, yellow-crowned night
NYCTICORAX VIOLACEUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2989 Body	a) 4 b) 13 Ingestion	a) Not detected-1.07 ppm b) Not detected-0.55 ppm Wet wt	a) 0.27 ppm b) 0.09 ppm Wet wt Geometric means	a) Adult, 2 had detectable levels, mean lipid 18.7% b) Immature, 5 had detectable levels, mean lipid 8.6% Collected (shot) 1980. Beak, feet, wing tips, skin, and GI tract removed before homogenization. Low residues linked to crayfish diet. Louisana, Lake Providence, Lake Bruin, Lake St. John GC; GC/MS
CHLORINE ORGANIC COMPOUNDS; FISHES; LOUISIANA; PESTICIDE RESIDUES; BIOACCUMULATION; DIETS; ADIPOSE TISSUE; LIVER; MUSCLES; BRAIN; BIOLOGICAL MONITORING; ENVIRONMENTAL EXPOSURE; BIRDS; WATERFOWL; AQUATIC; TERRESTRIAL; WATER POLLUTION; DDD; DDE; DDT; DIELDRIN; POLYCHLORINATED BIPHENYLS Niethammer, K.R.; Baskett, T.S.; White, D.H. 1984 Bulletin of Environmental Contamination and Toxicology 38:491-498				

Tissue	Cases Exposure Route	Range	Mean	General Information
2990 Body	a) 5 b) 2	a) Not detected-1.07 ppm b) 0.17-0.37 ppm Wet wt	a) 0.11 ppm b) 0.25 ppm Wet wt	a) Lake Providence, 11.4% lipids b) Lake St. John, 17.4% lipids Collected 6/15-9/25/80. Secondary consumer. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Herring
CLUPEA HARENGUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2991 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Hobby
FALCO SUBBUTEO

Tissue	Cases Exposure Route	Range	Mean	General Information
2992 Eggs	a) 3 b) 4 Ingestion	a) Not given b) Not given	a) 3.282 ppm b) 1.389 ppm Wet wt	a) Collected 1982 b) 1983. Spain GLC

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL
Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
2993 Eggs	a) 2 b) 5 c) 4 Ingestion	a) Not given b) Not given c) Not given	a) 0.766 ppm b) 9.615 ppm c) 0.806 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain GLC

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL
Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2994 Eggs	a) 4 b) 4 c) 2 Ingestion	a) Not given b) Not given c) Not given	a) 2.007 ppm b) 2.151 ppm c) 3.714 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain GLC
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Limpet
PATELLA CAERULEA

Tissue	Cases Exposure Route	Range	Mean	General Information
2995 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Lobster, Atlantic
HOMARUS AMERICANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2996 Body	a) 183 b) 66	a) 0.1-84.0 ppm b) 0.7-8.8 ppm	a) 8.7 ppm Median: 4.9 ppm b) 4.4 ppm Median: 4.1 ppm	a) Between 1976-1980, b) April-December 1982 Edible tissues Massachusetts, Buzzards Bay and Acushnet River
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Loon, common
GAVIA IMMER

Tissue	Cases Exposure Route	Range	Mean	General Information
2997 Adipose	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10 g) 11	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 29.2 ug/g b) 103 ug/g c) 126 ug/g d) 855 ug/g e) 1224 ug/g f) 1570 ug/g g) 265+/-100 ug/g Wet wt	a) Healthy juveniles, 74% fat b) Healthy adult males, 66% fat c) Healthy adult females, 73% fat d) Emaciated juveniles, 67% fat e) Emaciated adult males, 54% fat f) Emaciated adult females, 56% fat g) Healthy, collected in 1978-79, 62.0+/-13.1% fat a-f) Collected in 1971-1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2998 Blood	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.04+/-0.07 mg/kg b) 0.24+/-0.59 mg/kg c) 2.33+/-2.30 mg/kg Wet wt	a) 0.3+/-0.2% fat in healthy juveniles b) 0.8+/-1.7% fat in healthy adults c) 0.4+/-0.6% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
2999 Brain	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10 g) 11 h) 38 i) 1	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 0.61 ug/g b) 1.77 ug/g c) 1.98 ug/g d) 45.5 ug/g e) 58.5 ug/g f) 62.9 ug/g g) 6.2+/-2.6 ug/g h) 1.2+/-1.4 ug/g i) 39 ug/g Wet wt	a) Healthy juveniles, 6.8% fat b) Healthy adult males, 6.9% fat c) Healthy adult females, 6.9% fat d) Emaciated juveniles, 7.2% fat e) Emaciated adult males, 7.1% fat f) Emaciated adult females, 6.2% fat g) Unknown condition, 7.76+/-1.12% fat h) Healthy, 6.16+/-0.59% fat i) Emaciated, 7.13% fat a-f) Collected in 1971-74, g) in 1969 h-i) in 1978-79. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3000 Embryos	a) 34 b) 15 c) 12 d) 19	a) Not given b) Not given c) Not given d) Not given	a) 33+/-45 ug/g b) 65+/-59 ug/g c) 10.5+/-5.3 ug/g d) 6.1+/-3.5 ug/g Wet wt	a) Collected in 1970 from Algonquin b) In 1972 from Algonquin-Parry Sound c) In 1978 from Algonquin-Parry Sound d) In 1979-80 same as c) Showed decline in organochlorine contaminants. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Loon, common
GAVIA IMMER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3001 Feathers	103	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.53 mg/kg b) 2.34 mg/kg c) 1.75 mg/kg d) 1.80 mg/kg e) 6.78 mg/kg f) 4.83 mg/kg g) 13.4 mg/kg h) 4.56 mg/kg Wet wt	a) From back of healthy juveniles, 4.3% fat b) From belly of healthy juveniles, 2.9% fat c) From back of healthy adults, 2.2% fat d) From belly of healthy adults, 1.5% fat e) From back of emaciated juveniles, 3.3% fat f) From belly of emaciated juveniles, 0.3% fat g) From back of emaciated adults, 0.5% fat h) From belly of emaciated adults, 0.3 % fat Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3002 Gizzard	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.88+/-0.93 mg/kg b) 3.94+/-5.25 mg/kg c) 10.6+/-7.00 mg/kg Wet wt	a) 2.9+/-2.6% fat in healthy juveniles b) 2.8+/-3.0% fat in healthy adults c) 1.1+/-1.6% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3003 Heart	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 1.08+/-2.36 mg/kg b) 9.72+/-9.97 mg/kg c) 37.3+/-21.7 mg/kg Wet wt	a) 5.3+/-2.4% fat in healthy juveniles b) 4.4+/-2.7% fat in healthy adults c) 1.1+/-1.3% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3004 Intestine	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 2.12+/-2.26 mg/kg b) 7.40+/-9.85 mg/kg c) 35.4+/-32.4 mg/kg Wet wt	a) 6.4+/-8.2% fat in healthy juveniles b) 4.9+/-3.9% fat in healthy adults c) 2.9+/-3.8% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3005 Kidney	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.20+/-0.25 mg/kg b) 1.97+/-2.06 mg/kg c) 58.7+/-43.7 mg/kg Wet wt	a) 3.1+/-1.6% fat in healthy juveniles b) 1.6+/-1.5% fat in healthy adults c) 1.2+/-0.5% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3006 Liver	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.75 ug/g b) 4.20 ug/g c) 5.52 ug/g d) 68.9 ug/g e) 87.1 ug/g f) 81.8 ug/g Wet wt	a) Healthy juveniles, 2.6% fat b) Healthy adult males, 3.5% fat c) Healthy adult females, 3.8% fat d) Emaciated juveniles, 2.0% fat e) Emaciated adult males, 3.3% fat f) Emaciated adult females, 1.7% fat Adults with higher levels than juveniles. Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro deriva (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Loon, common
GAVIA IMMER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3007 Lung	a) 8 b) 13 c) 10	a) Not given b) Not given c) Not given	a) 0.14+/-0.16 mg/kg b) 2.68+/-5.53 mg/kg c) 13.1+/-11.8 mg/kg Wet wt	a) 2.0+/-1.0% fat in healthy juveniles b) 1.2+/-0.7% fat in healthy adults c) 0.4+/-0.1% fat in emaciated adults Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3008 Muscle	a) 21 b) 49 c) 58 d) 6 e) 13 f) 10 g) 41	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 1.78 ug/g b) 4.47 ug/g c) 4.39 ug/g d) 10.1 ug/g e) 23.4 ug/g f) 19.8 ug/g g) 3.2+/-4.0 ug/g Wet wt	a) Healthy juveniles, 5.4% fat b) Healthy adult males, 4.4% fat c) Healthy adult females, 4.4% fat d) Emaciated juveniles, 0.5% fat e) Emaciated adult males, 1.2% fat f) Emaciated adult females, 0.3% fat g) Healthy, collected in 1978-79, 2.59+/-1.16% fat a-f) Collected in 1971-1974. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3009 Uropygial gland	a) 15 b) 72 c) 3 d) 13	a) Not given b) Not given c) Not given d) Not given	a) 8.76 mg/kg b) 43.3 ug/kg c) 255 mg/kg d) 394 mg/kg Wet wt	a) Healthy juveniles, 34% fat b) Healthy adults, 36% fat c) Emaciated juveniles, 25% fat d) Emaciated adults, 27% fat Residues could be lost through this gland. Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3010 Uropygial oil	a) 15 b) 72 c) 3 d) 13	a) Not given b) Not given c) Not given d) Not given	a) 29.9 mg/kg b) 104 mg/kg c) 275 mg/kg d) 549 mg/kg Wet wt	a) Healthy juveniles, 42% fat b) Healthy adults, 51% fat c) Emaciated juveniles, 65% fat d) Emaciated adults, 33% fat Residues could be lost through this substance. Collected in 1971-74. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC

EGGS; BRAIN; ADIPOSE TISSUE; LIVER; MUSCLES; FEATHERS; INTESTINES; EMBRYOS; DDT; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; MERCURY; CHLORINE ORGANIC COMPOUNDS; PESTICIDES; PESTICIDE RESIDUES; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; LUNGS; GIZZARD; BLOOD; HEART; KIDNEYS

Frank, R.; Lumsden, H.; Barr, J.F.; Braun, H.E. 1983 Archives of Environmental Contamination and Toxicology 12:641-654

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Mackerel
PNEUMATOPHORUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3011 Body	1	Not applicable	29 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Shizuoka GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Mackerel, horse
TRACHURUS JAPONICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3012 Body	1	Not applicable	17 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Wakayama GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Merganser, American
MERGUS MERGANSER

Tissue	Cases Exposure Route	Range	Mean	General Information
3013 Adipose	4	1.7-9.8 ug/g Wet wt	5.6 ug/g Wet wt	Adults collected 12/79. Subcutaneous fat. Mean level lower than in breast muscle (7.79 ug/g), but exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. Levels higher in mergansers (3 sp.) than in 15 other species but no significant difference due to age, sex or collection site. New York, Niagara River GC-EC
3014 Brain	6	0.30-2.30 ug/g Wet wt	1.25 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Merganser, American
MERGUS MERGANSER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3015 Liver	5	0.77-2.90 ug/g Wet wt	1.73 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC
3016 Muscle	6	0.61-20.0 ug/g Wet wt	7.79 ug/g Wet wt	Adults collected 12/79. Breast muscle. Mean level higher than in subcutaneous fat (5.6 ug/g), brain and liver. NY and NJ hunters warned about consuming contaminated waterfowl. Levels significantly higher than in mallard and black ducks. New York, Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Merganser, hooded
LOPHODYTES CACULLATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3017 Adipose	1	Not applicable	3.9 ug/g Wet wt	Adult collected 12/79. Subcutaneous fat. Mean highest of 3 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. Levels higher in mergansers (3 sp.) than in 15 other species but no significant difference due to age, sex or collection site. New York, Niagara River GC-EC
3018 Liver	1	Not applicable	1.3 ug/g Wet wt	Adult collected 12/79 New York, Niagara River GC-EC
3019 Muscle	1	Not applicable	1.6 ug/g Wet wt	Adult collected 12/79. Breast muscle. Levels significantly higher than in mallard and black ducks. New York, Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Merganser, red-breasted
MERGUS SERRATOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3020 Adipose	2	1.2-26.0 ug/g Wet wt	13.6 ug/g Wet wt	Adults collected 12/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. Levels higher in mergansers (3 sp.) than in 15 other species but no significant difference due to age, sex or collection site. New York, Niagara River GC-EC
3021 Brain	2	0.11-0.43 ug/g Wet wt	0.27 ug/g Wet wt	Adults collected 12/79 New York, Niagara River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Tissue	Cases Exposure Route	Range	Mean	General Information
3022 Eggs	a) 49 b) 49	a) Not applicable b) Not applicable	a) 17.58 ppm b) 19.29 ppm Wet wt Geometric means	a) Randomly selected b) Unhatched Collected 1977, pairs from same nests analyzed. No significant difference. Lower limit 0.50 ppm. Lake Michigan, northwestern islands GLC

EGGS; AQUATIC; BIRDS; WATERFOWL; ENVIRONMENTAL EXPOSURE; GREAT LAKES; BROMINATED HYDROCARBONS; CHLORINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; HEXACHLOROBENZENE; INSECTICIDES; MERCURY; NONACHLOR; OXYCHLORDANE; PESTICIDES; POLYBROMINATED BIPHENYLS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION

Haseltine, S.D.; Heinz, G.H.; Hensler, G.L.; Reichel, W.L. 1983 Environmental Pollution 32:211-232

Tissue	Cases Exposure Route	Range	Mean	General Information
3023 Liver	3	0.74-1.70 ug/g Wet wt	1.07 ug/g Wet wt	Adults collected 12/79 New York, Niagara River 1 GC-EC

(next page)

Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Merganser, red-breasted
MERGUS SERRATOR

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3024 Muscle	2	0.71-0.74 ug/g Wet wt	0.725 ug/g Wet wt	Adults collected 12/79. Breast muscle. Levels significantly higher than in mallard and black ducks. New York, Niagara River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC

Kim, K.S., Pastel, M.J.; Kim, J.S ; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Mullet
MUGIL CEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3025 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 66 ppb b) 74 ppb c) 95 ppb d) 85 ppb Wet wt	a) Osaka b) Tottori c) Ekime d) Kagawa Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; PROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I ; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-623

Tissue	Cases Exposure Route	Range	Mean	General Information
3026 Muscle	4	Not given	0.3 ppm Wet wt	Collected 2/80. 72% octachlorobiphenyl Italy, Sicily, Augusta Bay GC-MS

CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY, BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES

Castelli, M.G., Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3) 291-298

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Mullet, golden gray
MUGIL AURATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3027 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals=of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Mullet, red
MULLUS SURMULETUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3028 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Mullet, striped
MULLUS BARBATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3029 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Murex

Tissue	Cases Exposure Route	Range	Mean	General Information
3030 Body	15	Not given	0.01 ppm Wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3):291-298				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Mussel
MYTILUS GALLOPROVINCIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3031 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Tissue	Cases Exposure Route	Range	Mean	General Information
3032 Body	a) 1 b) 1 c) 1 d) 1	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 188 ppb b) 35 ppb c) 17 ppb d) 16 ppb Wet wt	a) Osaka b) Wakayama c) Ekime d) Oita Collected offshore 10/81. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION
Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Mussel, blue
MYTILUS EDULIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3033 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION
Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Myctophid
DIAPHUS SUBORBITALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3034 Body	Ingestion	Not given	48 ug/kg	Seawater levels 0.04-0.59 ng/l (mean 0.28 ng/l). Bioconcentration factor 170. Pacific Ocean GC-EC
BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738				

Nudibranch

Tissue	Cases Exposure Route	Range	Mean	General Information
3035 Body	5	Not given	0.4 ppm Wet wt	Collected 2/80. Hexachlorobiphenyls dominant Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3):291-298				

Oyster, American
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3036 Body	a) 213 b) 138 c) 96 d) 262 e) 379 Ingestion	a) Not detected-0.07 ug/g b) Not detected-0.07 ug/g c) Not detected-0.07 ug/g d) Trace-0.20 ug/g e) Not detected-0.40 ug/g Wet wt	a) 0.02 ug/g b) 0.02 ug/g c) 0.02 ug/g d) 0.02 ug/g e) 0.01 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. DDT metabolites (DDE, DDD) and chlordane decrease after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC
CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Oystercatcher, African black
HAEMATOPUS MOQUINI

Tissue	Cases Exposure Route	Range	Mean	General Information
3037 Eggs	5	0.24-1.20 ug/g	0.63 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS
BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201				

Penguin, *jackass*
SPHENISCUS DEMERSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3038 Eggs	20	0.06-0.54 ug/g	0.24 ug/g	21 eggs analyzed. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS
BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201				

Pike
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3039 Liver	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.22 +or- 0.23 mg/kg b) 0.27 +or- 0.23 mg/kg c) 0.50 +or- 0.24 mg/kg Wet wt	a) Southern lakes b) Northern lakes c) Baltic Sea Expressed as Clophen A 60 Collected at 75 sampling stations, 1-4/82 Length 41-72 cm, wt 480-6000 g, 0.51-1.38% fat Finland GC/MS; GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Pike
ESOX LUCIUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3040 Muscle	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.049 +or- 0.023 mg/kg b) 0.042 +or- 0.027 mg/kg c) 0.046 +or- 0.022 mg/kg Wet wt	a) Southern lakes b) Northern lakes c) Baltic Sea Expressed as Clophen A 60. Collected at 75 sampling stations, 1-4/82. Length 41-72 cm, wt 480-6000 g, 0.51-1.38% fat Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3041 Adipose	a) 50 b) 28 c) 20 d) 7 Ingestion	a) Not detected-81.3 mg/kg b) Not detected-4.62 mg/kg c) Not detected-1.07 mg/kg d) Not detected-3.78 mg/kg Wet wt	a) 1.07 mg/kg b) 1.67 mg/kg c) 0.020 mg/kg d) 0.11 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Lake Wabamun, isolated watershed d) McGregor Lake Intestinal fat. d) Considered low. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Pilchaid

Tissue	Cases Exposure Route	Range	Mean	General Information
3042 Muscle	5	Not given	3.96 ppm Wet wt	Collected 2/80. Major components: penta-, hexa-, hepta-, octachlorobiphenyls Italy, Sicily, Augusta Bay GC-MS
CRUSTACEANS; MOLLUSKS; MUSCLES; MEASUREMENT METHODS; ITALY; BODY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES Castelli, M.G.; Martelli, G.P.; Spagone, C.; Cappellini, L.; Fanelli, R. 1983 Chemosphere 12(3):291-298				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Puffin
FRATERCULA ARCTICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3043 Brain	a) 10 b) 10 c) 10 Ingestion	a) 1295-8717 ng/g b) 485-3901 ng/g c) 65-576 ng/g Fat wt	a) 2902+/-7024 ng/g b) 1959+/-1072 ng/g c) 313+/-166 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82 b) Chicks collected at Hernyken, Rost, 7/82 c) Chicks collected at Hernyken, Rost, 7/82. Norway GC
3044 Eggs	20 Ingestion	5182-16,420 ng/g Fat wt	8300+/-2684 ng/g Fat wt	Collected at Hernyken, Rost, during 5/83. Norway GC
3045 Liver	Ingestion	a) 6667-47,291 ng/g b) 1890-123,088 ng/g c) 3137-28,392 ng/g d) 148-2655 ng/g e) 3137-16,364 ng/g f) 3696-28,381 ng/g g) 6667-47,292 ng/g h) 8012-46,471 ng/g Fat wt	a) 20,605+/-12,289 ng/g b) 57,575+/-39,533 ng/g c) 10,979+/-6613 ng/g d) 1241+/-984 ng/g e) 10,190+/-4491 ng/g f) 12,510+/-9156 ng/g g) 17,407+/-11,920 ng/g h) 23,938+/-11,920 ng/g Fat wt	a) Adults collected at Hernyken, Rost, 7/82, 19 cases b) Adults collected at Hornoy 7/82, 12 cases c) Rost, 7/82, chicks, 17 cases d) Rost, 7/83, chicks, 10 cases e) Rost, 1982, female chicks, 7 cases f) male chicks, 7 cases g) Rost, 1982, female adults, 8 cases h) Male adults, 11 cases. Norway GC
3046 Uropygial gland	19 Ingestion	a) 5611-41,132 ng/g b) 11,722-152,932 ng/g c) 5611-27,980 ng/g d) 28,147-41,132 ng/g Fat wt	a) 21,887+/-11,635 ng/g b) 60,511+/-50,467 ng/g c) 14,963+/-8351 ng/g d) 33,427+/-5572 ng/g Fat wt	a) Collected at Hernyken, Rost, 7/82, 8 cases b) Collected at Hornoy, 7/82, 11 cases c) Females, collected at Hernyken, Rost, in 7/82, 5 cases d) Males, 3 cases. Norway GC
LIVER; BRAIN; UROPYGIAL GLAND; EGGS; WATERFOWL; AQUATIC; ENVIRONMENTAL EXPOSURE; NORWAY; ADULTS; JUVENILES; ALDRIN; DDE; HEXACHLOROBENZENE; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; DIELDRIN; PESTICIDES; BIOACCUMULATION; FOOD CONTAMINATION; WATER POLLUTION; INDUSTRIAL POLLUTION; PESTICIDE RESIDUES Ingebrigtsen, K.; Skaare, J.U.; Teigen, S.W. 1984 Journal of Toxicology and Environmental Health 14:813-828				

Roach
RUTILUS RUTILUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3047 Muscle	11	Not given	0.12+/-0.057 mg/kg Wet wt	Expressed as Clophen A 60. Collected at 12 lake sampling stations, 2/82. Length 16-18 cm, wt 48.5-54.0 g, 1.31% fat. Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Robin
TURDUS MIGRATORIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3048 Brain	2	<0.0001-6.74 ppm	1.48 ppm	None in 4 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
3049 Heart	1	<0.0001-1.15 ppm	0.288 ppm	None in 3 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC

ADIPOSE TISSUE; BRAIN; MUSCLES; LIVER; HEART; TERRESTRIAL; BIRDS; ENVIRONMENTAL EXPOSURE; ILLINOIS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FOOD CONTAMINATION; PESTICIDE RESIDUES

Edwards, W R ; Duzan, R.E.; Siemers, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:407-414

Sardine
SARDINOPS MELANOSTICTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3050 Body	a) 2 b) 1	a) 64-188 ppb wet wt b) Not applicable	a) 126 ppb b) 8 ppb Wet wt	a) Wakayama b) Chiba Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan GC/MS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION

Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620

Sauger
STIZOSTEDION CANADENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
3051 Adipose	Ingestion	a) 2.03-15.4 mg/kg b) 2.34-17.6 mg/kg c) 0.54-20 03 mg/kg Wet wt	a) 5.34 mg/kg b) 3.57 mg/kg c) 6.01 mg/kg Wet wt	a) Red Deer River, below city of Red Deer b) South Saskatchewan River c) Oldman River Intestinal fat. Lindane (gamma-BHC), detected in c), widely used pesticide. a) and c) Considered moderately high. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE

Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y ; McGuinness, E.; Moore, L.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Biphenyl, chloro (8 CI); 1,1'-Biphenyl, chloro derivs (9 CI)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Saury, Pacific
COLOLABIS SAIRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3052 Body	1	Not applicable	10 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Iwate GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Scaup, greater
AYTHYA MARILA

Tissue	Cases Exposure Route	Range	Mean	General Information
3053 Adipose	4	2.1-15.0 ug/g Wet wt	7.1 ug/g Wet wt	3 adults, 1 juvenile collected 10/79 and 1/80. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Niagara River and Long Island GC-EC
3054 Brain	4	0.02-1.90 ug/g Wet wt	0.88 ug/g Wet wt	3 adults, 1 juvenile collected 12/79 and 1/80. New York, Long Island and Niagara River GC-EC
3055 Liver	3	0.22-2.10 ug/g Wet wt	1.21 ug/g Wet wt	2 adults, 1 juvenile collected 12/79 New York, Long Island and Niagara River GC-EC
3056 Muscle	4	0.11-2.20 ug/g Wet wt	0.73 ug/g Wet wt	3 adults, 1 juvenile collected 12/79 and 1/80. Breast muscle. Substantially lower levels than in fat. New York, Long Island and Niagara River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Scorpionfish
SEBASTES INERMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3057 Body	1	Not applicable	7 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Aomori GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Scoter, surf
MELANITTA PERSPICILLATA

Tissue	Cases Exposure Route	Range	Mean	General Information
3058 Adipose	1	Not applicable	14.0 ug/g Wet wt	Juvenile shot 10/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
3059 Liver	1	Not applicable	0.69 ug/g Wet wt	Juvenile shot 10/79 New York, Hudson River GC-EC
3060 Muscle	1	Not applicable	0.71 ug/g Wet wt	Juvenile shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Scoter, white-winged
MELANITTA DEGLANDI

Tissue	Cases Exposure Route	Range	Mean	General Information
3061 Adipose	2	5.4-11.0 ug/g Wet wt	8.2 ug/g Wet wt	Adults shot 10/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. NY and NJ hunters warned about consuming contaminated waterfowl. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Scoter, white-winged
MELANITTA DEGLANDI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3062 Brain	1	Not applicable	0.26 ug/g Wet wt	Adult shot 10/79 New York, Hudson River GC-EC
3063 Liver	2	0.47-0.83 ug/g Wet wt	0.65 ug/g Wet wt	Adults shot 10/79 New York, Hudson River GC-EC
3064 Muscle	2	0.22-0.94 ug/g Wet wt	0.58 ug/g Wet wt	Adults shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Scup
STENOTOMUS CHRYSOPS

Tissue	Cases Exposure Route	Range	Mean	General Information
3065 Body	50	0-11.4 mg/l Wet wt	2.1 mg/l Median, 2.3 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Seal, harbour
PHOCA VITULINA

Tissue	Cases Exposure Route	Range	Mean	General Information
3066 Adipose	137	a) 5-2500 mg/kg b) Not given c) Not given	a) 89 mg/kg b) 88 mg/kg c) 90 mg/kg	a) Blubber lipid, seals found dead on coast, 1972-1981 b) Males of a), 58 cases c) Females of a), 79 cases Additional data given. Netherlands, coast GLC
ADIPOSE TISSUE; SEALS; AQUATIC; ENVIRONMENTAL EXPOSURE; NETHERLANDS; POLYCHLORINATED BIPHENYLS Van der Zande, T.; De Ruiter, E. 1983 Science of the Total Environment 27:133-147				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3067 Adipose	227 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.27+/-2.85 mg/kg b) 1.90+/-1.21 mg/kg c) 2.62+/-3.40 mg/kg d) 2.30+/-1.69 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Blubber greatest accumulator. Males accumulated with age. Levels from northern and southern sites similar, indicated single migratory stock. Adult males Gulf of St. Lawrence highest levels. Levels appeared to be decreasing, no clinical effects apparent. Highest overall means. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3068 Blood	146 Ingestion	a) Not given b) Not given	a) 0.01+/-0.01 mg/kg b) 0.01+/-0.02 mg/kg	a) Males b) Females 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3069 Brain	91 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.03+/-0.03 mg/kg b) 0.03+/-0.02 mg/g c) 0.38+/-0.28 mg/kg d) 0.38+/-0.30 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Lowest levels of bioaccumulation of tissues studied. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3070 Kidney	124 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.05+/-0.04 mg/kg b) 0.07+/-0.07 mg/kg c) 3.82+/-4.17 mg/kg d) 3.00+/-1.92 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

(next page)

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3071 Liver	124 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.08+/-0.10 mg/kg b) 0.06+/-0.04 mg/kg c) 4.74+/-6.92 mg/kg d) 2.94+/-2.17 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3072 Muscle	123 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.09+/-0.21 mg/kg b) 0.04+/-0.04 mg/kg c) 4.74+/-5.57 mg/kg d) 4.35+/-3.91 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

SEALS; CHLORINE ORGANIC COMPOUNDS; ADIPOSE TISSUE; BLOOD; BRAIN; LIVER; KIDNEYS; MUSCLES; DDT; DIELDRIN; HEXACHLOROBENZENE; HEPTACHLOR EPOXIDE; ATLANTIC; ARCTIC; CANADA; BIOACCUMULATION; PESTICIDE RESIDUES; BIOLOGICAL MONITORING; AGE; GREENLAND; POLYCHLORINATED BIPHENYLS; SEX; METABOLITES; DDE; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:133-152

Seal, Weddell
LEPTONYCHOTES WEDDELLI

Tissue	Cases Exposure Route	Range	Mean	General Information
3073 Adipose	a) 1 b) 1 c) 1	a) 23.6-32.6 ng/g b) 37.0-38.4 ng/g c) 3.17-5.41 ng/g Fresh wt	a) Not applicable b) Not applicable c) Not applicable	a) Female, age 3 yr + 11 mo, fat 77-89% b) Male, age 13 or 14 yr, fat 90-92% c) Male, newborn, fat 24-34%, collected 10/27/81 a) -b) collected 10/9/81. Antarctica, Syowa Station GC/MS

ADIPOSE TISSUE; SEALS; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; ANTARCTICA; CHLORINE ORGANIC COMPOUNDS; NONACHLOR; OXYCHLORDANE; DDT; POLYCHLORINATED BIPHENYLS; PESTICIDES; AIR POLLUTION; ATMOSPHERE; PESTICIDE RESIDUES; ARCTIC

Kawano, M.; Inoue, T.; Hidaka, H.; Tatsukawa, R. 1984 Chemosphere 13(1):95-100

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Shad, threadfin
DOROSOMA PETENENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
3074 Body	4	Not detected-0.28 ppm Wet wt	0.13 ppm Wet wt	Lake Providence, 4.4% lipids. Collected 6/15-9/25/80. Primary consumer, major foods are green algae and protozoans. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Shiner, blacktail
NOTROPIS VENUSTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3075 Body	3	Not detected-0.37 ppm Wet wt	0.15 ppm Wet wt	Lake Providence, 4.8% lipids. Collected 6/15-9/25/80. Secondary consumers, major foods are small invertebrates. Lakes acting as sumps. Louisiana GC
BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74				

Shrimp
PARAPENAEUS KERATHURUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3076 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Shrimp, deep-water pink
PARAPENAEUS LONGIROSTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3077 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.

REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION

Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151

Snake, water
NERODIA sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3078 Body	a) 7 b) 6 c) 1	a) Not detected-1.35 ppm b) Not detected-1.62 ppm c) Not detected-0.40 ppm Wet wt	a) 0.24 ppm b) 0.20 ppm c) 0.07 ppm Wet wt	a) Lake Providence, 3.7% lipids b) Lake Bruin, 3.7% lipids c) Lake St. John, 6.6% lipids Collected 6/15-9/25/80. Tertiary consumers, major foods are fish and frogs. Lakes acting as sumps. Louisiana GC

BODY; ENVIRONMENTAL EXPOSURE; LOUISIANA; CHLORINE ORGANIC COMPOUNDS; INSECTICIDES; BIOMAGNIFICATION; FISHES; AGRICULTURE; PESTICIDE RESIDUES; AQUATIC; TERRESTRIAL; BIRDS; SNAKES; FROGS; CRAYFISH

Niethammer, K.R.; White, D.H.; Baskett, T.S.; Sayre, M.W. 1984 Archives of Contamination and Toxicology 13:63-74

Squid
TODARODES PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3079 Body	5 Ingestion	35-95 ug/kg	68 ug/kg	Seawater levels 0.04-0.59 ng/l (mean 0.28 ng/l). Bioconcentration factor 240. Pacific Ocean GC-EC

BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE

Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Squid
TODARODES PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3080 Body	1	Not applicable	6 ppb Wet wt	Purchased at market 7/82. 20 g edible tissue analyzed. Not detected <1.0 ppb. Japan, Sanin GC/MS
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; BROMINATED HYDROCARBONS; BROMINE ORGANIC COMPOUNDS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; DDT; HEXACHLOROCYCLOHEXANE; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; PESTICIDE RESIDUES; WATER POLLUTION Watanabe, I.; Kashimoto, T.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:615-620				

Starling
STURNUS VULGARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3081 Brain	a) 5 b) 5 Ingestion	a) 367-469 ppm b) 50-300 ppm Wet wt	a) 439+/-43 ppm b) 179+/-90 ppm Wet wt	a) Died within 4 d, 50% mortality point b) Survived, sacrificed at 50% mortality point 1500 ppm dietary dose. Maryland Inactivity, slight intermittent tremors, difficulty walking, blinking Hemorrhagic liver, black fluid in gastrointestinal tract GC
BODY; BRAIN; BIRDS; DELIBERATE EXPOSURE; MARYLAND; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; ANIMAL FEEDS; HEALTH HAZARDS; PESTICIDE RESIDUES; TERRESTRIAL Stickel, W.H.; Stickel, L.F.; Dyrland, R.A.; Hughes, D.L. 1984 Archives of Environmental Contamination and Toxicology 13:7-13				

Sucker, longnose
CATOSTOMUS CATOSTOMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3082 Adipose	a) 54 b) 24 Ingestion	a) 1.01-11.8 mg/kg b) Not detected-0.65 mg/kg Wet wt	a) 4.18 mg/kg b) 0.09 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Oldman River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
3083 Adipose	a) 40 b) 20 c) 16 Ingestion	a) 0.69-10.76 mg/kg b) Not detected-4.99 mg/kg c) Not detected-0.63 mg/kg Wet wt	a) 3.68 mg/kg b) 0.64 mg/kg c) 0.07 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Beaver River. Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Tautog
TAUTOGA ONITIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3084 Body	17	0.1-11.0 mg/l Wet wt	1.7 mg/l Median, 0.9 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Teal, blue-winged
ANAS DISCORS

Tissue	Cases Exposure Route	Range	Mean	General Information
3085 Adipose	3	6.1-16.0 ug/g Wet wt	11.37 ug/g Wet wt	Juveniles shot 10/79. Subcutaneous fat. Mean highest of 4 tissues analyzed, exceeds FDA tolerance level of 3.0 ppm in fat. No significant difference in levels due to age, sex or collection site among 17 total species. NY and NJ hunters warned about consuming contaminated waterfowl. New York, Hudson River GC-EC
3086 Liver	3	0.28-1.3 ug/g Wet wt	0.78 ug/g Wet wt	Juveniles shot 10/79 New York, Hudson River GC-EC
3087 Muscle	3	0.32-1.2 ug/g Wet wt	0.78 ug/g Wet wt	Juveniles shot 10/79. Breast muscle. Substantially lower levels than in fat. New York, Hudson River GC-EC
ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Teal, green-winged
ANAS CAROLINENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3088 Adipose	2	0.51-0.69 ug/g Wet wt	0.60 ug/g Wet wt	Juveniles shot 10/79. Subcutaneous fat. No significant difference in levels due to age, sex or collection site among 17 total species. New York, Hudson River GC-EC
3089 Brain	2	0.05-0.98 ug/g Wet wt	0.52 ug/g Wet wt	Juveniles shot 10/79 New York, Hudson River GC-EC
3090 Muscle	2	0.22-0.29 ug/g Wet wt	0.26 ug/g Wet wt	1 adult, 1 juvenile shot 10/79. Breast muscle New York, Hudson River GC-EC

ADIPOSE TISSUE; BRAIN; BREAST; LIVER; MUSCLES; BIRDS; ENVIRONMENTAL EXPOSURE; NEW YORK; ADULTS; JUVENILES; SEX; COMPARATIVE EVALUATIONS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; PESTICIDE RESIDUES; WATERFOWL; AQUATIC
Kim, K.S.; Pastel, M.J.; Kim, J.S.; Stone, W.B. 1984 Archives of Environmental Contamination and Toxicology 13:373-381

Tern, roseate
STERNA DOUGALLII

Tissue	Cases Exposure Route	Range	Mean	General Information
3091 Eggs	3	0.16-0.53 ug/g	0.34 ug/g	In all eggs. Levels well below those considered to adversely affect reproduction or shell thickness. Marine species generally less contaminated than estuarine/freshwater feeders. South Africa, Eastern Cape GC/MS

BIRDS; AQUATIC; SOUTH AFRICA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DDT; DIELDRIN; PESTICIDES; INSECTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; PESTICIDE RESIDUES; WATER POLLUTION; ENVIRONMENTAL EXPOSURE
de Kock, A.C.; Randall, R.M. 1984 Environmental Pollution (Series A) 35:193-201

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3092 Adipose	22 Ingestion	1.83-6.81 mg/kg Wet wt	3.17 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Tuna, bluefin
THUNNUS THYNNUS THYNNUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3093 Body				Review. Occurrence of PCBs in air, water, sediments and marine animals of Mediterranean Sea area. PCB levels higher in northwestern Mediterranean and Tyrrhenian Sea than in eastern Mediterranean.
REVIEW; ADIPOSE TISSUE; BODY; EGGS; LIVER; MUSCLES; AQUATIC; FISHES; BIRDS; ENVIRONMENTAL EXPOSURE; MEDITERRANEAN SEA; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; WATER POLLUTION Geyer, H.; Freitag, D.; Korte, F. 1984 Ecotoxicology and Environmental Safety 8:129-151				

Turtle, green
CHELONIA MYDAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3094 Liver	4	43-80 ppb	Not given	Natural mortalities, wt 4-12 kg, estimated ages 2-7 yr Florida, East coast GC-EC
3095 Muscle	4	5.4-9.4 ppb	Not given	Natural mortalities, wt 4-12 kg, estimated ages 2-7 yr Florida, East coast GC-EC
FLORIDA; MUSCLES; LIVER; DDE; POLYCHLORINATED BIPHENYLS; TURTLES; BIOACCUMULATION McKim, J.M., Jr.; Johnson, K.L. 1983 Bulletin of Environmental Contamination and Toxicology 31:53-60				

Turtle, loggerhead
CARETTA CARETTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3096 Liver	8	8-182 ppb	Not given	Natural mortalities, wt 18-61 kg, estimated ages 12-34 yr Florida, East coast GC-EC
3097 Muscle	9	5-46 ppb	Not given	Natural mortalities, wt 18-61 kg, estimated ages 12-34 yr Florida, East coast GC-EC
FLORIDA; MUSCLES; LIVER; DDE; POLYCHLORINATED BIPHENYLS; TURTLES; BIOACCUMULATION McKim, J.M., Jr.; Johnson, K.L. 1983 Bulletin of Environmental Contamination and Toxicology 31:53-60				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED

Vendace
COREGONUS ALBULA

Tissue	Cases Exposure Route	Range	Mean	General Information
3098 Muscle	25	Not given	0.079+/-0.047 mg/kg Wet wt	Expressed as Clophen A 60. Collected at 26 lake sampling stations, 2-9/82. Length 8-20.5 cm, wt 2.6-61 g, 0.78-1.61% fat. Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Walleye
STIZOSTEDION VITREUM VITREUM

Tissue	Cases Exposure Route	Range	Mean	General Information
3099 Adipose	a) 65 b) 21 c) 17 d) 23 Ingestion	a) 1.39-45.60 mg/kg b) Not detected-4.60 mg/kg c) 2.94-18.79 mg/kg d) 2.48-7.16 mg/kg Wet wt	a) 14.15 mg/kg b) 1.02 mg/kg c) 7.00 mg/kg d) 5.01 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River c) Bow River below Calgary d) St Mary's River Intestinal fat. a) Considered high, c) and d) Moderately high. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Whitefish, lake
COREGONUS CLUPEAFORMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3100 Adipose	a) 21 b) 19 c) 14 Ingestion	a) 1.18-5.45 mg/kg b) Not detected-0.94 mg/kg c) Not detected-0.75 mg/kg d) 0.51-1.86 mg/kg Wet wt	a) 2.78 mg/kg b) 0.006 mg/kg c) 0.13 mg/kg d) 1.17 mg/kg Wet wt	a) Red Deer River below city of Red Deer b) Lake Newell c) McGregor Lake Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)
1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Whitefish, mountain
PROSOPIUM WILLIAMSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
3101 Adipose	60 Ingestion	1.10-16.63 mg/kg Wet wt	6.32 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Considered moderately high. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3102 Body	30	3.1-14.3 mg/l Wet wt	8.8 mg/l Median, 5.5 mg/l	Edible tissues, 1978-1980 Massachusetts, New Bedford area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Woodcock
PHILOHELO MINOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3103 Adipose	1	<0.0001-12.5 ppm	2.08 ppm	None in 5 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
3104 Heart	1	<0.0001-0.0791 ppm	0.0053 ppm	None in 14 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
3105 Liver	1	<0.0001-0.247 ppm	0.0225 ppm	None in 10 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
3106 Muscle	2	<0.0001-4.48 ppm	0.299 ppm	None in 13 birds (same species). Illinois, Vermilion and Shelby Counties GC-EC
ADIPOSE TISSUE; BRAIN; MUSCLES; LIVER; HEART; TERRESTRIAL; BIRDS; ENVIRONMENTAL EXPOSURE; ILLINOIS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; PESTICIDES; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FOOD CONTAMINATION; PESTICIDE RESIDUES Edwards, W.R.; Duzan, R.E.; Siemers, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:407-414				

Biphenyl, chloro (8 Cl); 1,1'-Biphenyl, chloro derivs (9 Cl)

1336-36-3
EXACT COMPOSITION UNKNOWN OR UNDETERMINED
Zooplankton

Tissue	Cases Exposure Route	Range	Mean	General Information
3107 Body	Ingestion	Not given	1.8 ug/kg	Sample mainly copepods. Seawater levels 0.04-0.59 ng/l (mean 0.28 ng/l). Bioconcentration factor 6.4. Pacific Ocean GC-EC
BODY; BLUBBER; ENVIRONMENTAL EXPOSURE; FISHES; PACIFIC OCEAN; DDT; DDE; DDD; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; ANIMAL POPULATIONS; BIOACCUMULATION; WATER POLLUTION; ADIPOSE TISSUE Tanabe, S.; Tanaka, H.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:731-738				

PARALICHTHYS DENTATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
2876 Body	10	0.2-22 mg/l Wet wt	9.3 mg/l Median, 7.4 mg/l	Edible tissues, 1978-1980 New Bedford, MA area
BODY; LOBSTERS; EELS; ENVIRONMENTAL EXPOSURE; MASSACHUSETTS; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; FISHES; INDUSTRIAL POLLUTION; SEWAGE; WATER POLLUTION; URBAN AREAS; AQUATIC Weaver, G. 1984 Environmental Science and Technology 18:22A-27A				

Biphenyl, 4-chloro- (8 Cl); 1,1'-Biphenyl, 4-chloro- (9 Cl)

2051-62-9
C12-H9-Cl
Killifish
ORYZIAS LATIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
3108 Body	a) 84 b) 84 Ingestion	a) 100,000-5,000 ppb b) 70,000-5,000 ppb	a) Not applicable b) Not applicable	a) 1-60 d, peak (100,000 ppb) on d 1. Initial exposure, 35.5 g in 4 L acetone sprayed on pond. 14 data points, 6 fish/point b) 1-20 d, peak (200,000 ppb) from 5-15 d, then rapid decrease. Constant exposure to 42.7+/-4.7 ppb for 15 d. 14 data points, 6 fish/point Ranges of means. Estimated from graph. Japan GC/MS
BODY; DELIBERATE EXPOSURE; JAPAN; CHLORINATED HYDROCARBONS; CHLORINE ORGANIC COMPOUNDS; CHLOROBENZENES; HEXACHLOROBENZENE; PENTACHLOROPHENOL; WATER POLLUTION; INDUSTRIAL POLLUTION; BIOACCUMULATION; FISHES; ANIMAL POPULATIONS; PESTICIDE RESIDUES; AQUATIC Sugiura, K.; Aoki, M.; Kaneko, S.; Daisaku, I.; Komatsu, Y.; Shibuya, H.; Suzuki, H.; Goto, M. 1984 Archives of Environmental Contamination and Toxicology 13:745-758				

Biphenyl, 4,4'-dichloro- (8 CI); 1,1'-Biphenyl, 4,4'-dichloro- (9 CI)
2050-68-2
C12-H8-Cl2
MW 223.11, MP 148-149 C, BP 315-319 C

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3109 Body	6	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 18.0+/-6.2 ng/g b) 29.0+/-5.1 ng/g c) 38.0+/-9.7 ng/g d) 47.0+/-10 ng/g e) 71.0+/-13 ng/g	a) Day 8 b) Day 21 c) Day 38 d) Day 58 e) Day 90 Days held in flow-through tanks to determine bioconcentration factor 5 chemicals tested at low levels in mixtures with minimal interactive effects Water level 19.0+/-2.2 ng/L. Canada, Ontario GC-EC

BODY; TROUT; AQUATIC; DELIBERATE EXPOSURE; ONTARIO; CANADA; BROMINE ORGANIC COMPOUNDS; CHLORINE ORGANIC COMPOUNDS; BIOCONCENTRATION; FISHES; INDUSTRIAL POLLUTION; WATER POLLUTION

Oliver, B.G.; Niimi, A.J. 1984 Environmental Toxicology and Chemistry 3:271-277

Bromine
7726-95-6
Br
AtW 79.904, MP -7.25 C, BP 59.47 C, VP 1 mm Hg at -60 C, 10 mm Hg at -30 C

Cattle
BOS SP

Tissue	Cases Exposure Route	Range	Mean	General Information
3110 Hair	Ingestion	Not given	4.6 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium, rural farms NA

CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS

Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bass, black sea
CENTROPRISTIS STRIATA

Tissue	Cases Exposure Route	Range	Mean	General Information
3111 Blood	a) 3 b) 3 c) 3 d) 3 e) 3	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 350 ng/g b) 1550 ng/g c) 350 ng/g d) 1550 ng/g e) 1200 ng/g Dry wt	a) 24 hr after ingesting oysters containing 83 ug/g Cd b) 24 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 72 hr after Cd as in a) d) 72 hr after same level as b) e) 336 hr after same levels as b) Significantly higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting
3112 Brain	a) 3 b) 3 d) 3 Ingestion	a) Not given b) Not given c) Not given	a) 50 ng/g b) 540 ng/g c) 990 ng/g Dry wt	a) 72 hr after ingesting oysters containing 83 ug/g of Cd b) 72 hr after ingesting oysters with 50 ug/g Cd plus 12.7 ug/g haphthalene c) 336 hr after Cd and naphthalene, same levels Levels after 24 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd, alone. Estimated from graph. South Carolina Gamma counting
3113 Gall bladder	a) 3 b) 3 c) 3 d) 3 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 100 ng/g b) 550 ng/g c) 350 ng/g d) 23,999 ng/g Dry wt	a) 72 hr after ingesting oysters containing 83 ug/g Cd b) 72 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 336 hr after Cd, level as in a) d) 336 hr after Cd and haphthalene, levels as in b) Levels after 24 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd, alone. Estimated from graphs. South Carolina Gamma counting
3114 Gills	a) 3 b) 3 c) 3 d) 3	a) Not given b) Not given c) Not given d) Not given	a) 80 ng/g b) 350 ng/g c) 270 ng/g d) 1240 ng/g Dry wt	a) 24 hr after ingesting oysters containing 83 ug/g Cd b) 24 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 336 hr after Cd alone as in a) d) 336 hr after Cd-naphthalene as in b) Levels after 72 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graphs. South Carolina Gamma counting
3115 Heart	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 350 ng/g b) 390 ng/g c) 830 ng/g Dry wt	a) 24 and 72 hr after ingesting oysters containing 50 ug/g Cd plus 12.7 ug/g naphthalene b) 336 hr after 83 ug/g Cd, alone c) 336 hr after Cd-naphthalene as in a) Levels significantly higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bass, black sea
CENTROPRISTIS STRIATA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3116 Kidney		a) 290-900 ng/g b) 490-23,999 ng/g Dry wt	a) Not given b) Not given	a) 24-336 hr after ingesting oysters containing 83 ug/g Cd b) After 50 ug/g Cd plus 12.7 ug/g naphthalene Estimated from graph. Range of means. South Carolina Gamma counting
3117 Liver	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 450 ng/g b) 270 ng/g c) 1175 ng/g Dry wt	a) 24 hr after ingesting oysters containing 50 ug/g Cd alone c) 336 hr after Cd-naphthalene as in a) Levels after 72 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting
3118 Muscle	a) 3 b) 3 c) 3 d) 3	a) Not given b) Not given c) Not given d) Not given	a) 150 ng/g b) 650 ng/g c) 50 ng/g d) 470 ng/g Dry wt	a) 24 hr after ingesting oysters containing 83 ug/g Cd b) 24 hr after 50 ug/g Cd plus 12.7 ug/g naphthalene c) 72 hr after Cd as in a) d) 72 hr after Cd-naphthalene as in b) Levels after 336 hr not significantly different, higher after Cd-naphthalene contaminated food than Cd alone. Estimated from graph. South Carolina Gamma counting
3119 Skin		a) 40-1090 ng/g b) 390-750 ng/g Dry wt	a) Not given b) Not given	a) 24-336 hr after ingesting oysters containing 83 ug/g Cd b) After 50 ug/g Cd plus 12.7 ug/g naphthalene Estimated from graph. Range of means. South Carolina Gamma counting

BRAIN; GALL BLADDER; KIDNEYS; SKIN; GILLS; HEART; LIVER; MUSCLES; BLOOD; BODY; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; SOUTH CAROLINA; CADMIUM; BIOACCUMULATION; OYSTERS; WATER POLLUTION

Fair, P.A.; Sick, L.V. 1983 Archives of Environmental Contamination and Toxicology 12:551-557

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bass, largemouth
MICROPTERUS SALMOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
3120 Body	300 Ingestion Inhalation Immersion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.06 ug/g b) 0.18 ug/g c) 0.72 ug/g d) 14.73 ug/g e) 60.0 ug/g	a) Control, no Cd added, 1.06+/-0.02 mg/kg sediment b) 2.21+/-0.11 mg/kg sediment c) 11.30+/-0.08 mg/kg sediment d) 97.6/-3.4 mg/kg sediment e) 1079+/-27 mg/kg sediment Natural a) and CdCl2 (1, 10, 100, 1000 mg) amended b)-e) sediment from nonpolluted stream. Measured levels at embryo-level stage. Composite samples, 3 replicates/treatment. Experiment terminated 4 d post-hatching (6-7 d total exposure). Levels correlated with sediment/water levels (r>/=0.98). Kentucky, Lexington AAS
FROGS; FISHES; CADMIUM; MORTALITY; BIOACCUMULATION; SEDIMENTS; KENTUCKY; AQUATIC; DELIBERATE EXPOSURE; IN VITRO ANALYSIS Francis, P.C.; Birge, W.J.; Black, J.A. 1984 Exotoxicology and Environmental Safety 8:378-387				

Bass, rock
AMBLOPLITES RUPESTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3121 Body	14	0.07-0.81 ug/g Dry wt	0.38 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Beaver
CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3122 Intestine	4 Ingestion	Not given	0.09+/-0.03 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3123 Kidney	4 Ingestion	Not given	1.44+/-1.32 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Beaver
CASTOR CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3124 Liver	4 Ingestion	Not given	0.19+/-0.05 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Bufflehead
BUCEPHALA ALBEOLA

Tissue	Cases Exposure Route	Range	Mean	General Information
3125 Kidney	17 Ingestion	0.38-20.64 ug/g Dry wt	5.51 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3126 Liver	71 Ingestion	0.13-3.79 ug/g Dry wt	1.24 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Bullhead
COTTUS GOBIO L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3127 Body	Ingestion Inhalation	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 2.124+/-0.244 ng/g b) 2.979+/-0.094 ng/g c) 2.352+/-0.073 ng/g d) 2.600+/-0.070 ng/g e) 2.253+/-0.050 ng/g f) 2.540+/-0.072 ng/g g) 1.714 ng h) 1.999 ng Log, dry wt S.E.	a) Site 10, 8/5/81, 4 cases, <40 mm long b) Site 17, 8/5/81, 5 cases, <40 mm c) Site 10, 8/5/81, 10 cases, 59-72 mm d) Site 14, 8/5/81, 5 cases, 59-72 mm e) Site 10, 11/4/81, 5 cases, <40 mm f) Site 10, 11/4/81, 5 cases g) Site 10, 8/5/81, 16 cases h) Site 10, 11/4/81, 20 cases Extensive statistical analysis. Body burdens increased with level in sediment, body wt, and length of exposure. Analysis of covariance showed seasonal variation between g) & h). All females, also males in g) and h). Great Britain, Derbyshire, River Ecclesbourne AAS
FISHES; UNITED KINGDOM; AQUATIC; ENVIRONMENTAL EXPOSURE; COMPARATIVE EVALUATIONS; SEDIMENTS; CADMIUM; LEAD Moriarty, F.; Hanson, H.M.; Freestone, P. 1984 Environmental Pollution (Series A) 34:297-320				

Caddisfly
TRICHOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3128 Body		a) 0-80 ppm b) 160-310 ppm c) 0-40 ppm d) 40-790 ppm e) 140-380 ppm	a) Not given b) Not given c) Not given d) Not given e) Not given	a) Controls during dry weather b) Controls during rain, only c) Station 2, which drains half of business district, during dry weather d) Station 2, which drains half of business district during rain e) Station 3, which receives total cumulative runoff from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Canvasback
AYTHYA VALISINERIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3129 Kidney	63 Ingestion	0.16-23.68 ug/g Dry wt	6.00 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3130 Liver	64 Ingestion	<0.10-23.51 ug/g Dry wt	3.10 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3131 Blood	a) 8 b) 8 c) 8 Ingestion	a) 0.06-0.45 ug b) 0.04-0.2 ug c) 0.04-0.21 ug /100 ml	a) Not given b) Not given c) Not given	a) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d b) Same amount of Cd and Cu and 254-265 ug Zn/g feed c) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Range of means. Levels by 60 d in a) nearly 2X that of b) and d). *Estimated from graph.* AAS
3132 Kidney	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.3+/-0.1 ug b) 36.4+/-4.5 ug c) 26.3+/-2.5 ug d) 15.5+/-3.8 ug /g wet weight S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) and c), d) ($p<0.01$). Inverse dose repsonse between kidney level and amount of Zn in feed. AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3133 Kidney	174	0.005-2.60 mg/kg Wet wt	0.37+/-0.52 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM ; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3134 Kidney				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION
Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52

Tissue	Cases Exposure Route	Range	Mean	General Information
3135 Liver	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.06+/-0.01 ug b) 8.77+/-0.42 ug c) 6.76+/-1.02 ug d) 4.20+/-0.93 ug /g wet wt S.E.	i) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) and c), d) ($p<0.01$) AAS

BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES
Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129

Tissue	Cases Exposure Route	Range	Mean	General Information
3136 Liver	179	0.005-0.57 mg/kg Wet wt	0.06+/-0.09 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM ; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3137 Liver				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
3138 Milk				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION

Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52

Tissue	Cases Exposure Route	Range	Mean	General Information
3139 Muscle	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.004+/-0.001 ug b) 0.016+/-0.003 ug c) 0.010+/-0.001 ug d) 0.007+/-0.001 ug /g wet wt S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) ($p<0.01$) and b), c) and c), d) ($p<0.05$). AAS

BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES

Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129

Tissue	Cases Exposure Route	Range	Mean	General Information
3140 Muscle	181	<0.001-0.04 mg/kg Wet wt	0.001+/-0.003 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 158 samples below detection limit. Australia, Queensland AAS

CATTLE ; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM ; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS

Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3141 Muscle				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Cattle
BOS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3142 Urine				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Chicken
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3143 Body				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3144 Body	251	0.01-0.14 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3145 Body, whole	9	<0.1-0.25 ug/g Dry wt	<0.1 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. No correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469				

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3146 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) 0.16-0.35 ug/g b) 0.07-0.32 ug/g c) 0.05-0.40 ug/g d) 0.02-1.13 ug/g e) 0.05-0.70 ug/g Wet wt	a) 0.25 ug/g b) 0.21 ug/g c) 0.21 ug/g d) 0.26 ug/g e) 0.15 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3147 Body	a) 18 b) 10 c) 18 d) 128 e) 38 Ingestion	a) 0.16-0.35 ug/g b) 0.07-0.32 ug/g c) 0.05-0.40 ug/g d) 0.02-1.13 ug/g e) 0.05-0.70 ug/g Wet wt	a) 0.25 ug/g b) 0.21 ug/g c) 0.21 ug/g d) 0.26 ug/g e) 0.15 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Tissue	Cases Exposure Route	Range	Mean	General Information
3148 Muscle	111	Not given	0.028+/-0.021 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23				

Cockle
CLINOCARDIUM NUTTALLII

Tissue	Cases Exposure Route	Range	Mean	General Information
3149 Muscle	59	Not given	0.022+/-0.031 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Coelenterate

Tissue	Cases Exposure Route	Range	Mean	General Information
3150 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Copepod

Tissue	Cases Exposure Route	Range	Mean	General Information
3151 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3152 Body	a) 8 b) 20 Ingestion	a) 0.12-0.37 ug/g b) 0.01-0.90 ug/g Wet wt	a) 0.24 ug/g b) 0.20 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Crab, Dungeness
CANCER MAGISTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3153 Hepatopancreas	98	Not given	0.149+or-0.099 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Crab, Dungeness
CANCER MAGISTER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3154 Muscle	124	Not given	0.022+or-0.020 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23				

Crayfish
PACIFASTICUS LENIUSCULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3155 Body, whole		a) Not applicable b) Not applicable c) Not applicable	a) 3.43+/-1.16 ug/g, dry wt b) 0.704+/-0.163 ug/g c) 0.555+/-0.251 ug/g	a) Exposed to elevated sediment metal concentrations for 14 days b) All males c) All females Significantly different, b) and c). Washington, Seattle, Lake Washington and Lake Union ICP-AES
3156 Organs	a) 10 b) 7 c) 12 d) 8	a) Not given b) Not given c) Not given d) Not given	a) 0.2 ug/g b) 0.2 ug/g c) 0.4 ug/g d) 0.4 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Washington, Seattle, Lake Washington and Lake Union ICP-AES
MUSCLES; ORGANS; EXOSKELETON; CRAYFISH; AQUATIC; ENVIRONMENTAL EXPOSURE; WASHINGTON; LEAD; CADMIUM; MERCURY; COPPER; METALS; BIOACCUMULATION; BIOMAGNIFICATION; BIOLOGICAL MONITORING; FOOD CONTAMINATION; SEWAGE; WATER POLLUTION Stinson, M.D.; Eaton, D.L. 1983 Archives of Environmental Contamination and Toxicology 12:693-700				

Dace, blacknose
RHINICTHYS ATRATULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3157 Body	19	0.41-1.09 ug/g Dry wt	0.76 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Darter, fantail
ETHEOSTOMA FLABELLARE

Tissue	Cases Exposure Route	Range	Mean	General Information
3158 Body	19	0.16-1.02 ug/g Dry wt	0.60 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Dolphin, striped
STENELLA COERULEOALBA

Tissue	Cases Exposure Route	Range	Mean	General Information
3159 Blood	29	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <5.0X10(E-3) ug/g b) 0.039+/-0.025 ug/g c) 0.053+/-0.010 ug/g d) 0.039+/-0.012 ug/g e) 0.026+/-0.003 ug/g f) 0.025+/-0 ug/g g) 0.037+/-0.017 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3160 Blubber	16	Not applicable	0.037+/-0.015 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3161 Bone	5	Not applicable	0.16+/-0.03 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3162 Brain	29	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <1.0x10(E-3) ug/g b) 0.006+/-0.004 ug/g c) 0.026+/-0.004 ug/g d) 0.044+/-0.005 ug/g e) 0.051+/-0.023 ug/g) 0.064+/-0.014 ug/g g) 0.038+/-0.024 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Dolphin, striped
STENELLA COERULEOALBA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3163 Diaphragm	15	Not applicable	0.12+/-0.06 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3164 Heart	15	Not applicable	0.17+/-0.08 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3165 Intestine	15	Not applicable	0.46+/-0.17 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3166 Kidney	45	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <5.0x10(E-3) ug/g b) 12.2+/-13.8 ug/g c) 34.7+/-11.2 ug/g d) 29.1+/-5.08 ug/g e) 25.5+/-18.4 ug/g f) 37.0+/-19.3 ug/g g) 26.4+/-16.2 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3167 Liver	45	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <3.4x10(E-3) ug/g b) 3.03+/-2.61 ug/g c) 7.38+/-0.90 ug/g d) 6.17+/-1.65 ug/g e) 6.25+/-2.05 ug/g f) 6.94+/-2.13 ug/g g) 6.26+/-2.31 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3168 Lung	15	Not applicable	0.42+/-0.10 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3169 Mammary gland	4	Not applicable	0.46+/-0.17 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Dolphin, striped
STENELLA COERULEOALBA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3170 Milk	10	Not applicable	0.03+/-0.04 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3171 Muscle	76	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <2.5X10(E-3) ug/g b) 0.03+/-0.01 ug/g c) 0.05+/-0.01 ug/g d) 0.05+/-0.01 ug/g e) 0.10+/-0.03 ug/g f) 0.17+/-0.06 ug/g g) 0.10+/-0.06 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3172 Ovary	3	Not applicable	0.84+/-0.32 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3173 Pancreas	18	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) <3.0x10(E-5) ug/g b) 1.40 ug/g c) 1.56+/-0.21 ug/g d) 1.44+/-0.51 ug/g e) 1.32+/-0.48 ug/g f) 1.55+/-0.15 ug/g g) 1.43+/-0.42 ug/g Wet wt	a) Fetus b) Calf, 0-1.75 yr c) Immature, 1.75-7.5 yr d) Immature, 7.5-15 yr e) Mature, 15-25 yr f) Mature, 25-40 yr g) Overall Captured in 1977-1980. Higher absorption efficiency and accumulation through digestive tract in pup than in adult. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3174 Placenta	15	Not applicable	0.04+/-0.02 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3175 Skin	5	Not applicable	0.14+/-0.03 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3176 Spleen	12	Not applicable	0.55+/-0.19 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Dolphin, striped
STENELLA COERULEOALBA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3177 Stomach	15	a) Not applicable b) Not applicable	a) 0.44+/-0.35 ug/g b) 1.03+/-0.67 ug/g Wet wt	a) First stomach b) Second Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
3178 Testis	3	Not applicable	0.35+/-0.10 ug/g Wet wt	Calves, immatures and mature adults captured in 1977-1980. Levels in fetus negligible. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
BODY; LIVER; MUSCLES; PANCREAS; LUNGS; HEART; SPLEEN; INTESTINES; STOMACH; KIDNEYS; BLOOD; ADIPOSE TISSUE; TESTES; OVARIES; SKIN; BONES; PLACENTA; MAMMARY GLANDS; MILK; MAMMALS; DOLPHINS; FISHES; SQUID; CADMIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION Honda, K.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:543-550				

Duck, black
ANAS RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
3179 Blood, whole	6 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 0.070+/-0.006 ppm b) 0.072+/-0.007 ppm c) 0.082+/-0.005 ppm d) 0.082+/-0.017 ppm e) 0.084+/-0.002 ppm f) 0.079+/-0.012 ppm g) 0.082+/-0.005 ppm Wet wt	a) Controls, fresh b) Formalin, fresh c) Formalin, 2 mo d) Formalin, 8 mo e) Frozen, 2 mo f) Frozen, 8 mo g) Formalin-frozen, 8 mo Methods of preservation and times of analysis. Dose was 10 mg/kg as cadmium chloride in dimethyl sulfoxide. Birds sacrificed 6 hrs after dose. Maryland AAS
BLOOD; DELIBERATE EXPOSURE; ADULTS; METAL POISONING; LEAD POISONING; MEASUREMENT METHODS; MERCURY; CADMIUM; LEAD; DDE; METALS; ACCIDENTAL POISONING; ANIMAL POPULATIONS; BIOACCUMULATION; PESTICIDE RESIDUES; AQUATIC; WATERFOWL Wiemeyer, S.N.; Moore, J.F.; Mulhern, B.M. 1984 Bulletin of Environmental Contamination and Toxicology 33:525-532				

Tissue	Cases Exposure Route	Range	Mean	General Information
3180 Kidney	18 Ingestion	1.05-37.89 ug/g Dry wt	11.49 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, black
ANAS RUBRIPES

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3181 Liver	128 Ingestion	<0.10-11.75 ug/g Dry wt	1.16 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Duck, long-tailed
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3182 Feathers	a) 28 b) 15 c) 6	a) 0.080-0.17 mg/kg b) 0.040-0.055 mg/kg c) 0.092-0.12 mg/kg Dry wt	a) 0.10 +or- 0.02 mg/kg b) 0.046 +or- 0.005 mg/kg c) 0.10 +or- 0.01 mg/kg Dry wt	a) Males b) Males, oiled c) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3183 Heart	a) 50 b) 40	a) 0.014-0.021 mg/kg b) 0.025-0.027 mg/kg Wet wt	a) 0.018 +or- 0.003 mg/kg b) 0.026 +or- 0.001 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3184 Liver	a) 50 b) 40	a) 0.60-0.98 mg/kg b) 0.30-1.1 mg/kg Wet wt	a) 0.76 +or- 0.06 mg/kg b) 0.59 +or- 0.10 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3185 Muscle	90	a) 0.002-0.032 mg/kg b) 0.001-0.011 mg/kg c) 0.001-0.028 mg/kg d) 0.018-0.023 mg/kg Wet wt	a) 0.010 +or- 0.003 mg/kg b) 0.005 +or- 0.001 mg/kg c) 0.015 +or- 0.012 mg/kg d) 0.020 +or- 0.002 mg/kg Wet wt	a) Males, breast b) Females, breast c) Males, leg d) Females, leg Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, long-tailed
CLANGULA HYEMALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3186 Stomach	a) 50 b) 40	a) 0.014-0.21 mg/kg b) 0.035-0.11 mg/kg Wet wt	a) 0.049 +or- 0.064 mg/kg b) 0.079 +or- 0.022 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
POLAND; BIRDS; IRON; ZINC; MANGANESE; COPPER; LEAD; CADMIUM; COBALT; NICKEL; BIOACCUMULATION; LIVER; MUSCLES; HEART; STOMACH; FEATHERS; AQUATIC; WATERFOWL; ENVIRONMENTAL EXPOSURE Szefer, P.; Falandysz, J. 1983 Science of the Total Environment 29:269-276				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3187 Bone	53 Ingestion	Not given	<0.1 ug/g Dry wt	Ulnar bone concentrations, all treatment groups. Doses/g diet were: 10 ug Cd, 100 mg Cd, 5 ug Cd+5 ug Pb, 50 ug Cd+50 ug Pb. Juveniles 128 d old. Fed as Cl salts in diets 42+/-1 d. Virginia, Blacksburg AAS
3188 Kidney	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 2.7+/-0.3 ug/g b) 67.8+/-12.4 ug/g c) 371.8+/-22.3 ug/g c) 371.8+/-22.3 ug/g d) 3.1+/-0.4 ug/g e) 3.4+/-0.6 ug/g f) 24.8+/-3.2 ug/g g) 201.0+/-26.9 ug/g Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug Pb/g diet g) 50 ug Cd+50 ug/g diet Juveniles 128 d old. Fed as Cl salts in 42+/-1 d. Cd concentrates 15X greater than Pb at same level of intake. c) significantly greater than others. e) significantly greater than a). Virginia, Blacksburg GC
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3189 Kidney	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.9+/-0.4 ppm b) 208.8+/-19.6 ppm c) 335.2+/-31.8 ppm d) 540.7+/-43.8 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Dry wt S.E. Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS
DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771				

Tissue	Cases Exposure Route	Range	Mean	General Information
3190 Kidney	25 Ingestion	0.32-28.13 ug/g Dry wt	7.66 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Tissue	Cases Exposure Route	Range	Mean	General Information
3191 Liver	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 0.9+/-0.1 ug/g b) 14.5+/-1.6 ug/g c) 104.8+/-19.1 ug/g d) 0.9+/-0.1 ug/g e) 0.9+/-0.1 ug/g f) 6.5+/-0.8 ug/g g) 54.2+/-3.7 ug/g Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug Pb/g diet g) 50 ug Cd+50 ug/g diet Juveniles 128 d old. Fed as Cl salts in 42+/-1 d. Cd concentrates 15X greater than Pb at same level of intake. c) significantly greater than others. g) significantly greater levels than all but c) Virginia, Blacksburg AAS
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3192 Liver	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.9+/-0.2 ppm b) 54.0+/-12.9 ppm c) 135.4+/-11.9 ppm d) 435.8+/-44.0 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS

DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS
Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771

Tissue	Cases Exposure Route	Range	Mean	General Information
3193 Liver	157 Ingestion	<0.10-4.56 ug/g Dry wt	0.80 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL: DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS
Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48

Duck, ring-necked
AYTHYA COLLARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3194 Kidney	8 Ingestion	0.44-9.64 ug/g Dry wt	3.83 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3195 Liver	23 Ingestion	0.19-1.84 ug/g Dry wt	0.91 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS
Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Duck, ruddy
OXYURA JAMAICENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3196 Kidney	20 Ingestion	0.29-6.90 ug/g Dry wt	2.72 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3197 Liver	20 Ingestion	0.18-2.14 ug/g Dry wt	0.82 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Duck, wood
AIX SPONSA

Tissue	Cases Exposure Route	Range	Mean	General Information
3198 Liver	13 Ingestion	<0.10-2.37 ug/g Dry wt	0.64 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Eagle, booted
HIERAETUS PENNATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3199 Eggs	a) 1 b) 3 Ingestion	a) Not given b) Not given	a) 0.030 ppm b) 0.059 ppm Wet wt	a) Collected 1981 b) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Eagle, imperial
AQUILA HELIACA

Tissue	Cases Exposure Route	Range	Mean	General Information
3200 Eggs	a) 6 b) 3 c) 3 d) 10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.193 ppm b) 0.076 ppm c) 0.054 ppm d) 0.048 ppm Wet wt	a) Collected 1980 b) 1981 c) 1982 d) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzales, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Earthworm
LUMBRISCUS TERRESTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3201 Body	22,000 Ingestion	Not given	47.8+/-3.7 ppm Dry wt S.E.	Inhabited soil treated with Cd-containing fungicides and Milorgranite (sewage sludge by-product). Canada, Ontario ASV
EARTHWORMS; BODY; LIVER; KIDNEYS; MUSCLES; CANADA; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION Pimentel, D.; Culliney, T.; Burgess, M.N.; Stoewsand, G.S.; Anderson, J.L.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Nutrition Reports International 30(2):475-481				

