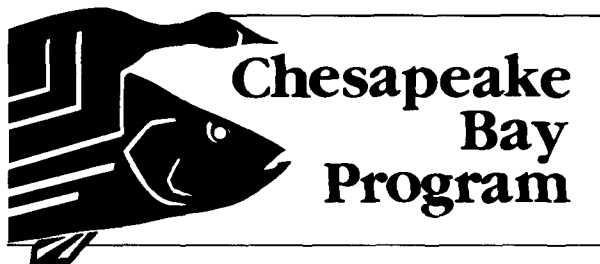


August 1988

Pesticide Use in The Chesapeake Bay Basin

U.S. Environmental Protection Agency
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PESTICIDE USE IN THE CHESAPEAKE BAY BASIN

by

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DISCLAIMER

This report has been reviewed by the Nonpoint Source Subcommittee, the Living Resources Subcommittee and Water Quality Commitment Team of the Chesapeake Bay Implementation Committee and approved for publication by the Chesapeake Bay Program, U.S. Environmental Protection Agency. Approval does not signify that the contents necessarily reflect the view and policies of the U.S. Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

PESTICIDE USE IN THE CHESAPEAKE BAY BASIN

INTRODUCTION

This report lists the pesticides which have been selected for further study because of their significant use in the Chesapeake Bay Basin. It was developed for the pesticides section, to be included in a nonpoint source component of the Chesapeake Bay Agreement Toxics Strategy. The report will serve as a basis for Nonpoint Source and Living Resources Subcommittee reviews of the pesticides as they relate to the toxics strategy.

This study also will support the microlayer sampling effort by providing target dates for sampling to match peak periods of pesticide use. In addition, it may be helpful to States developing monitoring programs that include pesticide sampling. For both these efforts, the report provides information useful in identifying key sample locations and sample retrieval times.

Since pesticide manufacturers are potential point sources of chemical entry to the Bay, EPA's Office of Water Regulations and Standards was asked to list manufacturers in the Basin. The one manufacturer identified was FMC Corporation, of Baltimore, Maryland, which produces PERMETHRIN, CYPERMETHRIN and other pesticide active ingredients. FMC is a source of effluent discharge and has potential for accidental leaks or spills. FMC, therefore, might be given attention in preparing monitoring plans. State regulatory enforcement programs might also be contacted concerning activities involving manufacturers.

Certain pesticides have a short half-life, but are significant because of their toxicity. Synthetic pyrethroids such as PERMETHRIN and CYPERMETHRIN are in this category. They are acutely toxic to invertebrates and fish (at the parts per trillion level). If they come in contact with neustonic species, the impact of synthetic pyrethroids on living resources in the Bay could be significant. These pesticides have long been used on agricultural crops. Because of the recent EPA's termination of the sale, distribution and commercial use of CHLORDANE and HEPTACHLOR, PERMETHRIN and CYPERMETHRIN are being used as as preconstruction termiticides (see Attachment 1).

The physical properties of pesticides provide insight to their environmental fate and runoff potential. This report describes the physical properties of a dozen pesticides that have been selected for further study: DIAZINON, CARBARYL, CARBOFURAN, ALACHLOR, METOLACHLOR, ATRAZINE, SIMAZINE, CYANAZINE, 2,4-D, LINURON, TRIFLURALIN, and PARAQUAT.

Applications of Agricultural pesticides generally are heaviest during the spring growing season. In the Basin, this application normally takes place during the first two weeks of May (see Attachment 2).

Integrated Pest Management (IPM) practices have been shown to optimize the use of pesticides while reducing the number of applications needed by at least one per growing season. A project done under the Pennsylvania Chesapeake Bay implementation grant in Lebanon County found farmers reported savings on their pesticides bill of up to \$500 due to site-specific technical recommendations resulting in use of correct herbicide for each weed problem.

Information on toxicity of pesticides and their degradates is presented in the publication, Acute Toxicity Handbook of Chemicals to Estuarine Organisms, prepared by the EPA Environmental Research Laboratory, Gulf Breeze, Florida, 1987. Additional information on the toxicity of pesticides and their effects on fish can be found in the publication, Toxicity of Pesticides to Fish, CRC Press, Inc., Volume I, A.S. Murty, 1986.

PESTICIDE USE

Data on pesticide use in the drainage basin was obtained from the U.S. Environmental Protection Agency's Office of Pesticide Programs, (OPP) (see Attachment 3). OPP receives and maintains data on use patterns of pesticides from a variety of sources. Data used in this report were taken from U.S. Census of Agriculture Reports, the Doanne Marketing Reporter, and farmer surveys. A proportioning scheme was used in estimating pesticide use on a county and state basis.

PESTICIDES SELECTED FOR STUDY

The OPP pesticide use data base was referenced to select compounds for further study. OPP information was compiled primarily based on potential for leaching to ground water. Also used as data sources were the Pennsylvania Department of Agriculture's report on Pesticide Use in the Susquehanna River Basin, 1986, and the Maryland Department of Agriculture's report on Maryland Pesticide Statistics, 1985. The s-triazines, SIMAZINE and CYANAZINE, were included because they are similar to ATRAZINE and collectively the S-triazines could have significant impact. DIAZINON was selected because it is used in both urban and agricultural areas. LINURON, though not listed by OPP, was included because it was widely used in Maryland, according to Maryland Pesticide Statistics. Two other pesticides, BUTYLATE and METRIBUZIN, are widely used in the Basin, according to OPP, but to a lesser degree than those previously mentioned.

Maximum Contamination Levels (MCL) for pesticides in drinking water are available in draft for several chemicals (see Attachment 4). Also, in Attachment 4 is a listing of pesticides for which EPA is developing water quality criteria or water quality health advisories.

PESTICIDE APPLICATION DATES AND REGIONAL USE PATTERNS

The heaviest pesticide use in Pennsylvania, Virginia, Maryland and Delaware occurs during the first and second weeks of May when the compounds are applied on crops such as corn and soybeans. However, pesticides also are used at other times of the year on fruits, vegetables, turf, highway rights-

of-way, forests, lawns, gardens, for pretreatment of construction for termite control, and indoors.

There is regional variability in pesticide application practices, relating to land use, population density, and climate. The Pennsylvania Department of Agriculture, the Virginia Department of Agriculture and Consumer Services, the Maryland Department of Agriculture, and the Maryland Cooperative Extension Service assisted in identifying regionally specific windows of time for when pesticide use takes place. For information on regional pesticide use patterns see Attachment 2.

PHYSICAL PROPERTIES OF SELECTED PESTICIDES

Physical properties of selected pesticides are displayed in Table 1 (see Attachment 5). Properties described in the table include water solubility, vapor pressure, normalized sorption coefficient, octanol-water partition coefficient, half-life in soils (under aerobic conditions), and degradation paths and products. This information may be useful for determining the potential fate and transport of the pesticides selected for study.

The information on physical properties was obtained from EPA files, the literature, and NOAA's Office of Oceanography and Marine Assessment, Ocean Assessments Division.

PESTICIDE SAMPLING

The states and EPA may want to incorporate pesticide sampling in ongoing sampling strategies. The Chesapeake Bay Liaison Office currently has a contract for pesticide sampling of the surface microlayer. Sampling of the water column and sediments may complement this effort.

Pesticide sampling strategies can be set up to include the collection of samples during periods of abundant pesticide applications. Samples may also be retrieved during unique biological events such as spawning of sensitive Bay resources. When possible, samples should be taken at locations and during the time of specific events, such as:

- o spawning of neustonic species such as the Bay anchovy (*Anchoa mitchilli*) and hog choker (*Trinectes maculatus*)
- o juvenile striped bass (*Morone saxilis*)
- o larval stage development of oyster (*Crassostrea virginical*)
- o post-larval stage development of blue crab (*Callinectes sapidus*)
- o areas of submerged aquatic vegetation beds
- o and, sites near other sensitive living resources in the estuary

Pesticides may inhibit the establishment of sensitive living resources in given areas. Therefore, it may be appropriate to take samples at

locations having significant potential for pesticides in runoff, such as:

- o outfall sites of pesticide producing establishments
- o locations near areas of high-volume pesticide applications
- o locations with significant use of synthetic pyrethroids or other pesticides known to be highly toxic to invertebrates and fish.

INTEGRATED PEST MANAGEMENT

Another possible initiative for consideration may involve nonpoint source (NPS) management of pesticides. This effort would require each of the States, if they do not already have one, to develop a pesticides best management practice (BMP). The Soil Conservation Service is in the process of developing national standards and guidelines for a pesticide management specification for use in the States.

One example of where seed money was provided for a program to reduce pesticide applications is that of Pennsylvania's implementation grant project in Lebanon County. This project used a Crop Management Association to provide farmers with site specific recommendations on insecticide, herbicide and fertilizer needed on farms. According to the Lebanon County Conservation District this program was successful in reducing the amount of pesticides applied on participating farms by at least one spraying in the 1986 growing season.

There appears to be a logical progression already established in the BMP nutrients reduction program from which pesticide management follows. Reduced pesticide use can provide the farmer with economic advantages similar to those being provided through the nutrients reduction program. Thus, pesticide management may readily be accepted as another part of the whole farm plan. Integrated Pest Management (IPM) optimizes the use of pesticides and is based on timely pest and crop management decision. Therefore, pesticides are applied by first determining their specific need and expected results. This is a practice that is not widely known about, but if carried out by the Chesapeake Bay nonpoint source implementation grant program, may serve to be one of the greatest means of reducing pesticide use in the basin.

TOXICITY OF SELECTED PESTICIDES

The toxicity of pesticides and their degradates is discussed in the publication, Acute Toxicity Handbook of Chemicals to Estuarine Organisms, 1987. This EPA document was prepared by the Environmental Research Laboratory in Gulf Breeze, Florida. Refer to the document for detailed toxicity information relevant to several living resources in the Bay.

Synthetic pyrethroid pesticides have been found to be highly toxic (at parts per billion and below) to estuarine organisms (see Attachment 1). These chemicals are manufactured locally by FMC Corporation, Baltimore, Maryland, and are applied on agricultural crops and fruits in the Basin. Synthetic pyrethroids also may be used more frequently in the future as termiticides.

They are among the possible replacement chemicals for CHLORDANE and HEPTACHLOR.

A review of the literature relevant to synthetic pyrethroids indicates they may be identified as a potential source of pollution to living resources in the Bay. The EPA has restricted use of these compounds based on their acute toxicity to invertebrates and fish.

For reference purposes, a complete list of pesticides classified for restricted use is provided in Attachment 6. Of the dozen pesticides selected for study, CYANAZINE, SIMAZINE, PARAQUAT and CARBOFURAN are classified by EPA for restricted use. It also may be useful to note that s-triazines are of concern because of ground water contamination and LINURON is now under OPP special review.

DISCUSSION

Pesticide Information

Additional information useful for assessing pesticide use estimates is available from a joint EPA/NOAA project, "Pesticides to Estuaries." Some state and county level personnel in the Cooperative Extension Services also may have information on pesticide use estimates. In the national survey of pesticides in ground water, county extension agents are being interviewed on local agricultural practices. They may assist to accurately show pesticide use. The Extension Service may also be an important source of information on application dates. To develop a data base for the types and amounts of pesticides used in the drainage basin, a survey form could be sent to State Extension Services for distribution to counties as a cooperative effort.

It may also be determined that the list of pesticides should be broadened to include other important compounds. Thus, information concerning physical properties for additional pesticides may be desirable.

Pesticides Modeling

Sources of information described in this report may be useful for data analysis or modeling purposes. In addition to the CREAMS and other EPA models already available to the Chesapeake Bay Liaison Office, OPP has provided the PCSWRRB and PCPUNOFF (still under review) models for our use.

Pesticides Sampling

Routine pesticide sampling is an item that the Monitoring Subcommittee should address. Each State may want to set up a pesticides sampling strategy that complements on-going CBLO pesticide efforts. States could then conduct spring sampling linked with periods of regionally specific pesticide application practices.

The microlayer study will identify spawning events and locations of neustonic species. Sampling could be correlated to these events. The Living

Resources Subcommittee may want to discuss unique living resources in the estuary when setting up state sampling strategies. They may also want to identify the best way to sample, for example, water, sediments, microlayer and/or tissue, to correlate sampling data to decline of target species. Finally, sampling may also be done at the outfall site for the FMC pesticide manufacturing establishment.

Toxicity of Pesticides

Additional information on the toxicity of pesticides is readily available. Sources include: computer files at the EPA Environmental Research Laboratory in Duluth, Minnesota, EPA Headquarters reports generated for OPP special review and ground water initiatives. The NOAA/EPA project on "Pesticides to Estuaries" has information on pesticide toxicity to living resources. These and other sources of information may be useful for assessing toxicity.

ATTACHMENT 1. SYNTHETIC PYRETHROIDS REPORT

Synthetic pyrethroids have been found to be acutely toxic to estuarine organisms in laboratory tests at concentrations of 0.01 ug/L (1), and are often referred to as "supertoxic" chemicals (2). These chemicals are of particular concern in an environment such as Chesapeake Bay because of their toxicity to invertebrates and fish.

Synthetic pyrethroids most often used in the Bay drainage basin are PERMETHRIN and CYPERMETHRIN. These two compounds are manufactured locally by the FMC Corporation, Patapsco Avenue, Baltimore, Maryland. In the drainage basin, synthetic pyrethroids are used on soybeans and fruits such as apples. Since the EPA termination of the sale, distribution, and commercial use of CHLORDANE and HEPTACHLOR, pyrethroids have become popular for use as termiticides. Synthetic pyrethroid pesticides are commonly used in Pennsylvania, Virginia, Maryland, Delaware, and the District of Columbia.

Synthetic pyrethroids generally have low volatilities. They are readily sorbed to organic and inorganic particulate matter. Pyrethroids are candidates for rapid bioaccumulation by aquatic organisms and have very high octanol-water partition coefficients of 10,000 (1).

Recently produced synthetic pyrethroids FENVALERATE, FLUVALINATE, BIPHENTHRIN, TRALOMETHRIN, and FLUCYTHRINATE can contain an alpha-cyano group. The alpha-cyano group makes them the most acutely toxic pyrethroids to invertebrates and fish.

Detection of synthetic pyrethroids in the open environment is often difficult. They are readily bound to organics, making it difficult to predict their toxic effects on aquatic biota after runoff from agricultural areas or when discharged into waters heavily laden with suspended particulates. They are toxic to invertebrates and fish at the parts per billion level. It is difficult to recover these levels in the environment.

The EPA Environmental Research Laboratory, Gulf Breeze, Florida, recently conducted an investigation of the synthetic pyrethroids. Scientific research and a review of the literature is described in the document, "Toxicity of Pyrethroids to Marine Invertebrates and Fishes: A Literature Review and Test Results with Sediment-Sorbed Chemicals," by James R. Clark et. al., October 8, 1987. The document examines the pyrethroids, PERMETHRIN, FENVALERATE, CYPERMETHRIN, and FLUCYTHRINATE and their toxicity to several marine and estuarine invertebrates and fish.

Findings of the Gulf Breeze study on the toxicity of synthetic pyrethroids to living resources which are relevant to Chesapeake Bay are discussed below.

1. PERMETHRIN

- o The 96-h LC50 for four marine fishes studied ranged from the lowest at 2.2 ug/L up to values of 4.0 and 12.0 ug/L (3).

- o A 48-h EC50 for oyster larvae (*Crassostrea virginica*) 1,000 ug/L (4). A mean (BCF) for oysters was reported at 1900 (3).

2. CYPERMETHRIN

- o The 96-h LC 50 for two species of marine fishes studied were reported as 1.0 and 2.0 ug/L (1,5).
- o A 96-h EC50 of 370 ug/L for the oyster (*Crassostrea virginica*) was based on shell deposition (1).

3. SYNTHETIC PYRETHROIDS (GENERAL)

- o According to toxicity data for PERMETHRIN, CYPERMETHRIN and other selected synthetic pyrethroids described in the Gulf Breeze paper, it can be concluded that fish are more sensitive than oysters to these compounds. The potential for chronic toxicity to fishes at exposure levels which are less than acutely toxic concentrations is lower for PERMETHRIN and greater for FENVALERATE (with an alpha-cyano group) and FLUCYTHRINATE.

The Office of Water Regulations and Standards in EPA's Office of Water, indicates that the FMC Corporation in Baltimore produces PERMETHRIN, CYPERMETHRIN, and the organophosphate pesticide, ETHION. This is the only known manufacturer of pesticides in the Bay area.

The synthetic pyrethroids, relatively new pesticides, were first registered by the Environmental Protection Agency in the early 1980's for use on corn, cotton, soybeans, fruits and vegetables.

Manufacturers frequently submit requests to EPA to add new crop listings to product labels. These product labels include warnings of toxicity to invertebrates and fish. EPA has also classified synthetic pyrethroids as restricted use pesticides because of their high toxicity to aquatic species.

REFERENCES FOR SYNTHETIC PYRETHROIDS

1. Effects on Non-target Organisms in Terrestrial and Aquatic Environments. I. A. Hill. 1985. In: The Pyrethroid Insecticides. J. P. Leahy, ed., Taylor and Francis. London. 1985.
2. Acute Toxicity Rating Scales. U.S. Fish and Wildlife Service Res. Bull. 84-78: 1-3. 1984.
3. Acute Toxicity, Bioconcentration, and Persistence of AC 22, 705 Benthocarb, Chlorpyrifos, Fenvalerate, Methyl Parathion and Permethrin in the Estuarine Environment. S. C. Schimmel R. L. Garnas, J. M. Patrick, Jr., and J. C. Moore. 1983. Journal of Agricultural Food Chemistry. Vol. 31 (104-113).
4. Initial Toxicity Assessment of Ambush, Bolero, Bux, Durisban, Fentrifanil, Larvin, and Pydrin: Static Acute Toxicity Tests with Selected Estuarine Algae, Invertebrates, and Fish. P. W. Borthwick, and G. E. Walsh. EPA-600/4-81-076. 1981.
5. Lethality of Permethrin, Cypermethrin and Fenvalerate to Salmon, Lobster and Shrimp. D. W. McLeese, C. D. Metcalfe and V. Zitko. 1980. Bull. Environmental Contamination and Toxicology. Vol. 25 (950-955).

ATTACHMENT 2: INFORMATION ON PESTICIDE USE AND DATE(S) OF APPLICATION
FOR THE CHESAPEAKE BAY REGION

Pennsylvania, Virginia and Maryland have provided the following information concerning pesticide use and date(s) of application. Contacts were made with EPA's, Office of Pesticide and Toxic Substances, State grantees, and Cooperative Extension Services for information concerning commonly used pesticides and their approximate application date(s) for both agricultural and urban use pesticides.

1. Pennsylvania

The Pennsylvania Department of Agriculture indicates:

- o Pennsylvania's southeast and central region primarily grows corn and alfalfa. Herbicides commonly used are ATRAZINE, ALACHLOR, METALACHLOR, CYANAZINE, BENEFIN, PARAQUAT, SIMAZINE, PROFLURALIN and 2,4-DB; insecticides used include FURADAN, METHAMIDOTHOS, METHOXYCHLOR and PARATHION. Pesticide applications generally are most prevalent during the first week in May in the southeast area, and the second week of May in the central area.
- o Southcentral and southwest Pennsylvania and northern West Virginia primarily grow fruit. Herbicides commonly used are SIMAZINE and PARAQUAT; insecticides are IMIDAN, LANNATE, PHOSPHAMIDON, PARATHION and METHYLGUTHION, and fungicides include CAPTAN, MANEB and SULFUR. Herbicides generally are applied in early spring and throughout the summer. They heaviest use is in April and May.