Tissue	Cases Exposure Route	Range	Mean	General Information
3202 Body		20-202 mg/kg	Not given	31 sampling sites 1-15 km from zinc smelter. Soil content 0.1-5.7 mg/kg. Mean dry wt 86+/-28 mg. Netherlands, Eindhoven, S.E., Dutch Kempen region AAS
WORMS; LEAD; ZINC; NETHERLANDS; BODY; SMELTERS; SOILS; CADMIUM; COPPER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE Ma, W.; Edelman, T.; van Beersum, I.; Jans, T. 1983 Bulletin of Environmental Contamination and Toxicology 30:424-427				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Earthworm
LUMBRISCUS TERRESTRIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3203 Body, whole	37	0.40-2.00 ug/wet g	0.98+/-0.44 ug/wet g	Accumulation is dependent upon age or exposure time. Correlations between metal concentrations and body length or weight were significantly positive. Relatively high concentrations found in post-clitellar region. Body burdens increased linearly with increased body length throughout the whole life span. Japan, Matsuyama City, Tsubaki shrine AAS
IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432				

Eel
ANGUILLA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3204 Gills	a) 9 b) 10	a) Not detectable-3 mg/g b) 19-45 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3205 Liver	a) 9 b) 10	a) 4-119 ug/g b) 143-193 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3206 Muscle	a) 9 b) 10	a) Not detectable-119 ug/g b) 1-4 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Finfish

Tissue	Cases Exposure Route	Range	Mean	General Information
3207 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Fish
NANNOPERCA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3208 Muscle	a) 9 b) 19	a) Not detectable b) Not applicable	a) Not applicable b) 5 ug/g Dry wt	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 2 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Flounder, windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3209 Liver	a) 6 b) 16 c) 6 d) 10 e) 9 f) 12 g) 6 h) 10 i) 9 j) 14 k) 4 l) 10 m) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given	a) 0.08 ppm b) 0.54 ppm c) 0.23 ppm d) 0.18 ppm e) 0.35 ppm f) 0.30 ppm g) 0.20 ppm h) 0.19 ppm i) 0.40 ppm j) 0.68 ppm k) 0.10 ppm l) 0.19 ppm m) 0.36 ppm Wet wt	a) 6/78 b) 7/79 c) 5/80 d) 7/80 e) 10/80 f) 7/79 g) 5/80 h) 7/80 i) 10/80 j) 7/79 k) 5/80 l) 7/80 m) 10/80 Milford, CT a)-e), Hempstead Harbor, NY f)-i), Roanoke Point, NY j)-m). Length 18-35 cm. Long Island Sound AAS
LIVER; COPPER; CADMIUM; CONNECTICUT; NEW YORK; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Greig, R.A.; Schurman, S.; Pereira, J.; Naples, P. 1983 Bulletin of Environmental Contamination and Toxicology 31:257-262				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Frog, leopard
RANA PIPIENS

Tissue	Cases Exposure Route	Range	Mean	General Information
3210 Body	Ingestion Inhalation	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.36 ug/g b) 0.08 ug/g c) 0.34 ug/g d) 3.08 ug/g e) 12.55 ug/g	a) Control, no Cd added, 1.04+/-0.6 mg/kg sediment b) 2.28+/-0.14 mg/kg sediment c) 11.48+/-0.21 mg/kg sediment d) 96.8+/-2.4 mg/kg sediment e) 1074+/-14 mg/kg sediment Natural a) and CdCl2 (1, 10, 100, 1000 mg) amended b)-e) sediment from nonpolluted stream. Measured levels at embryo-level stage. Composite samples, 3 replicates/treatment. Experiment terminated 4 d post-hatching (6-7 d total exposure). Levels correlated with sediment/water levels (r>/=0.98). Kentucky, Lexington AAS
FROGS; FISHES; CADMIUM; MORTALITY; BIOACCUMULATION; SEDIMENTS; KENTUCKY; AQUATIC; DELIBERATE EXPOSURE; IN VITRO ANALYSIS Francis, P C ; Birge, W.J.; Black, J.A. 1984 Exotoxicology and Environmental Safety 8:378-387				

Gadwall
ANAS STREPERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3211 Kidney	9 Ingestion	0.54-98.92 ug/g Dry wt	16.98 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3212 Liver	32 Ingestion	0.18-20.40 ug/g Dry wt	2.53 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Goat
CAPRA *sp.*

Tissue	Cases Exposure Route	Range	Mean	General Information
3213 Kidney				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
3214 Liver				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Goat
CAPRA sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3215 Urine				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Goldfish
CARASSIUS AURATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3216 Body	Ingestion Inhalation Immersion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.12 ug/g b) 0.13 ug/g c) 0.24 ug/g d) 0.67 ug/g e) 4.61 ug/g	a) Control, no Cd added, 0.97+/-0.28 mg/kg sediment b) 1.93+/-0.09 mg/kg sediment c) 10.48+/-0.55 mg/kg sediment d) 89.7/-7.9 mg/kg sediment e) 1008+/-20 mg/kg sediment Natural a) and CdCl2 (1, 10, 100, 1000 mg) amended b)-e) sediment from nonpolluted stream. Measured levels at embryo-level stage. Composite samples, 3 replicates/treatment. Experiment terminated 4 d post-hatching (6-7 d total exposure). Levels correlated with sediment/water levels (r>/=0.98). Kentucky, Lexington AAS
FROGS; FISHES; CADMIUM; MORTALITY; BIOACCUMULATION; SEDIMENTS; KENTUCKY; AQUATIC; DELIBERATE EXPOSURE; IN VITRO ANALYSIS Francis, P.C.; Birge, W.J.; Black, J.A. 1984 Exotoxicology and Environmental Safety 8:378-387				

Hake
MERLUCIUS MERLUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3217 Muscle	a) 2 b) 2 c) 2	a) Not given b) Not given c) Not given	a) 65 ug/kg b) 51 ug/kg c) 59 ug/kg Wet wt	a) Thermaikos Gulf b) Kavala Gulf c) Strymonikos Gulf Collected 1980-82. Length 19-25 cm, wt 86-197 g Greece, North Aegean Sea AAS
GREECE; BODY; MUSCLES; CADMIUM; LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; MOLLUSKS Vasilikiotis, G.; Fytianos, K.; Zotou, A. 1983 Chemosphere 12(1):75-81				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Hobby
FALCO SUBBUTEO

Tissue	Cases Exposure Route	Range	Mean	General Information
3218 Eggs	a) 3 b) 4 Ingestion	a) Not given b) Not given	a) 0.060 ppm b) 0.065 ppm Wet wt	a) Collected 1982 b) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3219 Eggs	a) 2 b) 5 c) 4 Ingestion	a) Not given b) Not given c) Not given	a) 0.521 ppm b) 0.140 ppm c) 0.053 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3220 Eggs	a) 4 b) 4 c) 2 Ingestion	a) Not given b) Not given c) Not given	a) 0.092 ppm b) 0.047 ppm c) 0.062 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Limpet

Tissue	Cases Exposure Route	Range	Mean	General Information
3221 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Lizard, water
TRITURUS PYRRHOGASTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3222 Kidney	a) 5 b) 5 Injection	a) Not given b) Not given	a) < reliable limit b) 22.2+/-8.2 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Kidney wt 36+/-8-43+/-6 mg ES
3223 Liver	a) 5 b) 5 Injection	a) Not given b) Not given	a) < reliable limit b) 6.93+/-2.14 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Liver wt 349+/-108-411+/-80 mg ES
AMPHIBIANS; LIVER; KIDNEYS; DELIBERATE EXPOSURE; CADMIUM; COPPER; ZINC; AQUATIC; TERRESTRIAL, IRON; MAGNESIUM; CALCIUM; PHOSPHORUS Suzuki, K.T.; Akitomi, H.; Kawamura, R. 1984 Toxicology Letters 21:179-184				

Mayfly
EPHEMEROPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3224 Body		a) 0-50 ppm b) 50-140 ppm c) 180-380 ppm d) 160-575 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during wet weather c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Minnow, fathead
PIMEPHALES PROMELAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3225 Body, whole		a) Not given b) Not given	a) 0.04+/-0.01 ug/g b) 0.21+/-0.01 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 0.28 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 0.46 ug/L in water. Kentucky, Harrodsburg; Ohio, Newtown AAS
3226 Gills		a) Not given b) Not given	a) 0.16+/-0.03 ug/g b) 0.44+/-0.04 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 0.28 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 0.46 ug/L in water. AAS
3227 Organs		a) Not given b) Not given	a) 0.05+/-0.01 ug/g b) 0.71+/-0.06 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 0.28 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 0.46 ug/L in water. AAS
BODY; ORGANS; GILLS; CADMIUM; COPPER; ZINC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; METALS; BIOCONCENTRATION; BIOLOGICAL MONITORING; COAL; FOSSIL-FUELED POWER PLANTS; FLY ASH; FISHES; WATER POLLUTION; INDUSTRIAL POLLUTION Benson, W.H.; Birge, W.J. 1984 Environmental Toxicology and Chemistry 4:209-217				

Mollusc sp.
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3228 Body	80	a) Not given b) Not given c) Not given d) Not given	a) 5.5+/-0.9 ug/g b) 5.7+/-1.6 ug/g c) 6.5+/-1.2 ug/g d) 11.4+/-2.6 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa
MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:339-343				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mollusk
CHLAMYS OPERCULARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3229 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Tissue	Cases Exposure Route	Range	Mean	General Information
3230 Body	10	a) Not given b) Not given	a) 0.57 +or- 0.19 ug/g b) 2.05 +or- 0.54 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Mollusk, cephalopod

Tissue	Cases Exposure Route	Range	Mean	General Information
3231 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Mullet
MULLUS BARBATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3232 Muscle	a) 3 b) 3 c) 3	a) Not given b) Not given c) Not given	a) 70 ug/kg b) 34 ug/kg c) 54 ug/kg Wet wt	a) Thermaikos Gulf b) Kevala Gulf c) Strymonikos Gulf Collected 1980-82. Length 11-12 cm, wt 20-31 g Greece, North Aegean Sea AAS
GREECE; BODY; MUSCLES; CADMIUM; LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; MOLLUSKS Vasilikiotis, G.; Fytianos, K.; Zotou, A. 1983 Chemosphere 12(1):75-81				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mussel
MYTILUS GALLOPROVINCIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3233 Body		a) 139-170 ug/kg b) 154-160 ug/kg c) 85-158 ug/kg Wet wt	a) 155 ug/kg b) 157 ug/kg c) 122 ug/kg Wet wt	a) Thermaikos Gulf b) Kavala Gulf c) Strymonikos Gulf Collected 1980-82. Length 3-6 cm, wt 3-11 g
GREECE; BODY; MUSCLES; CADMIUM; LEAD; MERCURY; BIOACCUMULATION; FISHES; WATER POLLUTION; MOLLUSKS Vasilikiotis, G.; Fytianos, K.; Zotou, A. 1983 Chemosphere 12(1):75-81				

Tissue	Cases Exposure Route	Range	Mean	General Information
3234 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Tissue	Cases Exposure Route	Range	Mean	General Information
3235 Body	10	a) Not given b) Not given	a) 0.27 +or- 0.06 ug/g b) 1.40 +or- 0.16 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mussel
MYTILUS GALLOPROVINCIALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3236 Gills	36 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given	a) 4.5 ng/g b) 8.6 ng/g c) 2.85 ng/g d) 4.5 ng/g e) 15.6 ng/g f) 13.3 ng/g g) 41.3 ng/g h) 57.5 ng/g i) 11.3 ng/g j) 47.9 ng/g k) 95.2 ng/g l) 146.6 ng/g	a) 1 day, heavy molecular wt (HMW) fraction b) 3 days, HMW fraction c) 3 days, followed by 7 days in uncontaminated water, HMW fraction d) 1 day, metallothionein (Mt) fraction e) 3 days, metallothionein (Mt) fraction f) 3 days, followed by 7 days in uncontaminated water, Mt fraction g) 4 hr, HMW fraction h) 8 hr, HMW fraction i) 24 hr, HMW fraction j) 4 hr, Mt fraction k) 8 hr, Mt fraction l) 24 hr, Mt fraction Exposure times to 1 ppb in water a)-f), times after 2 ug injection into hepatopancreas. CC
3237 Hepatopancreas	36 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given	a) 7.2 ng/g b) 8.5 ng/g c) 6.3 ng/g d) 9.8 ng/g e) 29.9 ng/g f) 25.6 ng/g g) 63.6 ng/g h) 23.0 ng/g i) 16.1 ng/g j) 334.8 ng/g k) 163.5 ng/g l) 113.6 ng/g	a) 1 day, heavy molecular wt (HMW) fraction b) 3 days, HMW fraction c) 3 days, followed by 7 days in uncontaminated water, HMW fraction d) 1 day, metallothionein (Mt) fraction e) 3 days, metallothionein (Mt) fraction f) 3 days, followed by 7 days in uncontaminated water, Mt fraction g) 4 hr, HMW fraction h) 8 hr, HMW fraction i) 24 hr, HMW fraction j) 4 hr, Mt fraction k) 8 hr, Mt fraction l) 24 hr, Mt fraction Exposure times to 1 ppb in water a)-f), times after 2 ug injection into hepatopancreas. CC
3238 Kidney	18 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 15.2 ng/g b) 85.9 ng/g c) 158.2 ng/g d) 114.3 ng/g e) 110.5 ng/g f) 407.6 ng/g	a) 4 hr, heavy molecular wt (HMW) fraction b) 8 hr, HMW fraction c) 24 hr, HMW fraction d) 4 hr, metallothiomein (Mt) fraction e) 8 hr, Mt fraction f) 24 hr, Mt fraction Times after 2 ug injection into hepatopancreas. CC

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Mussel
MYTILUS GALLOPROVINCIALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3239 Mantle	36 Injection	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 1.1 ng/g b) 3.0 ng/g c) 2.1 ng/g d) 0.83 ng/g e) 6.00 ng/g f) 4.30 ng/g g) 2.3 ng/g h) 9.5 ng/g	a) 1 day, heavy molecular weight (HMW) fraction b) 3 days, HMW fraction c) 3 days, followed by 7 days in uncontaminated water, HMW fraction d) 1 day, metallothiomein (Mt) fraction e) 3 days, Mt fraction f) 3 days, followed by 7 days in uncontaminated water, Mt fraction g) 24 hr, HMW fraction h) 24 hr, Mt fraction Exposure times to 1 ppb in water a)-f), times after 2 ug injection into hepatopancreas. CC
METALS; BIOACCUMULATION; METABOLISM; KIDNEYS; GILLS; MANTLE; MOLLUSKS; CADMIUM; AQUATIC; DELIBERATE EXPOSURE Nolan, C.V.; Duke, E.J. 1983 Chemosphere 12(1):65-74				

Myctophid

Tissue	Cases Exposure Route	Range	Mean	General Information
3240 Body, whole	a) 10 b) 4	a) Not given b) Not given	a) 0.03 ug/g b) 0.02 ug/g Wet wt	a) Small fish (3.8-4.5 cm) b) Large fish (6.5-7.5 cm) Food of striped dolphin. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
BODY; LIVER; MUSCLES; PANCREAS; LUNGS; HEART; SPLEEN; INTESTINES; STOMACH; KIDNEYS; BLOOD; ADIPOSE TISSUE; TESTES; OVARIES; SKIN; BONES; PLACENTA; MAMMARY GLANDS; MILK; MAMMALS; DOLPHINS; FISHES; SQUID; CADMIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION Honda, K.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:543-550				

Oldsquaw
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3241 Kidney	7 Ingestion	3.10-71.15 ug/g Dry wt	27.62 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levels linked to carnivorous diet. Possible sublethal effects. Data pooled includes white-winged scoters. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Oldsquaw
CLANGULA HYEMALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3242 Liver	36 Ingestion	0.41-14.82 ug/g Dry wt	5.47 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levels linked to carnivorous diet. Possible sublethal effects. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3243 Intestine	4 Ingestion	Not given	0.07+/-0.02 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3244 Kidney	4 Ingestion	Not given	0.13+/-0.05 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Otter, river
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3245 Bone	a) 198 c) 78	a) Not given b) <0.04-0.27 mg/g Dry wt	a) <0.04 mg/g b) <0.04 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
3246 Kidney	a) 221 b) 169	a) <0.04-14.09 mg/g b) <0.04-3.10 mg/g Dry wt	a) 0.61 +or- 0.09 mg/g b) 0.37 +or- 0.04 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Otter, river
LUTRA CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3247 Liver	a) 226 b) 131	a) <0.04-0.99 mg/g b) <0.04-1.58 mg/g Dry wt	a) 0.09 +or- 0.01 mg/g b) 0.17 +or- 0.07 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
OTTERS; CADMIUM; COPPER; LEAD; ZINC; BIOACCUMULATION; WATER POLLUTION; BONES; KIDNEYS; LIVER; VIRGINIA Anderson-Bledsoe, K.L.; Scanlon, P.F. 1983 Bulletin of Environmental Contamination and Toxicology 30:442-447				

Oyster
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3248 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-28				

Tissue	Cases Exposure Route	Range	Mean	General Information
3249 Body	10	a) Not given b) Not given	a) 1.13 +or- 0.25 ug/g b) 2.70 +or- 0.90 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Cadmium

7440-43-9

Cd

AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Oyster

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3250 Body	a) 12 b) 12 c) 12 d) 12	a) Not given b) Not given c) Not given d) Not given	a) 83.0 ug/g b) 50.4 ug/g c) 0 ug/g d) 10.8 ug/g Wet wt	a) 4-day exposure to 100 ug/L b) Same Cd exposure plus 24 hrs to 800 ug/L naphthalene c) 80 ug/L naphthalene d) 100 ug/L Cd plus 80 ug/L naphthalene Edge of shell margin removed for constant exposure. South Carolina, Bulls Bay Gamma counting

BRAIN; GALL BLADDER; KIDNEYS; SKIN; GILLS; HEART; LIVER; MUSCLES; BLOOD; BODY; AQUATIC; FISHES; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; SOUTH CAROLINA; CADMIUM; BIOACCUMULATION; OYSTERS; WATER POLLUTION

Fair, P.A.; Sick, L.V. 1983 Archives of Environmental Contamination and Toxicology 12:551-557

Oyster, American

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3251 Body	a) 104 b) 129 c) 95 d) 281 e) 376 Ingestion	a) 0.52-7.80 ug/g b) 0.25-3.80 ug/g c) 0.19-5.92 ug/g d) 0.16-5.01 ug/g e) 0.06-2.28 ug/g Wet wt	a) 2.05 ug/g b) 1.23 ug/g c) 1.21 ug/g d) 0.96 ug/g e) 0.64 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Oyster, Pacific

CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3252 Body	10	a) Not given b) Not given	a) 0.57 +or- 0.12 ug/g b) 6.3 +or- 2.3 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA

Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Perch
PERCA FLUVIATALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3253 Gills	a) 1 b) 10	a) Not detected b) 8-70 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means for 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS

GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE

Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354

Tissue	Cases Exposure Route	Range	Mean	General Information
3254 Liver	a) 18 b) 11 c) 19 d) 18 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 3.7+/-0.6 ug/g b) 30.6+/-10.7 ug/g c) 21.1+/-5.0 ug/g d) 27.1+/-6.9 ug/g Dry wt S.E.	a) Uncontaminated sites, Ryssange, 9 km and Finsjon, 7 km upstream b) Karrhultesjon Lake, 10 km downsteam c) Gronskogssjon Lake, 11 km downstream d) Karlshammer, site on river 16 km downstream Distance from Fliseryd accumulator factory which released Cd and Ni into Eman River system. Sweden, Eman River system Number of lymphocytes 40-100% greater in contaminated perch, anemia, disturbed carbohydrate metabolism and blood plasma composition AAS

FISHES; PERCH; CADMIUM; LIVER; SWEDEN; BIOACCUMULATION; INDUSTRIAL POLLUTION; ENVIRONMENTAL EXPOSURE; AQUATIC

Sjobeck, M.; Haux, C.; Larsson, A.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:303-312

Tissue	Cases Exposure Route	Range	Mean	General Information
3255 Liver	a) 10 b) 10 c) 10 Ingestion	a) Not given b) Not given c) Not given	a) 1.0+/-0.2 ug/g b) 1.1+/-0.3 ug/g c) 1.0+/-0.2 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy-metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS

LIVER; MUSCLES; FISHES; AQUATIC; DELIBERATE EXPOSURE; SWEDEN; METAL POISONING; ZINC; LEAD; COPPER; CADMIUM; MERCURY; ARSENIC; BIOACCUMULATION; INDUSTRIAL POLLUTION; WATER POLLUTION; ADULTS

Larsson, A.; Haux, C.; Sjobeck, M.-L.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:118-128

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Perch
PERCA FLUVIATALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3256 Liver	a) 1 b) 4	a) Not detectable-21 ug/g b) 159-643 ug/g Wet wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means for 2 and 3 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3257 Muscle	a) 8 b) 10	a) Not detected b) 1-13 ug/g Wet w	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means for 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Periwinkle

Tissue	Cases Exposure Route	Range	Mean	General Information
3258 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Phytoplankton

Tissue	Cases Exposure Route	Range	Mean	General Information
3259 Body				Review. Bioaccumulation in marine organisms source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewd.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Pintail
ANAS ACUTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3260 Kidney	5 Ingestion	2.47-13.69 ug/g Dry wt	5.65 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Pintail
ANAS ACUTA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3261 Liver	24 Ingestion	<0.10-3.70 ug/g Dry wt	1.04 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS *Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48*				

Quail, Japanese
COTURNIX COTURNIX JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3262 Kidney	a) 8 b) 8 Ingestion	a) Not given b) Not given	a) 13.70+/-2.35 ppm b) 17.70+/-0.30 ppm Dry wt S.E.	a) Males b) Females Fed diet containing 50% (dry wt) ground earthworms exposed to Cd-containing fungicides and Milorganite (47.8 ppm Cd in worms). Diet consumed for 27 d. Chicks 40 d old. Average wt at end of experiment: a) 86.4+/-1.7 g, b) 95.3+/-2.6 g. New York, Ithaca Stripping voltammetry
3263 Liver	a) 8 b) 8 Ingestion	a) Not given b) Not given	a) 4.71+/-0.62 ppm b) 5.29+/-0.43 ppm Dry wt S.E.	a) Males b) Females Fed diet containing 50% (dry wt) ground earthworms exposed to Cd-containing fungicides and Milorganite (47.8 ppm Cd in worms). Diet consumed for 27 d. Chicks 40 d old. Average wt at end of experiment: a) 86.4+/-1.7 g, b) 95.3+/-2.6 g. New York, Ithaca Stripping voltammetry
3264 Muscle	a) 8 b) 8 Ingestion	a) Not given b) Not given	a) 0.14+/-0.03 ppm b) 0.08+/-0.01 ppm Dry wt S.E.	a) Males b) Females Fed diet containing 50% (dry wt) ground earthworms exposed to Cd-containing fungicides and Milorganite (47.8 ppm Cd in worms). Diet consumed for 27 d. Chicks 40 d old. Average wt at end of experiment: a) 86.4+/-1.7 g, b) 95.3+/-2.6 g. New York, Ithaca Stripping voltammetry
EARTHWORMS; BODY; LIVER; KIDNEYS; MUSCLES; CANADA; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION Pimentel, D.; Culliney, T.; Burgess, M.N.; Stoewsand, G.S.; Anderson, J.L.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Nutrition Reports International 30(2):475-481				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3265 Kidney	4 Ingestion	Not given	1.22+/-0.41 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3266 Liver	4 Ingestion	Not given	0.23+/-0.09 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Scallop
PECTEN MAXIMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3267 Body				Review. Bioaccumulation in marine organisms source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewd.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Scaup, greater
AYTHYA MARILA

Tissue	Cases Exposure Route	Range	Mean	General Information
3268 Kidney	11 Ingestion	0.82-15.45 ug/g Dry wt	7.40 ug/g Dry wt	Collected winters 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3269 Liver	13 Ingestion	<0.10-3.16 ug/g Dry wt	1.56 ug/g Dry wt	Collected winters 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Scaup, lesser
AYTHYA AFFINIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3270 Kidney	69 Ingestion	0.48-17.73 ug/g Dry wt	6.10 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3271 Liver	83 Ingestion	<0.10-4.03 ug/g Dry wt	1.25 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Scoter, white-winged
MELANITTA FUSCA DEGLANDI

Tissue	Cases Exposure Route	Range	Mean	General Information
3272 Kidney	7 Ingestion	3.10-71.15 ug/g Dry wt	27.62 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levles linked to carnivorous diet. Possible sublethal effects. Data pooled includes oldsquaws. Chesapeake Bay AAS
3273 Liver	7 Ingestion	<0.10-13.29 ug/g Dry wt	3.10 ug/g Dry wt	Collected winters of 1976-77, 1979-80. High levels linked to carnivorous diet. Possible sublethal effects. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3274 Blood	144 Ingestion	a) 0.02-0.06 mg/kg wet wt b) 0.03-0.10 mg/kg wet wt c) Not applicable d) Not applicable e) 0.08-0.09 mg/kg wet wt f) 0.01-0.42 mg/kg wet wt	a) Not applicable b) Not applicable c) 0.01 mg/kg wet wt d) 0.01 mg/kg wet wt e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Canada; Greenland; Northwest Atlantic; Arctic AAS
3275 Brain	168 Ingestion	a) 0.05-0.06 mg/kg b) 0.05-0.09 mg/kg c) 0.02-0.05 mg/kg d) 0.02-0.06 mg/kg e) 0.01-0.11 mg/kg f) 0.05-0.28 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Canada; Greenland; Northwest Atlantic; Arctic AAS
3276 Kidney	232 Ingestion	a) 1.55-20.4 mg/kg b) 0.43-38.8 mg/kg c) 1.32-26.6 mg/kg d) 0.15-21.9 mg/kg e) 7.01-20.8 mg/kg f) 4.62-25.4 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Accumulated with age. Canada; Greenland; Northwest Atlantic; Arctic AAS

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3277 Liver	216 Ingestion	a) 0.18-6.97 mg/kg b) 0.23-12.0 mg/kg c) 0.92-6.20 mg/kg d) 0.05-4.39 mg/kg e) 1.44-4.74 mg/kg f) 0.90-7.98 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher levels than males. Accumulated with age. Levels correlated with Se (r=0.56). Canada; Greenland; Northwest Atlantic; Arctic AAS
3278 Muscle	225 Ingestion	a) 0.04-0.06 mg/kg b) 0.05-0.14 mg/kg c) 0.02-0.10 mg/kg d) 0.01-0.20 mg/kg e) 0.05-0.15 mg/kg f) 0.03-0.48 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Adult females significantly higher than males. Canada; Greenland; Northwest Atlantic; Arctic AAS

SEALS; CADMIUM; LEAD; MERCURY; SELENIUM; COPPER; BIOACCUMULATION; BIOLOGICAL MONITORING; CANADA; GREENLAND; BLOOD; KIDNEYS; MUSCLES; LIVER; BRAIN; AGE; ARCTIC; ATLANTIC; SEX; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:156-166

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3279 Bone	a) 8 b) 8 c) 8	a) Not given b) Not given c) Not given	a) 2.05 ug/g b) 0.71 ug/g c) 1.49 ug/g Dry wt +/-0.22 S.E.	Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. Ewes on diets for 2 yr. a) significantly different from b) and c), $p<0.05$. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Hallford, D.M. 1984 Jutrition Reports International 29(1):11-21

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3280 Kidney		a) Not given b) Not given	a) 0.34+/-0.07 mg/kg b) 0.43+/-0.08 mg/kg dry wt	a) Control b) Fed sugar beets grown on municipal sludge-amended soil for 66 d Not significantly different. Finn-Dorset Lambs. New York, Syracuse ASV

KIDNEYS; LIVER; MUSCLES; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; NEW YORK; CADMIUM; ANIMAL FEEDS; AGRICULTURE; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; MEAT; SOILS; VEGETABLES

Telford, J.N.; Babish, J.G.; Dunham, P.B.; Hogue, D.E.; Miller, K,W.; Stoewsand, G.S.; Magee, B.H.; Stougger, J.R.; Bache, C.A.; Lisk, D.J. 1984 American Journal of Veterinary Research 45(12):2490-2494

Tissue	Cases Exposure Route	Range	Mean	General Information
3281 Kidney	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 0.08 ug/g b) 0.06 ug/g c) 0.05 ugg Dry wt +/-0.01 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Hallford, D.M. 1984 Nutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3282 Kidney	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.55+/-0.14 ppm b) 0.83+/-0.17 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 83.0 ppm Cd, dry wt 3-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polaragraphic analysis

KIDNEYS; LIVER; MUSCLES; TESTES; SHEEP; DELIBERATE EXPOSURE; NEW YORK; JUVENILES; METAL POISONING; CADMIUM; ANIMAL FEEDS; AGRICULTURE; ANIMAL POPULATIONS; BIOACCUMULATION; FARMS; HEALTH HAZARDS; SEWAGE; SOILS; VEGETATION; TERRESTRIAL

Hogue, D.E.; Parrish, J.J.; Foote, R.H.; Stouffer, J.R.; Anderson, J.L.; Stoewsand, G.S.; Telford, J.N.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Journal of Toxicology and Environmental Health 14:153-161

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3283 Liver		a) Not given b) Not given	a) 0.07+/-0.01 mg/kg b) 0.17+/-0.04 mg/kg dry wt	a) Control b) Fed sugar beets grown on municipal sludge-amended soil for 66 d Not significantly different. Finn-Dorset Lambs. New York, Syracuse ASV

KIDNEYS; LIVER; MUSCLES; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; NEW YORK; CADMIUM; ANIMAL FEEDS; AGRICULTURE; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; MEAT; SOILS; VEGETABLES

Telford, J.N.; Babish, J.G.; Dunham, P.B.; Hogue, D.E.; Miller, K,W.; Stoewsand, G.S.; Magee, B.H.; Stougger, J.R.; Bache, C.A.; Lisk, D.J. 1984 American Journal of Veterinary Research 45(12):2490-2494

Tissue	Cases Exposure Route	Range	Mean	General Information
3284 Liver	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 0.06 ug/g b) 0.06 ug/g c) 0.12 ug/g Dry wt +/-0.002 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7 % undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Hallford, D.M. 1984 Jutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3285 Liver	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.22+/-0.04 ppm b) 0.40+/-0.08 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 83.0 ppm Cd, dry wt 3-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polaragraphic analysis

KIDNEYS; LIVER; MUSCLES; TESTES; SHEEP; DELIBERATE EXPOSURE; NEW YORK; JUVENILES; METAL POISONING; CADMIUM; ANIMAL FEEDS; AGRICULTURE; ANIMAL POPULATIONS; BIOACCUMULATION; FARMS; HEALTH HAZARDS; SEWAGE; SOILS; VEGETATION; TERRESTRIAL

Hogue, D.E.; Parrish, J.J.; Foote, R.H.; Stouffer, J.R.; Anderson, J.L.; Stoewsand, G.S.; Telford, J.N.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Journal of Toxicology and Environmental Health 14:153-161

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3286 Muscle		a) Not given b) Not given	a) 0.04+/-0.02 mg/kg b) 0.03+/-0.02 mg/kg dry wt	a) Control b) Fed sugar beets grown on municipal sludge-amended soil for 66 d Not significantly different. Finn-Dorset Lambs New York, Syracuse ASV
KIDNEYS; LIVER; MUSCLES; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; NEW YORK; CADMIUM; ANIMAL FEEDS; AGRICULTURE; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; MEAT; SOILS; VEGETABLES Telford, J.N.; Babish, J.G.; Dunham, P.B.; Hogue, D.E.; Miller, K,W.; Stoewsand, G.S.; Magee, B.H.; Stougger, J.R.; Bache, C.A.; Lisk, D.J. 1984 American Journal of Veterinary Research 45(12):2490-2494				

Tissue	Cases Exposure Route	Range	Mean	General Information
3287 Muscle	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.03+/-0.01 ppm b) 0.09+/-0.04 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 83.0 ppm Cd, dry wt 3-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polaragraphic analysis
3288 Testis	a) 5 b) 5 Ingestion	a) Not given b) Not given	a) 0.02+/-0.00 ppm b) 0.02+/-0.00 ppm Dry wt	a) Controls b) Treatment group grazed on pasture supplemented with municipal sludge with 83.0 ppm Cd, dry wt 3-mo-old Morlam sheep, pastured 152 d. Differences not statistically significant ($p>0.05$). New York Polaragraphic analysis
KIDNEYS; LIVER; MUSCLES; TESTES; SHEEP; DELIBERATE EXPOSURE; NEW YORK; JUVENILES; METAL POISONING; CADMIUM; ANIMAL FEEDS; AGRICULTURE; ANIMAL POPULATIONS; BIOACCUMULATION; FARMS; HEALTH HAZARDS; SEWAGE; SOILS; VEGETATION; TERRESTRIAL Hogue, D.E.; Parrish, J.J.; Foote, R.H.; Stouffer, J.R.; Anderson, J.L.; Stoewsand, G.S.; Telford, J.N.; Bache, C.A.; Gutenmann, W.H.; Lisk, D.J. 1984 Journal of Toxicology and Environmental Health 14:153-161				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C
Sheep, Finn-Dorset
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3289 Kidney	a) 5 b) 5 c) 5 d) 5 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.32+/-0.05 ppm b) 0.94+/-0.17 ppm c) 0.28+/-0.08 ppm d) 1.22+/-0.19 ppm Dry wt S.E.	a) Control diet, ewes, 0.06 ppm b) Sludge-amended diet, ewes, 0.71 ppm c) Control diet, rams, 0.06 ppm d) Sludge-amended diet, rams, 0.71 ppm 3 mo old lambs fed 102 d hay grown on sewage sludge-amended pasture, control hay on same soil, no sludge. Significant differences between controls, treated. New York, Syracuse, Ley Creek Sewage Treatment Plant; New York, Ithaca Rams fed hay grown on sludge-amended soil had significantly higher liver mixed-function oxidase activity, indicating induction by organic compounds in the sewage sludge. ASV
3290 Liver	a) 5 b) 5 c) 5 d) 5 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.09+/-0.01 ppm b) 0.38+/-0.04 ppm c) 0.09+/-0.02 ppm d) 0.46+/-0.05 ppm Dry wt S.E.	a) Control diet, ewes, 0.06 ppm b) Sludge-amended diet, ewes, 0.71 ppm c) Control diet, rams, 0.06 ppm d) Sludge-amended diet, rams, 0.71 ppm 3 mo old lambs fed 102 d hay grown on sewage sludge-amended pasture, control hay on same soil no sludge. Significant differences between controls, treated. New York, Syracuse, Ley Creek Sewage Treatment Plant; New York, Ithaca Rams fed hay grown on sludge-amended soil had significantly higher liver mixed-function oxidase activity, indicating induction by organic compounds in the sewage sludge. ASV
3291 Muscle	a) 5 b) 5 c) 5 d) 5 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.01+/-0.00 ppm b) 0.02+/-0.00 ppm c) 0.02+/-0.00 ppm d) 0.02+/-0.01 ppm Dry wt S.E.	a) Control diet, ewes, 0.06 ppm b) Sludge-amended diet, ewes, 0.71 ppm c) Control diet, rams, 0.06 ppm d) Sludge-amended diet, rams, 0.71 ppm 3 mo old lambs fed 102 d hay grown on sewage sludge-amended pasture, control hay on same soil, no sludge. No significant differences. New York, Syracuse, Ley Creek Sewage Treatment Plant; New York, Ithaca Rams fed hay grown on sludge-amended soil had significantly higher liver mixed-function oxidase activity, indicating induction by organic compounds in the sewage sludge. ASV