2. Virginia

The Virginia Department of Agriculture and Consumer Services indicates:

- o Virginia's northern neck region primarily grows small grains, soybeans and corn. Herbicides commonly used are PARAQUAT, GLYPHSATE, METOLACHLOR, LINURON, ALACHLOR and 2,4-D; insecticides used include CARBOFURAN. In the northern neck, small grains are planted the first week in March and are generally harvested and replaced by no-till of soybeans the last week in June. Since small grains do not require an abundance of pesticides, the second week in June is probably when most pesticide applications are made in the region.
- o Virginia's Eastern Shore region primarily grows small grains, soybeans and potatoes. Herbicides commonly used include 2,4-D on small grains; PARAQUAT and TRIFLURALIN on soybeans; and METRIBUZIN and SENCOR on potatoes and other vegetables. Pesticides are generally applied on small grains and vegetables the first week in March. Herbicides are applied on no-till soybeans the last week in June.
- o Virginia's Shenandoah Valley region primarily grows corn, small grains and hay crops. Herbicides commonly used on small grains includes 2,4-D. Herbicides used on corn include PARAQUAT

and ATRAZINE. There is little pesticide use on hay crops. Herbicides are generally applied on small grains the first week in March. Herbicides are applied on corn the third week in May.

- o Virginia's southcentral region and the half-moon shaped area at the bottom of the state primarily grow tobacco. Insecticides commonly used include CARBOFURAN, DURISBAN, ETHOPROP, CARBARYL ORTHENE and BACILLUS THURGIENSUS. Insecticides are generally applied the first week in June.

3. Maryland

The Cooperative Extension Service and the Maryland Department of Agriculture indicate:

- o Maryland's Eastern Shore region primarily grows corn, soybeans and vegetables. Herbicides commonly used are ATRAZINE, ALACHLOR, METOLACHLOR, CYANAZINE, SIMAZINE, TRIFLURALIN and LINURON. CARBOFURAN is the insecticide generally used. Eastern Shore region pesticide applications are generally most prevalent the first week in May.
- o Central and western Maryland primarily grows corn, alfalfa, soybeans, fruits and turf. Pesticides commonly used on corn, alfalfa and soybeans include the herbicides ATRAZINE, ALACHLOR, METOLACHLOR, CYANAZINE, SIMAZINE, TRIFLURALIN, LINURON and DICAMBA, the insecticide CARBOFURAN. Pesticides commonly used on fruits include the fungicides MANCOZEB, ZINEB, METIRAM, CAPTAN, BENOMYL and FENARIMOL, and the insecticides GUTHION, PHOSMET, METHOMYL and specialty compounds from the synthetic pyrethroid group. Pesticides commonly used on turf include the herbicide 2,4-D. In central and western Maryland, pesticide applications on corn, alfalfa, soybeans and turf are generally most prevalent the first week in May. The fungicides and insecticides used on fruits are applied throughout the growing season but they are more frequently applied in April and May.
- c Maryland's southern region primarily grows tobacco. Pesticides commonly used are the herbicide PENDIMETHALIN and the insecticide ORTHINE. Maryland's southern region pesticide applications are generally made in June.

In urban areas of Pennsylvania, Virginia and Maryland pesticide applications on lawns, gardens, and pre- and post- treatment for construction purposes are generally made throughout the spring and summer. The commonly used herbicides 2,4-D, DICAMBA, MCPP and BENEFIN, and the insecticides DIAZINON, MALATHION and CARBARYL, are applied in March, April and in September and October. The highest number of pesticide applications generally occurs in the spring.

Attachment 3:
Maryland, Pennsylvania, and Virginia Pesticide Use

The numbers in the following columns indicate Total Acre Treatments. About two pounds of pesticide active ingredient are applied per acre treatment for all pesticides shown except DBCP and EDB which are twenty-five pounds active ingredient per acre treatment.

PESTICIDE STATE AND COUNTY IDENTIFICATION CODES

STATE:
Delaware (10)

COUNTIES:
001 Kent
002 New Castle
003 Sussex

STATE:
Maryland (24)

COUNTIES:
001 Allegany
003 Anne Arundel
005 Baltimore
009 Calvert
011 Caroline
013 Carroll
015 Cecil
017 Charles
019 Dorchester
021 Frederick
023 Garrett
025 Harford
027 Howard
029 Kent
031 Montgomery
033 Prince Georges
035 Queen Anne's
037 St Mary's
039 Somerset
041 Talbot
043 Washington
045 Wicomico
047 Worcester

STATE:
Pennsylvania

COUNTIES:
001 Adams
003 Allegheny
005 Armstrong
007 Beaver
009 Bedford
011 Berks
013 Blair

015 Bradford
017 Bucks
019 Butler
021 Canbria
023 Cameron
025 Carbon
027 Centre
029 Chester
031 Clarion
033 Clearfield
025 Clinton
037 Columbia
039 Crawford
041 Cumberland
043 Dauphin
045 Delaware
047 Elk
049 Frie
051 Fayette
053 Forest
055 Franklin
057 Fulton
059 Green
061 Huntingdon
063 Indiana
065 Jefferson
067 Juanita
069 Lackawanna
071 Lancaster
073 Lawrence
075 Lebanon
077 Lehigh
079 Luzerne
081 Lycoming
083 McKean
085 Mercer
087 Mifflin
089 Monroe
091 Montgomery
093 Montour
095 Northampton
097 Northumberland
099 Perry
101 Philadelphia
103 Pike
105 Potter
107 Schuylkill
109 Snyder
111 Somerset
113 Sullivan
115 Susquehanna

117 Tioga
119 Union
121 Vernango
123 Warren
125 Washington
127 Wayne
129 Westmoreland
131 Wycoming
133 York

STATE:
Virginia

COUNTIES:
001 Accomack
003 Albemarle
005 Alleghany
007 Amelia
009 Amherst
011 Appomatox
013 Arlington
015 Augusta
017 Bath
019 Bedford
021 Bland
023 Botetourt
025 Brunswick
027 Buchanan
029 Buckingham
031 Campbell
033 Caroline
035 Carroll
037 Charles City
039 Charlotte
041 Chesterfield
043 Clarke
045 Craig
047 Culpeper
049 Cumberland
051 Dickenson
053 Dinwiddie
055 Essex
059 Fairfax
061 Fauquier
063 Floyd
065 Fluvanna
067 Franklin
069 Frederick
071 Giles

073 Gloucester	177 Spotsylvania
075 Goochland	179 Stafford
077 Grayson	181 Surry
079 Greene	183 Sussex
081 Greenville	185 Tazewell
083 Halifax	187 Warren
085 Hanover	191 Washington
087 Henrico	193 Westmoreland
089 Henry	195 Wise
091 Highland	197 Wyth
093 Isle of Wright	199 York
095 James City	
097 King and Queen	
099 King George	
101 King William	
103 Lancaster	
105 Lee	
107 Loudoun	
109 Louisa	
111 Lunenburg	
113 Madison	
115 Mathews	
117 Macklenburg	
119 Middlesex	
121 Montgomery	
125 Nelson	
127 New Kent	
131 Northampton	
133 Northumberland	
135 Nottoway	
137 Orange	
139 Page	
141 Patrick	
143 Pittsylvania	
145 Powhatan	
147 Prince Edward	
149 Prince George	
153 Prince William	
155 Pulaski	
157 Rappahannock	
159 Richmond	
161 Roanoke	
163 Rockbridge	
165 Rockingham	
167 Russell	
169 Scott	
171 Sherandoah	
173 Smyth	
175 South Hampton	

COUNTY	STATE	ACIFLUOR- FEN	ALACH- LOR	ALDICARB	AMETRYN	ATRAZINE	BENTAZON	BROMACIL
10000	10	0.0	777.6	1353.8	0.0	-0.6	6.5	0.-
10001	10	15324.6	51727.9	4186.5	495.7	43078.8	10250.4	0.0
10003	10	5509.1	23519.3	199.3	343.2	28866.6	3611.9	0.0
10005	10	32268.3	86400.4	1212.2	565.0	50024.2	21719.2	0.0
24000	24	63.7	485.1	2.1	10.1	842.5	39.3	0.0
24001	24	15.5	831.8	1.2	18.1	1640.1	5.3	0.0
24003	24	744.2	4515.4	27.2	79.4	6787.9	477.0	0.0
24005	24	1206.4	12817.7	49.8	251.0	22236.4	739.7	0.0
24009	24	675.3	4141.4	23.3	77.5	6457.5	429.0	0.0
24011	24	11121.0	33645.0	415.3	301.0	26082.8	7445.1	0.0
24013	24	2204.3	25204.8	67.0	578.7	48023.8	1274.6	0.0
24015	24	2359.7	15887.3	80.0	311.4	25861.5	1482.7	0.0
24017	24	1660.8	7019.8	60.4	100.6	8502.0	1090.4	0.0
24019	24	11994.7	33633.8	449.6	251.7	22066.0	8057.6	0.0
24021	24	1399.5	25509.5	33.5	637.4	52637.1	703.0	0.0
24023	24	78.8	3696.9	2.4	91.9	7854.7	21.0	0.0
24025	24	1151.1	15580.2	42.6	339.8	29258.5	664.1	0.0
24027	24	609.8	6838.1	20.6	150.2	12684.5	359.1	0.0
24029	24	4525.6	32828.2	156.8	647.1	54323.1	2831.4	0.0
24031	24	1509.9	13053.1	50.4	275.4	23008.1	921.3	0.0
24033	24	900.8	5413.0	32.1	97.3	8218.8	575.8	0.0
24035	24	9034.1	42204.2	325.4	660.1	55524.5	5887.3	0.0
24037	24	2233.7	8077.0	81.2	101.0	8466.1	1478.0	0.0
24039	24	4481.4	12734.5	165.5	106.0	8974.6	3002.6	0.0
24041	24	9447.4	32427.7	346.4	373.2	31503.9	6274.8	0.0
24043	24	661.4	15159.3	13.7	385.2	31845.5	300.1	0.0
24045	24	9820.3	26331.6	366.5	180.5	15666.9	6603.2	0.0
24047	24	8442.8	27578.7	308.3	302.2	25285.4	5616.3	0.0
42000	42	0.0	6800.6	223.3	0.0	17358.9	1.8	0.0
42001	42	0.0	14655.1	165.3	0.0	36844.8	5.4	0.0
42003	42	0.0	911.9	12.5	0.0	2002.2	2.8	0.0
42005	42	0.0	4179.3	70.4	0.0	10645.1	1.7	0.0
42007	42	0.0	1900.1	44.6	0.0	4721.5	1.5	0.0
42009	42	0.0	11037.7	21.3	0.0	28656.3	1.2	0.0
42011	42	0.0	27471.7	104.1	0.0	70983.1	5.6	0.0
42013	42	0.0	7354.7	12.6	0.0	18815.2	2.9	0.0
42015	42	0.0	12315.7	30.4	0.0	31973.4	1.6	0.0
42017	42	0.0	10132.7	91.3	0.0	24523.3	14.4	0.0
42019	42	0.0	6432.4	284.7	0.0	15773.5	5.9	0.0
42021	42	0.0	4701.0	2511.5	0.0	8415.3	13.3	0.0
42023	42	0.0	0.1	0.0	0.0	0.0	0.0	0.0
42025	42	0.0	1248.1	152.2	0.0	2899.4	1.8	0.0
42027	42	0.0	11383.3	39.3	0.0	29173.2	4.3	0.0
42029	42	0.0	20814.4	310.3	0.0	53596.6	4.3	0.0
42031	42	0.0	3570.4	0.5	0.0	9235.5	0.8	0.0
42033	42	0.0	2229.5	60.9	0.0	5675.8	0.8	0.0
42035	42	0.0	4278.9	108.2	0.0	10961.7	1.0	0.0
42037	42	0.0	9181.5	355.7	0.0	22758.6	7.2	0.0
42039	42	0.0	11343.6	347.9	0.0	28917.7	3.5	0.0
42041	42	0.0	18377.5	21.2	0.0	47690.8	2.4	0.0

COUNTY	STATE	ACIFLUOR- FEN	ALACH- LOR	ALDICARB	AMETRYN	ATRAZINE	BENTAZON	BROMACIL
42043	42	0.0	11009.0	30.5	0.0	28537.5	1.7	0.0
42045	42	0.0	463.8	3.4	0.0	1131.3	0.6	0.0
42047	42	0.0	377.4	3.6	0.0	981.6	0.0	0.0
42049	42	0.0	10029.5	3129.1	0.0	21075.7	18.9	0.0
42051	42	0.0	4791.3	21.2	0.0	12188.0	2.5	0.0
42053	42	0.0	206.5	3.0	0.0	536.1	0.0	0.0
42055	42	0.0	25446.2	85.7	0.0	66034.6	2.0	0.0
42057	42	0.0	3683.8	25.1	0.0	9569.2	0.3	0.0
42059	42	0.0	1027.7	30.6	0.0	2571.8	0.6	0.0
42061	42	0.0	7693.3	18.4	0.0	19985.9	0.9	0.0
42063	42	0.0	8206.4	161.0	0.0	21096.3	1.7	0.0
42065	42	0.0	3412.7	37.9	0.0	8769.0	0.9	0.0
42067	42	0.0	6378.8	33.5	0.0	16528.9	0.9	0.0
42069	42	0.0	1353.8	66.9	0.0	3078.7	3.0	0.0
42071	42	0.0	58632.9	1548.6	0.0	149910.5	16.2	0.0
42073	42	0.0	7510.2	5.1	0.0	19510.7	1.0	0.0
42075	42	0.0	14094.0	39.9	0.0	36503.7	2.5	0.0
42077	42	0.0	11348.5	1284.8	0.0	27291.1	9.5	0.0
42079	42	0.0	4300.5	559.3	0.0	9795.9	7.3	0.0
42081	42	0.0	10241.0	147.3	0.0	26335.2	2.4	0.0
42083	42	0.0	537.8	0.1	0.0	1391.2	0.1	0.0
42085	42	0.0	8151.5	165.9	0.0	20863.4	2.3	0.0
42087	42	0.0	6667.4	18.1	0.0	17351.3	0.5	0.0
42089	42	0.0	1702.0	8.6	0.0	4328.4	0.9	0.0
42091	42	0.0	6293.0	6.9	0.0	15786.6	5.0	0.0
42093	42	0.0	3573.7	0.8	0.0	9190.1	1.2	0.0
42095	42	0.0	13984.4	293.7	0.0	35675.4	4.8	0.0
42097	42	0.0	12273.6	143.9	0.0	31632.6	2.6	0.0
42099	42	0.0	8078.9	24.6	0.0	20985.4	0.9	0.0
42103	42	0.0	0.1	0.0	0.0	0.0	0.0	0.0
42105	42	0.0	2925.2	1336.2	0.0	5629.8	6.8	0.0
42107	42	0.0	8834.8	1388.4	0.0	20553.6	10.3	0.0
42109	42	0.0	7190.1	38.9	0.0	18607.4	1.0	0.0
42111	42	0.0	10420.2	648.4	0.0	25516.3	9.0	0.0
42113	42	0.0	1046.7	0.0	0.0	2738.0	0.0	0.0
42115	42	0.0	4030.0	5.6	0.0	10472.7	0.5	0.0
42117	42	0.0	6876.9	0.1	0.0	17955.4	0.2	0.0
42119	42	0.0	7120.9	10.1	0.0	18562.0	0.4	0.0
42121	42	0.0	2019.1	22.5	0.0	5194.1	0.5	0.0
42123	42	0.0	1834.4	3.1	0.0	4701.5	0.7	0.0
42125	42	0.0	5356.4	47.5	0.0	13517.8	3.3	0.0
42127	42	0.0	2120.9	13.6	0.0	5485.1	0.4	0.0
42129	42	0.0	7095.0	41.8	0.0	17302.0	5.4	0.0
42131	42	0.0	2976.1	13.3	0.0	7653.7	0.9	0.0
42133	42	0.0	34547.0	1862.5	0.0	85857.0	21.8	0.0
51000	51	637.0	15139.0	138.6	332.3	32267.0	279.7	0.0
51001	51	9613.3	19219.3	361.9	0.0	495.4	6529.5	0.0
51003	51	258.6	2619.6	7.8	59.5	4901.0	152.3	0.0
51005	51	5.5	238.4	0.0	6.4	528.7	1.2	0.0
51007	51	2662.5	7653.9	98.1	65.9	5561.8	1782.6	0.0

COUNTY	STATE	ACIFLUOR- FEN	ALACH- LOR	ALDICARB	AMETRYN	ATRAZINE	BENTAZON	BROMACIL
51009	51	21.1	911.3	0.0	24.6	2021.8	4.7	0.0
51011	51	182.8	1725.8	5.6	38.5	3175.4	109.1	0.0
51015	51	267.7	9598.0	1.8	256.3	21090.2	81.4	0.0
51017	51	9.4	407.1	0.0	11.0	902.8	2.1	0.0
51019	51	153.3	3925.2	2.5	102.3	8422.2	64.1	0.0
51021	51	21.5	929.2	0.0	25.1	2060.6	4.8	0.0
51023	51	34.4	1488.8	0.0	40.2	3303.6	7.6	0.0
51025	51	2277.4	6134.4	169.2	44.8	3814.9	1529.8	0.0
51027	51	0.4	17.2	0.0	0.5	38.1	0.1	0.0
51029	51	206.4	1672.0	6.6	35.6	2942.7	126.2	0.0
51031	51	520.3	3345.1	17.5	65.2	5391.7	327.8	0.0
51033	51	3999.0	11865.7	147.0	109.5	9204.9	2673.3	0.0
51035	51	27.1	1172.4	0.0	31.6	2600.0	6.0	0.0
51036	51	1589.7	4948.0	58.2	50.1	4195.3	1060.1	0.0
51037	51	364.8	2931.4	11.7	62.3	5142.6	223.4	0.0
51041	51	639.2	1555.9	23.8	7.9	682.6	431.1	0.0
51043	51	161.4	3845.6	2.9	99.6	8200.2	70.6	0.0
51045	51	10.0	434.3	0.0	11.7	964.3	2.2	0.0
51047	51	580.1	8015.8	15.6	193.9	15970.6	318.0	0.0
51049	51	245.2	1670.6	8.2	33.4	2758.9	153.5	0.0
51051	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51053	51	3727.5	9199.1	3017.8	52.5	4506.4	2528.7	0.0
51057	51	4733.7	15429.8	172.8	168.7	14111.6	3149.1	0.0
51059	51	10.6	457.0	0.0	12.3	1013.7	2.3	0.0
51061	51	1056.3	11128.3	31.5	255.0	21017.0	617.6	0.0
51063	51	36.2	1566.8	0.0	42.3	3475.6	8.1	0.0
51065	51	133.9	658.7	4.7	11.1	916.2	86.6	0.0
51067	51	198.7	5767.4	2.6	151.9	12496.6	75.5	0.0
51069	51	66.0	2530.1	0.3	67.8	5581.2	18.2	0.0
51071	51	7.6	327.4	0.0	8.8	727.5	1.7	0.0
51073	51	2320.6	6925.2	85.3	64.6	5434.0	1550.9	0.0
51075	51	727.1	2894.3	26.1	40.7	3387.6	477.9	0.0
51077	51	24.1	1042.8	0.0	28.1	2313.8	5.4	0.0
51079	51	32.2	1391.6	0.0	37.5	3087.5	7.2	0.0
51081	51	2717.7	8084.5	12201.6	87.9	7359.9	1884.8	0.0
51083	51	1897.1	7171.2	73.6	95.6	7960.7	1251.1	0.0
51085	51	4234.4	12658.5	155.6	118.6	9968.9	2829.6	0.0
51087	51	1302.0	4190.4	47.6	44.9	3758.5	866.8	0.0
51089	51	102.8	1045.1	3.1	23.7	1961.7	60.5	0.0
51091	51	5.6	242.6	0.0	6.5	538.0	1.2	0.0
51093	51	3819.9	14095.5	16962.4	200.6	16673.4	2617.9	0.0
51095	51	877.7	1754.7	33.0	0.0	45.6	596.1	0.0
51097	51	3308.6	6614.6	124.6	0.0	172.6	2247.2	0.0
51099	51	1525.9	4985.2	55.7	54.7	4578.3	1015.0	0.0
51101	51	4090.3	12300.9	150.2	116.6	9794.5	2732.5	0.0
51103	51	1939.7	5682.5	71.4	51.0	4295.1	1297.5	0.0
51105	51	38.5	1247.1	0.4	33.1	2722.3	13.2	0.0
51107	51	1925.4	16147.4	61.3	347.8	28689.1	1171.5	0.0
51109	51	340.7	2688.3	11.0	56.8	4693.4	209.2	0.0
51111	51	1493.6	4237.1	55.1	35.4	2993.7	1000.6	0.0

COUNTY	STATE	ACIFLUOR- FEN	ALACH- LOR	ALDICARB	AMETRYN	ATRAZINE	BENTAZON	BROMACIL
51113	51	108.7	4701.8	0.0	126.8	10433.8	24.2	0.0
51115	51	663.1	1943.8	24.4	17.5	1471.0	443.5	0.0
51117	51	2625.0	7235.4	97.0	56.2	4768.2	1760.9	0.0
51119	51	1755.8	5143.3	64.6	46.2	3889.1	1174.4	0.0
51121	51	49.6	2145.9	0.0	57.9	4760.3	11.0	0.0
51125	51	61.5	1077.2	1.4	27.0	2222.5	31.2	0.0
51127	51	1268.8	2536.7	47.8	0.0	66.7	861.8	0.0
51131	51	6351.9	12925.1	238.9	6.4	851.7	4311.8	0.0
51133	51	3662.0	11137.5	134.4	107.9	9058.7	2445.0	0.0
51135	51	887.0	3062.6	32.2	36.5	3046.9	588.2	0.0
51137	51	366.7	4808.7	10.1	115.3	9495.8	203.9	0.0
51139	51	84.1	2725.5	0.8	72.3	5956.1	28.8	0.0
51141	51	161.1	1706.8	4.8	39.2	3229.4	94.1	0.0
51143	51	3008.6	9801.6	109.8	107.1	8976.3	2001.6	0.0
51145	51	374.1	2435.7	12.5	47.7	3945.2	235.4	0.0
51147	51	473.2	2609.7	16.3	47.1	3896.1	303.0	0.0
51149	51	2100.9	6229.2	3017.8	60.5	5084.0	1421.1	0.0
51153	51	376.2	4387.5	10.8	102.8	8469.4	215.3	0.0
51155	51	32.7	1415.6	0.0	38.2	3141.1	7.3	0.0
51157	51	30.7	1329.4	0.0	35.9	2950.3	6.8	0.0
51159	51	2890.3	9160.8	105.7	95.7	8011.5	1925.7	0.0
51161	51	6.3	271.7	0.0	7.3	602.6	1.4	0.0
51163	51	38.2	1654.0	0.0	44.6	3669.2	8.5	0.0
51165	51	401.2	13951.2	3.1	371.9	30591.0	126.8	0.0
51167	51	15.4	664.2	0.0	17.9	1474.4	3.4	0.0
51169	51	13.9	600.1	0.0	16.2	1331.9	3.1	0.0
51171	51	214.6	4878.0	4.0	125.8	10356.9	96.5	0.0
51173	51	29.8	1289.0	0.0	34.8	2860.4	6.6	0.0
51175	51	5624.0	21392.4	35457.4	324.7	26946.6	3906.3	0.0
51177	51	1136.7	4878.0	40.4	73.7	6120.1	743.2	0.0
51179	51	530.6	2314.0	18.8	35.4	2941.3	346.5	0.0
51181	51	2499.4	7729.3	7824.5	85.5	7155.5	1711.0	0.0
51183	51	4487.9	8421.8	14757.7	0.0	218.4	3136.6	0.0
51185	51	25.4	1100.2	0.0	29.7	2440.1	5.7	0.0
51187	51	10.4	448.2	0.0	12.1	995.7	2.3	0.0
51191	51	95.0	4108.8	0.0	110.8	9113.7	21.1	0.0
51193	51	3860.9	12452.6	141.0	133.9	11204.9	2569.9	0.0
51195	51	2.1	91.0	0.0	2.5	201.8	0.5	0.0
51197	51	87.6	3790.1	0.0	102.2	8406.2	19.5	0.0
51199	51	117.7	235.3	4.4	0.0	6.4	80.0	0.0
51550	51	5422.5	15564.7	199.8	133.6	11259.0	3630.7	0.0
51800	51	4431.9	14611.7	14185.5	177.6	14819.6	3025.6	0.0
51810	51	4561.1	12916.9	168.3	107.4	9064.8	3055.9	0.0

COUNTY	STATE	ACIFLUOR- FEN	ALACH- LOR	ALDICARB	AMETRYN	ATRAZINE	BENTAZON	BROMACIL
STATE	10	53102	162425.2	6951.8	1403.9	121969	35588	0
STATE	24	86342.2	405614.1	3121.3	6326.8	533752.2	56278.7	0
STATE	42	0	546183.6	18292.3	0	1380514.	236.6	0
STATE	51	128127.1	505811.1	111168.9	7174.5	596416.3	84861.2	0

COUNTY	STATE	BUTYLATE	CARBARYL	CARBO- FURA	CARBOXIN	CHLORAM- BEN	CHLORDANE	CHLOROTHA- LONIL
10000	10	-0.1	2032.7	4.6	0.0	0.0	0.0	1190.0
10001	10	9050.1	12901.9	15317.7	101.0	1211.7	0.0	3163.7
10003	10	6094.2	2872.4	9405.7	35.3	424.1	0.0	0.0
10005	10	10511.5	16692.0	20884.3	215.4	2584.8	0.0	0.0
24000	24	176.6	49.8	242.3	0.4	4.5	0.0	0.3
24001	24	340.3	308.8	752.2	0.0	0.0	0.0	3.9
24003	24	1426.1	477.8	2017.1	4.6	55.0	0.0	0.2
24005	24	4634.3	1357.0	6728.5	6.7	80.6	0.0	0.8
24009	24	1363.7	370.0	1939.7	4.1	49.5	0.0	0.2
24011	24	5489.2	5808.3	9640.5	73.6	883.4	0.0	0.0
24013	24	10146.4	1320.7	14693.8	11.6	138.9	0.0	1.3
24015	24	5469.3	1333.6	8386.8	14.2	170.2	0.0	1.7
24017	24	1792.3	888.4	2713.1	10.7	128.1	0.0	0.1
24019	24	4639.9	6229.2	8663.6	79.8	957.9	0.0	0.1
24021	24	11132.0	840.3	17646.6	5.8	69.4	0.0	1.2
24023	24	1647.6	185.0	3261.3	0.0	0.0	0.0	0.2
24025	24	6134.2	1246.4	9169.9	5.8	69.9	0.0	1.5
24027	24	2670.5	483.9	3872.4	3.3	39.1	0.0	0.7
24029	24	11457.0	2643.8	15998.8	26.9	322.9	0.0	0.0
24031	24	4856.4	899.4	6855.3	8.6	103.6	0.0	0.3
24033	24	1731.4	557.9	2439.1	5.5	66.5	0.0	0.6
24035	24	11718.8	4803.9	17212.3	57.4	688.7	0.0	0.0
24037	24	1789.1	1116.9	2859.3	14.6	174.6	0.0	0.1
24039	24	1899.2	2206.9	3533.9	29.8	357.1	0.0	0.0
24041	24	6656.4	4789.3	10799.8	61.9	742.3	0.0	0.0
24043	24	6732.6	1819.0	10405.4	2.2	26.9	0.0	23.7
24045	24	3303.9	4955.5	6517.6	65.5	786.1	0.0	0.0
24047	24	5354.1	4142.4	8906.9	55.5	665.6	0.0	0.0
42000	42	1939.2	1032.1	5567.8	0.0	0.0	0.0	195.3
42001	42	4129.4	6801.1	11987.9	0.0	0.0	0.0	223.4
42003	42	235.4	287.0	683.2	0.0	0.0	0.0	10.5
42005	42	1193.1	754.6	3880.4	0.0	0.0	0.0	61.7
42005	42	532.4	436.9	1740.6	0.0	0.0	0.0	39.5
42009	42	3200.8	1714.3	10000.7	0.0	0.0	0.0	22.3
42011	42	7938.5	3894.5	23726.5	0.0	0.0	0.0	95.2
42013	42	2111.0	1207.2	6429.5	0.0	0.0	0.0	12.8
42015	42	3572.0	1759.3	11382.4	0.0	0.0	0.0	26.8
42017	42	2797.1	1718.2	7675.9	0.0	0.0	0.0	73.3
42019	42	1779.3	1571.7	5519.2	0.0	0.0	0.0	250.9
42021	42	944.2	3719.6	2871.4	0.0	0.0	0.0	2198.7
42023	42	0.0	3.1	4.6	0.0	0.0	0.0	0.0
42025	42	328.1	369.2	947.9	0.0	0.0	0.0	132.8
42027	42	3271.4	1640.8	9941.1	0.0	0.0	0.0	33.4
42029	42	5989.4	3068.3	17954.2	0.0	0.0	0.0	273.0
42031	42	1033.3	491.9	3219.1	0.0	0.0	0.0	0.3
42033	42	635.1	427.1	2080.2	0.0	0.0	0.0	53.6
42035	42	1224.8	665.9	3688.4	0.0	0.0	0.0	94.7
42037	42	2562.4	1731.8	7408.5	0.0	0.0	0.0	309.9
42039	42	3232.8	1841.5	9690.7	0.0	0.0	0.0	304.1
42041	42	5328.7	2558.7	15905.9	0.0	0.0	0.0	22.9
42043	42	3189.4	1403.4	9413.2	0.0	0.0	0.0	27.0
42045	42	128.9	82.6	348.4	0.0	0.0	0.0	0.3

COUNTY	STATE	BUTYLATE	CARBARYL	CAFBO- FURA	CARBOXIN	CHLORAM- BEN	CHLORDANE	CHLOROTHA- LONIL
42047	42	109.5	63.3	374.9	0.0	0.0	0.0	3.2
42049	42	2367.6	5328.1	6910.6	0.0	0.0	0.0	2741.3
42051	42	1369.7	742.9	4294.9	0.0	0.0	0.0	17.5
42053	42	59.9	30.2	198.8	0.0	0.0	0.0	0.0
42055	42	7370.9	4609.0	22166.9	0.0	0.0	0.0	99.2
42057	42	1068.1	485.7	3279.5	0.0	0.0	0.0	21.9
42059	42	289.0	273.4	1043.1	0.0	0.0	0.0	27.4
42061	42	2232.4	1017.1	6876.6	0.0	0.0	0.0	16.0
42063	42	2356.7	1326.5	7279.5	0.0	0.0	0.0	141.9
42065	42	981.3	546.4	3174.1	0.0	0.0	0.0	33.0
42067	42	1846.4	941.7	5664.1	0.0	0.0	0.0	30.6
42069	42	355.4	394.0	1030.1	0.0	0.0	0.0	58.0
42071	42	16756.5	9045.1	49598.3	0.0	0.0	0.0	1354.3
42073	42	2179.9	942.4	6538.9	0.0	0.0	0.0	4.4
42075	42	4081.0	1771.2	12129.8	0.0	0.0	0.0	34.2
42077	42	3058.6	3345.2	8931.9	0.0	0.0	0.0	1129.5
42079	42	1113.2	1447.8	3224.9	0.0	0.0	0.0	488.9
42081	42	2944.5	1504.8	8852.5	0.0	0.0	0.0	129.1
42083	42	155.6	99.9	517.9	0.0	0.0	0.0	0.3
42085	42	2334.0	1280.1	7071.5	0.0	0.0	0.0	145.3
42087	42	1936.9	891.4	5968.4	0.0	0.0	0.0	16.3
42089	42	486.4	244.3	1419.2	0.0	0.0	0.0	7.3
42091	42	1782.7	927.0	5076.6	0.0	0.0	0.0	4.3
42093	42	1030.1	462.1	3011.4	0.0	0.0	0.0	0.4
42095	42	3993.7	2211.0	11804.7	0.0	0.0	0.0	257.7
42097	42	3535.9	1698.8	10311.0	0.0	0.0	0.0	126.7
42099	42	2343.7	1083.0	7131.5	0.0	0.0	0.0	22.1
42103	42	0.0	2.8	2.4	0.0	0.0	0.0	0.0
42105	42	629.4	2056.8	2077.9	0.0	0.0	0.0	1169.9
42107	42	2309.0	2947.7	6689.2	0.0	0.0	0.0	1215.8
42109	42	2078.6	1209.1	6245.3	0.0	0.0	0.0	38.6
42111	42	2872.0	2270.0	8656.4	0.0	0.0	0.0	564.7
42113	42	305.3	127.4	939.8	0.0	0.0	0.0	0.0
42115	42	1169.8	578.9	3750.8	0.0	0.0	0.0	5.1
42117	42	2003.1	992.6	6453.2	0.0	0.0	0.0	1.2
42119	42	2071.7	862.6	6244.4	0.0	0.0	0.0	8.7
42121	42	580.9	338.0	1816.3	0.0	0.0	0.0	20.2
42123	42	527.4	277.2	1652.6	0.0	0.0	0.0	2.6
42125	42	1521.2	1111.9	5200.4	0.0	0.0	0.0	42.2
42127	42	613.0	330.9	1907.0	0.0	0.0	0.0	12.4
42129	42	2008.5	1216.2	6283.7	0.0	0.0	0.0	34.8
42131	42	857.0	476.7	2702.8	0.0	0.0	0.0	12.5
42133	42	9632.1	6955.5	27720.8	0.0	0.0	0.0	1631.4
51000	51	6831.0	349.7	9038.9	2.0	24.3	0.0	103.8
51001	51	108.6	4705.3	2406.9	65.2	731.8	0.0	0.0
51003	51	1037.3	127.1	1757.7	1.4	16.9	0.0	0.0
51005	51	111.9	2.8	261.6	0.0	0.0	0.0	0.0
51007	51	1176.8	1303.8	2282.5	17.7	211.9	0.0	0.0
51009	51	427.9	10.5	639.4	0.0	0.0	0.0	0.0
51011	51	671.3	89.8	1022.3	1.0	12.2	0.0	0.0
51015	51	4461.7	133.3	7817.9	0.3	3.9	0.0	0.0

COUNTY	STATE	BUTYLATE	CARBARYL	CARBO- FURA	CARBOXIN	CHLORAM- BEN	CHLORDANE	CHLOROTHA- LONIL
51017	51	191.1	4.7	390.3	0.0	0.0	0.0	0.0
51019	51	1782.0	76.0	3284.5	0.4	5.3	0.0	0.0
51021	51	436.2	10.7	809.6	0.0	0.0	0.0	0.0
51023	51	699.0	17.2	1609.7	0.0	0.0	0.0	0.0
51025	51	805.3	1138.0	1682.0	15.2	182.0	0.0	69.2
51027	51	8.1	0.2	22.0	0.0	0.0	0.0	0.0
51029	51	621.9	101.4	1043.1	1.2	14.3	0.0	0.0
51031	51	1139.8	255.2	1870.6	3.1	37.8	0.0	0.0
51033	51	1949.4	1958.3	3486.8	26.5	317.6	0.0	0.0
51035	51	550.4	13.6	1098.2	0.0	0.0	0.0	0.0
51036	51	888.7	778.5	1514.2	10.5	125.8	0.0	0.0
51037	51	1087.5	179.1	1597.8	2.1	25.3	0.0	0.0
51041	51	144.0	312.9	346.6	4.3	51.4	0.0	0.0
51043	51	1735.0	79.9	2790.1	0.5	6.2	0.0	0.0
51045	51	203.9	5.0	331.6	0.0	0.0	0.0	0.0
51047	51	3379.6	285.7	4849.3	2.8	33.7	0.0	0.0
51049	51	583.4	120.3	940.7	1.5	17.6	0.0	0.0
51051	51	0.0	0.0	45.4	0.0	0.0	0.0	0.0
51053	51	954.3	2602.9	2987.7	24.6	295.1	0.0	2348.4
51057	51	2988.5	2318.5	4958.1	31.1	373.2	0.0	0.0
51059	51	214.5	5.3	324.4	0.0	0.0	0.0	0.0
51061	51	4447.8	519.3	6671.6	5.7	68.1	0.0	0.0
51063	51	735.6	18.1	1405.7	0.0	0.0	0.0	0.0
51065	51	193.9	65.6	379.7	0.8	10.1	0.0	0.0
51067	51	2644.2	98.6	4251.8	0.5	5.6	0.0	0.0
51069	51	1180.6	32.9	1959.0	0.1	0.6	0.0	0.0
51071	51	153.7	3.8	393.8	0.0	0.0	0.0	0.0
51073	51	1150.8	1136.4	2022.2	15.4	184.2	0.0	0.0
51075	51	717.0	356.3	1251.4	4.7	56.3	0.0	0.0
51077	51	489.6	12.1	1000.3	0.0	0.0	0.0	0.0
51079	51	653.4	16.1	947.7	0.0	0.0	0.0	0.0
51081	51	1557.2	4601.0	6011.2	16.4	196.3	0.0	9871.4
51083	51	1683.6	930.8	2734.0	12.3	147.6	0.0	4.3
51085	51	2110.6	2073.6	3932.9	28.0	336.1	0.0	0.0
51087	51	795.7	637.7	1376.8	8.6	102.8	0.0	0.0
51089	51	414.2	50.5	699.6	0.6	6.7	0.0	0.0
51091	51	113.9	2.8	276.3	0.0	0.0	0.0	0.0
51093	51	3529.4	6417.7	10118.9	22.6	270.8	0.0	13723.7
51095	51	9.9	429.6	218.8	5.9	71.4	0.0	0.0
51097	51	37.4	1619.4	842.4	22.4	269.1	0.0	0.0
51099	51	969.0	747.3	1653.3	10.0	120.3	0.0	0.0
51101	51	2074.8	2003.1	3681.5	27.0	324.5	0.0	0.0
51103	51	909.7	949.9	1623.3	12.8	154.2	0.0	0.0
51105	51	576.1	19.2	1079.6	0.1	0.8	0.0	0.0
51107	51	6072.1	945.5	8999.4	11.0	132.3	0.0	0.0
51109	51	991.3	167.3	1562.4	2.0	23.7	0.0	0.0
51111	51	632.3	731.4	1233.8	9.9	119.0	0.0	0.0
51113	51	2207.5	54.4	3089.2	0.0	0.0	0.0	0.0
51115	51	311.6	324.7	555.7	4.4	52.7	0.0	0.0
51117	51	1007.4	1285.3	2086.0	17.5	209.6	0.0	0.0
51119	51	823.3	859.8	1500.7	11.6	139.6	0.0	0.0