SHEEP; CADMIUM; KIDNEYS; LIVER; MUSCLES; SEWAGE; SEDIMENTS; BIOACCUMULATION; DIETS; ENZYMES; BIOINDICATORS; TERRESTRIAL; DELIBERATE EXPOSURE

Telford, J.N.; Hogue, D.E.; Stouffer, J.R.; Magee, B.H.; Miller, K.W.; Stoewsand, G.S.; Krans, J.M.S.; Bache, C.A.; Lisk, D.J. 1984 Nutrition Reports International 29(6):1391-1401

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Shell, wedge
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3292 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.10 ug/g b) 0.54 ug/g c) 1.05 ug/g d) 2.19 ug/g e) 0.08+/-0.03 ug/g f) 1.42+/-0.36 ug/g g) 2.53+/-1.00 ug/g h) 3.19+/-1.16 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L e) Control f) 100 ug/L g) 250 ug/L h) 500 ug/L a-d), 3-wk exposure to sublethal levels. e-h) 1 wk exposure South Africa
3293 Digestive gland	80	a) Not given b) Not given c) Not given d) Not given	a) 0.08 ug/g b) 0.42 ug/g c) 1.02 ug/g d) 1.82 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa
3294 Foot	80	a) Not given b) Not given c) Not given d) Not given	a) 0.07 ug/g b) 0.18 ug/g c) 0.24 ug/g d) 0.47 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels.
3295 Gills	80	a) Not given b) Not given c) Not given d) Not given	a) 0.27 ug/g b) 3.38 ug/g c) 8.08 ug/g d) 19.67 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa
3296 Gonads	80	a) Not given b) Not given c) Not given d) Not given	a) 0.11 ug/g b) 0.49 ug/g c) 0.75 ug/g d) 1.11 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels.
3297 Mantle	80	a) Not given b) Not given c) Not given d) Not given	a) 0.08 ug/g b) 0.30 ug/g c) 0.70 ug/g d) 1.18 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa
3298 Muscle	80	a) Not given b) Not given c) Not given d) Not given	a) 0.14 ug/g b) 0.65 ug/g c) 1.31 ug/g d) 2.97 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Shell, wedge
DONAX SERRA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3299 Syphon	80	a) Not given b) Not given c) Not given d) Not given	a) 0.15 ug/g b) 0.30 ug/g c) 0.46 ug/g d) 0.73 ug/g Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa
MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:339-343				

Shrew, common
SOREX ARANEUS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3300 Body	a) 13 b) 17 Ingestion	a) 0.7-1.74 ug/g b) 35.5-78.5 ug/g Dry wt	a) 1.19+/-0.07 ug/g b) 52.7+/-3.4 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3301 Bone	30 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.88+/-0.06 ug/g b) 1.36+/-0.21 ug/g c) 0.87+/-0.05 ug/g d) 0.61+/-0.03 ug/g e) 1.0+/-0.1 ug/g f) 1.89+/-0.19 ug/g g) 1.29+/-0.19 ug/g h) 1.4+/-0.34 ug/g Dry wt S.E.	a) Lower mandible, control site b) Lower mandible, mine site c) Skull, control site d) Skull, mine site e) Femur, control site f) Femur, mine site g) Pelvic girdle, control site h) Pelvic girdle, mine site Estimated control diet level 2.1 ug/g dry wt, mine diet level 23.2 ug/g dry wt. Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Femur and skull levels at mine site significantly greater than controls. England, central AAS
3302 Heart	a) 13 b) 17 Ingestion	a) Not given b) Not given	a) 2.03+/-0.22 ug/g b) 49.1+/-6.6 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Shrew, common
SOREX ARANEUS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3303 Kidney	a) 13 b) 17 Ingestion	a) Not given b) Not given	a) 4.13+/-0.72 ug/g b) 158.1+/-15.4 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3304 Liver	a) 13 b) 17 Ingestion	a) Not given b) Not given	a) 2.85+/-0.55 ug/g b) 235.8+/-29.7 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3305 Muscle	a) 13 b) 17 Ingestion	a) Not given b) Not given	a) 0.81+/-0.16 ug/g b) 8.04+/-1.26 ug/g Dry wt S.E.	a) Control site, level in diet 2.1 ug/g b) Mine site, level in diet 23.2 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
CADMIUM; BIOACCUMULATION; BIOMAGNIFICATION; DIETS; LIVER; KIDNEYS; BONES; MUSCLES; HEART; LAND POLLUTION; INDUSTRIAL POLLUTION; BIOLOGICAL MONITORING; VEGETATION; SHREWS; BODY; TERRESTRIAL; ENGLAND; ENVIRONMENTAL EXPOSURE Andrews, S.M.; Johnson, M.S.; Cooke, J.A. 1984 Environmental Pollution (Series A) 33:153-162				

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
3306 Alimentary canal	Ingestion	a) Not given b) Not given	a) Not detected b) 1100+/-106 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3307 Fat body	Ingestion	a) Not given b) Not given	a) Not detected b) 3.48+/-0.17 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3308 Gonads	Ingestion	a) Not given b) Not given	a) Not detectable b) 4.39 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3309 Head	Ingestion	a) Not given b) Not given	a) Not detected b) 10.5+/-1.9 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3310 Integument	Ingestion	a) Not given b) Not given	a) Not detected b) 2.60+/-0.17 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3311 Malpighian tubes	Ingestion	a) Not given b) Not given	a) Not detectable b) 470+/-10 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3312 Silk gland	Ingestion	a) Not given b) Not given	a) Not detected b) 0.661+/-0.105 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3313 Trachea	Ingestion	a) Not given b) Not given	a) Not detectable b) 4.36+/-0.25 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing non (controls), or 5 and 80 ug/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION

Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3314 Body	797	2.1-8.8 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. Higher levels in smaller individuals. Levels slightly higher in western area. South Africa AAS

BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS

Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338

Snail, saltwater
NUCELLA LAPILLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3315 Body	40 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 11.8+/-2.4 ppm b) 25.1+/-5.9 ppm c) 25.7+/-5.1 ppm d) 11.9+/-3.4 ppm e) 18.4+/-5.3 ppm f) 8.1+/-0.6 ppm	a) Eastport, ME, large embayment b) Pemaquid Pt., ME, exposed coastal c) New Harbor, ME, close to marina and harbors, sheltered harbor d) Manomet, MA, large embayment e) Pt. Judith, RI, industrial effluents, marinas, coastal f) Avery Pt., CT, industrial and sewage effluents, marinas, river mouth. Pseudohermaphrodites (females with penis) common at c), e), f), polluted boating areas (94-100% frequency). Relatively unpolluted areas, no abnormalities a), b), d). "Imposex" associated with heavy metals Cd not implicated. Maine; Massachusetts; Rhode Island; Connecticut AAS

SNAILS; BODY; CADMIUM; ZINC; COPPER; CHROMIUM; IRON; AQUATIC; WATER POLLUTION; POPULATION EXPOSURE; SEX; MAINE; RHODE ISLAND; MASSACHUSETTS; CONNECTICUT; ENVIRONMENTAL EXPOSURE

Miller, E.R.; Pondick, J.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:612-620

Squid
TODARODES PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3316 Liver	3	20.3-41.8 ug/g Wet wt	31.1 ug/g Wet wt	Food of striped dolphin. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS

(next page)

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Squid
TODARODES PACIFICUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3317 Muscle	3	0.21-0.90 ug/g Wet wt	0.65 ug/g Wet wt	Food of striped dolphin. Japan, Kawana, east Izu Peninsula; Japan, Taiji, southern Kii Peninsula AAS
BODY; LIVER; MUSCLES; PANCREAS; LUNGS; HEART; SPLEEN; INTESTINES; STOMACH; KIDNEYS; BLOOD; ADIPOSE TISSUE; TESTES; OVARIES; SKIN; BONES; PLACENTA; MAMMARY GLANDS; MILK; MAMMALS; DOLPHINS; FISHES; SQUID; CADMIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOINDICATORS; *BIOLOGICAL MONITORING*; BIOACCUMULATION; WATER POLLUTION Honda, K.; Tatsukawa, R. 1983 Archives of Environmental Contamination and Toxicology 12:543-550				

Stonefly
PLECOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3318 Body		a) 0-210 ppm b) 210-375 ppm c) 0-380 ppm d) 260-300 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during wet weather c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Sucker, northern hog
HYPENTELIUM NIGRICANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3319 Body	12	0.32-0.50 ug/g Dry wt	0.40 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and T xicology 12:701-706				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
3320 Body	26	0.09-0.62 ug/g Dry wt	0.44 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Sunfish, redbreast
LEPOMIS AURITUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3321 Body	3	0.03-1.05 ug/g Dry wt	0.40 ug/g Dry wt Median	Highway-contaminated stream. No positive correlation with total length. Sediment association influenced inter-specific variation. Virginia, Back Creek AAS
BODY; AQUATIC; VIRGINIA; CADMIUM; LEAD; NICKEL; ZINC; METALS; AIR POLLUTION; WATER POLLUTION; BIOACCUMULATION; BIOLOGICAL MONITORING; FISHES; BONES Ney, J.J.; Van Hassel, J.H. 1983 Archives of Environmental Contamination and Toxicology 12:701-706				

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3322 Kidney				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
3323 Liver				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
3324 Muscle				Review. Metal distribution in soils and plants, subsequent uptake and accumulation by farm animals discussed.
URINE; MILK; MUSCLES; LIVER; KIDNEYS; BODY; SWINE; CATTLE; GOATS; CHICKENS; TERRESTRIAL; REVIEW; BIOACCUMULATION Van Bruwaene, R.; Kirchmann, R.; Impens, R. 1984 Experientia 40(1):43-52				

Cadmium

7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Teal, green-winged
ANAS CRECCA CAROLINENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3325 Liver	16 Ingestion	<0.10-1.78 ug/g Dry wt	0.67 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Tench
TINCA TINCA

Tissue	Cases Exposure Route	Range	Mean	General Information
3326 Gills	a) 4 b) 9	a) Not detected b) 19-95 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
3327 Liver	a) 4 b) 9	a) Not detected-1ug/g b) 63-116 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
3328 Muscle	a) 4 b) 9	a) Not detected b) 1-16 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3329 Liver	2	Not given	1 ug/g Dry wt	Upstream of metal inflow, 1 sampling area Australia, Tasmania, South Esk River AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Trout, brown
SALMO TRUTTA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3330 Muscle	20	2-25 ug/g Dry wt	Not given	Downstream of metal inflow. Range of means from 5 sampling areas. Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Tunicate

Tissue	Cases Exposure Route	Range	Mean	General Information
3331 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Turtle, snapping
CHELHYDRA SERPENTINA

Tissue	Cases Exposure Route	Range	Mean	General Information
3332 Adipose	a) 5 b) 4 c) 3	a) 0.002-0.016 mg/kg b) 0.006-0.016 mg/kg c) 0.004-0.025 mg/kg	a) 0.008 mg/kg b) 0.011 mg/kg c) 0.011 mg/kg	a) St. Paul b) Prairie Island c) Lake City Red meat, <0.05-0.68% lipid. Length 5.5-15 in., wt 1.8-21.8 lb, estimated age 3->20 yr Minnesota, Mississippi River
TURTLES; CADMIUM; MERCURY; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; BIOINDICATORS; ADIPOSE TISSUE; MUSCLES; MINNESOTA Helwig, D.D.; Hora, M.E. 1983 Bulletin of Environmental Contamination and Toxicology 30:186-190				

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Vole, meadow
MICROTUS PENNSYLVANICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3333 Kidney	a) 7-12 b) 7-14 c) 12 d) 13 e) 8-13 f) 10-15 g) 15 h) 23	a) 0.56-0.90 ug/g b) 0.50-1.06 ug/g c) Not given d) Not given e) 0.20-0.57 ug/g f) 0.47-0.38 ug/g g) Not given h) Not given Wet wt	a) Not applicable b) Not applicable c) 4.76 ug/g d) 9.34 ug/g e) Not applicable f) Not applicable g) 3.41 ug/g h) 6.27 Wet wt	a) Enclosures in control and fertilizer treated fields in 2nd yr of succession, 1980 b) Same enclosures, yr later c) Enclosure in 2 yr old field treated with sewage sludge, 8960 kg/ha/yr d) Same enclosure, yr later e) Enclosures in 6 yr old fields, control and fertilizer treated, 1980 f) Same enclosures, yr later g) Enclosure in 6 yr old field treated with sewage sludge, 1980 h) Same enclosure, yr later Ranges of means. Ohio, Oxford, Bachelor Wildlife Reserve AAS
3334 Liver	a) 19-34 b) 17-29 c) 35 d) 30 e) 23-37 f) 20-37 g) 43 h) 52	a) 0.05-0.13 b) 0.08-0.21 c) Not given d) Not given e) 0.06-0.06 f) 0.16-0.14 g) Not given h) Not given ug/g Wet wt	a) Not applicable b) Not applicable c) 1.19 d) 1.82 e) Not applicable f) Not applicable g) 0.70 h) 1.24 ug/g Wet wt	a) Enclosures in control and fertilizer treated fields in 2nd yr of succession, 1980 b) Same enclosures, yr later c) Enclosure in 2 yr old field treated with sewage sludge, 8960 kg/ha/yr d) Same enclosure, yr later e) Enclosures in 6 yr old fields, control and fertilizer treated, 1980 f) Same enclosures, yr later g) Enclosure in 6 yr old field treated with sewage sludge, 1980 h) Same enclosure, yr later Ranges of means. Ohio, Oxford, Bachelor Wildlife Reserve AAS

LIVER; KIDNEYS; VOLES; TERRESTRIAL; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; OHIO; CADMIUM; METALS; LAND POLLUTION; ANIMAL POPULATIONS; TRACE ELEMENTS; BIOACCUMULATION; SEWAGE; SOILS

Maly, M.S. 1984 Bulletin of Environmental Contamination and Toxicology 32:724-731

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Vole, short-tailed field
MICROTUS AGRESTIS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3335 Body	a) 20 b) 21 Ingestion	a) 0.57-1.39 ug/g b) 1.05-3.22 ug/g Dry wt	a) 0.88+/-0.05 ug/g b) 1.84+/-0.12 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3336 Bone	41 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.67+/-0.03 ug/g b) 0.64+/-0.04 ug/g c) 0.59+/-0.03 ug/g d) 0.72+/-0.04 ug/g e) 0.43+/-0.08 ug/g f) 0.69+/-0.06 ug/g g) 0.34+/-0.04 ug/g h) 0.72+/-0.04 ug/g Dry wt S.E.	a) Lower mandible, control site b) Lower mandible, mine site c) Skull, control site d) Skull, mine site e) Femur, control site f) Femur, mine site g) Pelvic girdle, control site h) Pelvic girdle, mine site Revegetated mine waste. Estimated level in control diet 1.21 ug/g dry wt, level in mine diet 4.75 ug/g dry wt. Control area unmanaged grassland distant from pollution sources. Femur and skull levels at mine site significantly greater than controls. England, central AAS
3337 Heart	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 0.74+/-0.08 ug/g b) 1.02+/-0.16 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3338 Kidney	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 1.75+/-0.26 ug/g b) 5.21+/-0.86 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3339 Liver	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 1.14+/-0.15 ug/g b) 1.88+/-0.22 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Vole, short-tailed field
MICROTUS AGRESTIS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3340 Muscle	a) 20 b) 21 Ingestion	a) Not given b) Not given	a) 0.32+/-0.03 ug/g b) 1.27+/-0.17 ug/g Dry wt S.E.	a) Control site, level in diet 1.21 ug/g b) Mine site, level in diet 4.75 ug/g Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Level at mine site significantly greater than control. England, central AAS
3341 Teeth	41 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.74+/-0.04 ug/g b) 0.67+/-0.04 ug/g c) 0.55+/-0.03 ug/g d) 0.76+/-0.06 ug/g Dry wt S.E.	a) Incisors, control site b) Incisors, mine site c) Molars, control site d) Molars, mine site Estimated control diet 1.21 ug/g dry wt, mine diet 4.75 ug/g dry wt. Revegetated mine waste. Control area unmanaged grassland distant from pollution sources. Molar level at mine site significantly greater than control. England, central AAS
CADMIUM; BIOACCUMULATION; BIOMAGNIFICATION; DIETS; LIVER; KIDNEYS; BONES; MUSCLES; HEART; LAND POLLUTION; INDUSTRIAL POLLUTION; BIOLOGICAL MONITORING; VEGETATION; SHREWS; BODY; TERRESTRIAL; ENGLAND; ENVIRONMENTAL EXPOSURE Andrews, S.M.; Johnson, M.S.; Cooke, J.A. 1984 Environmental Pollution (Series A) 33:153-162				

Whelk, dog

Tissue	Cases Exposure Route	Range	Mean	General Information
3342 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Wigeon, American
ANAS AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
3343 Kidney	14 Ingestion	0.77-14.79 ug/g Dry wt	7.73 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

(next page)

Cadmium
7440-43-9
Cd
AtW 112.40, MP 321 C, BP 765 C, VP 1 mm Hg at 394 C, 10 mm Hg at 486 C

Wigeon, American
ANAS AMERICANA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3344 Liver	37 Ingestion	<0.10-3.34 ug/g Dry wt	1.14 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Worm, polychaete

Tissue	Cases Exposure Route	Range	Mean	General Information
3345 Body				Review. Bioaccumulation in marine organisms. Source, chemical form, kinetics, storage and metabolism, and factors controlling accumulation reviewed.
BODY; MARINE ORGANISMS; AQUATIC; REVIEW; CADMIUM; ENVIRONMENTAL EXPOSURE; BIOACCUMULATION; WATER POLLUTION Ray, S. 1984 Experientia 40(1):14-23				

Caffeine (8 CI); 1H-Purine-2,6-dione, 3,7-dihydro-1,3,7-trimethyl- (9 CI)
58-08-2
C8-H10-N4-O2
MW 194.19, MP 238 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3346 Blood, plasma	10 Injection	a) Not given b) Not given c) Not given d) Not given	a) 5.3 +or- 0.5 ug/ml b) 3.9 +or- 0.6 ug/ml c) 49.7 +or- 3.1 ug/ml d) 36.9 +or- 4.6 ug/ml	a) Maternal, 6.96 mg/kg b) Fetal c) Maternal, 6.96 mg/kg d) Fetal 15 min after infusion. Not detected 48 hr after infusion. Pregnant crossbred ewes, fetal gestational stage 103-120 days Slight reduction in uterine blood flow. Significant maternal and fetal tachycardia at higher dose UV
SHEEP; NEW YORK; ADULTS; FETUS; BLOOD SERUM; BIOACCUMULATION; HEALTH HAZARDS; PREGNANCY; CAFFEINE Wilson, S.J.; Ayromlooi, J.; Errick, J.K. 1983 Obstetrics and Gynecology 61(4):486-492				

Calcium

7440-70-2

Ca

AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Beaver

CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3347 Intestine	4 Ingestion	Not given	413+/-128 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3348 Kidney	4 Ingestion	Not given	128+/-17 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3349 Liver	4 Ingestion	Not given	109+/-30 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3350 Muscle	4 Ingestion	Not given	60+/-31 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Cattle

BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3351 Blood, plasma	a) 5 b) 6 Ingestion	a) 2.5-2.5 mmol/l b) 2.5-2.4 mmol/l	a) Not applicable b) Not applicable	a) 12 d before-8 d after parturition, trough (1.8 mmol/l) on d of parturition after 120 g/d for 5-14 d before calving b) 12 d before-8 d after parturition, trough (2.3 mmol/l) 2 d after partuition, after 55 g/d for 5-14 d before calving Low Ca diet during final weeks of pregnancy reduces likelihood of parturient paresis. France AAS
BLOOD PLASMA; DELIBERATE EXPOSURE; CATTLE; FRANCE; TERRESTRIAL; ADULTS; NUTRITIONAL DISORDERS; CALCIUM; MINERALS; DIETS; ANIMAL FEEDS; LACTATION; BIOACCUMULATION; MINERAL METABOLISM; PREGNANCY Barlet, J.-P.; Ross, R. 1984 British Veterinary Journal 140:392-397				

Calcium

7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3352 Blood, plasma	1 Ingestion	a) 2.4-2.4 mmol/l b) 2.4-2.5 mmol/l	a) Not applicable b) Not applicable	a) 1-8 d, steady state (2.4-2.2 mmol/l) 1-4 d, trough (1.9 mmol/l) 5-35 hr after Ca stress induction, return to steady state after resumption of 100 g/d b) 1-8 d, peak (2.8 mmol/l) 2 d after 200 ug 1,25-Dihydroxycholecalciferol, trough (1.9 mmol/l) at end of Ca stress, return to steady state after resumption of 100 g/d Ca stress induced by withdrawal of 100 g/d intra-abomasal infusion Ca-acetate for 35 hr. Prior stimulation of Ca absorption does not prevent rapid onset of hypocalcemia. Norway AAS
BLOOD PLASMA; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; NORWAY; NUTRITIONAL DEFICIENCIES; CALCIUM; BIOACCUMULATION; MINERAL METABOLISM; LACTATION; ANIMAL FEEDS; FOOD ADDITIVES; DRUGS; DRUG THERAPY Hove, K.; Hilde B.L. 1984 Canadian Journal of Animal Science 64:227-228				

Tissue	Cases Exposure Route	Range	Mean	General Information
3353 Blood, serum	106	a) Not given b) Not given	a) 6.08+/-0.25 mg/dl b) 6.96+/-0.20 mg/dl S.E.	a) Controls, no uterine prolapse b) Uterine prolapse Significant difference $p<0.01$ California Multichannel analyzer
BLOOD SERUM; CATTLE; TERRESTRIAL; CALIFORNIA; ENVIRONMENTAL EXPOSURE; CALCIUM; BIOACCUMULATION; MINERAL METABOLISM Risco, C.A.; Reynolds, J.P.; Hird, D. 1984 Journal of American Veterinary Medical Association 185(12):1517-1519				

Tissue	Cases Exposure Route	Range	Mean	General Information
3354 Milk		Not given	1080 mg/l	Normal cow's milk used in bioavailability study with humans. Sweden AAS
DIETS; CATTLE; ZINC; CALCIUM; MILK; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; TERRESTRIAL Lonnerdal, B.; Cederblad, A.; Davidson, L.; Sandstrom, B. 1984 American Journal of Clinical Nutrition 40:1064-1070				

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Chicken, white leghorn
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3355 Blood, plasma	Ingestion	a) Not given b) Not given	a) 7.7+/-0.4X10(E-3) M b) 8.2+/-0.4X10(E-3) M	a) Controls b) After 45 d exposure to 40 mg/kg p,p'-DDE. Sweden AAS
3356 Eggshell gland	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 450 ug/gland b) 475 ug/gland c) 1.5 mg/gland d) 1.45 mg/gland Dry wt	a) Fluid, controls b) Fluid, treatment c) Mucosa, controls d) Mucosa, treatment Treatment was 45 d exposure to 40 mg/kg p,p'-DDE. Estimated from chart. Sweden AAS

BLOOD PLASMA; EGGSHELL GLAND; WATERFOWL; CHICKENS; AQUATIC; TERRESTRIAL; DELIBERATE EXPOSURE; SWEDEN; DDE; CALCIUM; BIOACCUMULATION; PESTICIDE RESIDUES

Lundholm, C.E. 1984 Acta Pharmacologica and Toxicologica 54:400-407

Cod, pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3357 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 108+/-24 ug/g b) 113+/-26 ug/g c) 133+/-42 ug/g d) 11.3+/-2.70 mg/100 g e) 118+/-14 ug/g f) 107+/-13 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Considered low level. No significant differences e), f) in distribution of element. Slightly higher levels in nape indicated differential distribution. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Calcium

7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Deer, white-tailed
ODOCOILEUS VIRGINIANUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3358 Blood, plasma	4 Injection	a) 10.2+/-0.08-11.1+/-0.09 mg/100 mL b) 10.3+/-0.08-10.7+/-0.09 mg/100 mL c) 8.6+/-0.10-10.2+/-0.08 mg/100 mL S.E.	a) 10.7+/-0.21 mg/100 mL b) 10.5+/-0.09 mg/100 mL c) 9.7+/-0.36 mg/100 mL S.E.	a) Trial 1, 2/3-2/13, after velvet shedding, before antler growth b) Trial 2, 5/26-6/5, after about a month of slow antler growth c) Trial 3, 8/18-8/28, shortly before velvet shedding, near end of antler growth Dosed with 2 ml of Ca-47Cl2, in metabolism crates to study kinetics and balance and estimate absorption. Ranges of means. Texas AAS
BLOOD PLASMA; DEER; TERRESTRIAL; DELIBERATE EXPOSURE; TEXAS; CALCIUM; BONE DISEASES; MINERAL METABOLISM Stephenson, D.C.; Brown, R.D. 1984 Journal of Nutrition 114:1014-1024				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3359 Blood, plasma	Ingestion	a) Not given b) Not given	a) 10.6+/-0.8X10(E-3) M b) 10.3+/-0.8X10(E-3) M	a) Controls b) After 45 d exposure to 40 mg/kg p,p'-DDE. Sweden AAS
3360 Eggshell gland	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 540 ug/gland b) 350 ug/gland c) 0.8 mg/gland d) 0.9 mg/gland Dry wt	a) Fluid, controls b) Fluid, treatment c) Mucosa, controls d) Mucosa, treatment Treatment was 45 d exposure to 40 mg/kg p,p'-DDE. Estimated from chart. Sweden AAS
BLOOD PLASMA; EGGSHELL GLAND; WATERFOWL; CHICKENS; AQUATIC; TERRESTRIAL; DELIBERATE EXPOSURE; SWEDEN; DDE; CALCIUM; BIOACCUMULATION; PESTICIDE RESIDUES Lundholm, C.E. 1984 Acta Pharmacologica and Toxicologica 54:400-407				

Calcium

7440-70-2

Ca

AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Lizard, water

TRITURUS PYRRHOGASTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3361 Kidney	a) 5 b) 5 Injection	a) Not given b) Not given	a) 83.2+/-2.6 ug/g b) 86.6+/-10.0 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Kidney wt 36+/-8-43+/-6 mg ES
3362 Liver	a) 5 b) 5 Injection	a) Not given b) Not given	a) 29.9+/-2.5 ug/g b) 32.4+/-2.3 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Liver wt 349+/-108-411+/-80 mg ES
AMPHIBIANS; LIVER; KIDNEYS; DELIBERATE EXPOSURE; CADMIUM; COPPER; ZINC; AQUATIC; TERRESTRIAL; IRON; MAGNESIUM; CALCIUM; PHOSPHORUS Suzuki, K.T.; Akitomi, H.; Kawamura, R. 1984 Toxicology Letters 21:179-184				

Mackerel, Atka

PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3363 Muscle	20 Ingestion	Not given	141+/-30 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/- 156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Otter

LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3364 Intestine	4 Ingestion	Not given	359+/-209 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3365 Kidney	4 Ingestion	Not given	106+/-47 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES

(next page)

Calcium
7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Otter
LUTRA CANADENSIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3366 Liver	4 Ingestion	Not given	90+/-33 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3367 Muscle	4 Ingestion	Not given	72+/-32 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Pollock, walleye
THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3368 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 130+/-35 ug/g b) 99+/-22 ug/g c) 142+/-34 ug/g d) 12.6+/-3.2 mg/100 g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g d) Overall mean, combined sites Considered low levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3369 Muscle	24 Ingestion	Not given	88+/-25 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Calcium

7440-70-2

Ca

AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Raccoon

PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3370 Kidney	4 Ingestion	Not given	175+/-123 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3371 Liver	4 Ingestion	Not given	88+/-7 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3372 Muscle	4 Ingestion	Not given	54+/-2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Shad, American

ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3373 Muscle	13 Ingestion	Not given	144+/-36 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 983 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3374 Blood, plasma	4 Intraruminal	a) 10.0-10.2 mg b) 10.0-10.3 mg c) 10.1-10.2 mg d) 9.8-10.3 mg /100 ml Range of means	a) Not given b) Not given c) Not given d) Not given	a) Controls, 0 time, 500 ml water, thermoneutral (20 C) temperature b) Water, exposure to cold (0-5C) c) 1.5 g/kg KCl, thermoneutral temperature d) 1.5 g/kg KCl, cold temperature Measurements from 4 animals at 0, 1, 2, 3, 4 hr after treatment. Cross-bred wethers avg 39.4+/-4.8 kg body wt were fed a low-Mg diet (MgO, 16.6 mg/kg) at 1.5% of body wt once daily. Each subjected to 4 treatments in a 4x4 Latin square design. AAS
SHEEP; MAGNESIUM; BLOOD PLASMA; TERRESTRIAL; DELIBERATE EXPOSURE; UNITED STATES; NUTRITIONAL DEFICIENCIES; COMPARATIVE EVALUATIONS; DIETS; POTASSIUM; CALCIUM Terashima, Y.; Tucker, R.E.; Deetz, L.E.; Muntifering, R.B.; Mitchell, G.E., Jr. 1984 Nutrition Reports International 29(4):869-875				

Tissue	Cases Exposure Route	Range	Mean	General Information
3375 Blood, serum	a) 16 b) 16 c) 16	a) Not given b) Not given c) Not given	a) 10.7 mg/dl b) 10.6 mg/dl c) 10.8 mg/dl +/-0.1 S.E.	Lambs whose dams had basal diet fortified with cottonseed meal for 2 yr b) Same as a), basal diet plus 7% undigested sewage solids c) Same as a), basal diet Did not differ from controls. New Mexico AAS
KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM Hudgens, R.E.; Hallford, D.M. 1984 Nutrition Reports International 29(1):11-21				

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
3376 Alimentary canal	Ingestion	a) Not given b) Not given	a) 1100+/-130 ug/g b) 1240+/-294 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 983 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3377 Fat body	Ingestion	a) Not given b) Not given	a) 301+/-80 ug/g b) 271+/-18 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3378 Gonads	Ingestion	a) Not given b) Not given	a) 378 ug/g b) 292 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3379 Head	Ingestion	a) Not given b) Not given	a) 2210+/-179 ug/g b) 2410+/-217 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3380 Integument	Ingestion	a) Not given b) Not given	a) 450+/-82 ug/g b) 935+/-174 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3381 Malpighian tubes	Ingestion	a) Not given b) Not given	a) 75,400+/-8360 ug/g b) 98,600+/-17,400 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3382 Silk gland	Ingestion	a) Not given b) Not given	a) 2000+/-163 ug/g b) 2130+/-222 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Calcium

7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 983 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3383 Trachea	Ingestion	a) Not given b) Not given	a) 952+/-17 ug/g b) 1340+/-440 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION Susuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253				

Snail
LYMNAEA VULGARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3384 Body	a) 20 b) 20	a) Not given b) Not given	a) 1257.68+/-306.39 b) 783.28+/-240.99 Units not stated, presumed CPM/mg	a) Control b) Exposed Controls in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45. Exposed in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45 plus 0.015 ppm alkyl benzene sulfonate (detergent). 37.72% decrease ($p<0.001$) Scintillation counting
3385 Shell	a) 20 b) 20 c) 20 d) 20	a) Not given b) Not given c) Not given d) Not given	a) 74.75+/-35.89 b) 81.5+/-34.88 c) 902.07+/-270.04 d) 591.47+/-203.81 Units not stated, presumed CPM/mg	a) Controls, empty dried shells b) Exposed c) Controls, shells with living animals d) Exposed Controls in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45. Exposed in water containing 2 ml of 1 M CaCl2 spiked with additional Ca-45 plus 0.015 ppm alkyl benzene sulfonate (detergent). 34.43% decrease c) to d) Scintillation counting
BODY; SNAILS; DELIBERATE EXPOSURE; AQUATIC; INDIA; CALCIUM; WATER POLLUTION; SHELL Misra, V.; Lal, H.; Viswanathan, P.N.; Murti, C.R.K. 1984 Ecotoxicology and Environmental Safety 8:97-99				

Calcium
7440-70-2
Ca
AtW 40.08,MP 850 C,BP 1440 C,VP 10 mm Hg at 983 C

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3386 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 115+/-24 ug/g b) 119+/-13 ug/g c) 202+/-36 ug/g d) 13.3+/-4.70 mg/100 g Wet wt	a) Caught near Newport, OR, 29 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Considered low level. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Calcium

7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3387 Milk	60 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 0.07 % b) 0.09 % c) 0.08 % d) 0.07 % e) 0.21 % f) 0.22 % g) 0.22 % h) 0.24 %	a) Colostrum, no dietary supplement b) Colostrum, 50 ppm Zn c) Colostrum, 500 ppm Zn d) Colostrum, 5000 ppm Zn e) After 3 wk of lactation, no dietary supplement f) After 3 wk of lactation, 50 ppm Zn g) After 3 wk of lactation, 500 ppm Zn h) After 3 wk of lactation, 5000 ppm Zn Crossbred and pure Yorkshire gilts, mean pretreatment wt 30 kg AAS
SWINE; COLOSTRUM; MILK; CALCIUM; COPPER; IRON; MAGNESIUM; MINERALS; PHOSPHORUS; ZINC; ANIMAL FEEDS; DIETS; LACTATION Hill, G.M.; Miller, E.R.; Ku, P.K. 1983 Journal of Animal Science 57(1):123-129				