COUNTY	STATE	BUTYLATE	CARBARYL	CARBO- FURA	CARBOXIN	CHLORAM- BEN	CHLORDANE	CHLOROTHA- LONIL
51121	51	1007.5	24.8	1805.7	0.0	0.0	0.0	0.0
51125	51	470.1	30.4	779.7	0.3	3.1	0.0	0.0
51127	51	14.3	621.0	324.7	8.6	103.2	0.0	0.0
51131	51	183.0	3109.0	1730.3	43.0	516.1	0.0	0.0
51133	51	1918.9	1793.4	3330.5	24.2	290.3	0.0	0.0
51135	51	644.3	434.5	1235.6	5.8	69.6	0.0	0.0
51137	51	2009.2	180.5	3178.3	1.8	21.8	0.0	0.0
51139	51	1259.1	41.8	1914.9	0.1	1.8	0.0	0.0
51141	51	683.1	79.2	1050.1	0.9	10.4	0.0	0.0
51143	51	1896.9	1473.6	3641.3	19.8	237.2	0.0	0.0
51145	51	834.6	183.5	1340.8	2.3	27.1	0.0	0.0
51147	51	823.8	232.0	1368.3	2.9	35.2	0.0	0.0
51149	51	1075.9	1823.4	2705.4	13.5	162.1	0.0	2398.6
51153	51	1792.7	185.1	2484.3	2.0	23.4	0.0	0.0
51155	51	664.6	16.4	1170.1	0.0	0.0	0.0	0.0
51157	51	624.2	15.4	931.8	0.0	0.0	0.0	0.0
51159	51	1696.7	1415.5	2856.9	19.0	228.4	0.0	0.0
51161	51	127.6	3.1	316.2	0.0	0.0	0.0	0.0
51163	51	776.5	19.1	1610.9	0.0	0.0	0.0	0.0
51165	51	6473.5	199.7	10167.8	0.6	6.7	0.0	0.0
51167	51	311.9	7.7	820.2	0.0	0.0	0.0	0.0
51169	51	281.7	6.9	657.3	0.0	0.0	0.0	0.0
51171	51	2191.2	106.2	3576.5	0.7	8.7	0.0	0.0
51173	51	605.2	14.9	1208.6	0.0	0.0	0.0	0.0
51175	51	5703.6	12281.9	18472.2	31.7	380.6	0.0	28757.5
51177	51	1294.7	557.0	2160.4	7.3	87.3	0.0	0.0
51179	51	622.5	260.0	1000.6	3.4	40.7	0.0	0.0
51181	51	1514.6	3316.3	4690.2	15.5	185.4	0.0	6315.9
51183	51	47.6	6138.6	5181.8	28.5	342.6	0.0	11899.7
51185	51	516.5	12.7	1275.1	0.0	0.0	0.0	0.0
51187	51	210.4	5.2	415.3	0.0	0.0	0.0	0.0
51191	51	1929.1	47.5	3160.4	0.0	0.0	0.0	0.0
51193	51	2372.5	1890.9	3952.4	25.4	304.7	0.0	0.0
51195	51	42.7	1.1	72.5	0.0	0.0	0.0	0.0
51197	51	1779.4	43.8	2902.2	0.0	0.0	0.0	0.0
51199	51	1.3	57.6	29.3	0.8	9.6	0.0	0.0
51550	51	2385.2	2655.3	4335.4	36.0	431.7	0.0	0.0
51800	51	3137.0	5960.3	8977.8	27.2	326.5	0.0	11439.3
51810	51	1920.1	2233.5	3535.9	30.3	363.4	0.0	0.0

COUNTY	STATE	BUTYLATE	CARBARYL	CARBO- FURA	CARBOXIN	CHLORAM- BEN	CHLORDANE	CHLOROTHA- LONIL
STATE	10	25655.7	34499	45612.3	351.7	4220.6	0	4353.7
STATE	24	112561.3	48834.2	175256.2	548.5	6580.8	0	36.9
STATE	42	154615.3	103647.5	464292.3	0	0	0	16133.3
STATE	51	126226.4	91574.7	245137	813.3	9756.3	0	86931.8

COUNTY	STATE	CYANAZINE	ACRE TREATMENT				DIAZINON	DICAMBA
			CYCLOATE	DALAPON	DBCP	DCPA		
10000	10	-0.2	0.0	13.0	0.0	0.0	69.3	0.0
10001	10	2471.3	0.0	34.6	0.0	0.0	423.9	6652.7
10003	10	1496.8	0.0	0.0	0.0	0.0	246.2	4234.0
10005	10	2871.4	0.0	0.0	0.0	0.0	495.2	7908.4
24000	24	40.4	0.0	0.0	0.0	0.0	11.2	286.8
24001	24	119.3	0.0	0.0	0.0	0.0	79.8	208.8
24003	24	388.3	0.0	0.0	0.0	0.0	68.7	1010.1
24005	24	1488.6	0.0	0.0	0.0	0.0	279.4	3105.7
24009	24	327.8	0.0	0.0	0.0	0.0	57.0	1009.4
24011	24	1451.9	0.0	0.0	0.0	0.0	247.3	3930.3
24013	24	2432.8	0.0	0.0	0.0	0.0	415.2	7084.4
24015	24	1301.1	0.0	0.0	0.0	0.0	236.8	3508.9
24017	24	449.3	0.0	0.0	0.0	0.0	76.5	1342.1
24019	24	1248.4	0.0	0.0	0.0	0.0	214.9	3433.6
24021	24	2618.3	0.0	0.0	0.0	0.0	439.0	7540.1
24023	24	460.5	0.0	0.0	0.0	0.0	81.6	1200.3
24025	24	1761.3	0.0	0.0	0.0	0.0	328.3	4020.8
24027	24	700.4	0.0	0.0	0.0	0.0	127.9	1780.5
24029	24	2885.9	0.0	0.0	0.0	0.0	478.6	7699.4
24031	24	1201.1	0.0	0.0	0.0	0.0	202.3	3245.0
24033	24	444.5	0.0	0.0	0.0	0.0	83.5	1223.8
24035	24	2907.3	0.0	0.0	0.0	0.0	480.1	7936.9
24037	24	418.8	0.0	0.0	0.0	0.0	68.7	1434.6
24039	24	434.9	0.0	0.0	0.0	0.0	70.0	1490.1
24041	24	1609.2	0.0	0.0	0.0	0.0	264.0	4627.6
24043	24	1595.5	0.0	0.0	0.0	0.0	613.7	4570.7
24045	24	825.0	0.0	0.0	0.0	0.0	137.8	2615.8
24047	24	1220.7	0.0	0.0	0.0	0.0	195.3	3852.9
42000	42	5074.7	0.0	2.1	0.0	0.0	769.3	2126.5
42001	42	10775.8	0.0	1.6	0.0	0.0	2854.9	4491.8
42003	42	589.3	0.0	0.1	0.0	0.0	110.9	226.4
42005	42	3113.3	0.0	0.7	0.0	0.0	485.2	1297.7
42007	42	1382.0	0.0	0.4	0.0	0.0	229.2	570.4
42009	42	8377.2	0.0	0.2	0.0	0.0	1331.7	3511.1
42011	42	20754.2	0.0	1.0	0.0	0.0	3246.1	8681.1
42013	42	5503.5	0.0	0.1	0.0	0.0	887.2	2290.1
42015	42	9347.2	0.0	0.3	0.0	0.0	1428.7	3916.4
42017	42	7188.6	0.0	0.8	0.0	0.0	1131.9	2911.4
42019	42	4617.1	0.0	2.7	0.0	0.0	768.6	1904.5
42021	42	2461.5	0.0	24.0	0.0	0.0	379.6	1024.2
42023	42	0.0	0.0	0.0	0.0	0.0	0.5	0.0
42025	42	849.0	0.0	1.4	0.0	0.0	131.6	348.5
42027	42	8532.7	0.0	0.3	0.0	0.0	1316.2	3553.7
42029	42	15669.1	0.0	3.0	0.0	0.0	2413.5	6562.2
42031	42	2700.5	0.0	0.0	0.0	0.0	413.0	1128.7
42033	42	1659.6	0.0	0.6	0.0	0.0	258.5	693.6
42035	42	3204.6	0.0	1.0	0.0	0.0	488.0	1342.5
42037	42	6660.0	0.0	3.4	0.0	0.0	1038.9	2755.7
42039	42	8454.6	0.0	3.3	0.0	0.0	1287.5	3538.5
42041	42	13942.3	0.0	0.2	0.0	0.0	2193.6	5840.4
42043	42	8343.1	0.0	0.3	0.0	0.0	1280.5	3493.6
42045	42	331.6	0.0	0.0	0.0	0.0	55.0	134.6

COUNTY	STATE	CYANAZINE	ACRE TREATMENT					DICAMBA
			CYCLOATE	DALAPON	DECP	DCPA	DIAZINON	
42047	42	286.9	0.0	0.0	0.0	0.0	44.0	120.6
42049	42	6165.7	0.0	29.9	0.0	0.0	992.2	2560.5
42051	42	3565.8	0.0	0.2	0.0	0.0	547.6	1479.8
42053	42	156.7	0.0	0.0	0.0	0.0	23.7	65.6
42055	42	19302.6	0.0	0.3	0.0	0.0	3290.7	8098.7
42057	42	2797.2	0.0	0.2	0.0	0.0	422.4	1173.6
42059	42	752.4	0.0	0.3	0.0	0.0	127.1	312.3
42061	42	5842.6	0.0	0.2	0.0	0.0	889.3	2448.6
42063	42	6167.3	0.0	1.5	0.0	0.0	954.2	2584.3
42065	42	2564.1	0.0	0.4	0.0	0.0	391.7	1071.5
42067	42	4832.1	0.0	0.3	0.0	0.0	756.0	2024.8
42069	42	903.9	0.0	0.6	0.0	0.0	156.5	358.7
42071	42	43828.2	0.0	14.8	0.0	0.0	6679.8	18348.2
42073	42	5703.9	0.0	0.0	0.0	0.0	870.4	2389.5
42075	42	10672.5	0.0	0.4	0.0	0.0	1623.2	4466.7
42077	42	7981.6	0.0	12.3	0.0	0.0	1307.8	3327.3
42079	42	2870.1	0.0	5.3	0.0	0.0	469.9	1169.6
42081	42	7699.7	0.0	1.4	0.0	0.0	1181.9	3221.9
42083	42	406.7	0.0	0.0	0.0	0.0	66.6	170.1
42085	42	6101.6	0.0	1.6	0.0	0.0	937.3	2551.9
42087	42	5072.0	0.0	0.2	0.0	0.0	775.9	2127.8
42089	42	1266.3	0.0	0.1	0.0	0.0	196.5	525.6
42091	42	4621.5	0.0	0.0	0.0	0.0	724.4	1903.0
42093	42	2687.8	0.0	0.0	0.0	0.0	413.7	1120.3
42095	42	10432.2	0.0	2.8	0.0	0.0	1617.4	4356.7
42097	42	9248.2	0.0	1.4	0.0	0.0	1426.6	3871.5
42099	42	6134.7	0.0	0.2	0.0	0.0	942.5	2571.7
42103	42	0.0	0.0	0.0	0.0	0.0	0.5	0.0
42105	42	1646.0	0.0	12.3	0.0	0.0	251.0	688.8
42107	42	6014.3	0.0	13.3	0.0	0.0	949.2	2498.5
42109	42	5439.7	0.0	0.4	0.0	0.0	897.1	2279.5
42111	42	7466.7	0.0	6.2	0.0	0.0	1144.0	3091.1
42113	42	800.3	0.0	0.0	0.0	0.0	120.7	336.3
42115	42	3061.6	0.0	0.1	0.0	0.0	468.8	1283.1
42117	42	5248.2	0.0	0.0	0.0	0.0	810.0	2203.9
42119	42	5425.8	0.0	0.1	0.0	0.0	820.5	2277.0
42121	42	1518.6	0.0	0.2	0.0	0.0	240.6	635.2
42123	42	1375.2	0.0	0.0	0.0	0.0	212.7	572.5
42125	42	3955.6	0.0	0.4	0.0	0.0	638.6	1638.1
42127	42	1603.6	0.0	0.1	0.0	0.0	252.5	671.6
42129	42	5210.9	0.0	0.4	0.0	0.0	814.1	2148.8
42131	42	2238.2	0.0	0.1	0.0	0.0	351.6	934.3
42133	42	25113.3	0.0	17.7	0.0	0.0	3935.2	10451.6
51000	51	1578.5	0.0	0.0	5.3	5.3	252.2	4414.1
51001	51	0.0	0.0	0.0	0.0	0.0	0.0	408.4
51003	51	239.3	0.0	0.0	0.0	0.0	38.2	701.4
51005	51	25.9	0.0	0.0	0.0	0.0	4.1	72.9
51007	51	265.3	0.0	0.0	0.0	0.0	42.4	1006.6
51009	51	98.9	0.0	0.0	0.0	0.0	15.8	289.4
51011	51	154.8	0.0	0.0	0.0	0.0	24.7	530.5
51015	51	1031.4	0.0	0.0	0.0	0.0	164.8	3175.4

COUNTY	STATE	CYANAZINE	ACRE TREATMENT					DIAZINON	DICAMBA
			CYCLOATE	DALAPON	DBCP	DCPA			
51017	51	44.2	0.0	0.0	0.0	0.0	7.1	123.1	
51019	51	411.8	0.0	0.0	0.0	0.0	65.8	1246.3	
51021	51	100.9	0.0	0.0	0.0	0.0	16.1	281.1	
51023	51	161.6	0.0	0.0	0.0	0.0	25.8	487.7	
51025	51	180.3	0.0	0.0	3.5	3.5	28.8	903.6	
51027	51	1.9	0.0	0.0	0.0	0.0	0.3	5.2	
51029	51	143.3	0.0	0.0	0.0	0.0	22.9	516.3	
51031	51	262.3	0.0	0.0	0.0	0.0	41.9	920.2	
51033	51	440.5	0.0	0.0	0.0	0.0	70.4	1464.4	
51035	51	127.3	0.0	0.0	0.0	0.0	20.3	355.4	
51036	51	201.4	0.0	0.0	0.0	0.0	32.2	630.4	
51037	51	250.6	0.0	0.0	0.0	0.0	40.0	839.6	
51041	51	31.6	0.0	0.0	0.0	0.0	5.1	187.8	
51043	51	400.9	0.0	0.0	0.0	0.0	64.1	1218.0	
51045	51	47.1	0.0	0.0	0.0	0.0	7.5	155.0	
51047	51	780.2	0.0	0.0	0.0	0.0	124.7	2341.8	
51049	51	134.3	0.0	0.0	0.0	0.0	21.5	452.1	
51051	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
51053	51	211.2	0.0	0.0	119.6	119.6	33.7	843.5	
51057	51	678.9	0.0	0.0	0.0	0.0	108.5	2150.3	
51059	51	49.6	0.0	0.0	0.0	0.0	7.9	144.1	
51061	51	1026.1	0.0	0.0	0.0	0.0	163.9	3070.5	
51063	51	170.1	0.0	0.0	0.0	0.0	27.2	489.7	
51065	51	44.5	0.0	0.0	0.0	0.0	7.1	140.4	
51067	51	611.1	0.0	0.0	0.0	0.0	97.6	1839.2	
51069	51	272.9	0.0	0.0	0.0	0.0	43.6	851.1	
51071	51	35.5	0.0	0.0	0.0	0.0	5.7	126.6	
51073	51	260.1	0.0	0.0	0.0	0.0	41.6	868.6	
51075	51	164.0	0.0	0.0	0.0	0.0	26.2	529.4	
51077	51	113.2	0.0	0.0	0.0	0.0	18.1	337.1	
51079	51	151.0	0.0	0.0	0.0	0.0	24.1	446.5	
51081	51	353.7	0.0	0.0	502.7	502.7	56.5	1263.8	
51083	51	384.5	0.0	0.0	0.2	0.2	61.4	1374.0	
51085	51	477.2	0.0	0.0	0.0	0.0	76.2	1640.6	
51087	51	180.6	0.0	0.0	0.0	0.0	28.9	606.4	
51089	51	95.5	0.0	0.0	0.0	0.0	15.3	376.8	
51091	51	26.3	0.0	0.0	0.0	0.0	4.2	74.2	
51093	51	807.3	0.0	0.0	698.9	698.9	129.0	2544.6	
51095	51	0.0	0.0	0.0	0.0	0.0	0.0	43.9	
51097	51	0.0	0.0	0.0	0.0	0.0	0.0	182.5	
51099	51	220.2	0.0	0.0	0.0	0.0	35.2	753.1	
51101	51	469.2	0.0	0.0	0.0	0.0	75.0	1501.8	
51103	51	205.4	0.0	0.0	0.0	0.0	32.8	682.6	
51105	51	133.2	0.0	0.0	0.0	0.0	21.3	394.7	
51107	51	1399.6	0.0	0.0	0.0	0.0	223.6	4162.7	
51109	51	228.4	0.0	0.0	0.0	0.0	36.5	877.9	
51111	51	142.4	0.0	0.0	0.0	0.0	22.7	650.2	
51113	51	510.3	0.0	0.0	0.0	0.0	81.5	1554.0	
51115	51	70.3	0.0	0.0	0.0	0.0	11.2	232.9	
51117	51	226.2	0.0	0.0	0.0	0.0	36.1	1029.2	
51119	51	185.9	0.0	0.0	0.0	0.0	29.7	658.7	

COUNTY	STATE	CYANAZINE	ACRE TREATMENT					DIAZINON	DICAMBA
			CYCLOATE	DALAPON	DBCP	DCPA			
51121	51	232.9	0.0	0.0	0.0	0.0	37.2	674.7	
51125	51	108.6	0.0	0.0	0.0	0.0	17.3	342.1	
51127	51	0.0	0.0	0.0	0.0	0.0	0.0	81.4	
51131	51	25.7	0.0	0.0	0.0	0.0	4.1	319.4	
51133	51	434.3	0.0	0.0	0.0	0.0	69.4	1382.5	
51135	51	146.7	0.0	0.0	0.0	0.0	23.4	545.1	
51137	51	463.8	0.0	0.0	0.0	0.0	74.1	1417.8	
51139	51	291.0	0.0	0.0	0.0	0.0	46.5	988.1	
51141	51	157.6	0.0	0.0	0.0	0.0	25.2	504.7	
51143	51	430.9	0.0	0.0	0.0	0.0	68.8	1753.0	
51145	51	192.1	0.0	0.0	0.0	0.0	30.7	623.5	
51147	51	189.3	0.0	0.0	0.0	0.0	30.2	655.7	
51149	51	243.5	0.0	0.0	122.2	122.2	38.9	872.0	
51153	51	413.7	0.0	0.0	0.0	0.0	66.1	1199.7	
51155	51	153.7	0.0	0.0	0.0	0.0	24.5	463.6	
51157	51	144.3	0.0	0.0	0.0	0.0	23.1	441.5	
51159	51	384.9	0.0	0.0	0.0	0.0	61.5	1235.0	
51161	51	29.5	0.0	0.0	0.0	0.0	4.7	82.2	
51163	51	179.5	0.0	0.0	0.0	0.0	28.7	523.9	
51165	51	1496.4	0.0	0.0	0.0	0.0	239.1	4424.4	
51167	51	72.1	0.0	0.0	0.0	0.0	11.5	226.5	
51169	51	65.1	0.0	0.0	0.0	0.0	10.4	201.2	
51171	51	506.3	0.0	0.0	0.0	0.0	80.9	1551.2	
51173	51	139.9	0.0	0.0	0.0	0.0	22.4	427.3	
51175	51	1306.4	0.0	0.0	1464.5	1464.5	208.7	4103.9	
51177	51	296.5	0.0	0.0	0.0	0.0	47.4	1003.0	
51179	51	142.6	0.0	0.0	0.0	0.0	22.8	451.2	
51181	51	344.2	0.0	0.0	321.6	321.6	55.0	1158.1	
51183	51	0.0	0.0	0.0	606.0	606.0	0.0	205.0	
51185	51	119.4	0.0	0.0	0.0	0.0	19.1	338.7	
51187	51	446.0	0.0	0.0	0.0	0.0	71.3	1272.4	
51193	51	538.7	0.0	0.0	0.0	0.0	86.1	1760.9	
51195	51	9.9	0.0	0.0	0.0	0.0	1.6	27.5	
51197	51	411.4	0.0	0.0	0.0	0.0	65.7	1162.3	
51199	51	0.0	0.0	0.0	0.0	0.0	0.0	12.4	
51550	51	537.6	0.0	0.0	0.0	0.0	85.9	1754.2	
51800	51	714.8	0.0	0.0	582.6	582.6	114.2	2343.4	
51810	51	432.2	0.0	0.0	0.0	0.0	69.1	1458.2	

COUNTY	STATE	CYANAZINE	ACRE TREATMENT					DIAZINON	DICAMBA
			CYCLOATE	DALAPON	DBCP	DCPA			
STATE	10	6839.3	0	47.6	0	0	1234.6	18795.1	
STATE	24	28331.3	0	0	0	0	5257.6	78158.6	
STATE	42	403713.8	0	174.2	0	0	64236.5	168474.7	
STATE	51	28868.9	0	0	4427.1	4427.1	4612.4	93325	

COUNTY	STATE	DIELD- RIN	DINOSEB	DIPHENAMID	DISUL- FOTON	DIURON	EDB	FENAMIPHOS
10000	10	0.0	77.7	0.0	116.6	356.2	0.0	18.5
10001	10	0.0	9272.2	23.7	973.1	0.0	0.0	0.0
10003	10	0.0	3186.2	8.5	231.7	0.0	0.0	0.0
10005	10	0.0	19178.7	33.0	1412.1	0.0	0.0	0.0
24000	24	0.0	63.4	4.3	2.4	24.5	0.0	1.3
24001	24	0.0	1.3	0.0	0.0	297.6	0.0	15.5
24003	24	0.0	426.6	2.7	30.0	12.8	0.0	0.7
24005	24	0.0	647.4	5.7	44.0	63.4	0.0	3.3
24009	24	0.0	391.2	3.3	27.1	18.9	0.0	1.0
24011	24	0.0	6564.9	11.6	482.6	3.2	0.0	0.2
24013	24	0.0	1156.8	14.2	75.9	103.5	0.0	5.4
24015	24	0.0	1267.2	0.0	93.0	133.6	0.0	6.9
24017	24	0.0	978.5	5.0	70.0	10.4	0.0	0.5
24019	24	0.0	7115.1	12.9	523.3	5.6	0.0	0.3
24021	24	0.0	619.0	9.4	37.9	89.4	0.0	4.6
24023	24	0.0	34.1	3.9	0.0	12.8	0.0	0.7
24025	24	0.0	563.3	3.9	38.2	117.5	0.0	6.1
24027	24	0.0	311.2	2.0	21.4	52.1	0.0	2.7
24029	24	0.0	2475.7	9.6	176.4	1.6	0.0	0.1
24031	24	0.0	801.6	3.4	56.6	24.1	0.0	1.3
24033	24	0.0	514.2	3.0	36.3	47.7	0.0	2.5
24035	24	0.0	5164.2	11.4	376.2	1.6	0.0	0.1
24037	24	0.0	1334.4	7.1	95.4	5.6	0.0	0.3
24039	24	0.0	2667.3	6.8	195.1	0.0	0.0	0.0
24041	24	0.0	5522.3	9.4	405.5	2.0	0.0	0.1
24043	24	0.0	266.7	6.0	14.7	1827.3	0.0	94.9
24045	24	0.0	5854.1	13.1	429.4	0.0	0.0	0.0
24047	24	0.0	4962.7	10.4	363.6	0.0	0.0	0.0
42000	42	44.1	12.8	0.0	19.2	12.0	0.0	0.6
42001	42	93.0	9.3	0.0	14.0	6266.8	0.0	325.5
42003	42	4.5	0.6	0.0	0.9	87.8	0.0	4.6
42005	42	26.9	4.0	0.0	6.0	67.0	0.0	3.5
42005	42	11.8	2.5	0.0	3.8	94.3	0.0	4.9
42009	42	72.9	1.2	0.0	1.8	337.7	0.0	17.5
42011	42	180.0	5.8	0.0	8.7	542.3	0.0	28.2
42013	42	47.4	0.6	0.0	0.9	265.1	0.0	13.8
42015	42	81.3	1.7	0.0	2.5	81.4	0.0	4.2
42017	42	59.6	4.7	0.0	7.1	113.9	0.0	5.9
42019	42	39.3	16.2	0.0	24.3	327.7	0.0	17.0
42021	42	21.2	144.2	0.0	216.2	30.1	0.0	1.6
42023	42	0.0	0.0	0.0	0.0	2.4	0.0	0.1
42025	42	7.2	8.7	0.0	13.0	8.0	0.0	0.4
42027	42	73.6	2.1	0.0	3.1	110.7	0.0	5.8
42029	42	136.1	17.7	0.0	26.6	227.8	0.0	11.8
42031	42	23.4	0.0	0.0	0.0	21.7	0.0	1.1
42033	42	14.4	3.5	0.0	5.2	37.3	0.0	1.9
42035	42	27.9	6.2	0.0	9.3	18.0	0.0	0.9
42037	42	56.9	20.2	0.0	30.3	124.3	0.0	6.5
42039	42	73.4	19.9	0.0	29.9	44.5	0.0	2.3
42041	42	121.2	1.1	0.0	1.7	441.2	0.0	22.9
42043	42	72.5	1.7	0.0	2.5	97.1	0.0	5.0
42045	42	2.8	0.0	0.0	0.0	20.1	0.0	1.0

COUNTY	STATE	DIELD- RIN	DINOSEB	DIPHENAMID	DISUL- FOTON	DIURON	EDB	FENAMIPHOS
42047	42	2.5	0.2	0.0	0.3	3.6	0.0	0.2
42049	42	52.9	179.5	0.0	269.3	282.4	0.0	14.7
42051	42	30.6	1.1	0.0	1.7	27.7	0.0	1.4
42053	42	1.4	0.0	0.0	0.0	0.0	0.0	0.0
42055	42	168.1	4.9	0.0	7.3	1928.4	0.0	100.2
42057	42	24.4	1.4	0.0	2.1	0.0	0.0	0.0
42059	42	6.5	1.7	0.0	2.6	65.4	0.0	3.4
42061	42	50.8	1.0	0.0	1.5	32.5	0.0	1.7
42063	42	53.6	9.2	0.0	13.8	113.5	0.0	5.9
42065	42	22.2	2.1	0.0	3.2	17.6	0.0	0.9
42067	42	42.0	1.9	0.0	2.8	132.0	0.0	6.9
42069	42	7.3	3.7	0.0	5.6	78.2	0.0	4.1
42071	42	380.6	88.6	0.0	132.9	264.7	0.0	13.8
42073	42	49.6	0.3	0.0	0.4	41.7	0.0	2.2
42075	42	92.6	2.2	0.0	3.3	45.7	0.0	2.4
42077	42	68.9	73.6	0.0	110.5	500.5	0.0	26.0
42079	42	24.0	31.9	0.0	47.9	146.4	0.0	7.6
42081	42	66.8	8.4	0.0	12.6	87.8	0.0	4.6
42083	42	3.5	0.0	0.0	0.0	26.1	0.0	1.4
42085	42	52.9	9.5	0.0	14.2	71.8	0.0	3.7
42087	42	44.2	1.0	0.0	1.5	50.5	0.0	2.6
42089	42	10.9	0.5	0.0	0.7	20.5	0.0	1.1
42091	42	39.2	0.2	0.0	0.3	93.0	0.0	4.8
42093	42	23.2	0.0	0.0	0.0	31.3	0.0	1.6
42095	42	90.3	16.7	0.0	25.1	191.3	0.0	9.9
42097	42	80.3	8.2	0.0	12.3	143.6	0.0	7.5
42099	42	53.4	1.4	0.0	2.1	79.8	0.0	4.1
42103	42	0.0	0.0	0.0	0.0	2.8	0.0	0.1
42105	42	14.3	76.7	0.0	115.1	10.4	0.0	0.5
42107	42	51.7	79.6	0.0	119.4	180.5	0.0	9.4
42109	42	47.3	2.2	0.0	3.3	385.0	0.0	20.0
42111	42	63.8	37.0	0.0	55.5	34.9	0.0	1.8
42113	42	7.0	0.0	0.0	0.0	0.0	0.0	0.0
42115	42	26.6	0.3	0.0	0.5	31.3	0.0	1.6
42117	42	45.8	0.0	0.0	0.0	91.8	0.0	4.8
42119	42	47.3	0.6	0.0	0.8	6.0	0.0	0.3
42121	42	13.2	1.3	0.0	1.9	55.3	0.0	2.9
42123	42	11.8	0.2	0.0	0.2	20.5	0.0	1.1
42125	42	33.8	2.6	0.0	3.9	186.1	0.0	9.7
42127	42	13.9	0.8	0.0	1.2	51.3	0.0	2.7
42129	42	44.3	2.2	0.0	3.3	95.1	0.0	4.9
42131	42	19.4	0.8	0.0	1.2	64.2	0.0	3.3
42133	42	216.3	106.4	0.0	159.7	631.7	0.0	32.8
51000	51	0.0	285.2	2.3	20.5	0.0	3.4	3.8
51001	51	0.0	5780.6	8.8	427.1	0.0	0.0	0.0
51003	51	0.0	133.5	0.8	9.2	0.0	0.0	0.0
51005	51	0.0	0.6	0.0	0.0	0.0	0.0	0.0
51007	51	0.0	1598.8	6.3	115.8	0.0	0.0	0.0
51009	51	0.0	4.1	0.3	0.0	0.0	0.0	0.0
51011	51	0.0	108.9	2.4	6.7	0.0	0.0	0.0
51013	51	0.0	98.8	7.4	2.1	0.0	0.0	0.0

COUNTY	STATE	DIELD- RIN	DINOSEB	DIPHENAMID	DISUL- FOTON	DIURON	EDB	FENAMIPHOS
51017	51	0.0	0.8	0.0	0.0	0.0	0.0	0.0
51019	51	0.0	63.3	2.4	2.9	0.0	0.0	0.0
51021	51	0.0	1.8	0.0	0.0	0.0	0.0	0.0
51023	51	0.0	9.3	0.9	0.0	0.0	0.0	0.0
51025	51	0.0	1453.0	10.9	104.2	0.0	2.2	2.6
51027	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51029	51	0.0	127.2	2.9	7.8	0.0	0.0	0.0
51031	51	0.0	313.2	4.6	20.6	0.0	0.0	0.0
51033	51	0.0	2368.3	5.3	173.5	0.0	0.0	0.0
51035	51	0.0	2.4	0.0	0.0	0.0	0.0	0.0
51036	51	0.0	934.2	1.5	68.7	0.0	0.0	0.0
51037	51	0.0	213.8	3.4	13.8	0.0	0.0	0.0
51041	51	0.0	393.4	2.4	28.1	0.0	0.0	0.0
51043	51	0.0	69.7	2.5	3.4	0.0	0.0	0.0
51045	51	0.0	4.9	0.6	0.0	0.0	0.0	0.0
51047	51	0.0	288.6	4.1	18.4	0.0	0.0	0.0
51049	51	0.0	144.5	1.9	9.6	0.0	0.0	0.0
51051	51	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51053	51	0.0	3953.3	49.3	324.3	0.0	76.1	87.0
51057	51	0.0	2782.5	5.8	203.9	0.0	0.0	0.0
51059	51	0.0	1.9	0.1	0.0	0.0	0.0	0.0
51061	51	0.0	552.2	5.1	37.2	0.0	0.0	0.0
51063	51	0.0	5.7	0.4	0.0	0.0	0.0	0.0
51065	51	0.0	77.5	0.4	5.5	0.0	0.0	0.0
51067	51	0.0	75.1	3.3	3.0	0.0	0.0	0.0
51069	51	0.0	25.1	2.2	0.3	0.0	0.0	0.0
51071	51	0.0	5.4	0.7	0.0	0.0	0.0	0.0
51073	51	0.0	1374.9	3.3	100.6	0.0	0.0	0.0
51075	51	0.0	426.6	1.7	30.8	0.0	0.0	0.0
51077	51	0.0	5.7	0.5	0.0	0.0	0.0	0.0
51079	51	0.0	7.1	0.6	0.0	0.0	0.0	0.0
51081	51	0.0	8845.9	189.4	792.8	0.0	319.9	365.6
51083	51	0.0	1140.4	7.3	80.9	0.0	0.1	0.2
51085	51	0.0	2516.9	7.1	183.6	0.0	0.0	0.0
51087	51	0.0	771.5	2.4	56.1	0.0	0.0	0.0
51089	51	0.0	69.8	2.7	3.7	0.0	0.0	0.0
51091	51	0.0	0.6	0.0	0.0	0.0	0.0	0.0
51093	51	0.0	12272.6	261.0	1101.0	0.0	444.8	508.3
51095	51	0.0	528.9	1.0	39.0	0.0	0.0	0.0
51097	51	0.0	1996.7	4.1	147.0	0.0	0.0	0.0
51099	51	0.0	906.5	3.3	65.7	0.0	0.0	0.0
51101	51	0.0	2412.0	4.3	177.3	0.0	0.0	0.0
51103	51	0.0	1148.8	2.5	84.2	0.0	0.0	0.0
51105	51	0.0	12.5	0.6	0.5	0.0	0.0	0.0
51107	51	0.0	1036.7	6.3	72.3	0.0	0.0	0.0
51109	51	0.0	219.2	5.9	13.0	0.0	0.0	0.0
51111	51	0.0	915.5	6.1	65.0	0.0	0.0	0.0
51113	51	0.0	31.8	3.3	0.0	0.0	0.0	0.0
51115	51	0.0	392.6	0.8	28.8	0.0	0.0	0.0
51117	51	0.0	1603.5	9.5	114.5	0.0	0.0	0.0
51119	51	0.0	1047.0	3.3	76.2	0.0	0.0	0.0

COUNTY	STATE	DIELD- RIN	DINOSEB	DIPHENAMID	DISUL- FOTON	DIURON	EDB	FENAMIPHOS
51121	51	0.0	8.6	0.6	0.0	0.0	0.0	0.0
51125	51	0.0	31.6	1.0	1.7	0.0	0.0	0.0
51127	51	0.0	767.7	1.8	56.4	0.0	0.0	0.0
51131	51	0.0	3812.8	5.3	282.0	0.0	0.0	0.0
51133	51	0.0	2157.6	3.8	158.6	0.0	0.0	0.0
51135	51	0.0	534.4	3.3	38.0	0.0	0.0	0.0
51137	51	0.0	189.0	3.1	11.9	0.0	0.0	0.0
51139	51	0.0	48.9	4.4	1.0	0.0	0.0	0.0
51141	51	0.0	89.9	1.6	5.7	0.0	0.0	0.0
51143	51	0.0	1835.6	13.2	129.6	0.0	0.0	0.0
51145	51	0.0	216.6	2.1	14.8	0.0	0.0	0.0
51147	51	0.0	282.6	3.1	19.2	0.0	0.0	0.0
51149	51	0.0	3009.7	48.9	255.1	0.0	77.7	88.8
51153	51	0.0	186.6	1.1	12.8	0.0	0.0	0.0
51155	51	0.0	8.8	0.9	0.0	0.0	0.0	0.0
51157	51	0.0	9.4	1.0	0.0	0.0	0.0	0.0
51159	51	0.0	1702.9	3.6	124.8	0.0	0.0	0.0
51161	51	0.0	0.5	0.0	0.0	0.0	0.0	0.0
51163	51	0.0	7.3	0.6	0.0	0.0	0.0	0.0
51165	51	0.0	119.4	6.3	3.7	0.0	0.0	0.0
51167	51	0.0	5.7	0.6	0.0	0.0	0.0	0.0
51169	51	0.0	4.6	0.5	0.0	0.0	0.0	0.0
51171	51	0.0	96.6	3.4	4.7	0.0	0.0	0.0
51173	51	0.0	8.9	0.9	0.0	0.0	0.0	0.0
51175	51	0.0	24318.0	543.4	2205.0	0.0	932.0	1065.1
51177	51	0.0	673.4	4.2	47.7	0.0	0.0	0.0
51179	51	0.0	308.9	1.3	22.2	0.0	0.0	0.0
51181	51	0.0	6102.3	121.6	539.9	0.0	204.7	233.9
51183	51	0.0	11407.2	224.9	1013.5	0.0	385.6	440.7
51185	51	0.0	3.1	0.1	0.0	0.0	0.0	0.0
51187	51	0.0	6.6	0.8	0.0	0.0	0.0	0.0
51191	51	0.0	13.0	0.7	0.0	0.0	0.0	0.0
51193	51	0.0	2279.5	5.9	166.4	0.0	0.0	0.0
51195	51	0.0	0.2	0.0	0.0	0.0	0.0	0.0
51197	51	0.0	10.0	0.4	0.0	0.0	0.0	0.0
51199	51	0.0	72.1	0.3	5.2	0.0	0.0	0.0
51550	51	0.0	3206.5	5.6	235.8	0.0	0.0	0.0
51800	51	0.0	10984.6	220.0	972.8	0.0	370.7	423.7
51810	51	0.0	2706.0	5.7	193.5	0.0	0.0	0.0

COUNTY	STATE	DIELD- RIN	DINOSEB	DIPHENAMID	DISUL- FOTON	DIURON	EDB	FENAMIPHOS
STATE	10	0	31714.8	65.2	2733.5	356.2	0	18.5
STATE	24	0	49703.2	159.1	3595	2855.2	0	148.5
STATE	42	3490.6	1044.6	0	1567	15702.1	0	815.6
STATE	51	0	138788.4	1912	11366.6	0	2817.2	3219.7

COUNTY	STATE	FLUOME- TURON	FONOFOS	HEXAZI- NONE	MCPA
10000	10	0.0	0.0	0.0	0.0
10001	10	6.2	635.2	225.0	59.0
10003	10	1.5	403.6	80.7	40.9
10005	10	7.8	733.2	313.1	67.3
24000	24	0.0	11.3	40.6	1.2
24001	24	0.6	28.1	0.0	2.2
24003	24	0.9	100.5	25.4	9.5
24005	24	6.2	361.7	53.9	29.9
24009	24	0.2	89.4	31.8	9.2
24011	24	3.1	377.5	110.2	35.8
24013	24	1.4	665.2	134.6	68.9
24015	24	0.6	356.6	0.0	37.1
24017	24	0.6	120.1	47.0	12.0
24019	24	3.1	321.5	122.2	30.0
24021	24	0.7	722.3	89.4	75.9
24023	24	1.2	118.2	37.3	10.9
24025	24	5.1	446.8	37.3	40.5
24027	24	1.2	184.3	19.4	17.9
24029	24	3.7	771.7	91.3	77.0
24031	24	1.2	323.9	32.7	32.8
24033	24	0.7	117.8	28.6	11.6
24035	24	3.3	781.1	107.9	78.6
24037	24	0.2	115.1	67.8	12.0
24039	24	0.1	120.0	65.0	12.6
24041	24	1.4	435.8	89.4	44.4
24043	24	0.6	438.8	57.2	45.9
24045	24	1.3	218.7	124.0	21.5
24047	24	0.1	339.0	98.7	36.0
42000	42	0.3	912.2	0.0	0.0
42001	42	1.5	1946.4	0.0	0.0
42003	42	0.9	111.8	0.0	0.0
42005	42	0.4	590.3	0.0	0.0
42005	42	0.4	264.1	0.0	0.0
42009	42	0.4	1556.8	0.0	0.0
42011	42	1.7	3793.5	0.0	0.0
42013	42	1.0	1016.7	0.0	0.0
42015	42	0.5	1751.7	0.0	0.0
42017	42	4.7	1296.3	0.0	0.0
42019	42	1.5	863.7	0.0	0.0
42021	42	0.4	454.5	0.0	0.0
42023	42	0.0	0.3	0.0	0.0
42025	42	0.4	154.9	0.0	0.0
42027	42	1.4	1574.3	0.0	0.0
42029	42	0.9	2865.4	0.0	0.0
42031	42	0.3	502.2	0.0	0.0
42033	42	0.2	315.1	0.0	0.0
42035	42	0.2	587.0	0.0	0.0
42037	42	1.8	1209.6	0.0	0.0
42039	42	0.6	1546.7	0.0	0.0
42041	42	0.8	2544.8	0.0	0.0
42043	42	0.5	1516.5	0.0	0.0
42045	42	0.2	59.4	0.0	0.0