Trout, rainbow
SALMO GAIRDNERI

Tissue	Cases Exposure Route	Range	Mean	General Information
3388 Blood, plasma	a) 6-9 b) 6-9 c) 6-9 Ingestion	a) Not given b) Not given c) Not given	a) 9.7+/-0.3 mg/ml b) 9.7+/-0.5 mg/ml c) 9.6+/-0.4 mg/ml	a) Controls 0.6 ug Se/g in diet b) 6.6 ug Se/g diet (some added as Na-selenite) c) 11.4 ug Se/g diet (some added as Na-selenite) Diets consumed for 16 wk Initial body wt 0.6+/-0.1 g. Juveniles. Canada, Ontario Calcitometry
3389 Kidney	60 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.44+/-0.08 mg/g b) 0.55+/-0.25 mg/g c) 1.92+/-1.03 mg/g d) 15.83+/-5.97 mg/g Dry wt	a) Controls 0.6 ug Se/g in diet b) 6.6 ug Se/g diet (some added as Na-selenite) c) 11.4 ug Se/g diet (some added as Na-selenite) d) Same diet as c) but developed overt lesions of nephrocalcinosis Diets consumed for 24 wk. Initial body wt 0.6+/-0.1 g. Juveniles. c) & d) had significantly higher levels. Canada, Ontario Nephrocalcinosis, chalky deposits, swelling of kidneys and significantly higher Ca + Mg levels in kidneys than others on same diet. AAS
3390 Liver	60 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.15+/-0.02 mg/g b) 0.23+/-0.01 mg/g c) 0.28+/-0.01 mg/g d) 0.24+/-0.01 mg/g Dry wt	a) Controls 0.6 ug Se/g in diet b) 6.6 ug Se/g diet (some added as Na-selenite) c) 11.4 ug Se/g diet (some added as Na-selenite) d) Same diet as c) but developed overt lesions of nephrocalcinosis Diets consumed for 24 wk. Initial body weight 0.6+/- 0.1 g. Juveniles. Canada, Ontario AAS
LIVER; KIDNEYS; FISHES; SELENIUM; CALCIUM; DIETS; MAGNESIUM; CANADA; BLOOD PLASMA; AQUATIC; DELIBERATE EXPOSURE Hicks, B.D.; Hilton, J.W.; Ferguson, H.W. 1984 Journal of Fish Diseases 7:379-389				

Calcium

7440-70-2
Ca
AtW 40.08, MP 850 C, BP 1440 C, VP 10 mm Hg at 983 C

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3391 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 92+/-18 ug/g b) 104+/-24 ug/g Wet wt	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Considered low level. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Carbamic acid, (5-(phenylthio)-1H-benzimidazol-2-yl)-, methyl ester

43210-67-9
C15-H13-N3-O2-S
MW 299.35, MP 233 (decomp)

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3392 Blood, plasma	26 Ingestion	a) 0.2-0.5 ug/ml b) 0.18-0.3 ug/ml c) 0.18-0 ug/ml d) 0.10-0 ug/ml	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 24-144 hrs, peak (0.6 ug/ml) 120 hrs, free access of feed blocks with 450 g/ton b) Oxfendazole metabolite, 24-144 hrs, peak (0.3 ug/ml) 120 hrs, free access of feed blocks with 450 g/ton c) 0-144 hrs, peak (0.18 ug/ml) 24 hrs after 5 mg/kg oral suspension d) Oxfendazole metabolite, 0-144 hrs, peak (0.10 ug/ml) 24 hrs after 5 mg/kg oral suspension Estimated from graph. Scotland HPLC
BLOOD PLASMA; DELIBERATE EXPOSURE; ADULTS; SHEEP; SCOTLAND; ANTIHELMINTICS; DRUGS; DRUG THERAPY; ANIMAL FEEDS; BIOACCUMULATION; FOOD ADDITIVES; AGRICULTURE; METABOLITES; TERRESTRIAL Bogan, J.A.; Marriner, S.E. 1983 British Veterinary Journal 139:223-227				

Carbon, isotope of mass 14
14762-75-5
C
Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3393 Blood, plasma	13 Injection	50-50 cpm/ml	Not applicable	0.5-48 hr, peak (400 cpm/ml) 10 hr after 5 mg as Na [Fe-55] [C-14] EDTA complex. Venezuela Scintillation counting
3394 Intestine	a) 1 b) 1 c) 1 d) 1 e) 1 f) 1 g) 1 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3000 cpm/100 mg b) 4000 cpm/100 mg c) 5000 cpm/100 mg d) 5500 cpm/100 mg e) 5000 cpm/100 mg f) 5000 cpm/100 mg g) 1500 cpm/100 mg	a) 1 hr, 0.5 m b) 1 hr, 3.0 m c) 1 hr, 6.0 m d) 1 hr, 8.0 m e) 2 hr, 5.0 m f) 2 hr, 6.0 m g) 5 hr, 0.5 m Areas of maximal activity of mucosal layer at locations along jejunum after 36 mg Na[Fe-55] [C-14] EDTA complex. Estimated from graph. Venezuela Scintillation counting
3395 Stomach	a) 1 b) 1 c) 1 d) 1 e) 1 f) 1 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 7500 cpm/100 mg b) 2000 cpm/100 mg c) 2000 cpm/100 mg d) 500 cpm/100 mg e) Not detected f) 500 cpm/100 mg	a) 1 hr, funus b) 1 hr pylorus c) 2 hr fundus d) 2 hr pylorus e) 5 hr, fundus f) 5 hr, pylorus Activity of mucosal layer at two locations after 36 mg of Na [Fe-55] [C-14] EDTA complex. Estimated from graph. Venezuela Scintillation counting
3396 Urine	13 Injection	Not given	5.4+/-0.5%	% dose recovered 48 hr after 5 mg as Na [Fe-55] [C-14] EDTA complex. Venezuela Scintillation counting

STOMACH; INTESTINES; BLOOD PLASMA; URINE; SWINE; TERRESTRIAL; DELIBERATE EXPOSURE; VENEZUELA; IRON; BIOACCUMULATION; RADIONUCLIDES; DRUGS
Candela, E.; Camacho, M.V.; Marinez-Torres, C.; Perdomo, J.; Mazzarri, G.; Acurero, G.; Layrisse, M. 1984 Journal of Nutrition 114:2204-2211

Cerium
7440-45-1
Ce
AtW 140.12, MP 795 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3397 Hair	Ingestion	Not given	0.074 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Cesium
7440-46-2
Cs
AtW 132.9054, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3398 Hair	Ingestion	Not given	0.010 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Deer, mule
ODOCOILEUS HEMIONUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3399 Liver	a) 9 b) 3 c) 5	a) 0.01-0.05 pCi/g b) 1.81-13.00 pCi/g c) 0.01-0.03 pCi/g	a) Not given b) Not given c) Not given	a) Known residence history near Hanford site waste ponds b) From same area as a), with possible fallout from weapons test by Chinese in 1980 c) Known residence history isolated from Hanford waste ponds d) Residence history of habitation uniformly throughout Hanford site Significant positive correlation between percent of time in radiation zones associated with waste-management ponds and radionuclide content. a) significantly higher than c). Washington, Hanford Ge detector

(next page)

Cesium
7440-46-2
Cs
AtW 132.9054, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Deer, mule
ODOCOILEUS HEMIONUS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3400 Rumen	a) 9 b) 3 c) 5	a) 0.04-0.18 pCi/g b) 1.09-14.32 pCi/g c) 0.06-0.16 pCi/g	a) Not given b) Not given c) Not given	a) Known residence history near Hanford site waste ponds b) From same area as a), with possible fallout from weapons test by Chinese in 1980 c) Known residence history isolated from Hanford waste ponds. Washington, Hanford Ge detector
BONES; MUSCLES; LIVER; STOMACH; DEER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; WASHINGTON; CESIUM; STRONTIUM; FALLOUT; BIOLOGICAL MONITORING; LAND POLLUTION; AIR POLLUTION; WATER POLLUTION; RADIONUCLIDES				
Eberhardt, L.E.; Cadwell, L.L.; Hanson, E.E. 1984 Health Physics 47(5):753-759				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3401 Milk		a) 0.46-6.6 Bq/l b) 0.36-1.4 Bq/l c) 0.48-1.6 Bq/l d) 2.27-3.2 Bq/l	a) Not given b) Not given c) Not given d) Not given	a) <=1.5 km from center of Sellafield Works, nuclear fuel reprocessing plant b) Approx 300 m from River Irt (tidal flooding in exceptional conditions) c) Approx 400 m from River Esk (not subject to tidal flooding) d) <200 m from River Esk (regular tidal flooding) Collected 1979-82, late summer. b)-d) 2-3.5 km from Ravenglass Estuary. United Kingdom, West Cumbria Gamma counting
MILK; TERRESTRIAL; CATTLE; LACTATION; RADIONUCLIDES; WATER POLLUTION; STRONTIUM; CESIUM; PLUTONIUM; RABBITS				
Curtis, E.J.C.; Bradford, W.R.; Popplewell, D.S. 1984 Science of the Total Environment 35:267-283				

Tissue	Cases Exposure Route	Range	Mean	General Information
3402 Milk		1.5-4.5 Bq/l	Not given	4 l from bulk tank after morning milking at midpoint of each month, 1981. Cattle at dairy 2 km from Sellafield Nuclear Fuel Reprocessing Plant. United Kingdom, Cumbria, Sellafield Beta counting
MILK; CATTLE; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; UNITED KINGDOM; RADIONUCLIDES; CESIUM; STRONTIUM; LACTATION				
Sumerling, T.J.; Dodd, N.J.; Green, N. 1984 Science of the Total Environment 34:57-72				

Cesium, isotope of mass 137

10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Chamois
RUPICAPRA RUPICAPRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3403 Liver	16 Ingestion	</=28-236 pCi/kg Wet wt	151 pCi /kg Median Wet wt	Collected from area 80 km south of Munich, Germany, specimens approximately 10 yr old. Germany Ge/Li detection
LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION Bunsl, K.; Kracke, W. 1984 Health Physics 46(2):466-470				

Chicken
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3404 Liver	9 Ingestion	Not applicable	</=12+/-2 pCi/kg Median Wet wt	Approximately 0.5 yr old, collected from farms near Munich. Germany GE/Li detection
LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION Bunsl, K.; Kracke, W. 1984 Health Physics 46(2):466-470				

Deer, mule
ODOCOILEUS HEMIONUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3405 Muscle	a) 9 b) 3 c) 5 d) 85	a) 0.06-0.24 pCi/g b) 1.75-3.43 pCi/g c) 0.03-0.04 pCi/g d) Not given	a) 0.13 pCi/g b) Not given c) 0.04 pCi/g d) 1.95 pCi/g	a) Known residence history near Hanford site waste ponds b) From same area as a), with possible fallout from weapons test by Chinese in 1980 c) Known residence history isolated from Hanford waste ponds d) Residence history of habitation uniformly throughout Hanford site Significant positive correlation between percent of time in radiation zones associated with waste-management ponds and radionuclide content. a), b) significantly different. Washington, Hanford Ge detector
BONES; MUSCLES; LIVER; STOMACH; DEER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; WASHINGTON; CESIUM; STRONTIUM; FALLOUT; BIOLOGICAL MONITORING; LAND POLLUTION; AIR POLLUTION; WATER POLLUTION; RADIONUCLIDES Eberhardt, L.E.; Cadwell, L.L.; Hanson, E.E. 1984 Health Physics 47(5):753-759				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Deer, roe

Tissue	Cases Exposure Route	Range	Mean	General Information
3406 Liver	18 Ingestion	</=24-97 pCi/kg Wet wt	</=37 pCi/kg Median Wet wt	Approximately 2 yr old, collected in Lower Bavaria. Germany Ge/Li detection
LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3407 Liver	22 Ingestion	1500-250 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 10 approx 4200 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3408 Lung	22 Ingestion	950-300 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 15 approx 3000 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3409 Muscle	22 Ingestion	2500-600 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 16 approx 11,000 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
BIRDS; WATERFOWL; AQUATIC; DELIBERATE EXPOSURE; MUSCLES; LIVER; LUNGS; BONES; BRAIN; KIDNEYS; COBALT; CESIUM; RADIONUCLIDES Konings, J.; Kirchmann, R.; Gerber, G.B.; Van Bruwaene, R.; Colard, J. 1984 Health Physics 46(3):681-684				

Cesium, isotope of mass 137
10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3410 Kidney	a) 20 b) 19 Ingestion	a) 110-280 Bq/kg b) 75-163 Bq/kg Wet wt	a) 170 Bq/kg b) 118 Bq/kg Wet wt Median	a) Males and females <1 yr old b) Females 0.5-7.5 yr old Levels inversely correlated with age. West Germany, Lueneburg heath Spectrometry
3411 Liver	a) 20 b) 19 Ingestion	a) 64-140 Bq/kg b) 38-87 Bq/kg Wet wt	a) 82.5 Bq/kg b) 61.1 Bq/kg Wet wt Medians	a) Males and females <1 yr old b) Females 0.5-7.5 yr old Levels inversely correlated with age. West Germany, Lueneburg heath Spectrometry
LAND POLLUTION; ENVIRONMENTAL EXPOSURE; AIR POLLUTION; SHEEP; GERMANY; TERRESTRIAL; BIOLOGICAL MONITORING; LIVER; KIDNEYS; MUSCLES; BIOACCUMULATION; BIOCONCENTRATION; JUVENILES; ADULTS; SEX; RADIONUCLIDES; LEAD; CESIUM; POLONIUM; POTASSIUM; FOOD CONTAMINATION; FALLOUT Bunzl, K.; Kracke, W. 1984 Science of the Total Environment 39:143-159				

Tissue	Cases Exposure Route	Range	Mean	General Information
3412 Liver	a) 22 b) 20 c) 10 Ingestion	a) 1740-6540 pCi/kg b) 151-1910 pCi/kg c) <14-430 pCi/kg Wet wt	a) 3690 pCi/kg b) 1300 pCi/kg c) 48 pCi/kg Medians Wet wt	a) North German moorland, 0.5-1.5 yr old b) North German moorland, 2-6 yr old c) Domestic, 1 yr old. Germany GE/Li detection
LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470				

Tissue	Cases Exposure Route	Range	Mean	General Information
3413 Muscle	a) 14 b) 26 Ingestion	a) 100-236 Bq/kg b) 68-151 Bq/kg Wet wt	a) 182 Bq/kg b) 118 Bq/kg Wet wt Medians	a) Males <1 yr old b) Females 0.5-7.5 yr old Significant difference by sex, males higher levels. Naturally occurring and fallout radionuclides. West Germany, Lueneburg heath
LAND POLLUTION; ENVIRONMENTAL EXPOSURE; AIR POLLUTION; SHEEP; GERMANY; TERRESTRIAL; BIOLOGICAL MONITORING; LIVER; KIDNEYS; MUSCLES; BIOACCUMULATION; BIOCONCENTRATION; JUVENILES; ADULTS; SEX; RADIONUCLIDES; LEAD; CESIUM; POLONIUM; POTASSIUM; FOOD CONTAMINATION; FALLOUT Bunzl, K.; Kracke, W. 1984 Science of the Total Environment 39:143-159				

Cesium, isotope of mass 137

10045-97-3
Cs
AtW 137, MP 28.5 C, BP 705 C, VP 1 mm Hg at 279 C, 10 mm Hg at 373 C

Turkey
MELEAGRIS GALLOPAVO

Tissue	Cases Exposure Route	Range	Mean	General Information
3414 Liver	7 Ingestion	Not applicable	<=10+/-2 pCi/kg Median Wet wt	Approximately 0.5 yr old, collected from farms near Munich. Germany GE/Li

LIVER; SWINE; SHEEP; CHICKENS; TURKEYS; DEER; CHAMOIS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; GERMANY; CESIUM; PLUTONIUM; RADIONUCLIDES; BIOACCUMULATION; FALLOUT; FOOD CONTAMINATION

Bunzl, K.; Kracke, W. 1984 Health Physics 46(2):466-470

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3415 Milk	Ingestion	a) 0.04-0.06 ppm b) 0.05-0.01 ppm c) 0.03-<=0.001 ppm d) 0.01-0.01 ppm e) 0.03-0.03 ppm	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 1972-73 b) 1974-75 c) 1976-77 d) 1978-79 e) 1980-81 Range of yearly means. Composite samples from several farms. Levels constant over 10 yr. In statewide monitoring for chlorinated hydrocarbon insecticides, percentage contaminated samples decreased over study period. Illinois GC/MS

INSECTICIDES; PESTICIDE RESIDUES; MILK; CATTLE; ILLINOIS; BIOLOGICAL MONITORING; BIOCONCENTRATION; ALDRIN; DIELDRIN; DDT; METABOLITES; HEPTACHLOR EPOXIDE; TERRESTRIAL; CHLORINATED HYDROCARBONS; ENVIRONMENTAL EXPOSURE; HEXACHLOROCYCLOHEXANE

Steffey, K.L.; Mack, J.; MacMonegle, C.W.; Pettyl, H.B. 1984 Journal of Environmental Science and Health B19(1):49-65

Clam

Tissue	Cases Exposure Route	Range	Mean	General Information
3416 Body		a) Not given b) Not given	a) <0.03 ng/g b) 1.8 ng/g	a) Site 1 b) Site 2 Collected 11/80. Pooled whole clams, mean sample wt 30 g Maine, Portland GC-EC

MAINE; BODY; DDT; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; PENTACHLOROPHENOL; PHTHALATES; BIOACCUMULATION; MOLLUSKS; WATER POLLUTION; CHLORINE ORGANIC COMPOUNDS

Ray, L.E.; Murray, H.E.; Giam, C.S. 1983 Chemosphere 12(7/8):1031-1038

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3417 Body, whole	9	16-68 ug/kg Dry wt	21 ug/kg Dry wt Median	Trend in concentration increase from inorganic to organic to living material. August 1979-May 1980, sampling dates. Non-point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River GC-EC
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469				

Clam, hard-shell
MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3418 Body	a) 213 b) 138 c) 96 d) 262 e) 379 Ingestion	a) Not detected-0.030 ug/g b) 0.005-0.040 ug/g c) 0.010-0.070 ug/g d) Not detected-0.080 ug/g e) 0.002-0.050 ug/g Wet wt	a) 0.016 ug/g b) 0.020 ug/g c) 0.032 ug/g d) 0.018 ug/g e) 0.020 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC
CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688				

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Clam, soft-shell
MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3419 Body	a) 26 b) 7 c) 18 d) 115 e) 34 Ingestion	a) Not detected-0.030 ug/g b) 0.005-0.040 ug/g c) 0.010-0.070 ug/g d) Not detected-0.080 ug/g e) 0.002-0.050 ug/g Wet wt	a) 0.016 ug/g b) 0.020 ug/g c) 0.032 ug/g d) 0.018 ug/g e) 0.020 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for organochlorine residues in shellfish 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small, no yearly periodic variation. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3420 Body	a) 3 b) 9 c) 22 Ingestion	a) Not detected-0.002 ug/g b) Not detected-0.080 ug/g c) Not detected-0.020 ug/g Wet wt	a) Not detected b) 0.012 ug/g c) 0.003 ug/g Wet wt	a) 1976 b) 1979 c) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. Sample size small (none 1978), mostly in 1979-1980, not possible to see yearly trend. Data not available 1977. Maryland, Chesapeake Bay area, tributaries GC-EC

CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Goldeye
HIODON ALOSOIDES

Tissue	Cases Exposure Route	Range	Mean	General Information
3421 Adipose	a) 135 b) 16 c) 29 Ingestion	a) Not detected-0.077 mg/kg b) Not detected-0.028 mg/kg c) 0.017-0.152 mg/kg Wet wt	a) 0.017 mg/kg b) 0.004 mg/kg c) 0.066 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Red Deer River below city of Red Deer c) South Saskatchewan River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Loon, common
GAVIA IMMER

Tissue	Cases Exposure Route	Range	Mean	General Information
3422 Adipose	11	Not given	5.94+/-4.56 ug/g Wet wt	Unknown condition, collected in 1969, 62.0+/-13.1% fat Residues consisted of cis- and trans-chlordane and nonachlor. Tissues with high fat content contained higher levels. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3423 Brain	a) 11 b) 38 c) 1	a) Not given b) Not given c) Not given	a) 0.06+/-0.07 ug/g b) <0.01 ug/g c) 0.04 ug/g Wet wt	a) Unknown condition, collected in 1969, 7.76+/-1.12% fat b) Healthy, collected in 1978-79, 6.16+/-0.59% fat c) Emaciated, collected in 1978-79, 7.13% fat Residues consisted of cis- and trans-chlordane and nonachlor. Tissues with high fat content contained higher levels. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3424 Embryos	a) 12 b) 19	a) Not given b) Not given	a) 0.05+/-0.02 ug/g b) 0.21+/-0.13 ug/g	a) Collected in 1978 from Algonquin-Parry Sound b) In 1979-80. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
3425 Muscle	21	Not given	0.02+/-0.03 ug/g Wet wt	Healthy condition, collected in 1978-79, 2.59+/-1.16% fat. Canada, Ontario, Kinoje Lake; Algonquin Park; Parry Sound GC
EGGS; BRAIN; ADIPOSE TISSUE; LIVER; MUSCLES; FEATHERS; INTESTINES; EMBRYOS; DDT; DDE; DIELDRIN; HEPTACHLOR EPOXIDE; POLYCHLORINATED BIPHENYLS; HEXACHLOROBENZENE; MERCURY; CHLORINE ORGANIC COMPOUNDS; PESTICIDES; PESTICIDE RESIDUES; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; LUNGS; GIZZARD; BLOOD; HEART; KIDNEYS Frank, R.; Lumsden, H.; Barr, J.F.; Braun, H.E. 1983 Archives of Environmental Contamination and Toxicology 12:641-654				

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Oyster, American
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3426 Body	a) 213 b) 138 c) 96 d) 262 e) 379 Ingestion	a) Not detected-0.370 ug/g b) Not detected-0.050 ug/g c) Not detected-0.040 ug/g d) Not detected-0.100 ug/g e) Not detected-0.070 ug/g Wet wt	a) 0.100 ug/g b) 0.020 ug/g c) 0.013 ug/g d) 0.010 ug/g e) 0.010 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for organochlorine residues in shellfish, 1976-1980. Virtually all values below FDA guidelines or safe levels. DDT metabolites (DDE,DDD) and chlordane decrease after 1976. Maryland, Chesapeake Bay area, tributaries GC-EC
CLAMS; CRABS; SHELLFISH; OYSTERS; MARYLAND; CHESAPEAKE BAY; BIOLOGICAL MONITORING; BIOCONCENTRATION; WATER POLLUTION; FOOD CONTAMINATION; CHLORINE ORGANIC COMPOUNDS; DDD; DDE; POLYCHLORINATED BIPHENYLS; CHLORDANE; DIELDRIN; BHC; AQUATIC; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):673-688				

Pike
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3427 Liver	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.031+/-0.081 mg/kg b) 0.017+/-0.023 mg/kg c) 0.015+/-0.018 mg/kg Wet wt	a) South Finland lakes b) North Finland lakes c) Baltic Sea Collected at 75 sampling stations 1-4/82. Length 41-72 cm, wt 480-6000 g, 0.51-1.38% fat. Finland GC/MS; GC-EC
3428 Muscle	a) 40 b) 20 c) 21	a) Not given b) Not given c) Not given	a) 0.009+/-0.012 mg/kg b) 0.016+/-0.017 mg/kg c) 0.013+/-0.012 mg/kg Wet wt	a) South Finland lakes b) North Finland lakes c) Baltic Sea Collected at 75 sampling stations 1-4/82. Length 41-72 cm, wt 480-6000 g, 0.51-1.38% fat. Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Pike, northern
ESOX LUCIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3429 Adipose	a) 50 b) 28 c) 20 d) 7 Ingestion	a) Not detected-2.00 mg/kg b) Not detected-0.029 mg/kg c) Not detected-0.034 mg/kg d) 0.048-0.226 mg/kg Wet wt	a) 0.228 mg/kg b) 0.005 mg/kg c) 0.003 mg/kg d) 0.100 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Battle River c) Lake Wabamun, isolated area d) McGregor Lake Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Puffin
FRATERCULA ARCTICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3430 Brain	10 Ingestion	445-1289 ppb	833 ppb	Collected at Hernyken, Rost, 7/82. Norway GC
3431 Liver	21 Ingestion	262-1531 ppb	931 ppb	Collected at Hornoy in 7/82. Norway GC
3432 Uropygial gland	21 Ingestion	48-2815 ppb	1429 ppb	Collected at Hornoy 7/82. Norway GC
LIVER; BRAIN; UROPYGIAL GLAND; EGGS; WATERFOWL; AQUATIC; ENVIRONMENTAL EXPOSURE; NORWAY; ADULTS; JUVENILES; ALDRIN; DDE; HEXACHLOROBENZENE; POLYCHLORINATED BIPHENYLS; HEXACHLOROCYCLOHEXANE; DIELDRIN; PESTICIDES; BIOACCUMULATION; FOOD CONTAMINATION; WATER POLLUTION; INDUSTRIAL POLLUTION; PESTICIDE RESIDUES Ingebrigtsen, K.; Skaare, J.U.; Teigen, S.W. 1984 Journal of Toxicology and Environmental Health 14:813-828				

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Roach
RUTILUS RUTILUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3433 Muscle	11	Not given	0.017+/-0.015 mg/kg Wet wt	Collected at 12 lake sampling stations, 2/82. Length 16-18 cm, wt 48.5-54.0 g, 1.31% fat. Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Sauger
STIZOSTEDION CANADENSE

Tissue	Cases Exposure Route	Range	Mean	General Information
3434 Adipose	a) 23 b) 32 c) 27 Ingestion	a) 0.071-0.368 mg/kg b) 0.220-0.635 mg/kg c) 0.511 mg/kg Wet wt	a) 0.139 mg/kg b) 0.401 mg/kg c) 0.511 mg/kg Wet wt	a) Red Deer River, below city of Red Deer b) South Saskatchewan River c) Oldman River Intestinal fat. Lindane (gamma-BHC), detected in c), widely used pesticide. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3435 Adipose	227 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.14+/-0.11 mg/kg b) 0.13+/-0.12 mg/kg c) 0.16+/-0.12 mg/kg d) 0.15+/-0.16 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

(next page)

Chlordane
12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3436 Brain	66 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) Not detected b) Not detected c) 0.00+0.02 mg/kg d) 0.00+/-0.02 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3437 Kidney	92 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) Not detected b) Not detected c) 0.04+/-0.13 mg/kg d) 0.03+/-0.10 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3438 Liver	109 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.00+/-0.01 mg/kg b) Not detected c) 0.09+/-0.34 mg/kg d) 0.00+/-0.01 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC
3439 Muscle	111 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.00+/-0.01 mg/kg b) Not detected c) 0.08+/-0.21 mg/kg d) 0.04+/-0.21 mg/kg	a) Males b) Females c) Males, extractable fat d) Females, extractable fat 1976-78 annual hunt. Statistical analyses included age, site, residue, tissue correlations. Canada; Greenland; Northwest Atlantic; Arctic GC-EC

SEALS; CHLORINE ORGANIC COMPOUNDS; ADIPOSE TISSUE; BLOOD; BRAIN; LIVER; KIDNEYS; MUSCLES; DDT; DIELDRIN; HEXACHLOROBENZENE; HEPTACHLOR EPOXIDE; ATLANTIC; ARCTIC; CANADA; BIOACCUMULATION; PESTICIDE RESIDUES; BIOLOGICAL MONITORING; AGE; GREENLAND; POLYCHLORINATED BIPHENYLS; SEX; METABOLITES; DDE; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:133-152

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Seal, Weddell
LEPTONYCHOTES WEDDELLI

Tissue	Cases Exposure Route	Range	Mean	General Information
3440 Adipose	a) 1 b) 1 c) 1	a) 34-36 ng/g b) 56-62 ng/g c) 12-16 ng/g Fresh wt	a) Not applicable b) Not applicable c) Not applicable	a) Female, age 3 yr + 11 mo, fat 77-89% b) Male, age 13 or 14 yr, fat 90-92% c) Male, newborn, fat 24-34%, collected 10/27/81 a) -b) collected 10/9/81. Chlordane = cis-chlordane + cis-nonachlor + trans-nonachlor + oxychlordane. Antarctica, Syowa Station GC/MS
ADIPOSE TISSUE; SEALS; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; ANTARCTICA; CHLORINE ORGANIC COMPOUNDS; NONACHLOR; OXYCHLORDANE; DDT; POLYCHLORINATED BIPHENYLS; PESTICIDES; AIR POLLUTION; ATMOSPHERE; PESTICIDE RESIDUES; ARCTIC Kawano, M.; Inoue, T.; Hidaka, H.; Tatsukawa, R. 1984 Chemosphere 13(1):95-100				

Sucker, longnose
CATOSTOMUS CATOSTOMUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3441 Adipose	a) 54 b) 24 Ingestion	a) Not detected-0.242 mg/kg b) Not detected-0.038 mg/kg Wet wt	a) 0.075 mg/kg b) 0.010 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Oldman River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Sucker, white
CATOSTOMUS COMMERSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
3442 Adipose	a) 40 b) 16 Ingestion	a) Not detected-0.089 mg/kg b) Not detected-0.008 mg/kg Wet wt	a) 0.020 mg/kg b) 0.001 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River. Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3443 Adipose	22 Ingestion	0.163-0.270 mg/kg Wet wt	0.200 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Vendace
COREGONUS ALBULA

Tissue	Cases Exposure Route	Range	Mean	General Information
3444 Muscle	25	Not given	0.007+/-0.007 mg/kg Wet wt	Collected at 26 lake sampling stations, 2-9/82. Length 8-20.5 cm, wt 2.6-61 g, 0.78-1.61% fat. Finland GC/MS; GC-EC
LIVER; MUSCLES; COMPARATIVE EVALUATIONS; DDT; FINLAND; POLYCHLORINATED BIPHENYLS; FISHES; PESTICIDE RESIDUES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE; PESTICIDES Pyysalo, H.; Wickstrom, K.; Litmanen, R. 1983 Chemosphere 12(6):837-842				

Walleye
STIZOSTEDION VITREUM VITREUM

Tissue	Cases Exposure Route	Range	Mean	General Information
3445 Adipose	a) 65 b) 21 c) 17 d) 23 Ingestion	a) Not detected-1.16 mg/kg b) Not detected-0.262 mg/kg c) 0.285-0.975 mg/kg d) 0.205-0.489 mg/kg Wet wt	a) 0.289 mg/kg b) 0.033 mg/kg c) 0.484 mg/kg d) 0.308 mg/kg Wet wt	a) North Saskatchewan River below Edmonton b) Beaver River c) Bow River below Calgary d) St Mary's River Intestinal fat. Canada, Alberta GC-EC
FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32				

Chlordane

12789-03-6
C10-H6-Cl8
MW 409.8, BP 175 C at 2 mm Hg, VP 1X10(E-5) mm Hg at 25 C

Whitefish, lake
COREGONUS CLUPEAFORMIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3446 Adipose	a) 21 b) 19 c) 14 Ingestion	a) Not detected-0.130 mg/kg b) Not detected-0.050 mg/kg c) Not detected-0.060 mg/kg d) 0.046-0.116 mg/kg Wet wt	a) 0.024 mg/kg b) 0.020 mg/kg c) 0.021 mg/kg d) 0.085 mg/kg Wet wt	a) Red Deer River below city of Red Deer b) Lake Newell c) McGregor Lake d) Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Whitefish, mountain
PROSOPIUM WILLIAMSONI

Tissue	Cases Exposure Route	Range	Mean	General Information
3447 Adipose	60 Ingestion	0.103-2.12 mg/kg Wet wt	0.603 mg/kg Wet wt	Bow River below Calgary Intestinal fat. Canada, Alberta GC-EC

FISHES; CANADA; PESTICIDE RESIDUES; CHLORINE ORGANIC COMPOUNDS; POLYCHLORINATED BIPHENYLS; BIOLOGICAL MONITORING; AQUATIC; BIOCONCENTRATION; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; POLYCHLORINATED BIPHENYLS; DDE; DDD; DIELDRIN; HEXACHLOROBENZENE; HEXACHLOROCYCLOHEXANE
Chovelon, A.; George, L.; Gulayets, C.; Hoyano, Y.; McGuinness, E.; Moore, J.; Ramamoorthy, S.; Ramamoorthy, S.; Singer, P.; Smiley, K.; Wheatly A. 1984 Chemosphere 13(1)19-32

Cholecalciferol (8 CI); 9,10-Secocholesta-5,7,10(19)-trien-3-ol, (3beta,5Z,7E)- (9 CI)

67-97-0
C27-H44-O
MW 384.62, MP 84-85 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3448 Blood, serum	2 Ingestion	a) 8.4-8.6 ng/ml b) 2015.0-2743.0 ng/ml c) 476.0-301.0 ng/ml	a) 8.5 ng/ml b) 2379.0 ng/ml c) 388.5 ng/ml	a) Controls, 1 barrow, 1 gilt, 2 d prior b) 1 d after c) 4 d after Days prior to/after ingestion of suspect feed. Vitamin D content of feed was 473,000 IU/kg, vitamin A content 2,500 IU/kg. Barrow died on d 4. Study conducted after acute toxicosis developed in feedlot pigs and 8 of 35 died within 2 wk. Lethargy, emesis Hemorrhagic gastritis, diffuse interstitial pneumonia, necrosis and mineralization in fundic gastric mucosa, lungs, kidney, bone, heart, and small blood vessels (lungs, heart) HPLC
BLOOD SERUM; DELIBERATE EXPOSURE; ADULTS; NUTRITIONAL DISORDERS; AUTOPSIES; VITAMIN D; VITAMINS; ACCIDENTAL POISONING; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; DIETS; FOOD ADDITIVES; FOOD CONTAMINATION; FOODS; HEALTH HAZARDS; METABOLITES; POPULATION EXPOSURE; TERRESTRIAL; SWINE Long, G.G. 1984 Journal of the American Veterinary Medical Association 184(2):164-170				

Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

57-88-5
C27-H46-O
MW 386.64, MP 148.5 C (anhydrous), BP 233 C at 0.5 mm Hg, 360 C at 760 mm Hg (some decomp)

Chicken, white leghorn
GALLUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3449 Blood, serum	10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 52336+/-19159 dpm/100 ml b) 31811+/-7359 dpm/100 ml c) 254.1+/-36.8 mg% d) 255.2+/-66.1 mg/%	a) Control, label, 5 cases b) 0.48 g saponin, label, 5 cases c) Control, total 5 cases d) 0.48 g saponin, total, 5 cases Saponin lowered absorption into bloodstream, but had no effect on total circulating levels. Canada

(next page)

Cholesterol (8 CI); Cholest-5-en-3-ol (3beta)- (9 CI)

57-88-5
C27-H46-O
MW 386.64, MP 148.5 C (anhydrous), BP 233 C at 0.5 mm Hg, 360 C at 760 mm Hg (some decomp)

Chicken, white leghorn
GALLUS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3450 Eggs	70 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 14.0 mg/g b) 13.8 mg/g c) 13.7 mg/g d) 18.3 mg/g e) 19.2 mg/g f) 18.0 mg/g g) 31.5+/-4.2% h) 16.6+/-1.4%	a) Cholesterol-free (CHF), controls, 10 cases b) CHF, 0.04%, 10 cases c) CHF, 0.40%, 10 cases d) Cholesterol added (CHA), controls, 10 cases e) CHA, 0.04%, 10 cases f) CHA, 0.40%, 10 cases g) CHA, controls, 5 cases h) CHA+0.48 g, 5 cases Measured in yolk. Dose was 0.5% with or without indicated level of saponin (a-f). (g-h) are % of labeled dose with and without saponin, excreted through yolk. Feces excretion went from 8.6+/-0.7% to 65.8+/-0.7% when saponin was added to dose. Canada
EGG YOLK; BLOOD SERUM; DELIBERATE EXPOSURE; CANADA; CHICKENS; CHOLESTEROLS; BIOACCUMULATION; RADIONUCLIDES Sim, J.S.; Kitts, W.D.; Bragg, D.B. 1984 Canadian Journal of Animal Science 64:977-984				

Chromium

7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3451 Hair	Ingestion	Not given	0.20 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3452 Intestine	4 Injection Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1.8x10(E-4)% b) 2.2x10(E-4)% c) 320x10(E-4)% d) 260x10(E-4)% % of dose	a) Small intestine, 102 d after 3.07-3.259 mCi, orally, 3 cases b) Colon, cecum, same 3 c) Small intestine 70 d after 0.234 mCi IV, 1 case d) Colon, cecum, same 1 402-533 Kg Pie Noir cows. As Cr-51. Data on other organs available.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Tissue	Cases Exposure Route	Range	Mean	General Information
3453 Kidney	172	<0.01-0.03 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 162 samples below detection limit. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
3454 Liver	a) 3 b) 1 Injection Ingestion	a) Not given b) Not given	a) 3.37+/-1.23x10(E-4)% b) 880x10(E-4)% % of dose	a) 102 d after, 3.070-3.259 mCi, oral b) 70 d after 0.234 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. 33.3% (oral) and 23.6% (IV) of body burden. Data on other organs available.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Tissue	Cases Exposure Route	Range	Mean	General Information
3455 Liver	175	<0.01-0.91 mg/kg Wet wt	0.01+or-0.07 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 166 samples below detection limit. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3456 Milk	a) 3 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.0035% b) 3.6%	a) 102 d after, 3.070-3.259 mCi, oral b) 70 d after 0.234 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. Data on other organs available.

INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES
Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082

Tissue	Cases Exposure Route	Range	Mean	General Information
3457 Muscle	176	<0.01-0.10 mg/kg Wet wt	Not given	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. 166 samples below detection limit. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS
Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3458 Spleen	a) 3 b) 1 Injection Ingestion	a) Not given b) Not given	a) 3.5x10(E-4)% b) 8100x10(E-4)% % of dose/kg	a) 102 d after, 3.070-3.259 mCi, oral b) 70 d after 0.234 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. 3.6% (oral) and 12.6% (IV) of body burden. Data on other organs available.
3459 Urine	a) 3 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.14% b) 63% % of dose	a) 102 d after, 3.070-3.259 mCi, oral b) 70 d after 0.234 mCi IV 402-533 Kg lactating Pie Noir cows. As Cr-51. Data on other organs available.

INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES
Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082

Chromium

7440-47-3

Cr

AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Clam

DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3460 Body	251	0.26-1.26 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Clam, Asiatic

CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3461 Body, whole	9	<0.1-2.0 ug/g Dry wt	0.55 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. No correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469				

Clam, hard-shell

MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3462 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) Not detected b) 0.50-2.40 ug/g c) Not detected-0.59 ug/g d) Not detected-0.42 ug/g e) Not detected-3.34 ug/g Wet wt	a) Not detected b) 0.82 ug/g c) 0.31 ug/g d) 0.11 ug/g e) 0.07 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Chromium

7440-47-3

Cr

AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Clam, soft-shell

MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3463 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) Not detected b) 0.50-2.40 ug/g c) Not detected-0.50 ug/g d) Not detected-0.42 ug/g e) Not detected-3.34 ug/g Wet wt	a) Not detected b) 0.82 ug/g c) 0.31 ug/g d) 0.11 ug/g e) 0.07 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Cod, Pacific

GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3464 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.106+/-0.025 ug/g b) 0.089+/-0.005 ug/g c) 0.114+/-0.006 ug/g d) 0.010+/-0.002 mg/100 g e) 0.111+/-0.028 ug/g f) 0.105+/-0.021 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Site variations in levels. Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Chromium

7440-47-3

Cr

AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Crab, blue

CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3465 Body	a) 8 b) 20 Ingestion	a) Not detected-0.56 ug/g b) Not detected-0.31 ug/g Wet wt	a) 0.14 ug/g b) 0.05 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Honeybee

APIS MELLIFERA L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3466 Body		a) Not given b) <0.06-0.34 ppm c) Not given d) <0.005-0.0785 ppm e) Not given f) 0.58-0.8 ppm g) Not given h) <0.005-0.165 ppm	a) Not given b) 0.53 ppm c) 0.19 ppm d) 0.04 ppm e) 0.33 ppm f) 0.7 ppm g) 0.66 ppm h) 0.058 ppm	a) Controls, 1st summer b) Controls, 2nd summer c) Water repellant, 1st summer d) Water repellant, 2nd summer e) Chromated copper arsenate (CCA), 1st summer f) CCA, 2nd summer g) Acid copper chromate (ACC), 1st summer h) ACC, 2nd summer Controls, untreated wood. Wood of beehives treated in 1980 to retentions of 4 kg/cu m (CCA, ACC) or 3-min dip (Forest Products Laboratory water repellant). 5 colonies /treatment. Wisconsin, Madison AAS

INSECTS; ARSENIC; COPPER; TIN; ANIMAL POPULATIONS; WOOD PRESERVATIVES; PENTACHLOROPHENOL; CHROMIUM; DELIBERATE EXPOSURE; BODY; TERRESTRIAL; PESTICIDES

Kalnins, M.A.; Detroy, B.F. 1984 Journal of Agricultural and Food Chemistry 32(5):1176-1180

Mackerel, Atka

PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3467 Muscle	20 Ingestion	Not given	0.122+/-0.030 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g Pacific Ocean ES

FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES

Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Mollusk
PERNA PERNA

Tissue	Cases Exposure Route	Range	Mean	General Information
3468 Body	10	a) Not given b) Not given	a) 0.28 +or- 0.06 ug/g b) 0.81 +or- 0.29 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Mussel
CHOROMYTILUS MERIDIONALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3469 Body	10	a) Not given b) Not given	a) 0.24 +or- 0.09 ug/g b) 0.52 +or- 0.18 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster
CRASSOSTREA MARGARITACEA

Tissue	Cases Exposure Route	Range	Mean	General Information
3470 Body	10	a) Not given b) Not given	a) 0.21 +or- 0.09 ug/g b) 0.61 +or- 0.13 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Chromium

7440-47-3

Cr

AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Oyster, American

CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3471 Body	a) 104 b) 129 c) 95 d) 281 e) 376 Ingestion	a) Not detected b) 0.50-2.70 ug/g c) Trace-1.40 ug/g d) 0.05-0.35 ug/g e) Not detected-0.40 ug/g Wet wt	a) Not detected b) 0.71 ug/g c) 0.41 ug/g d) Not detected e) Not detected Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Oyster, Pacific

CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3472 Body	10	a) Not given b) Not given	a) 0.19 +or- 0.06 ug/g b) 0.65 +or- 0.23 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Pollock, walleye

THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3473 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.087+/-0.018 ug/g b) 0.087+/-0.015 ug/g c) 0.107+/-0.005 ug/g d) 0.009+/-0.001 mg/100 g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelikof Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g d) Overall mean, combined sites Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Chromium

7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3474 Muscle	24 Ingestion	Not given	0.097+/-0.009 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Roach
RUTILUS RUTILUS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3475 Gills	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 49.6+/-14.0 ug/g b) 48.2+/-11.3 ug/g c) 4.0+/-1.3 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3476 Kidney	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 22.8+/-6.6 ug/g b) 23.8+/-9.4 ug/g c) 3.2+/-1.2 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3477 Liver	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 17.5+/-6.5 ug/g b) 18.4+/-5.4 ug/g c) 2.0+/-1.2 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3478 Muscle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 1.3+/-0.4 ug/g b) 0.8+/-0.2 ug/g c) 0.7+/-0.2 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS

(next page)

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Roach
RUTILUS RUTILUS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3479 Opercle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 59.9+/-15.1 ug/g b) 26.0+/-7.8 ug/g c) 5.6+/-4.8 ug/g	a) 100 mg Ni/l+80 Cr/l, mortality within 4 hrs b) 80 mg Cr/l c) Control from water storage reservoir Fish 10-15 cm long. Significantly greater levels when exposed with Ni. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
FISHES; BELGIUM; NICKEL; COPPER; CHROMIUM; BIOACCUMULATION; MUSCLES; LIVER; GILLS; KIDNEYS; AQUATIC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; WATER POLLUTION Van Hoof, F.; Nauwelaers, J.P. 1984 Chemosphere 13(9):1053-1058				

Shad, American
ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3480 Muscle	13 Ingestion	Not given	0.100+/-0.006 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3481 Bone	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 5.05 ug/g b) 5.81 ug/g c) 5.14 ug/g Dry wt +/-0.28 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) lambs from ewes on basal diet plus 7% undigested sewage solids Lambs from ewes on basal diet. New Mexico AAS
3482 Kidney		a) Not given b) Not given c) Not given	a) 0.20 ug/g b) 0.92 ug/g c) 0.20 ug/g Dry wt +/-0.14 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) lambs from ewes on basal diet plus 7% undigested sewage solids Lambs from ewes on basal diet. Ewes on diets for 2 yr. b) Significantly different from a) and c), $p<0.01$. New Mexico AAS

(next page)

Chromium
7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Sheep
OVIS sp.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3483 Liver	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 0.39 ug/g b) 0.35 ug/g c) 0.45 ug/g Dry wt +/-0.05 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7 % undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS
KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM Hudgens, R.E.; Hallford, D.M. 1984 Nutrition Reports International 29(1):11-21				

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3484 Body	757	0.5-3.9 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Snail, saltwater
NUCELLA LAPILLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3485 Body	40 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.0+/-0.2 ppm b) 3.0+/-1.1 ppm c) 2.7+/-0.4 ppm d) 2.3+/-1.0 ppm e) 2.3+/-0.8 ppm f) 2.1+/-0.9 ppm	a) Eastport, ME, large embayment b) Pemaquid Pt., ME, exposed coastal c) New Harbor, ME, close to marina and harbors, sheltered harbor d) Manomet, MA, large embayment e) Pt. Judith, RI, industrial effluents, marinas, coastal f) Avery Pt., CT, industrial and sewage effluents, marinas, river mouth. Pseudohermaphrodites (females with penis) common at c), e), f), polluted boating areas (94-100% frequency). Relatively unpolluted areas, no abnormalities a), b), d). "Imposex" associated with heavy metals, Cr not implicated. Maine; Massachusetts; Rhode Island; Connecticut AAS
SNAILS; BODY; CADMIUM; ZINC; COPPER; CHROMIUM; IRON; AQUATIC; WATER POLLUTION; POPULATION EXPOSURE; SEX; MAINE; RHODE ISLAND; MASSACHUSETTS; CONNECTICUT; ENVIRONMENTAL EXPOSURE Miller, E.R.; Pondick, J.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:612-620				

Chromium

7440-47-3
Cr
AtW 51.996, MP 1900 C, BP 2642 C, VP 1 mm Hg at 1616 C, 10 mm Hg at 1840 C

Sole, Dover
MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3486 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.081+/-0.019 ug/g b) 0.107+/-0.031 ug/g c) 0.092+/-0.031 ug/g d) 0.009+/-0.002 mg/100 g Wet wt	a) Caught near Newport, OR, 29 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3487 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.106+/-0.029 ug/g b) 0.086+/-0.011 ug/g Wet wt	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Interspecies variations among 7 species studied. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Cobalt

7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3488 Hair	Ingestion	Not given	0.031 ppm	Data from one representative site. Deposition of elements on pasture. Collected Oct-Nov 1981-2. 5 yr old cows, 10 samples/farm, 9-14 farms, 7-12 sites. Significantly correlated with bulk deposition. Belgium NA
CATTLE; HAIR; BIOLOGICAL MONITORING; AIR POLLUTION; LAND POLLUTION; ARSENIC; BARIUM; BROMINE; CERIUM; COBALT; CHROMIUM; CESIUM; IRON; POTASSIUM; LANTHANUM; SODIUM; RUBIDIUM; ANTIMONY; SCANDIUM; SELENIUM; SAMARIUM; THORIUM; ZINC; FOOD CONTAMINATION; BIOACCUMULATION; BIOCONCENTRATION; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; TRACE ELEMENTS Ronneau, C.; Cara, J. 1984 Science of the Total Environment 39:135-142				

Cobalt

7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3489 Liver	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 44.7x10(E-4)% b) 298x10(E-4)% % of dose/kg	a) 102 d after 0.391 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. 2.83% (oral) and 2.68% (IV) of body burden. Data available on other tissues.
3490 Milk	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.012% b) 3.3% % of dose	a) 102 d after 0.391 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. Data avalaible on other tissues.
3491 Muscle	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.600x10(E-4)% b) 70x10(E-4)% % of dose/kg	a) 102 d after 0.391 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. 16.8% (oral) and 22.3% (IV) of body burden. Data available on other tissues.
3492 Urine	a) 2 b) 1 Injection Ingestion	a) Not given b) Not given	a) 0.26% b) 60% % of dose	a) 102 d after 0.391 and 0.385 mCi oral b) 70 d after 0.036 mCi IV 402-533 kg Pie Noir cows. As Co-60. Data avalaible on other tissues.
INTESTINES; LIVER; SPLEEN; URINE; MILK; MUSCLES; BONES; FEMUR; RIBS; SKIN; KIDNEYS; BLOOD; COBALT; IRON; MANGANESE; CHROMIUM; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; LACTATION; RADIONUCLIDES Van Bruwaene, R.; Gerber, G.B.; Kirchmann, R.; Colard, J.; Van Kerkom, J. 1984 Health Physics 46(5):1069-1082				

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3493 Body	251	0.04-0.19 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Duck, long-tailed
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3494 Feathers	a) 28 b) 15 c) 6	a) 0.10-0.40 mg/kg b) 0.12-0.22 mg/kg c) 0.092-0.16 mg/kg Dry wt	a) 0.19 +or- 0.05 mg/kg b) 0.18 +or- 0.04 mg/kg c) 0.13 +or- 0.03 mg/kg Dry wt	a) Males b) Males, oiled c) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3495 Heart	a) 50 b) 40	a) 0.097-0.11 mg/kg b) 0.10-0.44 mg/kg Wet wt	a) 0.10 +or- 0.01 mg/kg b) 0.27 +or- 0.17 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3496 Liver	a) 50 b) 40	a) 0.056-0.022 mg/kg b) 0.013-0.075 mg/kg Wet wt	a) 0.090 +or- 0.023 mg/kg b) 0.059 +or- 0.008 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3497 Muscle	90	a) 0.002-0.025 mg/kg b) 0.007-0.030 mg/kg c) 0.039-0.047 mg/kg d) 0.044-0.091 mg/kg Wet wt	a) 0.013 +or- 0.003 mg/kg b) 0.015 +or- 0.003 mg/kg c) 0.042 +or- 0.004 mg/kg d) 0.061 +or- 0.015 mg/kg Wet wt	a) Males, breast b) Females, breast c) Males, leg d) Females, leg Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3498 Stomach	a) 50 b) 40	a) 0.006-0.071 mg/kg b) 0.067-0.097 mg/kg Wet wt	a) 0.048 +or- 0.013 mg/kg b) 0.075 +or- 0.011 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

POLAND; BIRDS; IRON; ZINC; MANGANESE; COPPER; LEAD; CADMIUM; COBALT; NICKEL; BIOACCUMULATION; LIVER; MUSCLES; HEART; STOMACH; FEATHERS; AQUATIC; WATERFOWL; ENVIRONMENTAL EXPOSURE

Szefer, P.; Falandysz, J. 1983 Science of the Total Environment 29:269-276

Cobalt

7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Earthworm
PHERETIMA HILGENDORFI

Tissue	Cases Exposure Route	Range	Mean	General Information
3499 Body, whole	37	0.25-1.15 ug/wet g	0.56-0.21 ug/wet g	Relatively high levels found in pre-clitellar region. Total burden increased with increased body length up to 18 cm, thereafter it remained constant. Accumulation depended upon metabolic turnover. Japan, Matsuyama City, Tsubaki shrine AAS

IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING

Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432

Koala
PHASCOLARCTOS CINEREUS (Goldfuss)

Tissue	Cases Exposure Route	Range	Mean	General Information
3500 Liver	9	Not given	2.8+/-0.57 umol/kg	Dried liver. Mean age class 3.8+/-0.5 (1 = weanling, 7 = full grown, mature). Levels stable with age. Australia, Victoria, East Gippsland and French Island AAS

LIVER; COPPER; MANGANESE; ZINC; COBALT; BLOOD PLASMA; KOALAS; AUSTRALIA; DIETS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE

McOrist, S.; Thomas, K.W. 1984 Journal of Wildlife Diseases 20(3):220-225

Mollusk
PERNA PERNA

Tissue	Cases Exposure Route	Range	Mean	General Information
3501 Body	10	a) Not given b) Not given	a) <0.02 ug/g b) 0.46 +or- 0.12 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS

MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA

Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Mussel
CHOROMYTILUS MERIDIONALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3502 Body	10	a) Not given b) Not given	a) 0.02 +or- 0.01 ug/g b) 0.38 +or- 0.10 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster
CRASSOSTREA MARGARITACEA

Tissue	Cases Exposure Route	Range	Mean	General Information
3503 Body	10	a) Not given b) Not given	a) <0.02 ug/g b) 0.07 +or- 0.03 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster, Pacific
CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3504 Body	10	a) Not given b) Not given	a) 0.01 +or- 0.01 ug/g b) 0.41 +or- 0.11 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Cobalt
7440-48-4
Co
AtW 58.9332, MP 1493 C, BP 3100 C, VP 1 mm Hg at 1910 C

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3505 Body	757	0.03-0.19 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Cobalt, isotope of mass 60
10198-40-0
Co

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3506 Bone	22 Ingestion	40-60 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 3 approx 150 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3507 Brain	22 Ingestion	15-20 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 20 approx 40 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3508 Kidney	22 Ingestion	900-450 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 17 approx 3000 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
3509 Liver	22 Ingestion	200-100 Bq/gX10(E+6)/daily dose	Not given	Day 0 to d 92, peak on d 20 approx 900 Bq/g organ x 10(E+6)/daily dose. Estimated from graph. Intubation daily for 20 d, mixture of 34.1 kBq Co-60 and 52.2 kBq Cs-137. Gamma spectrometry
BIRDS; WATERFOWL; AQUATIC; DELIBERATE EXPOSURE; MUSCLES; LIVER; LUNGS; BONES; BRAIN; KIDNEYS; COBALT; CESIUM; RADIONUCLIDES Konings, J.; Kirchmann, R.; Gerber, G.B.; Van Bruwaene, R.; Colard, J. 1984 Health Physics 46(3):681-684				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Beaver

CASTOR CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3510 Intestine	4 Ingestion	Not given	1.0+/-0.2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3511 Kidney	4 Ingestion	Not given	3.0+/-0.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3512 Liver	4 Ingestion	Not given	2.9+/-0.4 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3513 Muscle	4 Ingestion	Not given	2.5+/-0.2 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Buffalo, water

BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3514 Lung	Inhalation	a) Not given b) Not given	a) 4557+/-729 mg/kg b) 9060+/-1422 mg/kg	a) Orissa area b) West Bengal area Polluted industrial and mining areas. Controls from non-industrial regions had no gross pulmonary changes, no data given. Necropsies on food animals. India Lungs were dirty pink color mottled with black. 20 trace metals present. Location of particulates suggested paralysed clearance mechanisms. Aggregates of lymphocytes and dust-laden macrophages. X-ray flourescence
CATTLE; ENVIRONMENTAL EXPOSURE; AIR POLLUTION; INDUSTRIAL POLLUTION; TERRESTRIAL; MERCURY; IRON; ZINC; LEAD; LUNGS; INDIA; AUTOPSIES; FOOD CONTAMINATION; BIOLOGICAL MONITORING; COPPER; BIOINDICATORS; DUST; INHALATION Dogra, R.K.S.; Shanker, R.; Saxena, A.K.; Khanna, S.; Srivastava, S.N.; Shukla, L.J.; Zaidi, S.H. 1984 Environmental Pollution (Series A) 36:109-120				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Bufflehead
BUCEPHALA ALBEOLA

Tissue	Cases Exposure Route	Range	Mean	General Information
3515 Kidney	17 Ingestion	3.4-48.5 ug/g Dry wt	16.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3516 Liver	71 Ingestion	9.0-546.7 ug/g Dry wt	36.7 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Caddisfly
TRICHOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3517 Body		a) 90-310 ppm b) 310-980 ppm c) 0-100 ppm d) 100-3447 ppm e) 700-1280 ppm	a) Not given b) Not given c) Not given d) Not given e) Not given	a) Controls during dry weather b) Controls during rain, only c) Station 2, which drains half of business district, during dry weather d) Station 2, which drains half of business district during rain e) Station 3, which receives total cumulative runoff from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet=rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Canvasback
AYTHYA VALISINERIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3518 Kidney	64 Ingestion	3.2-80.8 ug/g Dry wt	26.6 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Canvasback
AYTHYA VALISINERIA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3519 Liver	64 Ingestion	7.1-465.0 ug/g Dry wt	114.7 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3520 Blood	a) 8 b) 8 c) 8 Ingestion	a) 61-77 ug b) 55-75 ug c) 68-85 ug /100 ml	a) Not given b) Not given c) Not given	a) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d b) Same amount of Cd and Cu and 254-265 ug Zn/g feed c) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Range of means. Estimated from graph. AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129				

Tissue	Cases Exposure Route	Range	Mean	General Information
3521 Blood, plasma	19	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 15.6+/-0.7 umole/L b) 13.1+/-1.2 umole/L c) 10.8+/-1.4 umole/L d) 8.3+/-1.6 umole/L e) 9.2+/-0 umole/L f) 14.2+/-0.6 umole/L g) 14.4+/-0.3 umole/L h) 16.5+/-1.6 umole/L i) 16.2+/-1.0 umole/L j) 14.6+/-1.1 umole/L S.E.	a) Untreated controls, d 0, 9 cases b) Day 69, 6 cases c) Day 152, 8 cases d) Day 188, 8 cases e) Day 288, 2 cases f) Two pellets of Tracerglass-C administered by balling-gun into reticulorumen, d 0, 10 cases g) day 69, 6 cases h) Day 152, 4 cases i) Day 188, 8 cases j) Day 288, 8 cases Significant differences: c) and h), e) and j) $p<0.05$ and d) and i) $p<0.001$. Tracerglass a phosphate-based soluble-glass pellet containing Cu, Co and Se.
BLOOD PLASMA; TERRESTRIAL; CATTLE; SHEEP; DELIBERATE EXPOSURE; DRUGS; COPPER; TRACE ELEMENTS Telfer, S.B.; Zervas, G.; Carlos, G. 1984 Canadian Journal of Animal Science 64:234-235				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3522 Blood, serum	1151 Injection	a) 3.1-10.1 uM/L b) -3.7-5.1 uM/L c) 3.3-10.4 uM/L d) -3.0-6.3 uM/L e) 4.5-12.1 uM/L f) -4.9-2.3 uM/L g) 3.8-11.7 uM/L h) -1.7-5.9 uM/L Ranges of means	a) 6.8+/-0.18 uM/L b) -0.9+/-0.22 uM/L c) 6.8+/-0.17 uM/L d) 0.5+/-0.17 uM/L e) 10.5+/-0.25 uM/L f) -1.9+/-0.28 uM/L g) 10.1+/-0.23 uM/L h) 0.5+/-0.24 uM/L S.E.	a) Untreated, spring '74 b) Untreated, change from spring to autumn '74 c) Treated, Cu glycinate 60 mg Cu/calf or 120 mg/animal over 225 kg, SC in neck region once in spring d) Treated, change from spring to autumn e) Calves, same as a) f) Same as b) g) Same as c) h) Same as d) a-d) 303 untreated, 317 treated yearlings and >1 yr e-h) 266 untreated, 265 treated calves born spring '74. Statistically significant (P<0.05) change, untreated vs treated. Canada, northwestern Manitoba Hypocupremia in animals whose blood serum Cu is </=9.4 uM/L. AAS

CATTLE; COPPER; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; JUVENILES; TERRESTRIAL; BLOOD SERUM; CANADA

Boila, R.J.; Devlin, T.J.; Drysdale, R.A.; Lillie, L.E. 1984 Canadian Journal of Animal Science 64:919-936

Tissue	Cases Exposure Route	Range	Mean	General Information
3523 Brain	a) 3 b) 4 c) 4 d) 3 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 28.83 ug/g b) 24.31 ug/g c) 26.81 ug/g d) 24.58 ug/g e) 24.67 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS
3524 Heart	a) 3 b) 4 c) 4 d) 3 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 37.83 ug/g b) 28.31 ug/g c) 32.31 ug/g d) 34.25 ug/g e) 33.56 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS

LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL

Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3525 Kidney	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 2.14+/-0.1 ug/g b) 2.30+/-0.1 ug/g c) 2.18+/-0.1 ug/g d) 2.66+/-0.2 ug/g Wet wt S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference b), d) ($p<0.05$) and c), d) ($p<0.01$). AAS

BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES

Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129

Tissue	Cases Exposure Route	Range	Mean	General Information
3526 Kidney	178	<1.0-14.0 mg/kg Wet wt	4.9+or-1.5 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM ; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS

Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3527 Kidney	a) 3 b) 4 c) 4 d) 3 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 19.54 ug/g b) 15.79 ug/g c) 17.66 ug/g d) 17.04 ug/g e) 15.86 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS

LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL

Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3528 Liver	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 15.0+/-6.2 ug/g b) 7.7+/-2.4 ug/g c) 5.7+/-1.8 ug/g d) 16.2+/-7.3 ug/g Wet wt S.E.	a) Baseline - calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. Significant difference c), d) ($p<0.05$) AAS

BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES

Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129

Tissue	Cases Exposure Route	Range	Mean	General Information
3529 Liver	180	1.4-134.5 mg/kg Wet wt	33.8+or-25.2 mg/kg Wet wt	From abattoirs in 10 selected 100-sq km areas representing a cross-section of industries. Australia, Queensland AAS

CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM ; COPPER; LEAD; MERCURY; SELENIUM; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS

Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594

Tissue	Cases Exposure Route	Range	Mean	General Information
3530 Liver	a) 3 b) 4 c) 4 d) 3 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 63.7 ug/g b) 28.7 ug/g c) 16.19 ug/g d) 64.58 ug/g e) 99.69 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS

LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL

Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cattle
BOS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3531 Muscle	a) 8 b) 8 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1.25+/-0.61 ug/g b) 1.39+/-0.14 ug/g c) 1.26+/-0.12 ug/g d) 1.26+/-0.11 ug/g Wet wt S.E.	a) Baseline calves, fed hay and water b) Fed rations with 41.5-52.9 ug Cd, 7.00-7.44 ug Cu and 54-59 ug Zn/g feed for 60 d c) Same amount of Cd and Cu and 254-265 ug Zn/g feed d) Same amount of Cd and Cu and 641-709 ug Zn/g feed 6-9 mo old calves, mean wt 184 kg. No significant difference. AAS
BLOOD; MUSCLES; KIDNEYS; LIVER; CATTLE; TERRESTRIAL; DELIBERATE EXPOSURE; COMPARATIVE EVALUATIONS; CADMIUM; ZINC; COPPER; METALS; ANIMAL FEEDS; DIETS; JUVENILES Lamphere, D.N.; Dorn, C.R.; Reddy, C.S.; Meyer, A.W. 1984 Environmental Research 33:119-129				

Tissue	Cases Exposure Route	Range	Mean	General Information
3532 Muscle	181	<1.0-9.3 mg/kg Wet wt	1.9+or-1.2 mg/kg Wet wt	From abattoirs in 10 selected 100-sq sm areas representing a cross-section of industries. 35 samples below detection limit. Australia, Queensland AAS
CATTLE; AUSTRALIA; KIDNEYS; LIVER; MUSCLES; ARSENIC; CADMIUM; CHROMIUM; COPPER; LEAD; MERCURY; SELENIUM ; ZINC; BIOACCUMULATION; INDUSTRIAL AREAS Kramer, H.L.; Steiner, J.W.; Vallely, P.J. 1983 Bulletin of Environmental Contamination and Toxicology 30:588-594				

Tissue	Cases Exposure Route	Range	Mean	General Information
3533 Spleen	a) 3 b) 4 c) 4 d) 3 e) 4 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 3.42 ug/g b) 4.60 ug/g c) 4.63 ug/g d) 5.34 ug/g e) 5.10 ug/g Dry wt	a) Controls, 0 mg Pb/kg b) 6.25 mg Pb/kg c) 7.81 mg Pb/kg d) 9.77 mg Pb/kg e) 12.21 mg Pb/kg Daily dietary doses. 2 in c) survived 89 and 112 d, others, except controls, died within 24 d. Diarrhea Blindness, death AAS
LIVER; KIDNEYS; SPLEEN; HEART; BRAIN; DELIBERATE EXPOSURE; ADULTS; CATTLE; METAL POISONING; AUTOPSIES; COPPER; LEAD; MANGANESE; IRON; ZINC; METALS; AGRICULTURE; BIOACCUMULATION; DIETS; ANIMAL FEEDS; TERRESTRIAL Doyle, J.J.; Younger, R.L. 1984 Veterinary and Human Toxicology 26(3):201-204				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Clam
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3534 Body	251	0.82-1.35 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-338				

Clam, Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3535 Body, whole	9	1.0-13 ug/g Dry wt	8.7 ug/g Dry wt Median	August 1979-May 1980, sampling dates. More concentrated in sediments than in tissue. No correlation between sediment and clam residues. Non point sources. No significant seasonal, temporal or spatial variability reported. Florida, Apalachicola River AAS
BODY; ASIATIC CLAM; AQUATIC; ENVIRONMENTAL EXPOSURE; FLORIDA; TRACE ELEMENTS; PESTICIDES; POLYCHLORINATED BIPHENYLS; CHROMIUM; COPPER; LEAD; MANGANESE; MERCURY; ZINC; DDD; ORGANOPHOSPHATES; DDE; DDT; DIELDRIN; HEPTACHLOR EPOXIDE; INSECTICIDES; GEOLOGY Elder, J.F.; Mattraw, H.C. 1984 Archives of Environmental Contamination and Toxicology 13:453-469				

Clam, freshwater Asiatic
CORBICULA MANILENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3536 Body	a) 23 b) 10 c) 9 d) 9 e) 9 f) 3 g) 10 h) 10 i) 10 j) 9	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given	a) 14.90+/-2.63 ug/g b) 13.98+/-4.85 ug/g c) 12.57+/-2.07 ug/g d) 16.67+/-8.93 ug/g e) 45.50+/-14.98 ug/g f) 16.17+/-9.82 ug/g g) 35.15+/-6.10 ug/g h) 31.25+/-5.08 ug/g i) 10.91+/-1.16 ug/g j) 9.19+/-1.65 ug/g Dry wt	a) 2570 ug/L for 1.4 d b) 900 ug/L for 12.1 d c) 430 ug/L for 14.6 d d) 230 ug/L for 14.0 d e) 102 ug/L for 14.0 d f) 56 ug/L for 26.2 d g) 56 ug/L for 4 d h) 25 ug/L for 14 d i) 11 ug/L for 23.3 d j) <1 ug/L for 14 d a) -c), f) dead, d), e), g)-j) alive Exposed for 4-10 wks in high-volume, flow-through bioassay. California, Tracy AAS
BODY; CLAMS; COPPER; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; CALIFORNIA; BIOACCUMULATION; BIOINDICATORS; INDUSTRIAL POLLUTION; WATER POLLUTION; POWER PLANTS; BIOCONCENTRATION; BENTHOS; AQUATIC Harrison, F.L.; Knezovich, J.P.; Rice, D.W. 1984 Archives of Environmental Contamination and Toxicology 13:85-92				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Clam, hard-shell

MERCENARIA MERCENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3537 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) 1.7-10.5 ug/g b) 0.8-12.2 ug/g c) 4.1-18.4 ug/g d) 1.5-25.8 ug/g e) 1.6-14.9 ug/g Wet wt	a) 5.9 ug/g b) 6.2 ug/g c) 9.2 ug/g d) 6.4 ug/g e) 5.3 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include soft-shell clam, MYA ARENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Clam, soft-shell

MYA ARENARIA

Tissue	Cases Exposure Route	Range	Mean	General Information
3538 Body	a) 13 b) 10 c) 18 d) 123 e) 38 Ingestion	a) 1.7-10.5 ug/g b) 0.8-12.2 ug/g c) 4.1-18.4 ug/g d) 1.5-25.8 ug/g e) 1.6-14.9 ug/g Wet wt	a) 5.9 ug/g b) 6.2 ug/g c) 9.2 ug/g d) 6.4 ug/g e) 5.3 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Data include hard-shell clam, MERCENARIA MERCENARIA. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Increases in As merit future study. Chesapeake Bay and tributaries. Maryland, Chesapeake Bay area AAS

CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE

Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671

Tissue	Cases Exposure Route	Range	Mean	General Information
3539 Muscle	67	Not given	2.54+/-1.0 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS

CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC

Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Cockle
CLINOCARDIUM NUTTALLII

Tissue	Cases Exposure Route	Range	Mean	General Information
3540 Muscle	47	Not given	1.24+or-0.445 ug/g Wet wt	Total soft tissues. Collected 1970-74 Oregon, coast AAS
CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23				

Cod, Pacific
GADUS MACROCEPHALUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3541 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 0.346+/-0.115 ug/g b) 0.195+/-0.047 ug/g c) 0.289+/-0.088 ug/g d) 0.031+/-0.010 mg/100 g e) 0.319+/-0.099 ug/g f) 0.483+/-0.125 ug/g Wet wt	a) Near Cape Flattery, WA, 50 fish, mean wt 2623+/-1174 g b) Cape Sarichef, AK, 12 fish, 1148+/-649 g c) Cape Ommaney, AK, 11 fish, 798+/-497 g d) Overall mean, combined sites e) Nape section of fish, 30 fillets f) Tail section of fish, 30 fillets. Slightly higher levels in tail indicated differential distribution. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Crab, blue
CALLINECTES SAPIDUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3542 Body	a) 8 b) 20 Ingestion	a) 5.4-8.6 ug/g b) 2.1-11.3 ug/g Wet wt	a) 7.1 ug/g b) 5.9 ug/g Wet wt	a) 1979 b) 1980 None collected 1976-1978. Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Crab, Dungeness

CANCER MAGISTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3543 Hepatopancreas	59	Not given	27.5+or-22.6 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS
3544 Muscle	73	Not given	10.1+or-4.41 ug/g Wet wt	Collected 1970-74 Oregon, coast AAS

CRUSTACEANS; HEPATOPANCREAS; MOLLUSKS; OREGON ; MUSCLES; BIOACCUMULATION; WATER POLLUTION; CADMIUM; COPPER; IRON; MANGANESE; MERCURY; ZINC

Caldwell, R.S.; Buhler, D.R. 1983 Archives of Environmental Contamination and Toxicology 12:15-23