COUNTY	STATE	FLUOME- TURON	FONOFOS	HEXAZI- NONE	MCPA
42047	42	0.0	55.3	0.0	0.0
42049	42	1.3	1121.4	0.0	0.0
42051	42	0.8	667.7	0.0	0.0
42053	42	0.0	29.9	0.0	0.0
42055	42	0.5	3529.0	0.0	0.0
42057	42	0.1	515.9	0.0	0.0
42059	42	0.2	149.5	0.0	0.0
42061	42	0.3	1079.7	0.0	0.0
42063	42	0.3	1141.0	0.0	0.0
42065	42	0.3	484.3	0.0	0.0
42067	42	0.2	891.5	0.0	0.0
42069	42	0.9	168.4	0.0	0.0
42071	42	2.9	7976.9	0.0	0.0
42073	42	0.3	1043.2	0.0	0.0
42075	42	0.8	1946.0	0.0	0.0
42077	42	1.1	1448.4	0.0	0.0
42079	42	1.6	526.4	0.0	0.0
42081	42	0.6	1410.4	0.0	0.0
42083	42	0.0	77.7	0.0	0.0
42085	42	0.5	1121.5	0.0	0.0
42087	42	0.1	936.8	0.0	0.0
42089	42	0.3	230.4	0.0	0.0
42091	42	1.7	836.9	0.0	0.0
42093	42	0.4	488.1	0.0	0.0
42095	42	1.2	1900.4	0.0	0.0
42097	42	0.6	1673.3	0.0	0.0
42099	42	0.3	1127.9	0.0	0.0
42103	42	0.0	0.2	0.0	0.0
42105	42	0.1	313.3	0.0	0.0
42107	42	1.2	1090.5	0.0	0.0
42109	42	0.3	995.0	0.0	0.0
42111	42	2.0	1378.2	0.0	0.0
42113	42	0.0	147.6	0.0	0.0
42115	42	0.1	575.1	0.0	0.0
42117	42	0.1	986.6	0.0	0.0
42119	42	0.1	993.2	0.0	0.0
42121	42	0.1	282.7	0.0	0.0
42123	42	0.2	257.0	0.0	0.0
42125	42	1.0	768.9	0.0	0.0
42127	42	0.1	297.6	0.0	0.0
42129	42	1.7	978.6	0.0	0.0
42131	42	0.3	418.6	0.0	0.0
42133	42	4.3	4536.8	0.0	0.0
51000	51	0.0	452.4	3.1	46.7
51001	51	0.0	0.0	83.9	0.0
51003	51	0.0	66.5	7.8	7.1
51005	51	0.0	7.2	0.2	0.3
51007	51	0.0	73.8	59.5	7.3
51009	51	0.0	27.5	3.2	2.9
51011	51	0.0	43.1	23.1	4.6
51015	51	0.0	286.8	70.5	30.5
51017	51	0.0	12.3	0.0	1.3

COUNTY	STATE	FLUOME- TURON	FONOFOS	HEXAZI- NONE	MCPA
51019	51	0.0	114.5	23.1	12.2
51021	51	0.0	28.0	0.0	3.0
51023	51	0.0	44.9	8.8	4.8
51025	51	0.0	59.1	91.3	5.3
51027	51	0.0	0.5	0.0	0.1
51029	51	0.0	39.9	27.2	4.2
51031	51	0.0	72.9	43.8	7.8
51033	51	0.0	122.5	50.7	13.0
51035	51	0.0	35.4	0.2	3.8
51036	51	0.0	56.0	14.3	6.0
51037	51	0.0	69.7	32.7	7.4
51041	51	0.0	8.8	22.6	0.9
51043	51	0.0	111.5	23.5	11.9
51045	51	0.0	13.1	5.5	1.4
51047	51	0.0	217.0	38.7	23.1
51049	51	0.0	37.4	18.0	4.0
51051	51	0.0	0.0	0.0	0.0
51053	51	0.0	363.2	55.3	6.2
51057	51	0.0	188.8	54.9	20.1
51059	51	0.0	13.8	1.4	1.5
51061	51	0.0	285.4	48.4	30.4
51063	51	0.0	47.3	3.7	5.0
51065	51	0.0	12.4	3.7	1.3
51067	51	0.0	170.0	31.8	18.1
51069	51	0.0	75.9	21.2	8.1
51071	51	0.0	9.9	6.5	1.1
51073	51	0.0	72.3	30.9	7.7
51075	51	0.0	45.6	16.1	4.9
51077	51	0.0	31.5	5.1	3.3
51079	51	0.0	42.0	6.0	4.5
51081	51	0.0	1378.0	62.2	10.5
51083	51	0.0	107.5	68.7	11.4
51085	51	0.0	132.7	67.8	14.1
51087	51	0.0	50.2	22.6	5.3
51089	51	0.0	26.6	25.8	2.8
51091	51	0.0	7.3	0.2	0.8
51093	51	0.0	2003.5	65.0	23.9
51095	51	0.0	0.0	9.2	0.0
51097	51	0.0	0.0	38.7	0.0
51099	51	0.0	61.2	30.9	6.5
51101	51	0.0	130.5	40.6	13.9
51103	51	0.0	57.1	23.5	6.1
51105	51	0.0	37.0	5.5	3.9
51107	51	0.0	389.2	59.5	41.4
51109	51	0.0	63.5	56.2	6.8
51111	51	0.0	39.6	57.6	4.2
51113	51	0.0	141.9	30.9	15.1
51115	51	0.0	19.6	7.8	2.1
51117	51	0.0	62.9	90.4	6.7
51119	51	0.0	51.7	30.9	5.5
51121	51	0.0	64.8	6.0	6.9

COUNTY	STATE	FLUOME- TURON	FONOFOS	HEXAZI- NONE	MCPA
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51125	51	0.0	30.2	9.2	3.2
51127	51	0.0	0.0	17.5	0.0
51131	51	0.0	7.2	50.3	0.8
51133	51	0.0	120.8	36.0	12.8
51135	51	0.0	40.8	30.9	4.3
51137	51	0.0	129.0	29.0	13.7
51139	51	0.0	80.9	41.5	8.6
51141	51	0.0	43.8	15.2	4.7
51143	51	0.0	119.8	125.9	12.7
51145	51	0.0	53.4	20.3	5.7
51147	51	0.0	52.7	29.5	5.6
51149	51	0.0	378.7	42.9	7.2
51153	51	0.0	115.1	10.6	12.2
51155	51	0.0	42.7	8.3	4.5
51157	51	0.0	40.1	9.2	4.3
51159	51	0.0	107.0	34.6	11.4
51161	51	0.0	8.2	0.0	0.9
51163	51	0.0	49.9	5.5	5.3
51165	51	0.0	416.2	59.5	44.3
51167	51	0.0	20.1	6.0	2.1
51169	51	0.0	18.1	4.6	1.9
51171	51	0.0	140.8	32.7	15.0
51173	51	0.0	38.9	8.8	4.1
51175	51	0.0	4091.1	102.8	38.7
51177	51	0.0	82.5	40.1	8.8
51179	51	0.0	39.7	12.0	4.2
51181	51	0.0	914.5	43.8	10.2
51183	51	0.0	1542.6	42.9	0.0
51185	51	0.0	33.2	1.4	3.5
51187	51	0.0	13.5	7.8	1.4
51191	51	0.0	124.0	6.9	13.2
51193	51	0.0	149.8	56.2	15.9
51195	51	0.0	2.7	0.0	0.3
51197	51	0.0	114.4	3.7	12.2
51199	51	0.0	0.0	2.8	0.0
51550	51	0.0	149.5	53.5	15.9
51800	51	0.0	1681.7	77.5	21.1
51810	51	0.0	120.2	53.9	12.8

COUNTY	STATE	FLUOME- TURON	FONOFOS	HEXAZI- NONE	MCPA
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STATE	10	15.5	1772	618.8	167.2
STATE	24	37.5	7565.4	1511.7	753.4
STATE	42	49.9	74032	0	0
STATE	51	0	19297.5	2870	854.2

COUNTY	STATE	METHOMYL	METOLACH- LOR	METRI- BUZIN	MAEICHY- DRAZIDE	OXAMYL
10000	10	18.4	0.0	997.6	6.5	2183.7
10001	10	15243.3	15701.7	28041.1	17.3	4365.3
10003	10	5061.0	7569.3	8882.6	0.0	10.5
10005	10	30174.5	27440.9	54138.1	0.0	54.4
24000	24	45.4	159.4	93.7	0.0	38.7
24001	24	244.1	225.0	0.0	0.0	475.7
24003	24	941.1	1411.9	1151.7	0.0	26.6
24005	24	3371.5	3741.5	1688.4	0.0	143.9
24009	24	607.4	1341.6	1037.2	0.0	31.3
24011	24	10512.5	10701.0	18503.2	0.0	27.0
24013	24	2040.2	8189.6	2909.8	0.0	173.4
24015	24	2051.8	5163.2	3564.7	0.0	216.0
24017	24	1578.2	2248.9	2682.0	0.0	20.6
24019	24	11258.3	10688.5	20063.2	0.0	30.3
24021	24	1050.8	8354.0	1453.2	0.0	146.6
24023	24	483.0	1130.4	0.0	0.0	28.6
24025	24	2821.4	4738.7	1464.6	0.0	222.0
24027	24	923.3	2154.3	819.4	0.0	91.3
24029	24	4900.4	10496.7	6763.8	0.0	28.2
24031	24	1590.4	4197.0	2169.9	0.0	46.6
24033	24	978.7	1721.4	1392.2	0.0	80.4
24035	24	8557.0	13553.5	14424.0	0.0	25.4
24037	24	1895.2	2621.1	3657.1	0.0	10.0
24039	24	3780.7	4128.0	7478.4	0.0	0.8
24041	24	8342.7	10458.1	15547.0	0.0	12.9
24043	24	547.6	4930.8	564.2	0.0	2899.3
24045	24	8740.0	8446.1	16463.5	0.0	9.0
24047	24	6998.4	8973.3	13939.6	0.0	0.4
42000	42	117.8	3209.6	164.2	1.1	287.4
42001	42	654.2	6771.1	119.5	0.8	10134.1
42003	42	367.7	334.2	7.9	0.1	158.3
42005	42	190.3	1956.2	51.2	0.3	192.4
42007	42	182.5	857.7	32.2	0.2	204.7
42009	42	176.2	5299.9	15.1	0.1	562.3
42011	42	741.5	13097.2	74.2	0.5	991.6
42013	42	402.4	3450.7	7.9	0.1	439.6
42015	42	218.5	5911.1	21.7	0.1	167.6
42017	42	1907.5	4357.2	60.4	0.4	311.3
42019	42	631.4	2863.4	207.5	1.3	866.7
42021	42	216.5	1543.3	1850.0	12.0	3053.9
42023	42	0.0	0.0	0.0	0.0	3.8
42025	42	148.1	523.2	111.6	0.7	196.4
42027	42	571.4	5355.7	26.9	0.2	228.6
42029	42	422.8	9903.4	227.2	1.5	736.4
42031	42	110.7	1702.6	0.0	0.0	36.1
42033	42	69.2	1046.3	44.7	0.3	132.7
42035	42	80.9	2026.1	79.5	0.5	158.8
42037	42	762.9	4146.3	259.4	1.7	631.0
42039	42	269.8	5339.4	255.5	1.7	489.5
42041	42	349.1	8814.5	14.4	0.1	727.9
42043	42	232.3	5272.2	21.7	0.1	192.6

COUNTY	STATE	METHOMYL	METOLACH- LOR	METRI- BUZIN	MAEICHY- DRAZIDE	OXAMYL
42045	42	82.4	201.6	0.0	0.0	33.2
42047	42	0.8	182.1	2.6	0.0	10.0
42049	42	584.3	3856.2	2303.8	15.0	4196.3
42051	42	329.3	2228.3	14.4	0.1	72.9
42053	42	4.5	99.0	0.0	0.0	0.1
42055	42	260.4	12227.7	62.4	0.4	3160.3
42057	42	37.9	1771.9	18.4	0.1	30.4
42059	42	68.6	470.3	22.3	0.1	141.0
42061	42	126.0	3696.0	13.	0.1	74.7
42063	42	142.1	3900.6	118.2	0.8	373.9
42065	42	109.9	1616.1	27.6	0.2	74.5
42067	42	109.4	3056.2	24.	0.2	250.2
42069	42	369.2	533.9	47.9	0.3	208.1
42071	42	1313.2	27687.7	1136.8	7.4	2285.3
42073	42	140.7	3606.3	3.3	0.0	73.6
42075	42	336.1	6739.9	28.2	0.2	123.6
42077	42	497.2	5015.8	945.0	6.1	2335.1
42079	42	645.3	1753.1	409.8	2.7	908.1
42081	42	254.8	4861.4	107.7	0.7	318.1
42083	42	14.3	256.7	0.0	0.0	41.5
42085	42	225.6	3849.9	121.5	0.8	314.6
42087	42	72.0	3212.6	13.1	0.1	102.4
42089	42	115.4	791.5	5.9	0.0	43.9
42091	42	685.6	2859.9	2.6	0.0	163.4
42093	42	164.7	1688.7	0.0	0.0	52.3
42095	42	495.2	6570.4	214.7	1.4	659.8
42097	42	278.0	5842.0	105.1	0.7	402.5
42099	42	121.7	3881.9	17.7	0.1	157.1
42103	42	0.0	0.0	0.0	0.0	4.4
42105	42	72.2	1039.3	984.4	6.4	1615.5
42107	42	531.5	3763.1	1021.2	6.6	1952.4
42109	42	121.2	3440.7	18.2	0.2	657.7
42111	42	830.3	4651.7	44.8	3.1	840.0
42113	42	2.0	507.9	0.0	0.0	0.0
42115	42	66.9	1936.6	3.9	0.0	57.0
42117	42	37.6	3328.2	0.0	0.0	145.9
42119	42	64.7	3438.0	7.2	0.0	22.1
42121	42	54.1	958.4	16.4	0.1	115.2
42123	42	96.3	862.7	2.0	0.0	37.2
42125	42	426.5	2465.3	33.5	0.2	356.4
42127	42	42.9	1013.5	9.9	0.1	98.0
42129	42	719.1	3230.5	28.2	0.2	208.7
42131	42	112.8	1408.9	9.9	0.1	119.5
42133	42	1834.9	15748.8	1366.0	8.9	3248.6
51000	51	362.6	5049.4	508.1	0.0	0.0
51001	51	8165.5	6196.5	16374.4	0.0	0.0
51003	51	180.6	861.6	353.6	0.0	0.0
51005	51	0.5	78.7	0.0	0.0	0.0
51007	51	2218.2	2486.5	4438.8	0.0	0.0
51009	51	1.8	300.9	0.0	0.0	0.0
51011	51	130.0	567.4	255.2	0.0	0.0

COUNTY	STATE	METHOMYL	METOLACH- LOR	METRI- BUZIN	MAEICHY- DRAZIDE	OXAMYL
51015	51	59.1	3167.8	81.7	0.0	0.0
51017	51	0.8	134.4	0.0	0.0	0.0
51019	51	63.0	1294.8	111.8	0.0	0.0
51021	51	1.8	306.7	0.0	0.0	0.0
51023	51	2.9	491.5	0.0	0.0	0.0
51025	51	1957.8	2028.1	3810.9	0.0	0.0
51027	51	0.0	5.7	0.0	0.0	0.0
51029	51	151.9	549.3	299.6	0.0	0.0
51031	51	399.1	1097.1	791.0	0.0	0.0
51033	51	3324.9	3856.9	6651.7	0.0	0.0
51035	51	2.3	387.0	0.0	0.0	0.0
51036	51	1317.4	1609.6	2634.6	0.0	0.0
51037	51	269.0	962.9	530.5	0.0	0.0
51041	51	537.8	503.9	1077.3	0.0	0.0
51043	51	71.7	1268.3	129.4	0.0	0.0
51045	51	0.8	143.4	0.0	0.0	0.0
51047	51	365.4	2639.8	704.9	0.0	0.0
51049	51	186.4	548.1	369.0	0.0	0.0
51051	51	0.0	0.0	0.0	0.0	0.0
51053	51	4923.0	4253.0	6180.0	0.0	0.0
51057	51	3910.0	5023.0	7816.7	0.0	0.0
51059	51	0.9	150.9	0.0	0.0	0.0
51061	51	729.8	3660.8	1426.9	0.0	0.0
51063	51	3.0	517.2	0.0	0.0	0.0
51065	51	106.4	215.5	211.8	0.0	0.0
51067	51	69.1	1902.9	116.8	0.0	0.0
51069	51	11.5	835.1	13.3	0.0	0.0
51071	51	0.6	108.1	0.0	0.0	0.0
51073	51	1928.7	2251.2	3858.3	0.0	0.0
51075	51	590.9	944.8	1179.0	0.0	0.0
51077	51	2.0	344.3	0.0	0.0	0.0
51079	51	2.7	459.4	0.0	0.0	0.0
51081	51	9780.0	7978.7	4111.5	0.0	0.0
51083	51	1551.9	2341.7	3091.7	0.0	0.0
51085	51	3518.8	4115.1	7039.4	0.0	0.0
51087	51	1076.4	1363.9	2152.2	0.0	0.0
51089	51	71.7	343.7	140.5	0.0	0.0
51091	51	0.5	80.1	0.0	0.0	0.0
51093	51	13580.6	12035.6	5672.5	0.0	0.0
51095	51	745.5	565.7	1494.9	0.0	0.0
51097	51	2810.3	2132.6	5635.5	0.0	0.0
51099	51	1260.1	1622.9	2519.2	0.0	0.0
51101	51	3397.7	3999.3	6796.8	0.0	0.0
51103	51	1614.1	1846.7	3229.4	0.0	0.0
51105	51	11.0	411.6	17.3	0.0	0.0
51107	51	1407.0	5305.5	2771.7	0.0	0.0
51109	51	252.1	883.0	497.4	0.0	0.0
51111	51	1245.5	1376.2	2492.5	0.0	0.0
51113	51	9.1	1552.2	0.0	0.0	0.0
51115	51	551.8	631.7	1103.9	0.0	0.0
51117	51	2192.7	2348.8	4389.1	0.0	0.0

COUNTY	STATE	METHOMYL	METOLACH- LOR	METRI- BUZIN	MAEICHY- DRAZIDE	OXAMYL
51119	51	1461.0	1671.5	2923.2	0.0	0.0
51121	51	4.1	708.4	0.0	0.0	0.0
51125	51	34.5	355.0	65.4	0.0	0.0
51127	51	1077.7	817.9	2161.2	0.0	0.0
51131	51	5391.1	4169.0	10809.9	0.0	0.0
51133	51	3039.6	3621.7	6079.9	0.0	0.0
51135	51	729.5	997.8	1457.6	0.0	0.0
51137	51	235.8	1583.3	456.4	0.0	0.0
51139	51	24.0	899.4	37.7	0.0	0.0
51141	51	111.1	561.5	217.2	0.0	0.0
51143	51	2485.2	3190.8	4968.3	0.0	0.0
51145	51	286.4	798.9	567.5	0.0	0.0
51147	51	371.0	854.8	737.3	0.0	0.0
51149	51	3574.3	3324.9	3395.6	0.0	0.0
51153	51	252.1	1444.0	490.8	0.0	0.0
51155	51	2.7	467.3	0.0	0.0	0.0
51157	51	2.6	438.9	0.0	0.0	0.0
51159	51	2392.2	2980.9	4783.4	0.0	0.0
51161	51	0.5	89.7	0.0	0.0	0.0
51163	51	3.2	546.0	0.0	0.0	0.0
51165	51	96.6	4604.3	140.5	0.0	0.0
51167	51	1.3	219.3	0.0	0.0	0.0
51169	51	1.2	198.1	0.0	0.0	0.0
51171	51	99.7	1608.7	181.8	0.0	0.0
51173	51	2.5	425.5	0.0	0.0	0.0
51175	51	26498.5	22566.9	7971.5	0.0	0.0
51177	51	917.1	1593.8	1828.6	0.0	0.0
51179	51	427.4	756.2	352.1	0.0	0.0
51181	51	6884.2	5937.5	3883.3	0.0	0.0
51183	51	12888.5	9160.9	7175.2	0.0	0.0
51185	51	2.1	363.2	0.0	0.0	0.0
51187	51	0.9	148.0	0.0	0.0	0.0
51191	51	7.9	1356.4	0.0	0.0	0.0
51193	51	3191.5	4053.1	6380.8	0.0	0.0
51195	51	0.2	30.0	0.0	0.0	0.0
51197	51	7.3	1251.2	0.0	0.0	0.0
51199	51	100.0	75.9	200.5	0.0	0.0
51500	51	4518.1	5056.4	9041.1	0.0	0.0
51800	51	12373.1	10958.0	6938.5	0.0	0.0
51810	51	3803.7	4195.3	7612.2	0.0	0.0

COUNTY	STATE	METHOMYL	METOLACH- LOR	METRI- BUZIN	MAEICHY- DRAZIDE	OXAMYL
STATE	10	50497.2	50711.9	92059.4	23.8	6613.9
STATE	24	84260.1	129774	137830.8	0	4785
STATE	42	21421.3	254032.6	13404.7	87.2	46989.2
STATE	51	170427.1	212217.9	204338.3	0	0

COUNTY	STATE	PARAQUAT	PCNB	PICLORAM	PROMETON	PRONAMIDE	PROPAZINE
10000	10	870.5	0.0	0.0	0.0	0.0	0.0
10001	10	16009.7	0.0	710.5	0.0	0.0	0.0
10003	10	7714.3	0.0	254.8	0.0	0.0	0.0
10005	10	26972.2	0.0	988.6	0.0	0.0	0.0
24000	24	302.8	0.0	128.1	0.0	0.0	0.0
24001	24	891.2	0.0	0.0	0.0	0.0	0.0
24003	24	1510.0	0.0	80.1	0.0	0.0	0.0
24005	24	4086.0	0.0	170.4	0.0	0.0	0.0
24009	24	1471.1	0.0	100.5	0.0	0.0	0.0
24011	24	10622.1	0.0	348.0	0.0	0.0	0.0
24013	24	8989.6	0.0	425.1	0.0	0.0	0.0
24015	24	5559.7	0.0	0.0	0.0	0.0	0.0
24017	24	2361.0	0.0	148.5	0.0	0.0	0.0
24019	24	10566.7	0.0	385.8	0.0	0.0	0.0
24021	24	9107.6	0.0	282.5	0.0	0.0	0.0
24023	24	1291.7	0.0	117.9	0.0	0.0	0.0
24025	24	5235.3	0.0	117.9	0.0	0.0	0.0
24027	24	2379.6	0.0	61.2	0.0	0.0	0.0
24029	24	10911.3	0.0	288.3	0.0	0.0	0.0
24031	24	4432.7	0.0	103.4	0.0	0.0	0.0
24033	24	1909.2	0.0	90.3	0.0	0.0	0.0
24035	24	13806.6	0.0	340.7	0.0	0.0	0.0
24037	24	2741.9	0.0	214.0	0.0	0.0	0.0
24039	24	4130.9	0.0	205.3	0.0	0.0	0.0
24041	24	10466.0	0.0	282.5	0.0	0.0	0.0
24043	24	9315.5	0.0	180.5	0.0	0.0	0.0
24045	24	8374.1	0.0	391.7	0.0	0.0	0.0
24047	24	8999.2	0.0	311.6	0.0	0.0	0.0
42000	42	2146.0	0.0	0.0	0.0	0.0	0.0
42001	42	18285.5	0.0	0.0	0.0	0.0	0.0
42003	42	411.8	0.0	0.0	0.0	0.0	0.0
42005	42	1434.8	0.0	0.0	0.0	0.0	0.0
42007	42	772.6	0.0	0.0	0.0	0.0	0.0
42009	42	4223.7	0.0	0.0	0.0	0.0	0.0
42011	42	9793.8	0.0	0.0	0.0	0.0	0.0
42013	42	2848.1	0.0	0.0	0.0	0.0	0.0
42015	42	4059.3	0.0	0.0	0.0	0.0	0.0
42017	42	3105.1	0.0	0.0	0.0	0.0	0.0
42019	42	2616.4	0.0	0.0	0.0	0.0	0.0
42021	42	1234.3	0.0	0.0	0.0	0.0	0.0
42023	42	5.3	0.0	0.0	0.0	0.0	0.0
42025	42	369.7	0.0	0.0	0.0	0.0	0.0
42027	42	3757.9	0.0	0.0	0.0	0.0	0.0
42029	42	7018.5	0.0	0.0	0.0	0.0	0.0
42031	42	1164.4	0.0	0.0	0.0	0.0	0.0
42033	42	772.3	0.0	0.0	0.0	0.0	0.0
42035	42	1375.7	0.0	0.0	0.0	0.0	0.0
42037	42	3013.0	0.0	0.0	0.0	0.0	0.0
42039	42	3622.1	0.0	0.0	0.0	0.0	0.0
42041	42	6757.5	0.0	0.0	0.0	0.0	0.0
42043	42	3674.5	0.0	0.0	0.0	0.0	0.0
42045	42	176.1	0.0	0.0	0.0	0.0	0.0

COUNTY	STATE	PARAQUAT	PCNB	PICLORAM	PROMETON	PRONAMIDE	PROPAGINE
42047	42	127.7	0.0	0.0	0.0	0.0	0.0
42049	42	3345.3	0.0	0.0	0.0	0.0	0.0
42051	42	1522.7	0.0	0.0	0.0	0.0	0.0
42053	42	65.0	0.0	0.0	0.0	0.0	0.0
42055	42	12285.2	0.0	0.0	0.0	0.0	0.0
42057	42	1164.1	0.0	0.0	0.0	0.0	0.0
42059	42	454.5	0.0	0.0	0.0	0.0	0.0
42061	42	2497.5	0.0	0.0	0.0	0.0	0.0
42063	42	2819.4	0.0	0.0	0.0	0.0	0.0
42065	42	1101.2	0.0	0.0	0.0	0.0	0.0
42067	42	2298.3	0.0	0.0	0.0	0.0	0.0
42069	42	525.0	0.0	0.0	0.0	0.0	0.0
42071	42	18842.1	0.0	0.0	0.0	0.0	0.0
42073	42	2458.1	0.0	0.0	0.0	0.0	0.0
42075	42	4524.2	0.0	0.0	0.0	0.0	0.0
42077	42	4473.6	0.0	0.0	0.0	0.0	0.0
42079	42	1504.6	0.0	0.0	0.0	0.0	0.0
42081	42	3391.7	0.0	0.0	0.0	0.0	0.0
42083	42	225.9	0.0	0.0	0.0	0.0	0.0
42085	42	2693.8	0.0	0.0	0.0	0.0	0.0
42087	42	2220.4	0.0	0.0	0.0	0.0	0.0
42089	42	564.4	0.0	0.0	0.0	0.0	0.0
42091	42	2078.5	0.0	0.0	0.0	0.0	0.0
42093	42	1176.3	0.0	0.0	0.0	0.0	0.0
42095	42	4749.3	0.0	0.0	0.0	0.0	0.0
42097	42	4157.9	0.0	0.0	0.0	0.0	0.0
42099	42	2724.4	0.0	0.0	0.0	0.0	0.0
42103	42	6.2	0.0	0.0	0.0	0.0	0.0
42105	42	787.8	0.0	0.0	0.0	0.0	0.0
42107	42	2951.2	0.0	0.0	0.0	0.0	0.0
42109	42	3109.6	0.0	0.0	0.0	0.0	0.0
42111	42	3165.0	0.0	0.0	0.0	0.0	0.0
42113	42	333.3	0.0	0.0	0.0	0.0	0.0
42115	42	1339.9	0.0	0.0	0.0	0.0	0.0
42117	42	2386.5	0.0	0.0	0.0	0.0	0.0
42119	42	2269.6	0.0	0.0	0.0	0.0	0.0
42121	42	752.2	0.0	0.0	0.0	0.0	0.0
42123	42	610.9	0.0	0.0	0.0	0.0	0.0
42125	42	2029.0	0.0	0.0	0.0	0.0	0.0
42127	42	779.0	0.0	0.0	0.0	0.0	0.0
42129	42	2328.1	0.0	0.0	0.0	0.0	0.0
42131	42	1066.4	0.0	0.0	0.0	0.0	0.0
42133	42	11834.3	0.0	0.0	0.0	0.0	0.0
51000	51	5238.2	0.0	9.9	0.0	0.0	0.0
51001	51	5931.6	0.0	265.0	0.0	0.0	0.0
51003	51	906.8	0.0	24.8	0.0	0.0	0.0
51005	51	83.2	0.0	0.6	0.0	0.0	0.0
51007	51	2534.4	0.0	187.8	0.0	0.0	0.0
51009	51	323.5	0.0	10.2	0.0	0.0	0.0
51011	51	633.8	0.0	72.8	0.0	0.0	0.0
51015	51	3478.8	0.0	222.8	0.0	0.0	0.0
51017	51	141.4	0.0	0.0	0.0	0.0	0.0

COUNTY	STATE	PARAQUAT	PCNB	PICLORAM	PROMETON	PRONAMIDE	PROPAZINE
51019	51	1406.1	0.0	72.8	0.0	0.0	0.0
51021	51	322.8	0.0	0.0	0.0	0.0	0.0
51023	51	535.7	0.0	27.7	0.0	0.0	0.0
51025	51	2108.9	0.0	288.3	0.0	0.0	0.0
51027	51	6.0	0.0	0.0	0.0	0.0	0.0
51029	51	621.3	0.0	85.9	0.0	0.0	0.0
51031	51	1209.9	0.0	138.3	0.0	0.0	0.0
51033	51	3854.7	0.0	160.2	0.0	0.0	0.0
51035	51	407.7	0.0	0.6	0.0	0.0	0.0
51036	51	1600.8	0.0	45.1	0.0	0.0	0.0
51037	51	1057.6	0.0	103.4	0.0	0.0	0.0
51041	51	527.5	0.0	71.3	0.0	0.0	0.0
51043	51	1378.4	0.0	74.3	0.0	0.0	0.0
51045	51	162.5	0.0	17.5	0.0	0.0	0.0
51047	51	2827.0	0.0	122.3	0.0	0.0	0.0
51049	51	597.5	0.0	56.8	0.0	0.0	0.0
51051	51	0.0	0.0	0.0	0.0	0.0	0.0
51053	51	2964.4	0.0	174.7	0.0	0.0	0.0
51057	51	5036.1	0.0	173.3	0.0	0.0	0.0
51059	51	161.7	0.0	4.4	0.0	0.0	0.0
51061	51	3888.1	0.0	152.9	0.0	0.0	0.0
51063	51	552.2	0.0	11.6	0.0	0.0	0.0
51065	51	224.7	0.0	11.6	0.0	0.0	0.0
51067	51	2064.3	0.0	100.5	0.0	0.0	0.0
51069	51	923.0	0.0	67.0	0.0	0.0	0.0
51071	51	127.4	0.0	20.4	0.0	0.0	0.0
51073	51	2253.8	0.0	97.6	0.0	0.0	0.0
51075	51	973.2	0.0	51.0	0.0	0.0	0.0
51077	51	373.0	0.0	16.0	0.0	0.0	0.0
51079	51	496.2	0.0	18.9	0.0	0.0	0.0
51081	51	2708.3	0.0	196.6	0.0	0.0	0.0
51083	51	2462.1	0.0	216.9	0.0	0.0	0.0
51085	51	4144.2	0.0	214.0	0.0	0.0	0.0
51087	51	1382.3	0.0	71.3	0.0	0.0	0.0
51089	51	409.6	0.0	81.5	0.0	0.0	0.0
51091	51	84.7	0.0	0.6	0.0	0.0	0.0
51093	51	4714.8	0.0	205.3	0.0	0.0	0.0
51095	51	544.8	0.0	29.1	0.0	0.0	0.0
51097	51	2062.2	0.0	122.3	0.0	0.0	0.0
51099	51	1655.2	0.0	97.6	0.0	0.0	0.0
51101	51	3976.4	0.0	128.1	0.0	0.0	0.0
51103	51	1841.9	0.0	74.3	0.0	0.0	0.0
51105	51	444.0	0.0	17.5	0.0	0.0	0.0
51107	51	5579.6	0.0	187.8	0.0	0.0	0.0
51109	51	1024.5	0.0	177.6	0.0	0.0	0.0
51111	51	1453.1	0.0	182.0	0.0	0.0	0.0
51113	51	1698.7	0.0	97.6	0.0	0.0	0.0
51115	51	629.7	0.0	24.8	0.0	0.0	0.0
51117	51	2456.9	0.0	285.4	0.0	0.0	0.0
51119	51	1687.4	0.0	97.6	0.0	0.0	0.0
51121	51	758.2	0.0	18.9	0.0	0.0	0.0
51125	51	390.0	0.0	29.1	0.0	0.0	0.0

COUNTY	STATE	PARAQUAT	PCNB	PICLORAM	PROMETON	PRONAMIDE	PROPAZINE
51127	51	796.5	0.0	55.3	0.0	0.0	0.0
51131	51	3987.4	0.0	158.7	0.0	0.0	0.0
51133	51	3602.8	0.0	113.6	0.0	0.0	0.0
51135	51	1047.0	0.0	97.6	0.0	0.0	0.0
51137	51	1706.3	0.0	91.7	0.0	0.0	0.0
51139	51	1032.2	0.0	131.0	0.0	0.0	0.0
51141	51	612.8	0.0	48.0	0.0	0.0	0.0
51143	51	3390.6	0.0	397.5	0.0	0.0	0.0
51145	51	857.0	0.0	64.1	0.0	0.0	0.0
51147	51	927.3	0.0	93.2	0.0	0.0	0.0
51149	51	2063.3	0.0	135.4	0.0	0.0	0.0
51153	51	1519.2	0.0	33.5	0.0	0.0	0.0
51155	51	509.3	0.0	26.2	0.0	0.0	0.0
51157	51	481.3	0.0	29.1	0.0	0.0	0.0
51159	51	2986.2	0.0	109.2	0.0	0.0	0.0
51161	51	94.4	0.0	0.0	0.0	0.0	0.0
51163	51	586.3	0.0	17.5	0.0	0.0	0.0
51165	51	4964.8	0.0	187.8	0.0	0.0	0.0
51167	51	243.4	0.0	18.9	0.0	0.0	0.0
51169	51	218.2	0.0	14.6	0.0	0.0	0.0
51171	51	1753.6	0.0	103.4	0.0	0.0	0.0
51173	51	466.3	0.0	27.7	0.0	0.0	0.0
51175	51	7200.2	0.0	324.7	0.0	0.0	0.0
51177	51	1676.3	0.0	126.7	0.0	0.0	0.0
51179	51	781.2	0.0	37.9	0.0	0.0	0.0
51181	51	2558.9	0.0	138.3	0.0	0.0	0.0
51183	51	2612.0	0.0	135.4	0.0	0.0	0.0
51185	51	385.2	0.0	4.4	0.0	0.0	0.0
51187	51	172.2	0.0	24.8	0.0	0.0	0.0
51191	51	1442.2	0.0	21.8	0.0	0.0	0.0
51193	51	4085.5	0.0	177.6	0.0	0.0	0.0
51195	51	31.6	0.0	0.0	0.0	0.0	0.0
51197	51	1324.7	0.0	11.6	0.0	0.0	0.0
51199	51	76.3	0.0	8.7	0.0	0.0	0.0
51550	51	5011.1	0.0	168.9	0.0	0.0	0.0
51800	51	4854.6	0.0	244.6	0.0	0.0	0.0
51810	51	4172.6	0.0	170.4	0.0	0.0	0.0

COUNTY	STATE	PARAQUAT	PCNB	PICLORAM	PROMETON	PRONAMIDE	PROPAZINE
STATE 10		51566.7	0	1353.9	0	0	0
STATE 24		139461.8	0	4774.3	0	0	0
STATE 42		202378.5	0	0	0	0	0
STATE 51		170273.6	0	9064	0	0	0

COUNTY	STATE	SILVEX	SIMAZINE	TEBUTHIU- RON	2,4,5-T	TERBACIL	2,4-D
10000	10	27.8	328.4	0.0	0.0	0.0	24.9
10001	10	0.0	7973.7	0.0	888.0	0.0	13152.4
10003	10	0.0	5474.4	0.0	330.3	0.0	7324.3
10005	10	0.0	9121.8	0.0	1226.7	0.0	16761.8
24000	24	1.9	206.1	0.0	154.5	0.0	965.7
24001	24	23.2	561.7	0.0	1.3	0.0	317.6
24003	24	1.0	1282.6	0.0	101.8	0.0	1815.5
24005	24	4.9	4063.7	0.0	222.3	0.0	5246.5
24009	24	1.5	1260.7	0.0	126.1	0.0	1894.4
24011	24	0.3	4828.0	0.0	439.1	0.0	7520.5
24013	24	8.1	9323.1	0.0	551.5	0.0	11985.5
24015	24	10.4	5047.1	0.0	22.2	0.0	5074.0
24017	24	0.8	1627.8	0.0	185.4	0.0	2613.8
24019	24	0.4	4058.9	0.0	481.0	0.0	7012.2
24021	24	7.0	10212.0	0.0	384.5	0.0	11976.1
24023	24	1.0	1487.3	0.0	148.1	0.0	2227.3
24025	24	9.2	5507.7	0.0	165.8	0.0	6307.0
24027	24	4.1	2434.8	0.0	84.1	0.0	2825.9
24029	24	0.1	10287.7	0.0	392.2	0.0	12365.6
24031	24	1.9	4395.6	0.0	143.7	0.0	5116.5
24033	24	3.7	1600.0	0.0	115.3	0.0	2168.4
24035	24	0.1	10503.6	0.0	456.0	0.0	13092.4
24037	24	0.4	1641.7	0.0	264.1	0.0	3046.0
24039	24	0.0	1713.8	0.0	253.9	0.0	3169.2
24041	24	0.2	5955.8	0.0	365.6	0.0	8146.9
24043	24	142.4	7808.7	0.0	244.2	0.0	7387.0
24045	24	0.0	2927.3	0.0	482.9	0.0	5781.2
24047	24	0.0	4834.3	0.0	395.5	0.0	7125.4
42000	42	0.9	925.3	0.0	0.0	0.0	1564.2
42001	42	488.3	7706.7	0.0	0.0	0.0	3642.4
42003	42	6.8	175.8	0.0	0.0	0.0	184.5
42005	42	5.2	618.8	0.0	0.0	0.0	961.9
42007	42	7.3	331.1	0.0	0.0	0.0	430.0
42009	42	26.3	1821.0	0.0	0.0	0.0	2597.0
42011	42	42.3	4230.3	0.0	0.0	0.0	6417.6
42013	42	20.7	1227.1	0.0	0.0	0.0	1707.2
42015	42	6.3	1758.8	0.0	0.0	0.0	2882.3
42017	42	8.9	1344.3	0.0	0.0	0.0	2212.2
42019	42	25.5	1117.2	0.0	0.0	0.0	1437.7
42021	42	2.3	467.2	0.0	0.0	0.0	770.9
42023	42	0.2	2.2	0.0	0.0	0.0	0.1
42025	42	0.6	156.3	0.0	0.0	0.0	262.0
42027	42	8.6	1627.2	0.0	0.0	0.0	2631.5
42029	42	17.8	3030.9	0.0	0.0	0.0	4837.5
42031	42	1.7	504.9	0.0	0.0	0.0	832.4
42033	42	2.9	332.4	0.0	0.0	0.0	513.1
42035	42	1.4	593.7	0.0	0.0	0.0	988.1
42037	42	9.7	1295.0	0.0	0.0	0.0	2056.2
42039	42	3.5	1561.8	0.0	0.0	0.0	2606.8
42041	42	34.4	2917.5	0.0	0.0	0.0	4315.6
42043	42	7.6	1591.2	0.0	0.0	0.0	2573.8