Crayfish

PACIFASTICUS LENIUSCULUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3545 Exoskeleton	a) 10 b) 7 c) 12 d) 8	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 50 ug/g b) 40 ug/g c) 35 ug/g d) 42 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Significantly different, a) and c). Washington, Seattle, Lake Washington and Lake Union ICP
3546 Muscle	a) 10 b) 7 c) 12 d) 8	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 9.8 ug/g b) 9.7 ug/g c) 20.0 ug/g d) 9.7 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Washington, Seattle, Lake Washington and Lake Union ICP
3547 Organs	a) 10 b) 7 c) 12 d) 8	a) Not applicable b) Not applicable c) Not applicable d) Not applicable	a) 200 ug/g b) 100 ug/g c) 200 ug/g d) 180 ug/g	a) Laboratory controls b) Confined near storm drain outfall for freeway runoff c) Retail market sample d) Near combined sewer overflow outfall Exposed for 14 days. Estimated from graph. Significantly different, b) from a) and c). Washington, Seattle, Lake Washington and Lake Union ICP

MUSCLES; ORGANS; EXOSKELETON; CRAYFISH; AQUATIC; ENVIRONMENTAL EXPOSURE; WASHINGTON; LEAD; CADMIUM; MERCURY; COPPER; METALS; BIOACCUMULATION; BIOMAGNIFICATION; BIOLOGICAL MONITORING; FOOD CONTAMINATION; SEWAGE; WATER POLLUTION

Stinson, M.D.; Eaton, D.L. 1983 Archives of Environmental Contamination and Toxicology 12:693-700

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Dogfish

Tissue	Cases Exposure Route	Range	Mean	General Information
3548 Liver	a) 9 b) 8 c) 8	a) Not given b) Not given c) Not given	a) 2.4 ug/g b) 3.9 ug/g c) 3.7 ug/g Dry wt	a) Controls b) 10 ppm Zn for 3 wk c) 80 ppm Zn for 24 hr Estimated from graph. Wt 150-300 g No toxic symptoms at 10 ppm, overturning at 80 ppm. AAS
SPAIN; FISHES; BIOACCUMULATION; LIVER; ZINC; COPPER; MANGANESE Sanpera, C.; Vallribera, M.; Crespo, S. 1983 Bulletin of Environmental Contamination and Toxicology 31:415-417				

Duck, black
ANAS RUBRIPES

Tissue	Cases Exposure Route	Range	Mean	General Information
3549 Kidney	18 Ingestion	4.9-29.6 ug/g Dry wt	14.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3550 Liver	128 Ingestion	1.5-235.4 ug/g Dry wt	34.9 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Duck, long-tailed
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3551 Feathers	a) 28 b) 15 c) 6	a) 3.4-8.9 mg/kg b) 7.6-8.9 mg/kg c) 5.6-7.0 mg/kg Wet wt	a) 6.3 +or- 0.9 mg/kg b) 8.4 +or- 0.4 mg/kg c) 6.3 +or- 0.7 mg/kg Wet wt	a) Males b) Males, oiled c) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3552 Heart	a) 50 b) 40	a) 1.7-2.1 mg/kg b) 1.2-1.9 mg/kg Wet wt	a) 1.9 +or- 0.2 mg/kg b) 1.5 +or- 0.4 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, long-tailed
CLANGULA HYEMALIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3553 Liver	a) 50 b) 40	a) 1.1-66 mg/kg b) 0.81-1.8 mg/kg Wet wt	a) 1.5 +or- 0.2 mg/kg b) 1.3 +or- 0.1 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3554 Muscle	90	a) 0.053-1.2 mg/kg b) 0.22-1.2 mg/kg c) 0.44-0.79 mg/kg d) 0.87-1.0 mg/kg Wet wt	a) 0.86 +or- 0.04 mg/kg b) 0.86 +or- 0.13 mg/kg c) 0.59 +or- 0.10 mg/kg d) 0.96 +or- 0.05 mg/kg Wet wt	a) Males, breast b) Females, breast c) Males, leg d) Females, leg Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
3555 Stomach	a) 50 b) 40	a) 0.17-0.97 mg/kg b) 0.18-0.51 mg/kg Wet wt	a) 0.47 +or- 0.14 mg/kg b) 0.32 +or- 0.1 mg/kg Wet wt	a) Males b) Females Collected 1980-81. Composite samples Poland, Gdansk Bay AAS
POLAND; BIRDS; IRON; ZINC; MANGANESE; COPPER; LEAD; CADMIUM; COBALT; NICKEL; BIOACCUMULATION; LIVER; MUSCLES; HEART; STOMACH; FEATHERS; AQUATIC; WATERFOWL; ENVIRONMENTAL EXPOSURE Szefer, P.; Falandysz, J. 1983 Science of the Total Environment 29:269-276				

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3556 Bone	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 1.5+/-0.7 ug/g b) 0.9+/-0.4 ug/g c) 1.2+/-0.6 ug/g d) 1.8+/-0.9 ug/g e) <0.5 ug/g f) 1.1+/-0.8 ug/g g) 2.2+/-1.5 Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug/Pb g diet g) 50 ug Cd+50 ug Pb/g diet Juveniles 128 d old. Fed as Cl salts in diets 42+/-1 d. No signficant differences Virginia, Blacksburg AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, mallard
ANAS PLATYRHYNCHOS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3557 Kidney	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 16.2+/-2.2 ug/g b) 21.8+/-2.3 ug/g c) 56.7+/-7.7 ug/g d) 16.3+/-1.5 ug/g e) 20.9+/-2.6 ug/g f) 21.2+/-4.2 ug/g g) 37.7+/-3.7 Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug/Pb g diet g) 50 ug Cd+50 ug Pb/g diet Juveniles 128 d old. Fed as Cl salts in diets 42+/-1 d. c) significantly greater than others. b) significantly greater than others except c) Virginia, Blacksburg AAS
KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110				

Tissue	Cases Exposure Route	Range	Mean	General Information
3558 Kidney	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 14.0+/-1.0 ppm b) 46.8+/-5.5 ppm c) 68.2+/-7.2 ppm d) 108.4+/-9.7 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Dry wt S.E. Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS
DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771				

Tissue	Cases Exposure Route	Range	Mean	General Information
3559 Kidney	25 Ingestion	3.9-82.6 ug/g Dry wt	19.5 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, mallard
ANAS PLATYRHYNCHOS

Tissue	Cases Exposure Route	Range	Mean	General Information
3560 Liver	a) 8 b) 8 c) 7 d) 6 e) 8 f) 8 g) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given	a) 585+/-133 ug/g b) 255+/-30 ug/g c) 487+/-180 ug/g d) 692+/-124 ug/g e) 555+/-99 ug/g f) 488+/-158 ug/g g) 414+/-84 ug/g Dry wt S.E.	a) Controls b) 10 ug Cd/g diet c) 100 ug Cd/g diet d) 10 ug Pb/g diet e) 100 ug Pb/g diet f) 5 ug Cd+5 ug/Pb g diet g) 50 ug Cd+50 ug Pb/g diet Juveniles 128 d old. Fed as Cl salts in diets 42+/-1 d. No signficant differences. Virginia, Blacksburg AAS

KIDNEYS; LIVER; BONES; CADMIUM; LEAD; COPPER; ZINC; DIETS; BIOACCUMULATION; BIRDS; WATERFOWL; DELIBERATE EXPOSURE; AQUATIC; JUVENILES

Di Giulio, R.T.; Scanlon, P.F. 1984 Science of the Total Environment 39:103-110

Tissue	Cases Exposure Route	Range	Mean	General Information
3561 Liver	a) 12 b) 12 c) 12 d) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 332+/84 ppm b) 208+/-37 ppm c) 389+/-136 ppm d) 289+/-92 ppm Dry wt S.E.	a) 0 ppm b) 50 ppm c) 150 ppm d) 450 ppm Dry wt S.E. Cd in diet for 42+/-1 d. 11 mo old wild-strain drakes. Differences not significant. Virginia Body wt, liver wt, and total aldolase activity (IU) significantly reduced in 450 ppm group. Significant dose-dependent wt increases of kidneys and adrenals. AAS

DUCKS; WATERFOWL; CADMIUM; JUVENILES; DELIBERATE EXPOSURE; LIVER; KIDNEYS; COPPER; ZINC; VIRGINIA; TERRESTRIAL; METABOLISM; AQUATIC; BIRDS

Di Giulio, R.T.; Scanlon, P.F. 1984 Archives of Environmental Contamination and Toxicology 13:765-771

Tissue	Cases Exposure Route	Range	Mean	General Information
3562 Liver	157 Ingestion	2.6-957.3 ug/g Dry wt	52.0 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS

AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS

Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Duck, ring-necked
AYTHYA COLLARIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3563 Kidney	8 Ingestion	5.4-16.5 ug/g Dry wt	9.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3564 Liver	23 Ingestion	22.0-990.9 ug/g Dry wt	262.7 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Duck, ruddy
OXYURA JAMAICENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3565 Kidney	20 Ingestion	5.7-22.5 ug/g Dry wt	10.6 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3566 Liver	20 Ingestion	28.3-366.0 ug/g Dry wt	85.2 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Duck, wood
AIX SPONSA

Tissue	Cases Exposure Route	Range	Mean	General Information
3567 Liver	13 Ingestion	5.1-41.7 ug/g Dry wt	19.4 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Eagle, booted

HIERAETUS PENNATUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3568 Eggs	a) 1 b) 3 Ingestion	a) Not given b) Not given	a) 1.260 ppm b) 1.203 ppm Wet wt	a) Collected 1981 b) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Eagle, imperial

AQUILA HELIACA

Tissue	Cases Exposure Route	Range	Mean	General Information
3569 Eggs	a) 6 b) 3 c) 3 d) 10 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1.285 ppm b) 1.340 ppm c) 1.285 ppm d) 1.383 ppm Wet wt	a) Collected 1980 b) 1981 c) 1982 d) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Earthworm

LUMBRICUS RUBELLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3570 Body		12-58 mg/kg	Not given	Collected from 31 sampling sites 1-15 km from zinc smelter. Soil content 1-130 mg/kg. Mean dry wt 86+/-28 mg. Netherlands, Eindhoven, S.E., Dutch Kempen region AAS
WORMS; LEAD; ZINC; NETHERLANDS; BODY; SMELTERS; SOILS; CADMIUM; COPPER; TERRESTRIAL; ENVIRONMENTAL EXPOSURE Ma, W.; Edelman, T.; van Beersum, I.; Jans, T. 1983 Bulletin of Environmental Contamination and Toxicology 30:424-427				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Earthworm

LUMBRICUS RUBELLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3571 Body, whole	37	5.94-24.1 ug/wet g	13.6+/-5.01 ug/wet g	Relatively high levels found in post-clitellar region. Total burden increased with increased body length up to 18 cm, thereafter it remained constant. Accumulation depended upon metabolic turnover. Japan, Matsuyama City, Tsubaki shrine AAS
IRON; MANGANESE; ZINC; COPPER; LEAD; NICKEL; COBALT; ARSENIC; MERCURY; CADMIUM; BIOACCUMULATION; SOILS; BIOINDICATORS; LAND POLLUTION; EARTHWORMS; BODY; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; JAPAN; METALS; BIOLOGICAL MONITORING Honda, K.; Nasu, T.; Tatsukawa, R. 1984 Archives of Environmental Contamination and Toxicology 13:427-432				

Eel

ANGUILLA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3572 Gills	a) 9 b) 10	a) 3-14 ug/g b) 4-10 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3573 Liver	a) 9 b) 10	a) 100-163 ug/g b) 123-234 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3574 Muscle	a) 9 b) 10	a) 3-9 ug/g b) 3-6 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Fish
NANNOPERCA AUSTRALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3575 Muscle	a) 8 b) 19	a) Not detected-5 ug/g b) 11-14 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 2 sampling areas respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Flounder, windowpane
SCOPHTHALMUS AQUOSUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3576 Liver	a) 6 b) 16 c) 6 d) 10 e) 9 f) 12 g) 6 h) 10 i) 9 j) 14 k) 4 l) 10 m) 10	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given j) Not given k) Not given l) Not given m) Not given	a) 2.8 ppm b) 5.2 ppm c) 6.3 ppm d) 3.3 ppm e) 9.1 ppm f) 7.5 ppm g) 4.5 ppm h) 4.1 ppm i) 6.2 ppm j) 7.4 ppm k) 3.2 ppm l) 5.0 ppm m) 4.8 ppm Wet wt	a) 6/78 b) 7/79 c) 5/80 d) 7/80 e) 10/80 f) 7/79 g) 5/80 h) 7/80 i) 10/80 j) 7/79 k) 5/80 l) 7/80 m) 10/80 Milford, CT a)-e), Hempstead Harbor, NY f)-i), Roanoke Point, NY j)-m). Length 18-35 cm. Long Island Sound AAS
LIVER; COPPER; CADMIUM; CONNECTICUT; NEW YORK; POLYCHLORINATED BIPHENYLS; BIOACCUMULATION; FISHES; WATER POLLUTION; AQUATIC; ENVIRONMENTAL EXPOSURE Greig, R.A.; Schurman, S.; Pereira, J.; Naples, P. 1983 Bulletin of Environmental Contamination and Toxicology 31:257-262				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Gadwall
ANAS STREPERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3577 Kidney	9 Ingestion	1.6-20.3 ug/g Dry wt	12.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3578 Liver	31 Ingestion	7.0-139.8 ug/g Dry wt	65.5 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Hobby
FALCO SUBBUTEO

Tissue	Cases Exposure Route	Range	Mean	General Information
3579 Eggs	a) 3 b) 4 Ingestion	a) Not given b) Not given	a) 2.498 ppm b) 1.742 ppm Wet wt	a) Collected 1982 b) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Honeybee

APIS MELLIFERA L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3580 Body		a) Not given b) 8.68-9.70 ppm c) Not given d) 9.86-10.5 ppm e) Not given f) 9.78-13.4 ppm g) Not given h) 11.2-21.5 ppm i) Not given j) 9.02-9.89 ppm	a) Not given b) 9.23 ppm c) 9.17 ppm d) 10.12 ppm e) 8.82 ppm f) 11.13 ppm g) 14.1 ppm h) 15.5 ppm i) 9.43 ppm j) 9.40 ppm	a) Controls, 1st summer b) Controls, 2nd summer c) Chromated copper arsenate (CCA), 1st summer d) CCA, 2nd summer e) Acid copper chromate (ACC), 1st summer f) ACC, 2nd summer g) Copper naphthenate (CN), 1st summer h) CN, 2nd summer i) Copper 8-quinolinolate (C8-Q), 1st summer j) C8-Q, 2nd summer Controls, untreated wood. Wood of beehives treated in 1980 to retentions of 4 kg/cu m (CCA, ACC), 1.9 kg/cu m (C8-Q), or 3% (CN). 5 colonies/treatment. Wisconsin, Madison AAS
INSECTS; ARSENIC; COPPER; TIN; ANIMAL POPULATIONS; WOOD PRESERVATIVES; PENTACHLOROPHENOL; CHROMIUM; DELIBERATE EXPOSURE; BODY; TERRESTRIAL; PESTICIDES Kalnins, M.A.; Detroy, B.F. 1984 Journal of Agricultural and Food Chemistry 32(5):1176-1180				

Horse

Tissue	Cases Exposure Route	Range	Mean	General Information
3581 Blood, plasma	a) 16 b) 21 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 22.35+/-6.61 umol/l b) 19.36+/-6.61 umol/l c) 10.2 umol	a) Normal, controls b) Pastured adjacent to c) c) Pastured near Pb-Zn smelter Excessive Zn intake caused hypocuprosis in c). Treated with 60 mg Cu-glycinate SC. Australia Severe lameness, stiffened gait.
3582 Blood, serum	a) 1 b) 1 c) 1 Ingestion	a) Not applicable b) Not applicable c) Not applicable	a) 6.3 umol/l b) 0 umol/l c) 3-8 umol/l	a) Yearling Palomino filly b) 3 mo old foal c) 10 mo old standard bred foal Pastured near a steelworks, a galvanised iron manufacturing plant, a coal tar plant, and a chemical manufacturing plant. Pasture analyzed as high in Zn and Fe, moderately elevated Pb, normal Cu. Excessive Zn intake caused hypocuprosis. Australia Severe lameness, stiffened gait. Multiple bony enlargements of legs and joints, degenerative arthroses of shoulder and hip joints, histological evidence consistent with osteoporosis.

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Horse

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3583 Kidney	a) 49 b) 1 Ingestion	a) Not applicable b) Not applicable	a) 0.43+/-0.13 mmol/kg b) 0.36 mmol/kg	a) Normal, controls b) Pastured in an industrial area Pasture contained elevated Zn and Fe, moderately elevated Pb, normal Cu. Excessive Zn intake caused hypocuprosis. Australia Severe lameness, stiffened gait. Multiple bony enlargements of legs and joints, degenerative arthroses of shoulder and hip joints, histological evidence consistent with osteoporosis.
3584 Liver	a) 49 b) 1 Ingestion	a) Not applicable b) Not applicable	a) 1.28+/-2.71 mmol/kg b) 0.14 mmol/kg	a) Normal, controls b) Pastured in an industrial area Pasture contained elevated Zn and Fe, moderately elevated Pb, normal Cu. Excessive Zn intake caused hypocuprosis. Australia Severe lameness, stiffened gait. Multiple bony enlargements of legs and joints, degenerative arthroses of shoulder and hip joints, histological evidence consistent with osteoporosis.

LIVER; KIDNEYS; BLOOD SERUM; BLOOD PLASMA; ENVIRONMENTAL EXPOSURE; HORSES; TERRESTRIAL; METAL POISONING; AUSTRALIA; BONE DISEASES; AUTOPSIES; JUVENILES; COPPER; ZINC; LEAD; IRON; FOOD CONTAMINATION; BIOACCUMULATION; HEALTH HAZARDS; LAND POLLUTION

Eamens, G.J.; Macadam, J.F.; Laing, E.A. 1984 Australian Veterinary Journal 61(7):205-207

Kite, black
MILVUS MIGRANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3585 Eggs	a) 2 b) 5 c) 4 Ingestion	a) Not given b) Not given c) Not given	a) 1.942 ppm b) 1.110 ppm c) 1.400 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain AAS

EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL

Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Kite, red
MILVUS MILVUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3586 Eggs	a) 4 b) 4 c) 2 Ingestion	a) Not given b) Not given c) Not given	a) 2.022 ppm b) 1.271 ppm c) 1.365 ppm Wet wt	a) Collected 1981 b) 1982 c) 1983. Spain AAS
EGGS; ENVIRONMENTAL EXPOSURE; SPAIN; ADULTS; METAL POISONING; DDE; DDD; DDT; DIELDRIN; HEXACHLOROCYCLOHEXANE; HEPTACHLOR EPOXIDE; ALDRIN; POLYCHLORINATED BIPHENYLS; MERCURY; LEAD; CADMIUM; COPPER; ZINC; BIOACCUMULATION; BIOCONCENTRATION; HEALTH HAZARDS; PESTICIDE RESIDUES; BIRDS; TERRESTRIAL Gonzalez, M.J.; Hernandez, L.M.; Rico, M.C.; Baluja, G. 1984 Journal of Environmental Health and Science				

Koala
PHASCOLARCTOS CINEREUS (Goldfuss)

Tissue	Cases Exposure Route	Range	Mean	General Information
3587 Blood, plasma	6	4.9-16.6 mmol/L	9.2+/-2.3 mmol/L	Level considered suboptimal Australia, Victoria, East Gippsland and French Island AAS
3588 Liver	28	Not given	0.25+/-0.08 mmol/kg	Dried liver. Mean age class 3.9+/-0.2 (1 = weanling, 7 = full grown, mature). Levels inversely related to age. Australia, Victoria, East Gippsland and French Island AAS
LIVER; COPPER; MANGANESE; ZINC; COBALT; BLOOD PLASMA; KOALAS; AUSTRALIA; DIETS; TERRESTRIAL; ENVIRONMENTAL EXPOSURE McOrist, S.; Thomas, K.W. 1984 Journal of Wildlife Diseases 20(3):220-225				

Lizard, water
TRITURUS PYRRHOGASTER

Tissue	Cases Exposure Route	Range	Mean	General Information
3589 Kidney	a) 5 b) 5 Injection	a) Not given b) Not given	a) 2.72+/-0.49 ug/g b) 2.88+/-0.70 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Kidney wt 36+/-8-43+/-6 mg ES

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Lizard, water
TRITURUS PYRRHOGASTER

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3590 Liver	a) 5 b) 5 Injection	a) Not given b) Not given	a) 11.0+/-3.1 ug/g b) 4.22+/-2.08 ug/g Wet wt	a) Controls, distilled water (0.1 ml/head), I.M. b) CdCl2, I.M. during 11 d (0.5 mg, 3x and 1.0 mg Cd/kg body wt, 2x), killed 1 d after last injection Liver wt 349+/-108-411+/-80 mg. Significant decrease of hepatic Cu is related to Cu content of metallothionein. ES
AMPHIBIANS; LIVER; KIDNEYS; DELIBERATE EXPOSURE; CADMIUM; COPPER; ZINC; AQUATIC; TERRESTRIAL; IRON; MAGNESIUM; CALCIUM; PHOSPHORUS Suzuki, K.T.; Akitomi, H.; Kawamura, R. 1984 Toxicology Letters 21:179-184				

Mackerel, Atka
PLEUROGRAMMUS MONOPTERYGIUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3591 Muscle	20 Ingestion	Not given	0.643+/-0.173 ug/g Wet wt	Off Kodiak Island, AK. Mean wt 461+/-156 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Mayfly
EPHEMEROPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3592 Body		a) 310-1400 ppm b) 0-310 ppm c) 520-1100 ppm d) 480-2563 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during wet weather c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Minnow, fathead
PIMEPHALES PROMELAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3593 Body, whole		a) Not given b) Not given	a) 0.21+/-0.01 ug/g b) 0.55+/-0.09 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 1.50 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 4.38 ug/L in water. AAS
3594 Gills		a) Not given b) Not given	a) 0.47+/-0.10 ug/g b) 1.66+/-0.17 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 1.50 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 4.38 ug/L in water. AAS
3595 Organs		a) Not given b) Not given	a) 0.75+/-0.04 ug/g b) 1.86+/-0.03 ug/g S.E.	a) From hatchery ponds at US EPA Newtown Fish Toxicology Lab in Newtown, Ohio, 1.50 ug/L in water b) From flyash pond at E.W. Brown Power Plant near Harrodsburg, KY, 4.38 ug/L in water. AAS

BODY; ORGANS; GILLS; CADMIUM; COPPER; ZINC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; METALS; BIOCONCENTRATION; BIOLOGICAL MONITORING; COAL; FOSSIL-FUELED POWER PLANTS; FLY ASH; FISHES; WATER POLLUTION; INDUSTRIAL POLLUTION

Benson, W.H.; Birge, W.J. 1984 Environmental Toxicology and Chemistry 4:209-217

Mollusc sp.
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3596 Body	80	a) Not given b) Not given c) Not given d) Not given	a) 2.6+/-1.2 ug/L b) 2.4+/-0.5 ug/L c) 2.3 +/-0.5 ug/L d) 2.8+/-0.7 ug/L Wet wt	a) Control b) 25 ug/L c) 50 ug/L d) 100 ug/L. 3-wk exposures to sublethal levels. South Africa

MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION

Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:339-343

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Mollusk
PERNA PERNA

Tissue	Cases Exposure Route	Range	Mean	General Information
3597 Body	10	a) Not given b) Not given	a) 0.74 +or- 0.14 ug/g b) 1.79 +or- 0.90 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Mussel
CHOROMYTILUS MERIDIONALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3598 Body	10	a) Not given b) Not given	a) 1.16 +or- 0.12 ug/g b) 1.44 +or- 0.11 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Cape Town, Bloubergstrand AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oldsquaw
CLANGULA HYEMALIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3599 Kidney	7 Ingestion	7.4-24.8 ug/g Dry wt	13.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Chesapeake Bay AAS
3600 Liver	36 Ingestion	3.5-42.0 ug/g Dry wt	20.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Otter
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3601 Intestine	4 Ingestion	Not given	1.4+/-0.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3602 Kidney	4 Ingestion	Not given	2.5+/-0.7 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3603 Liver	4 Ingestion	Not given	5.9+/-0.8 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3604 Muscle	4 Ingestion	Not given	4.2+/-0.6 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Otter, river
LUTRA CANADENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3605 Bone	198	<0.16-5.69 mg/g Dry wt	0.13+or-0.04 mg/g Dry wt	Collected during 1979-80 trapping season Virginia, Tidewater region AAS
3606 Kidney	a) 221 b) 169	a) <0.16-80.15 mg/g b) <0.16-16.13 mg/g Dry wt	a) 6.16 +or- 0.59 mg/g b) 3.22 +or- 0.23 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
3607 Liver	a) 226 b) 131	a) <0.16-211.00 mg/g b) 0.16-52.18 mg/g Dry wt	a) 13.92 +or- 1.48 mg/g b) 9.96 +or- 0.78 mg/g Dry wt	a) 1979-80 b) 1980-81 Collected during trapping seasons Virginia, Tidewater region AAS
OTTERS; CADMIUM; COPPER; LEAD; ZINC; BIOACCUMULATION; WATER POLLUTION; BONES; KIDNEYS; LIVER; VIRGINIA Anderson-Bledsoe, K.L.; Scanlon, P.F. 1983 Bulletin of Environmental Contamination and Toxicology 30:442-447				

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Oyster
CRASSOSTREA MARGARITACEA

Tissue	Cases Exposure Route	Range	Mean	General Information
3608 Body	10	a) Not given b) Not given	a) 1.42 +or- 0.38 ug/g b) 7.36 +or- 3.64 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Oyster, American
CRASSOSTREA VIRGINICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3609 Body	a) 104 b) 129 c) 95 d) 281 e) 376 Ingestion	a) 9.2-143.5 ug/g b) 4.6-56.2 ug/g c) 5.0-51.4 ug/g d) 4.0-56.3 ug/g e) 3.0-69.9 ug/g Wet wt	a) 50.2 ug/g b) 28.8 ug/g c) 28.6 ug/g d) 24.5 ug/g e) 26.5 ug/g Wet wt	a) 1976 b) 1977 c) 1978 d) 1979 e) 1980 Biological monitoring for heavy metals in shellfish 1976-1980. Residues were well below safe levels. No significant yearly trends. Maryland, Chesapeake Bay area, tributaries AAS
CLAMS; BLUE CRABS; SHELLFISH; CHESAPEAKE BAY; MARYLAND; BIOLOGICAL MONITORING; BIOCONCENTRATION; COPPER; ZINC; LEAD; CADMIUM; ARSENIC; MERCURY; CHROMIUM; WATER POLLUTION; FOOD CONTAMINATION; AQUATIC; MOLLUSKS; ENVIRONMENTAL EXPOSURE Eisenberg, M.; Topping, J.J. 1984 Journal of Environmental Science and Health B19(7):649-671				

Oyster, Pacific
CRASSOSTREA GIGAS

Tissue	Cases Exposure Route	Range	Mean	General Information
3610 Body	10	a) Not given b) Not given	a) 11.2 +or- 3.3 ug/g b) 23.3 +or- 3.7 ug/g Wet wt	a) Controls b) 100 ug/l for 3 wk South Africa, Knysna Heads AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; WATER POLLUTION; CADMIUM; CHROMIUM; COBALT; COPPER; LEAD; NICKEL; ZINC; BODY; SOUTH AFRICA Watling, H.R. 1983 Bulletin of Environmental Contamination and Toxicology 30:317-322				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Perch
PERCA FLUVIATILIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3611 Gills	a) 1 b) 5	a) Not applicable b) 5-8 ug/g Dry wt	a) Not detected b) Not given	a) Upstream of metal inflow b) Downstream Range of means from 3 sampling areas downstream Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Tissue	Cases Exposure Route	Range	Mean	General Information
3612 Liver	a) 10 b) 10 c) 10 Ingestion	a) Not given b) Not given c) Not given	a) 6.1+/-0.8 ug/g b) 7.0+/-1.2 ug/g c) 7.4+/-0.4 ug/g Dry wt	a) Controls b) 1:200 diluted effluent c) 1:20 diluted effluent 27 d exposure to heavy metal-containing artificial effluent, designed to simulate effluent of a sulfide ore smelter. No significant uptake. Sweden AAS
LIVER; MUSCLES; FISHES; AQUATIC; DELIBERATE EXPOSURE; SWEDEN; METAL POISONING; ZINC; LEAD; COPPER; CADMIUM; MERCURY; ARSENIC; BIOACCUMULATION; INDUSTRIAL POLLUTION; WATER POLLUTION; ADULTS Larsson, A.; Haux, C.; Sjobeck, M.-L.; Lithner, G. 1984 Ecotoxicology and Environmental Safety 8:118-128				

Tissue	Cases Exposure Route	Range	Mean	General Information
3613 Liver	a) 1 b) 4	a) Not applicable b) 45-129 ug/g Dry wt	a) 34 ug/g b) Not given Dry wt	a) Upstream of metal inflow b) Downstream Range of means from 3 sampling areas downstream Australia, Tasmania, South Esk River AAS
3614 Muscle	a) 8 b) 10	a) 1-32 ug/g b) 1-11 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Pintail
ANAS ACUTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3615 Kidney	5 Ingestion	5.7-22.5 ug/g Dry wt	10.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3616 Liver	24 Ingestion	14.0-509.1 ug/g Dry wt	94.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Pollock, walleye
THERAGRA CHALCOGRAMMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3617 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.303+/-0.095 ug/g b) 0.215+/-0.049 ug/g c) 0.307+/-0.031 ug/g d) 0.028+/-0.007 mg/100 g Wet wt	a) Caught in Bering Sea, AK, 20 fish, mean wt 965+/-352 g b) Shelik of Strait, AK, 10 fish, 1300+/-488 g c) Cape Ommaney, AK, 12 fish, 323+/-223 g. Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Pomfret
BRAMA JAPONICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3618 Muscle	24 Ingestion	Not given	0.325+/-0.085 ug/g Wet wt	Gulf of Alaska. Mean wt 1088+/-162 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Raccoon
PROCYON LOTOR

Tissue	Cases Exposure Route	Range	Mean	General Information
3619 Kidney	4 Ingestion	Not given	3.9+/-1.0 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3620 Liver	4 Ingestion	Not given	4.8+/-1.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
3621 Muscle	4 Ingestion	Not given	2.5+/-0.1 ug/g	Undisturbed watershed. Specimens from fur trapper. Canada, Ontario, Georgian Bay, Tadenac Lake ES
BEAVERS; OTTERS; RACCOONS; CANADA; BIOACCUMULATION; BIOMAGNIFICATION; SELENIUM; IRON; COPPER; CADMIUM; CALCIUM; ALUMINUM; MAGNESIUM; MANGANESE; SODIUM; NICKEL; PHOSPHORUS; ZINC; POTASSIUM; DETOXIFICATION; DIETS; LIVER; KIDNEYS; INTESTINES; MUSCLES; AQUATIC; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; BIOLOGICAL MONITORING Wren, C.D. 1984 Science of the Total Environment 34:177-184				

Roach
RUTILUS RUTILUS L.

Tissue	Cases Exposure Route	Range	Mean	General Information
3622 Gills	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 57.8+/-20.1 ug/g b) 29.3+/-6.6 ug/g c) 5.5+/-3.2 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 Cu mg/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Increased Cu uptake when exposed with Ni. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3623 Kidney	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 16.0+/-5.9 ug/g b) 39.0+/-8.3 ug/g c) 6.0+/-3.1 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3624 Liver	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 13.6+/-3.4 ug/g b) 31.7+/-5.5 ug/g c) 6.9+/-4.0 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Roach
RUTILUS RUTILUS L.

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3625 Muscle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 2.6+/-0.8 ug/g b) 2.2+/-0.4 ug/g c) 0.7+/-0.1 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
3626 Opercle	Ingestion Inhalation	a) Not given b) Not given c) Not given	a) 60.9+/-30.1 ug/g b) 72.7+/-15.3 ug/g c) 12.4+/-6.7 ug/g	a) 100 mg Ni/l+1.0 cu mg/l, mortality within 4 hrs b) 1.2 mg Cu/l, mortality within 12 hrs c) Control from water storage reservoir Fish 10-15 cm long. Lab study investigating fish kills. Belgium, Meuse River, Antwerp AAS
FISHES; BELGIUM; NICKEL; COPPER; CHROMIUM; BIOACCUMULATION; MUSCLES; LIVER; GILLS; KIDNEYS; AQUATIC; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; WATER POLLUTION Van Hoof, F.; Nauwelaers, J.P. 1984 Chemosphere 13(9):1053-1058				

Salmon
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3627 Liver	a) 2 b) 8	a) Not given b) Not given	a) 198 ug/g b) 436 ug/g Dry wt	a) Upstream of metal inflow b) Downstream Data from one sampling area each Australia, Tasmania, South Esk River AAS
3628 Muscle	a) 12 b) 20	a) Not detected-2 ug/g b) 4-5 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 3 and 4 sampling areas, respectively Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Scallop, bay
ARGOPECTEN IRRADIANS

Tissue	Cases Exposure Route	Range	Mean	General Information
3629 Intestine	a) 5 b) 5 c) 5	a) Not given b) Not given c) Not given	a) 26 +or- 3 ug/g b) 87 +or- 27 ug/g c) 303 +or- 81 ug/g Dry wt	a) Controls b) 8 wk in 5 ug/kg seawater c) 8 wk in 10 ug/kg seawater Visceral mass, adults, mean shell length 5.49 cm Rhode Island, Salt Pond AAS
3630 Muscle	a) 5 b) 5 c) 5	a) Not given b) Not given c) Not given	a) 1.79 +or- 0.33 ug/g b) 4.23 +or- 1.64 ug/g c) 7.05 +or- 2.09 ug/g Dry wt	a) Controls b) 8 wk in 5 ug/kg seawater c) 8 wk in 10 ug/kg seawater Adductor muscle, adults, mean shell length 5.49 cm Rhode Island, Salt Pond AAS
MOLLUSKS; BIOACCUMULATION; BIOINDICATORS; COPPER; INTESTINES; MUSCLES; RHODE ISLAND; ADULTS Zaroogian, G.E.; Johnson, M. 1983 Archives of Environmental Contamination and Toxicology 12:127-133				

Scaup, greater
AYTHYA MARILA

Tissue	Cases Exposure Route	Range	Mean	General Information
3631 Kidney	11 Ingestion	5.2-21.5 ug/g Dry wt	13.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
3632 Liver	13 Ingestion	6.9-117.0 ug/g Dry wt	55.0 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Scaup, lesser
AYTHYA AFFINIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3633 Kidney	51 Ingestion	5.0-48.6 ug/g Dry wt	14.8 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Scaup, lesser
AYTHYA AFFINIS

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3634 Liver	64 Ingestion	4.8-154.2 ug/g Dry wt	39.5 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variations. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Scoter, white-winged
MELANITTA FUSCA DEGLANDI

Tissue	Cases Exposure Route	Range	Mean	General Information
3635 Kidney	7 Ingestion	7.4-24.8 ug/g Dry wt	13.8 ug/g Dry wt	80% average recovery, data not corrected for recovery. Data pooled includes oldsquaws. Chesapeake Bay AAS
3636 Liver	57 Ingestion	7.2-134.4 ug/g Dry wt	39.2 ug/g Dry wt	80% average recovery, data not corrected for recovery. Data pooled includes oldsquaws. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Seal, harp
PHOCA GROENLANDICA

Tissue	Cases Exposure Route	Range	Mean	General Information
3637 Blood	144 Ingestion	a) 1.16-5.01 mg/kg b) 0.86-1.12 mg/kg c) 1.0-1.35 mg/kg d) 0.87-1.03 mg/kg e) 1.27-1.69 mg/kg f) 1.36-1.97 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS

(next page)

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Seal, harp
PHOCA GROENLANDICA

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3638 Brain	168 Ingestion	a) 3.80-5.01 mg/kg b) 3.90-6.09 mg/kg c) 3.67-8.47 mg/kg d) 3.90-5.02 mg/kg e) 5.80-8.70 mg/kg f) 5.58-11.3 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS
3639 Kidney	232 Ingestion	a) 5.5-9.03 mg/kg b) 6.72-13.2 mg/kg c) 6.65-7.37 mg/kg d) 4.51-6.73 mg/kg e) 5.51-7.49 mg/kg f) 6.70-7.48 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS
3640 Liver	216 Ingestion	a) 22.1-29.6 mg/kg b) 24.3-26.5 mg/kg c) 14.6-22.7 mg/kg d) 13.9-30.7 mg/kg e) 15.8-21.7 mg/kg f) 11.2-18.2 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS
3641 Muscle	225 Ingestion	a) 1.76-2.44 mg/kg b) 1.84-2.16 mg/kg c) 1.64-1.92 mg/kg d) 1.57-1.73 mg/kg e) 1.98-2.78 mg/kg f) 2.10-3.89 mg/kg Wet wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable	a) Males, Gulf of St. Lawrence b) Females, Gulf of St. Lawrence c) Males, front ice off Newfoundland, Labrador d) Female, front ice off Newfoundland, Labrador e) Males, Grise fiord, Pangnirtung, Greenland f) Females, Grise fiord, Pangnirtung, Greenland Range of means. 1976-78 annual hunt. Statistical analyses included age, sex, site, elements, tissue/organ levels. Canada; Greenland; Northwest Atlantic; Arctic AAS

SEALS; CADMIUM; LEAD; MERCURY; SELENIUM; COPPER; BIOACCUMULATION; BIOLOGICAL MONITORING; CANADA; GREENLAND; BLOOD; KIDNEYS; MUSCLES; LIVER; BRAIN; AGE; ARCTIC; ATLANTIC; SEX; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION

Ronald, K.; Frank, R.J.; Dougan, J.L.; Frank, R.; Braun, H.E. 1984 Science of the Total Environment 38:156-166

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Shad, American

ALOSA SAPIDISSIMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3642 Muscle	13 Ingestion	Not given	0.746+/-0.129 ug/g Wet wt	Near Seaside, OR. Mean wt 1039+/-251 g Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Sheep

OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3643 Blood, plasma	80	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given i) Not given	a) 7.4+/-0.8 umole/L b) 6.9+/-0.7 umole/L c) 6.2+/-1.5 umole/L d) 7.1+/-0.7 umole/L e) 10.4+/-0.6 umole/L f) 14.0+/-1.5 umole/L g) 8.7+/-0.7 umole/L h) 9.9+/-0.6 umole/L i) 5.8+/-0.4 umole/L	a) Untreated controls, d 0, 20 cases b) Day 114, same 20 c) Day 345, 3 cases d) Tracerglass-S pellet by balling gun into reticulorumen, d 0, 30 cases e) Day 114, another pellet at d 84, 26 cases f) Day 345, 17 cases g) CuJec (6.2 mg Cu) injection and Pardevit (Co & Se), oral, d 0, 30 cases h) Day 114, CuJec at d 84 and Pardevit d 114, 26 cases i) Day 345, 11 cases Swaledale ewes. Day 0 pre-tupping and day 114, lambing. Significant differences: e) from b) and h), f) from c) and i). Other data given.
BLOOD PLASMA; TERRESTRIAL; CATTLE; SHEEP; DELIBERATE EXPOSURE; DRUGS; COPPER; TRACE ELEMENTS Telfer, S.B.; Zervas, G.; Carlos, G. 1984 Canadian Journal of Animal Science 64:234-235				

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3644 Blood, plasma	8	a) 11-24 umol/l b) 8-22 umol/l c) 8-18 umol/l d) 8-18 umol/l e) 3-15 umol/l f) 6-15 umol/l g) 4-24 umol/l h) 13-28 umol/l i) 10-13 umol/l	a) 16 umol/l b) 16 umol/l c) 14 umol/l d) 15 umol/l e) 10 umol/l f) 11 umol/l g) 13 umol/l h) 21 umol/l i) 12 umol/l	a) 0 wk b) 6 wk c) 12 wk d) 18 wk e) 24 wk f) 30 wk g) 36 wk h) 43 wk i) 48 wk Seasonal changes during 48 wk trial, animals not given Cu. Drop during winter (24-36 wks) considered due to abomasum damage brought about gastrointestinal parasites. Australia

BLOOD PLASMA; LIVER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; AUSTRALIA; NUTRITIONAL DEFICIENCIES; COPPER; BIOACCUMULATION; DRUGS; DRUG THERAPY

Judson, G.J.; Trengove, C.L.; Langman, M.W.; Vandergraaff, R. 1984 Australian Veterinary Journal 61(2):40-43

Tissue	Cases Exposure Route	Range	Mean	General Information
3645 Bone	a) 8 b) 8 c) 8	a) Not given b) Not given c) Not given	a) 1.80 ug/g b) 0.75 ug/g c) 0.66 ug/g Dry wt +/-0.28 S.E.	Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. Ewes on diets for 1 yr. a) significantly different from b) and c), $p<0.05$. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Hallford, D.M. 1984 Nutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3646 Kidney	a) 3 b) 2 c) 3 d) 2 e) 3 f) 2 Ingestion	a) 27-35 mg/kg b) 45-81 mg/kg c) 33-63 mg/kg d) 42-108 mg/kg e) 18-26 mg/kg f) 56-58 mg/kg Dry wt	a) 31 mg/kg b) 63 mg/kg c) 45 mg/kg d) 75 mg/kg e) 23 mg/kg f) 57 mg/kg Dry wt	a) Merino wethers. 731 mg/kg Zn oxide in feed b) 1431 mg/kg c) Southdown rams. 731 mg/kg Zn oxide in feed d) 1431 mg/kg e) Poll Dorset rams. 731 mg/kg Zn oxide in feed f) 1431 mg/kg Slaughtered after 49 d. Additional data available. Australia

URINE; KIDNEYS; PANCREAS; LIVER; ZINC; COPPER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; TRACE ELEMENTS; DRUGS

Ellis, T.M.; Masters, H.G.; Mayberry, C. 1984 Australian Veterinary Journal 61(9):296-298

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep

OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3647 Kidney	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 12.06 ug/g b) 12.47 ug/g c) 12.41 ug/g Dry wt +/-0.65 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. New Mexico AAS

KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM

Hudgens, R.E.; Hallford, D.M. 1984 Nutrition Reports International 29(1):11-21

Tissue	Cases Exposure Route	Range	Mean	General Information
3648 Liver	a) 6 b) 6	a) 24-98 ug/g b) 366-910 ug/g Wet wt	a) 58+/-24 ug/g b) 591+/-212 ug/g Wet wt	a) Normal controls, postmortem b) Chronic Cu poisoning Relative amounts soluble Cu & Zn-containing proteins were lower in homogenates from b). Oxidation in vivo of metal-binding proteins may cause observed decrease Sweden AAS

LIVER; SHEEP; ENVIRONMENTAL EXPOSURE; COPPER; ZINC

Hussein, K.S.M.; Frank, A.; Jones, B.-E.V.; Edqvist, L.-E. 1984 Acta Pharmacologica et Toxicologica 55:247-251

Tissue	Cases Exposure Route	Range	Mean	General Information
3649 Liver	a) 10 b) 15 c) 8 d) 8 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 1251+/-296 ug/g b) 1159+/-348 ug/g c) 872+/-413 ug/g d) 745+/-334 ug/g Dry wt S.E.	a) 6/81 before treatment with Mo-S b) 8/81 during treatment c) 9/81 during treatment d) 10/81 after treatment Chronic poisoning in flock at Animal Research Centre, diet moderate in Cu, low in Mo and S. Treated with 0.1 g ammonium molybdate and 1 g sodium sulfate/d. Levels decreased throughout study period, but varied greatly at end of study. Dramatic recuction in deaths. Canada, Ottawa Chronic Cu toxicosis Jaundiced conjunctiva and abdominal fat. Decomposition of liver and black kidneys. Hemorrhage into subcutaneous and interstitial tissue of neck and chest, occasionally on intestines and diaphragm. AAS

SHEEP; ACCIDENTAL POISONING; COPPER; DIETS; CANADA; TERRESTRIAL; MOLYBDENUM; LIVER; URINE; AUTOPSIES; ANIMAL FEEDS; ENZYMES; CHELATING AGENTS; DELIBERATE EXPOSURE

Hidiroglou, M.; Heaney, D.P.; Hartin, K.E. 1984 Canadian Veterinary Journal 25:377-382

Copper
7440-50-8
CU
AT[illegible] 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3650 Liver	60 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given	a) 0.91 mmol/kg b) 3.05 mmol/kg c) 3.04 mmol/kg d) 4.59 mmol/kg e) 4.62 mmol/kg Dry wt	a) Controls, 12 cases b) Variable particles, given free, 12 cases c) Variable particles, given in capsule, 12 cases d) Uniform particles, given free, 12 cases e) Uniform particles, given in capsule, 12 cases 4 wk after 2.5 g as oxidised wire particles, loose or encapsulated. Raised liver reserves without risk of toxicity.

LIVER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; NUTRITIONAL DEFICIENCIES; COPPER; BIOACCUMULATION
Judson, G.J.; Brown, T.H.; Gray, D.; Dewey, D.W.; Babidge, P.J. 1984 Australian Veterinary Journal 61(9):294-295

Tissue	Cases Exposure Route	Range	Mean	General Information
3651 Liver	a) 3 b) 3 c) 3 Ingestion	a) 75-1150 ug/g b) 50-1200 ug/g c) 100-1250 ug/g Dry wt	a) Not applicable b) Not applicable c) Not applicable	a) Controls, 50 ug Cu/g feed, peak at 8 wk with liver Cu 470 ug/g at experiment termination (25 wk) b) Tansy ragwort + 50 ug Cu/g feed, peak from 8-14 wk, 590 ug/g at 23 wk c) Tansy ragwort + 50 ug Cu/g feed + 10-50 ug Mo, peak 8-14 wk, 440 ug/g at 23 wk Range of means, estimated from graph. Polypay wether lambs. No significant differences a)-c). Oregon, Corvallis area Anorexia. Lambs fed diets b) and c) died within 23 wk AAS

SHEEP; LIVER; BIOACCUMULATION; COPPER; DIETS; BIOPSIES; AUTOPSIES; TERRESTRIAL; DELIBERATE EXPOSURE
White, D.; Swick, R.A.; Cheeke, P.R. 1984 American Journal of Veterinary Research 45(1):159-161

Tissue	Cases Exposure Route	Range	Mean	General Information
3652 Liver	a) 7 b) 7 c) 7 d) 7 e) 7 f) 7 g) 7 Ingestion Injection	a) 1.1-1.7 mmol/kg b) 1.0-1.4 mmol/kg c) 0.8-1.3 mmol/kg d) 0.9-1.2 mmol/kg e) 0.9-1.2 mmol/kg f) 1.0-1.9 mmol/kg g) 0.8-0.5 mmol/kg Dry wt	a) Not applicable b) Not applicable c) Not applicable d) Not applicable e) Not applicable f) Not applicable g) Not applicable	a) 0-80 wk, peak (7.7 mmol/kg) 18 wk after 3 g as oxidised wire b) 0-48 wk, peak (1.5 mmol/kg) 18 wk after 18 mg SC as diethylamino cupro-oxyquinoline sulponate (Cujec) c) 0-48 wk, peak (1.3 mmol/kg) 48 wk after 18 mg SC Cujec given at 30 wk d) 0-48 wk, plateau after 150 mg as Cu-sulphate e) 0-48 wks, plateau after 150 mg as Cu-sulphate given at 30 wk f) 0-48 wk, peak (1.9 mmol/kg) 48 wk after 30 mg as Cu-oxychloride g) 0-80 wk, controls Wire particles safely elevate liver stores. Australia

BLOOD PLASMA; LIVER; SHEEP; TERRESTRIAL; DELIBERATE EXPOSURE; AUSTRALIA; NUTRITIONAL DEFICIENCIES; COPPER; BIOACCUMULATION; DRUGS; DRUG THERAPY
Judson, G.J.; Trengove, C.L.; Langman, M.W.; Vandergraaff, R. 1984 Australian Veterinary Journal 61(2):40-43

Copper

7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sheep
OVIS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3653 Liver	a) 8 b) 8 c) 8 Ingestion	a) Not given b) Not given c) Not given	a) 201.31 ug/g b) 252.12 ug/g c) 189.50 ug/g Dry wt +/-20.74 S.E.	a) Lambs from ewes on basal diet fortified with cottonseed meal b) Lambs from ewes on basal diet plus 7% undigested sewage solids c) Lambs from ewes on basal diet. a) significantly different from b), $p > 0.10$. New Mexico AAS
KIDNEYS; LIVER; BONES; SHEEP; TERRESTRIAL; ENVIRONMENTAL EXPOSURE; DELIBERATE EXPOSURE; NEW MEXICO; CADMIUM; CHROMIUM; COPPER; IRON; MERCURY; NICKEL; LEAD; ZINC; METALS; ANIMAL FEEDS; AGRICULTURE; BIOACCUMULATION; BIOLOGICAL MONITORING; FARMS; FOOD CONTAMINATION; LAND POLLUTION; SEWAGE; CALCIUM; BLOOD SERUM; MAGNESIUM; POTASSIUM; PHOSPHORUS; SODIUM Hudgens, R.E.; Hallford, D.M. 1984 Nutrition Reports International 29(1):11-21				

Tissue	Cases Exposure Route	Range	Mean	General Information
3654 Urine	6 Ingestion	a) 80-190 meq b) 1000-2190 meq c) 320-2140 meq	a) Not applicable b) Not applicable c) Not applicable	a) Excretion before penicillamine treatment b) During treatment, peak d 6 c) After treatment, peak d 11 Chronic poisoning in flock at Animal Research Centre, diet moderate in Cu, low in Mo and S. Range of means estimated from graph. 50.0 mg penicillamine/kg body wt/d. Enhanced excretion by 10X within 24 hr. Canada, Ottawa Chronic Cu toxicosis Jaundiced conjunctiva and abdominal fat. Decomposition of liver and black kidneys. Hemorrhage into subcutaneous and interstitial tissue of neck and chest, occasionally on intestines and diaphragm. AAS
SHEEP; ACCIDENTAL POISONING; COPPER; DIETS; CANADA; TERRESTRIAL; MOLYBDENUM; LIVER; URINE; AUTOPSIES; ANIMAL FEEDS; ENZYMES; CHELATING AGENTS; DELIBERATE EXPOSURE Hidiroglou, M.; Heaney, D.P.; Hartin, K.E. 1984 Canadian Veterinary Journal 25:377-382				

Shell, wedge
DONAX SERRA

Tissue	Cases Exposure Route	Range	Mean	General Information
3655 Body		a) Not given b) Not given c) Not given d) Not given	a) 1.1+/-0.3 ug/g b) 5.7+/-1.1 ug/g c) 7.8+/-1.3 ug/g d) 17.0+/-3.8 ug/g Wet wt	a) Control b) 100 ug/L c) 250 ug/L d) 500 ug/L. 3-wk exposures to sublethal levels. South Africa
MOLLUSKS; AQUATIC; BODY; MANTLE; GILLS; DIGESTIVE GLAND; SYPHON; MUSCLES; GONADS; FOOT; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; ZINC; CADMIUM; COPPER; LEAD; NICKEL; COBALT; CHROMIUM; METALS; BIOINDICATORS; BIOACCUMULATION; BIOLOGICAL MONITORING; WATER POLLUTION Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:339-343				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Silkworm
BOMBYX MORI

Tissue	Cases Exposure Route	Range	Mean	General Information
3656 Alimentary canal	Ingestion	a) Not given b) Not given	a) 18.5+/-4.3 ug/g b) 25.1+/-3.6 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3657 Fat body	Ingestion	a) Not given b) Not given	a) 1.98+/-0.40 ug/g b) 2.75+/-1.60 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3658 Gonads	Ingestion	a) Not given b) Not given	a) 12.6 ug/g b) 12.3 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3659 Head	Ingestion	a) Not given b) Not given	a) 9.82+/-0.49 ug/g b) 14.4+/-5.2 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3660 Integument	Ingestion	a) Not given b) Not given	a) 9.36+/-1.48 ug/g b) 11.1+/-6.5 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3661 Malpighian tubes	Ingestion	a) Not given b) Not given	a) 11.9+/-1.5 ug/g b) 9.39+/-0.15 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS

(next page)

Copper
7440 50-8
Cu
AtW 63.546 MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Silkworm
BOMBYX MORI

(continued)

Tissue	Cases Exposure Route	Range	Mean	General Information
3662 Silk gland	Ingestion	a) Not given b) Not given	a) 1.96+/-1.35 ug/g b) 2.20+/-0.98 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
3663 Trachea	Ingestion	a) Not given b) Not given	a) 9.20+/-0.12 ug/g b) 4.48+/-0.69 ug/g Dry wt	a) Controls b) Treatment Larvae fed artificial diet containing none (controls), or 5 and 80 ug/ Cd/g wet diet from hatching to 4th instar and then for 5 d at 5th instar, respectively. Japan AAS
SILK GLAND; HEAD; TRACHEA; MALPIGHIAN TUBES; GASTROINTESTINAL TRACT; GONADS; FAT BODY; INTEGUMENT; DELIBERATE EXPOSURE; SILKWORMS; TERRESTRIAL; JAPAN; METAL POISONING; METALS; CADMIUM; ZINC; COPPER; CALCIUM; IRON; MAGNESIUM; MANGANESE; ALUMINUM; SODIUM; POTASSIUM; BIOACCUMULATION Suzuki, K.T.; Aoki, Y.; Nishikawa, M.; Masui, H.; Matsubara, F. 1984 Comparative Biochemistry and Physiology 79C(2):249-253				

Snail
BULLIA RHODOSTOMA

Tissue	Cases Exposure Route	Range	Mean	General Information
3664 Body	757	0.90-4.42 ug/g Wet wt	Not applicable	Collected 8/78-8/79 for national marine pollution monitoring program. Range of means. South Africa
BODY; AQUATIC; ENVIRONMENTAL EXPOSURE; SOUTH AFRICA; METALS; ZINC; CADMIUM; COPPER; LEAD; IRON; MANGANESE; NICKEL; COBALT; CHROMIUM; BIOINDICATORS; BIOLOGICAL MONITORING; BIOACCUMULATION; WATER POLLUTION; MOLLUSKS Watling, H.R.; Watling, R.J. 1983 Bulletin of Environmental Contamination and Toxicology 31:331-336				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Snail, apple
POMACEA PALUDOSA

Tissue	Cases Exposure Route	Range	Mean	General Information
3665 Body		a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.2 ug/g b) 3.8 ug/g c) 3.3 ug/g d) 49.5 ug/g e) 7.4 ug/g f) 41.9 ug/g	a) Control with food b) Control without food c) Canal-derived, Cu-contaminated detritus with food d) Canal- derived, Cu-contaminated detritus without food e) Cu-treated hydrilla with food f) Cu-treated hydrilla without food a-f) Tank study, hydrilla treated with 15:1 gal Komeen:Diquat/acre. c and e) significantly lower than d and f). Field study showed no significant differences in survival of adults and juveniles after application with 6:2 gal Cutrine-plus:Diquat/acre. Florida, Loxahatchee National Wildlife Refuge 96-hr LC50 values of Cutrine-plus and Komeen for immature snails were 22 and 24 ug/l, respectively. Copper-contaminated detritus had no effect on growth or survival in tank and field studies. Induced plasma emission

BODY; DELIBERATE EXPOSURE; ENVIRONMENTAL EXPOSURE; FLORIDA; COPPER; DIQUAT; HERBICIDE; PESTICIDE RESIDUES; VEGETATION; WATER POLLUTION; ANIMAL POPULATIONS

Winger, P.V.; Imlay, M.J.; McMillan, W.E.; Martin, T.W.; Takekawa, J.; Johnson, W.W. 1984 Environmental Toxicology and Chemistry 3(3):409-424

Snail, saltwater
NUCELLA LAPILLUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3666 Body	40 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 32.6+/-6.6 ppm b) 37.8+/-9.6 ppm c) 85.0+/-19.2 ppm d) 34.4+/-9.8 ppm e) 105.2+/-30.9 ppm f) 80.6+/-6.4 ppm	a) Eastport, ME, large embayment b) Pemaquid Pt., ME, exposed coastal c) New Harbor, ME, close to marina and harbors, sheltered harbor d) Manomet, MA, large embayment e) Pt. Judith, RI, industrial effluents, marinas, coastal f) Avery Pt., CT, industrial and sewage effluents, marinas, river mouth. Pseudohermaphrodites (females with penis) common at c), e), f), polluted boating areas (94-100% frequency). Relatively unpolluted areas, no abnormalities a), b), d). Elevated levels of Cu associated with frequency of pseudohermaphrodite "imposex". Maine; Massachusetts; Rhode Island; Connecticut AAS

SNAILS; BODY; CADMIUM; ZINC; COPPER; CHROMIUM; IRON; AQUATIC; WATER POLLUTION; POPULATION EXPOSURE; SEX; MAINE; RHODE ISLAND; MASSACHUSETTS; CONNECTICUT; ENVIRONMENTAL EXPOSURE

Miller, E.R.; Pondick, J.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:612-620

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Sole, Dover

MICROSTOMUS PACIFICUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3667 Muscle	Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 0.160+/-0.072 ug/g b) 0.190+/-0.041 ug/g c) 0.184+/-0.052 ug/g d) 0.017+/-0.006 mg/100 g Wet wt	a) Caught near Newport, OR, 29 fish, mean wt 660+/-326 g b) Cape Ommaney, AK, 11 fish, 506+/-214 g c) Santa Cruz, CA, 10 fish, 212+/-68 g d) Overall mean, combined sites. Site variations in levels. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Stonefly

PLECOPTERA

Tissue	Cases Exposure Route	Range	Mean	General Information
3668 Body		a) 500-720 ppm b) 720-1440 ppm c) 1500-1950 ppm d) 450-1750 ppm	a) Not given b) Not given c) Not given d) Not given	a) Controls during dry weather b) Controls during rain, only c) Station 2, which drains half of business district, during wet weather d) Station 3, which receives total cumulative runoff load from the city, during dry weather Additional data for Station 1, a control with an artificial substrate, and three weather regimes: dry, rain and snow/thaw (wet= rain and snow/thaw) Estimated from graph Massachusetts, Greenfield, Green River AAS
URBAN AREAS; WATER POLLUTION; BIOINDICATORS; COPPER; CADMIUM; ZINC; LEAD; INSECTS; AQUATIC; BENTHOS; BODY; MASSACHUSETTS; ENVIRONMENTAL EXPOSURE Medeiros, C.; LeBlanc, R.; Coler, R.A. 1983 Environmental Toxicology and Chemistry 2:119-126				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3669 Blood, plasma	12 Ingestion	a) 186.8+/-27.6-224.0+/-7.1 ug b) 177.0+/-11.1-247.3+/-22.5 ug c) 53.0+/-9.1-189.5+/-87.7 ug d) 43.8+/-8.4-199.6+/-11.3 ug /dl S.E.	a) Not given b) Not given c) Not given d) Not given	a) 6 sows (controls) 86 d pregnancy-14 d lactation, fed semi-purified diet with 63 mg/kg Zn, 2 kg/d during pregnancy, ad libitum during lactation b) 6 sows (low Zn), 13 mg/kg Zn, same regime c) Piglets of control sows, birth-14 d d) Piglets of low Zn sows, birth-14 d Purebred Landrace sows, 29-41 mo old, multipara, wt 198-267 kg. Farrowing induced d 114. No wt difference between controls and low Zn sows. No differences in levels between controls and others. Tendency toward lower Cu with advancing pregnancy. Ranges of means. AAS

BLOOD PLASMA; MILK; TERRESTRIAL; DELIBERATE EXPOSURE; ADULTS; NEWBORN; ZINC; COPPER; IRON; AMMONIA; ANIMAL FEEDS; DIETS; LACTATION; PREGNANCY

Kalinowski, J.; Chavez, E.R. 1984 Canadian Journal of Animal Science 64:749-758

Tissue	Cases Exposure Route	Range	Mean	General Information
3670 Kidney	a) 12 b) 12 c) 12 d) 12 e) 12 f) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 32.0 ppm b) 29.0 ppm c) 28.7 ppm d) 38.5 ppm e) 40.1 ppm f) 44.4 ppm Dry wt	a) 7.5 ppm b) 15 ppm c) 30 ppm d) 60 ppm e) 120 ppm f) 240 ppm Dietary levels till slaughter at 91 kg body wt Weanling, crossbred pigs, mean pre-treatment wt 12.1 kg No effects on weight gain. AAS
3671 Liver	a) 12 b) 12 c) 12 d) 12 e) 12 f) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 3.03 ppm b) 2.95 ppm c) 3.22 ppm d) 3.39 ppm e) 4.57 ppm f) 5.94 ppm Dry wt	a) 7.5 ppm b) 15 ppm c) 30 ppm d) 60 ppm e) 120 ppm f) 240 ppm Dietary levels till slaughter at 91 kg body wt Weanling, crossbred pigs, mean pre-treatment wt 12.1 kg No effects on weight gain. AAS

SWINE; JUVENILES; MARYLAND; KIDNEYS; LIVER; MUSCLES; COPPER; IRON; BIOACCUMULATION; DIETS

Bradley, B.D.; Graber, G.; Condon, R.J.; Frobish, L.T. 1988 Journal of Animal Science 56(3):625-630

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Swine

SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3672 Milk	12 Ingestion	a) Not given b) Not given c) Not given d) Not given	a) 4.07+/-0.53 ug b) 4.10+/-0.91 ug c) 1.71+/-0.14ug d) 1.41+/-0.09 ug /dl S.E.	a) Colostrum from first nursing, 6 sows (controls) fed semi-purified diet with 63 mg/kg Zn b) Colostrum, 6 sows 13 mg/kg Zn (low Zn) c) Milk, 5-7 d after farrowing, controls d) Milk, 5-7 d after farrowing, low Zn No significant difference $p>0.05$. Purebred Landrace sows, 29-41 mo old, multipara. Protein content also measured. AAS

BLOOD PLASMA; MILK; TERRESTRIAL; DELIBERATE EXPOSURE; ADULTS; NEWBORN; ZINC; COPPER; IRON; AMMONIA; ANIMAL FEEDS; DIETS; LACTATION; PREGNANCY

Kalinowski, J.; Chavez, E.R. 1984 Canadian Journal of Animal Science 64:749-758

Tissue	Cases Exposure Route	Range	Mean	General Information
3673 Milk	60 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given g) Not given h) Not given	a) 3.83 ug/ml b) 2.73 ug/ml c) 3.04 ug/ml d) 0.40 ug/ml e) 1.27 ug/ml f) 1.17 ug/ml g) 1.09 ug/ml h) 0.21 ug/ml	a) Colostrum, no dietary supplement b) Colostrum, 50 ppm Zn c) Colostrum, 500 ppm Zn d) Colostrum, 5000 ppm Zn e) After 3 wk of lactation, no dietary supplement f) After 3 wk of lactation, 50 ppm Zn g) After 3 wk of lactation, 500 ppm Zn h) After 3 wk of lactation, 5000 ppm Zn Crossbred and pure Yorkshire gilts, mean pretreatment wt 30 kg AAS

SWINE; COLOSTRUM; MILK; CALCIUM; COPPER; IRON; MAGNESIUM; MINERALS; PHOSPHORUS; ZINC; ANIMAL FEEDS; DIETS; LACTATION

Hill, G.M.; Miller, E.R.; Ku, P.K. 1983 Journal of Animal Science 57(1):123-129

Tissue	Cases Exposure Route	Range	Mean	General Information
3674 Muscle	a) 12 b) 12 c) 12 d) 12 e) 12 f) 12 Ingestion	a) Not given b) Not given c) Not given d) Not given e) Not given f) Not given	a) 1.92 ppm b) 1.77 ppm c) 1.72 ppm d) 1.75 ppm e) 1.71 ppm f) 1.73 ppm Dry wt	a) 7.5 ppm b) 15 ppm c) 30 ppm d) 60 ppm e) 120 ppm f) 240 ppm Dietary levels till slaughter at 91 kg body wt Weanling, crossbred pigs, mean pre-treatment wt 12.1 kg No effects on weight gain. AAS

SWINE; JUVENILES; MARYLAND; KIDNEYS; LIVER; MUSCLES; COPPER; IRON; BIOACCUMULATION; DIETS

Bradley, B.D.; Graber, G.; Condon, R.J.; Frobish, L.T. 1983 Journal of Animal Science 56(3):625-630

Copper

7440-50-8

Cu

AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Teal, green-winged
ANAS CRECCA CAROLINENSIS

Tissue	Cases Exposure Route	Range	Mean	General Information
3675 Liver	16 Ingestion	9.1-108.6 ug/g Dry wt	37.4 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Tench
TINCA TINCA

Tissue	Cases Exposure Route	Range	Mean	General Information
3676 Gills	a) 4 b) 9	a) 3-4 ug/g b) 10-11 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
3677 Liver	a) 3 b) 5	a) Not given b) 138-276 ug/g Dry wt	a) 30 ug/g b) Not given Dry wt	a) Upstream of metal inflow b) Downstream Data, mean and range of means from 1 and 2 sampling areas, respectively Australia, Tasmania, South Esk River AAS
3678 Muscle	a) 4 b) 9	a) Not detectable-2 ug/g b) 4-9 ug/g Dry wt	a) Not given b) Not given	a) Upstream of metal inflow b) Downstream Ranges of means from 2 sampling areas each Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Trout, brown
SALMO TRUTTA

Tissue	Cases Exposure Route	Range	Mean	General Information
3679 Gills	a) 2 b) 8	a) Not given b) Not given	a) 7 ug/g b) 7 ug/g Dry wt	a) Upstream of metal inflow b) Downstream Data from one sampling area each Australia, Tasmania, South Esk River AAS
GILLS; MUSCLES; LIVER; FISHES; AUSTRALIA; CADMIUM; ZINC; COPPER; METALS; WATER POLLUTION; TASMANIA; AQUATIC; ENVIRONMENTAL EXPOSURE Norris, R.H.; Lake, P.S. 1984 Bulletin of Environmental Contamination and Toxicology 33:348-354				

Copper
7440-50-8
Cu
AtW 63.546, MP 1083 C, BP 2595 C, VP 1 mm Hg at 1628 C, 10 mm Hg at 1870 C

Whiting, Pacific
MERLUCCIUS PRODUCTUS

Tissue	Cases Exposure Route	Range	Mean	General Information
3680 Muscle	a) 20 b) 32 Ingestion	a) Not given b) Not given	a) 0.275+/-0.084 ug/g b) 0.226+/-0.046 ug/g Wet wt	a) Near Astoria, OR, mean wt 873+/-246 g b) Refrigerated 2 d in seawater, Astoria, OR, 937+/-227 g. Interspecies variations among 7 species studied. Pacific Ocean ES
FISHES; BIOLOGICAL MONITORING; PACIFIC OCEAN; ALUMINUM; BARIUM; CALCIUM; CHROMIUM; COPPER; IRON; MERCURY; POTASSIUM; LITHIUM; MAGNESIUM; MANGANESE; SODIUM; PHOSPHORUS; STRONTIUM; ZINC; AQUATIC; ENVIRONMENTAL EXPOSURE; WATER POLLUTION; FOOD CONTAMINATION; MUSCLES Teeny, F.M.; Gauglitz, E.J., Jr.; Hall, A.S.; Houle, C.R. 1984 Journal of Agricultural and Food Chemistry 32:852-855				

Wigeon, American
ANAS AMERICANA

Tissue	Cases Exposure Route	Range	Mean	General Information
3681 Kidney	14 Ingestion	6.8-94.1 ug/g Dry wt	20.3 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
3682 Liver	37 Ingestion	10.8-543.8 ug/g Dry wt	97.1 ug/g Dry wt	Collected winters of 1976-77, 1979-80. Extensive interspecies variation. Chesapeake Bay AAS
AQUATIC; CADMIUM; LEAD; COPPER; ZINC; LIVER; KIDNEYS; BONES; BIOLOGICAL MONITORING; UNITED STATES; BIOACCUMULATION; BIRDS; TERRESTRIAL; WATERFOWL; DUCKS; ENVIRONMENTAL EXPOSURE; DIETS; METALS Giulio, R.T.; Scanlon, P.F. 1984 Environmental Pollution (Series A) 35:29-48				

Cortisol (8 CI); Pregn-4-ene-3,20-dione, 11,17,21-trihydroxy-, (11beta)- (9 CI)
8056-08-4
C21-H30-O5
MW 362.47, MP 217-220 C, commercial samples 212-213 C

Swine
SUS sp.

Tissue	Cases Exposure Route	Range	Mean	General Information
3683 Blood				Review. Clinical applications of prostaglandins. Chemistry, physiologic effects, endrocrinology, reproduction management, therapeutic uses, side effects discussed.
BLOOD; SWINE; TERRESTRIAL; REVIEW; HORMONES; DRUGS; DRUG THERAPY; BIOACCUMULATION; PREGNANCY Dial, G.D. 1984 Journal of American Veterinary Medical Association 185(12):1523-1530				

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16. Abstract (Limit: 200 words)

The database provides a central source of systematically collected and organized body-burden data that facilitates the early identification of actual or potential human exposure to environmental contaminants and the assessment of the significance of such exposure. Data included are obtained through routine manual searches of selected scientific journals, augmented by computer searches.

The database, which includes the separately published files, Chemicals Identified in Human Biological Media and Chemicals Identified in Feral and Food Animals, contains information on more than 1600 chemicals. The database is used in exposure, hazard and risk assessment; identifying potential human and environmental health problems including sources of contamination; planning research and comparing results; and in teaching at medical and public health schools.

The database is under the aegis of the Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute (NCI), and is maintained by the Health and Environmental Information Section, Science Applications International Corporation under the direction of the Exposure Evaluation Division, U.S. Environmental Protection Agency (EPA). Funding is provided through interagency agreements involving NCI, EPA, and the U.S. Department of Energy.

17. Document Analysis a. Descriptors

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Animal tissues/body fluids
Residues

b. Identifiers/Open-Ended Terms

c. COSATI Field/Group

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