COUNTY	STATE	SILVEX	SIMAZINE	TEBUTHIU- RON	2,4,5-T	TERBACIL	2,4-D
42045	42	1.6	75.8	0.0	0.0	0.0	102.8
42047	42	0.3	55.2	0.0	0.0	0.0	88.6
42049	42	22.0	1358.3	0.0	0.0	0.0	1926.3
42051	42	2.2	660.0	0.0	0.0	0.0	1098.4
42053	42	0.0	28.2	0.0	0.0	0.0	48.3
42055	42	150.3	5261.2	0.0	0.0	0.0	6044.5
42057	42	0.0	504.7	0.0	0.0	0.0	861.5
42059	42	5.1	194.2	0.0	0.0	0.0	235.0
42061	42	2.5	1082.7	0.0	0.0	0.0	1800.7
42063	42	8.8	1215.7	0.0	0.0	0.0	1905.5
42065	42	1.4	476.6	0.0	0.0	0.0	790.3
42067	42	10.3	992.2	0.0	0.0	0.0	1494.8
42069	42	6.1	223.8	0.0	0.0	0.0	281.2
42071	42	20.6	8130.3	0.0	0.0	0.0	13514.3
42073	42	3.3	1065.7	0.0	0.0	0.0	1758.3
42075	42	3.6	1961.8	0.0	0.0	0.0	3288.2
42077	42	39.0	1889.9	0.0	0.0	0.0	2488.4
42079	42	11.4	633.7	0.0	0.0	0.0	891.5
42081	42	6.8	1465.6	0.0	0.0	0.0	2375.6
42083	42	2.0	97.2	0.0	0.0	0.0	126.6
42085	42	5.6	1162.7	0.0	0.0	0.0	1882.8
42087	42	3.9	961.7	0.0	0.0	0.0	1564.5
42089	42	1.6	244.2	0.0	0.0	0.0	390.6
42091	42	7.3	899.8	0.0	0.0	0.0	1425.3
42093	42	2.4	509.7	0.0	0.0	0.0	828.7
42095	42	14.9	2047.6	0.0	0.0	0.0	3222.3
42097	42	11.2	1796.4	0.0	0.0	0.0	2855.3
42099	42	6.2	1179.3	0.0	0.0	0.0	1893.2
42103	42	0.2	2.6	0.0	0.0	0.0	0.1
42105	42	0.8	305.6	0.0	0.0	0.0	513.7
42107	42	14.1	1237.9	0.0	0.0	0.0	1866.2
42109	42	30.0	1335.1	0.0	0.0	0.0	1695.0
42111	42	2.7	1356.5	0.0	0.0	0.0	2301.1
42113	42	0.0	144.7	0.0	0.0	0.0	246.5
42115	42	2.4	580.5	0.0	0.0	0.0	944.3
42117	42	7.2	1032.8	0.0	0.0	0.0	1621.0
42119	42	0.5	984.9	0.0	0.0	0.0	1671.2
42121	42	4.3	324.0	0.0	0.0	0.0	470.5
42123	42	1.6	264.5	0.0	0.0	0.0	424.2
42125	42	14.5	873.4	0.0	0.0	0.0	1226.4
42127	42	4.0	336.0	0.0	0.0	0.0	496.4
42129	42	7.4	1007.2	0.0	0.0	0.0	1607.0
42131	42	5.0	460.4	0.0	0.0	0.0	692.3
42133	42	49.2	5067.0	0.0	0.0	0.0	7768.7
51000	51	0.0	6203.7	0.0	39.9	0.0	6325.1
51001	51	0.0	48.6	0.0	318.0	0.0	2083.3
51003	51	0.0	944.7	0.0	33.9	0.0	1111.1
51005	51	0.0	101.8	0.0	1.2	0.0	106.1
51007	51	0.0	1076.6	0.0	230.1	0.0	2339.7
51009	51	0.0	390.5	0.0	14.0	0.0	455.3
51011	51	0.0	621.6	0.0	90.1	0.0	1074.5

COUNTY	STATE	SILVEX	SIMAZINE	TEBUTHIU- RON	2,4,5-T	TERBACIL	2,4-D
51015	51	0.0	4093.1	0.0	285.6	0.0	5477.2
51017	51	0.0	173.6	0.0	0.8	0.0	174.9
51019	51	0.0	1631.3	0.0	94.7	0.0	2088.1
51021	51	0.0	396.2	0.0	1.8	0.0	399.2
51023	51	0.0	640.0	0.0	36.1	0.0	812.6
51025	51	0.0	761.4	0.0	349.1	0.0	2616.0
51027	51	0.0	7.3	0.0	0.0	0.0	7.4
51029	51	0.0	578.8	0.0	105.6	0.0	1112.0
51031	51	0.0	1056.0	0.0	170.6	0.0	1923.5
51033	51	0.0	1760.1	0.0	200.0	0.0	2918.2
51035	51	0.0	500.1	0.0	3.0	0.0	507.4
51036	51	0.0	799.7	0.0	57.7	0.0	1148.2
51037	51	0.0	1003.6	0.0	128.5	0.0	1652.0
51041	51	0.0	137.4	0.0	86.2	0.0	599.2
51043	51	0.0	1588.8	0.0	96.2	0.0	2054.5
51045	51	0.0	188.4	0.0	21.8	0.0	295.8
51047	51	0.0	3088.0	0.0	160.6	0.0	3871.4
51049	51	0.0	538.1	0.0	70.5	0.0	896.2
51051	51	0.0	0.0	0.0	0.0	0.0	0.0
51053	51	0.0	861.7	0.0	213.4	0.0	2121.7
51057	51	0.0	2699.3	0.0	220.0	0.0	3974.4
51059	51	0.0	195.7	0.0	6.1	0.0	223.6
51061	51	0.0	4059.6	0.0	201.7	0.0	5054.6
51063	51	0.0	670.3	0.0	17.0	0.0	746.0
51065	51	0.0	177.0	0.0	14.8	0.0	254.5
51067	51	0.0	2419.5	0.0	131.4	0.0	3050.1
51069	51	0.0	1084.6	0.0	85.2	0.0	1499.3
51071	51	0.0	143.4	0.0	25.1	0.0	268.1
51073	51	0.0	1039.9	0.0	121.7	0.0	1740.1
51075	51	0.0	653.5	0.0	64.1	0.0	998.3
51077	51	0.0	447.7	0.0	21.2	0.0	548.2
51079	51	0.0	596.9	0.0	25.4	0.0	716.2
51081	51	0.0	1425.7	0.0	242.1	0.0	2873.0
51083	51	0.0	1550.5	0.0	267.2	0.0	2958.7
51085	51	0.0	1914.0	0.0	265.3	0.0	3410.2
51087	51	0.0	722.8	0.0	88.8	0.0	1217.1
51089	51	0.0	390.3	0.0	99.5	0.0	891.5
51091	51	0.0	103.6	0.0	1.2	0.0	107.9
51093	51	0.0	3209.4	0.0	260.7	0.0	4817.3
51095	51	0.0	5.3	0.0	34.9	0.0	221.0
51097	51	0.0	22.4	0.0	146.8	0.0	911.4
51099	51	0.0	882.9	0.0	121.0	0.0	1546.9
51101	51	0.0	1867.2	0.0	162.1	0.0	2835.6
51103	51	0.0	820.5	0.0	92.8	0.0	1361.3
51105	51	0.0	526.4	0.0	23.3	0.0	636.8
51107	51	0.0	5533.3	0.0	250.2	0.0	6786.4
51109	51	0.0	930.0	0.0	217.2	0.0	2027.4
51111	51	0.0	592.7	0.0	220.9	0.0	1766.1
51113	51	0.0	2023.0	0.0	126.1	0.0	2629.9
51115	51	0.0	280.9	0.0	31.0	0.0	461.9
51117	51	0.0	940.9	0.0	346.5	0.0	2793.4

COUNTY	STATE	SILVEX	SIMAZINE	TEBUTHIU- RON	2,4,5-T	TERBACIL	2,4-D
51119	51	0.0	748.1	0.0	120.4	0.0	1421.6
51121	51	0.0	918.6	0.0	26.8	0.0	1040.3
51125	51	0.0	432.0	0.0	36.9	0.0	613.5
51127	51	0.0	10.1	0.0	66.4	0.0	402.2
51131	51	0.0	130.2	0.0	190.9	0.0	1375.7
51133	51	0.0	1727.2	0.0	144.0	0.0	2587.6
51135	51	0.0	594.4	0.0	119.7	0.0	1228.5
51137	51	0.0	1839.1	0.0	118.3	0.0	2421.2
51139	51	0.0	1167.5	0.0	162.4	0.0	1972.0
51141	51	0.0	628.0	0.0	60.5	0.0	929.8
51143	51	0.0	1766.0	0.0	484.6	0.0	4319.8
51145	51	0.0	766.4	0.0	80.3	0.0	1175.5
51147	51	0.0	761.0	0.0	115.2	0.0	1351.1
51149	51	0.0	981.7	0.0	166.8	0.0	1932.2
51153	51	0.0	1631.6	0.0	47.5	0.0	1859.8
51155	51	0.0	608.5	0.0	34.2	0.0	772.0
51157	51	0.0	572.3	0.0	37.5	0.0	753.2
51159	51	0.0	1532.4	0.0	137.9	0.0	2331.0
51161	51	0.0	115.9	0.0	0.5	0.0	116.7
51163	51	0.0	708.5	0.0	24.2	0.0	819.9
51165	51	0.0	5913.8	0.0	252.0	0.0	7101.2
51167	51	0.0	286.7	0.0	24.0	0.0	403.7
51169	51	0.0	258.6	0.0	18.6	0.0	348.9
51171	51	0.0	2008.2	0.0	133.0	0.0	2655.1
51173	51	0.0	554.8	0.0	35.7	0.0	726.7
51175	51	0.0	5192.4	0.0	412.8	0.0	7808.1
51177	51	0.0	1188.2	0.0	157.3	0.0	2013.2
51179	51	0.0	567.3	0.0	48.0	0.0	823.4
51181	51	0.0	1377.8	0.0	172.1	0.0	2416.1
51183	51	0.0	24.8	0.0	162.5	0.0	1198.7
51185	51	0.0	470.0	0.0	7.4	0.0	500.0
51187	51	0.0	195.7	0.0	30.6	0.0	347.3
51191	51	0.0	1756.2	0.0	34.1	0.0	1901.9
51193	51	0.0	2149.2	0.0	222.7	0.0	3409.2
51195	51	0.0	38.8	0.0	0.2	0.0	39.1
51197	51	0.0	1618.5	0.0	21.3	0.0	1701.3
51199	51	0.0	1.6	0.0	10.5	0.0	59.8
51550	51	0.0	2143.1	0.0	212.2	0.0	3419.5
51800	51	0.0	2853.1	0.0	306.2	0.0	4695.5
51810	51	0.0	1729.5	0.0	212.1	0.0	2974.3

COUNTY	STATE	SILVEX	SIMAZINE	TEBUTHIU- RON	2,4,5-T	TERBACIL	2,4-D
STATE	10	27.8	22898.3	0	2445	0	37263.4
STATE	24	222.6	103570	0	6181.1	0	135180.6
STATE	42	1223.5	86824	0	0	0	125153.1
STATE	51	0	115088.1	0	11389	0	177464.4

COUNTY	STATE	TRIFLURALIN	TRIALATE
10000	10	-0.1	0.0
10001	10	32119.6	0.0
10003	10	11210.7	0.0
10005	10	68204.0	0.0
24000	24	129.9	0.0
24001	24	28.8	0.0
24003	24	1491.8	0.0
24005	24	2427.9	0.0
24009	24	1317.8	0.0
24011	24	23334.4	0.0
24013	24	3748.1	0.0
24015	24	4489.8	0.0
24017	24	3398.0	0.0
24019	24	25286.6	0.0
24021	24	1879.7	0.0
24023	24	68.4	0.0
24025	24	2089.7	0.0
24027	24	1091.1	0.0
24029	24	8667.0	0.0
24031	24	2783.1	0.0
24033	24	1783.8	0.0
24035	24	18236.5	0.0
24037	24	4604.5	0.0
24039	24	9382.0	0.0
24041	24	19546.1	0.0
24043	24	752.2	0.0
24045	24	20698.1	0.0
24047	24	17474.1	0.0
42000	42	12.1	0.0
42001	42	74.3	0.0
42003	42	43.5	0.0
42005	42	21.6	0.0
42007	42	21.2	0.0
42009	42	18.4	0.0
42011	42	81.8	0.0
42013	42	46.2	0.0
42015	42	23.1	0.0
42017	42	224.5	0.0
42019	42	73.2	0.0
42021	42	20.7	0.0
42023	42	0.0	0.0
42025	42	17.1	0.0
42027	42	65.3	0.0
42029	42	45.1	0.0
42031	42	12.4	0.0
42033	42	7.6	0.0
42035	42	8.5	0.0
42037	42	88.1	0.0
42039	42	29.0	0.0
42041	42	37.3	0.0
42043	42	25.1	0.0
42045	42	9.7	0.0

COUNTY	STATE	TRIFLURALIN	TRIALATE
42047	42	0.0	0.0
42049	42	62.3	0.0
42051	42	38.1	0.0
42053	42	0.5	0.0
42055	42	25.1	0.0
42057	42	3.6	0.0
42059	42	7.9	0.0
42061	42	13.2	0.0
42063	42	14.8	0.0
42065	42	12.2	0.0
42067	42	11.5	0.0
42069	42	43.5	0.0
42071	42	140.5	0.0
42073	42	15.0	0.0
42075	42	36.7	0.0
42077	42	54.5	0.0
42079	42	74.9	0.0
42081	42	27.8	0.0
42083	42	1.6	0.0
42085	42	24.7	0.0
42087	42	7.0	0.0
42089	42	13.3	0.0
42091	42	80.1	0.0
42093	42	18.8	0.0
42095	42	55.3	0.0
42097	42	30.1	0.0
42099	42	12.6	0.0
42103	42	0.0	0.0
42105	42	5.8	0.0
42107	42	59.0	0.0
42109	42	12.7	0.0
42111	42	95.4	0.0
42113	42	0.0	0.0
42115	42	7.0	0.0
42117	42	2.9	0.0
42119	42	6.1	0.0
42121	42	5.9	0.0
42123	42	11.0	0.0
42125	42	49.5	0.0
42127	42	4.6	0.0
42129	42	83.9	0.0
42131	42	12.7	0.0
42133	42	207.5	0.0
51000	51	636.7	0.0
51001	51	20512.6	0.0
51003	51	444.9	0.0
51005	51	0.1	0.0
51007	51	5572.2	0.0
51009	51	1.0	0.0
51011	51	326.6	0.0
51015	51	124.5	0.0
51017	51	0.0	0.0

COUNTY	STATE	TRIFLURALIN	TRIALATE
51019	51	147.1	0.0
51021	51	0.0	0.0
51023	51	2.8	0.0
51025	51	4796.7	0.0
51027	51	0.0	0.0
51029	51	383.4	0.0
51031	51	1003.5	0.0
51033	51	8338.0	0.0
51035	51	0.1	0.0
51036	51	3300.7	0.0
51037	51	674.0	0.0
51041	51	1354.9	0.0
51043	51	169.4	0.0
51045	51	1.7	0.0
51047	51	894.2	0.0
51049	51	467.3	0.0
51051	51	0.0	0.0
51053	51	7749.3	0.0
51057	51	9796.8	0.0
51059	51	0.4	0.0
51061	51	1800.5	0.0
51063	51	1.2	0.0
51065	51	266.2	0.0
51067	51	156.1	0.0
51069	51	23.4	0.0
51071	51	2.0	0.0
51073	51	4836.9	0.0
51075	51	1480.2	0.0
51077	51	1.6	0.0
51079	51	1.9	0.0
51081	51	5163.6	0.0
51083	51	3889.7	0.0
51085	51	8828.4	0.0
51087	51	2699.7	0.0
51089	51	183.9	0.0
51091	51	0.1	0.0
51093	51	7117.5	0.0
51095	51	1873.3	0.0
51097	51	7062.8	0.0
51099	51	3161.5	0.0
51101	51	8516.4	0.0
51103	51	4047.8	0.0
51105	51	23.5	0.0
51107	51	3486.5	0.0
51109	51	640.1	0.0
51111	51	3136.5	0.0
51113	51	9.8	0.0
51115	51	1383.6	0.0
51117	51	5519.8	0.0
51119	51	3667.0	0.0
51121	51	1.9	0.0
51125	51	84.7	0.0

COUNTY	STATE	TRIFLURALIN	TRIALATE
51127	51	2709.4	0.0
51131	51	13540.2	0.0
51133	51	7617.9	0.0
51135	51	1833.3	0.0
51137	51	580.2	0.0
51139	51	60.3	0.0
51141	51	276.5	0.0
51143	51	6255.6	0.0
51145	51	716.4	0.0
51147	51	931.8	0.0
51149	51	4261.8	0.0
51153	51	617.3	0.0
51155	51	2.6	0.0
51157	51	2.9	0.0
51159	51	5995.5	0.0
51161	51	0.0	0.0
51163	51	1.7	0.0
51165	51	194.5	0.0
51167	51	1.9	0.0
51169	51	1.5	0.0
51171	51	237.8	0.0
51173	51	2.8	0.0
51175	51	10005.7	0.0
51177	51	2300.4	0.0
51179	51	1069.8	0.0
51181	51	4872.3	0.0
51183	51	8990.4	0.0
51185	51	0.4	0.0
51187	51	2.5	0.0
51191	51	2.2	0.0
51193	51	8000.8	0.0
51195	51	0.0	0.0
51197	51	1.2	0.0
51199	51	251.7	0.0
51550	51	11328.2	0.0
51800	51	8580.2	0.0
51810	51	9540.7	0.0

COUNTY	STATE	TRIFLURALIN	TRIALATE
STATE	10	11534.2	0
STATE	24	174709.4	0
STATE	42	2395.4	0
STATE	51	256555.4	0

ATTACHMENT 4. DRAFT PROPOSED MAXIMUM CONTAMINANT LEVELS (MCL) FOR PESTICIDES IN DRINKING WATER IN MG/L AS OF JULY, 1988, AND EPA WATER QUALITY CRITERIA DOCUMENTS AND HEALTH ADVISORIES UNDER DEVELOPMENT AS OF JUNE, 1988

1). LIST OF PROPOSED MAXIMUM CONTAMINANT LEVELS (MCL) FOR PESTICIDES IN DRINKING WATER AS OF JULY, 1988 IN MG/L:

alachlor .002mg/l
aldicarb .01mg/l
aldicarb sufoxide .01mg/l
aldicarb sulfone .04mg/l
atrazine .003mg/l
carbofuran .04mg/l
chlordan .002mg/l
dibromochloropropane .0002mg/l
1,2,dichloropropane .005mg/l
2,4,D .07mg/l
dibromide .00005mg/l
heptachlor .0004mg/l
heptachlor epoxide .0002mg/l
lindane .0002mg/l
methoxychlor .4mg/l
pentachlorophenol .2mg/l
toxaphene .005mg/l
2,4,5,T (silvex) .05mg/l

2). LIST OF PESTICIDES FOR WHICH DRAFT EPA WATER QUALITY CRITERIA DOCUMENTS ARE UNDER DEVELOPMENT:

tributlytin
methyl parathion
diazinon
2,4-D

3). LIST OF PESTICIDES FOR WHICH DRAFT EPA WATER QUALITY HEALTH ADVISORIES ARE UNDER DEVELOPMENT:

captan
carbofuran
dinoseb
endothall
folpet
methoxychlor
picloram
aldicarb
2,4,5-T
2,4,5,-TP

Health Advisories Are Available For The Following Chemicals:

50 Pesticides

Acifluorfen
Ametryn
Ammonium sulfamate
Atrazine
Baygon (propoxur)
Bentazon
Bromacil
Butylate
Cartaryl
Carboxin
Chloramben
Chlorothalonil
Cyanazine
Dacthal
Dalapon
Diazinon
Dicamba
1,3-Dichloropropene
Dieldrin
Dimethrin
Dinoseb
Diphenamid
Disulfoton
Diuron
Endothall
Ethylene thiourea
Fenamiphos
Fluometuron
Fonofos
Glyphosate
Hexazinone
Maleic hydrazide
MCPA
Methomyl
Methyl parathion
Metolachlor
Metribuzin
Paraquat
Picloram
Prometon
Pronamide
Propachlor
Propazine
Propham
Simazine
2,4,5-T
Tebuthiuron
Terbacil
Terbufos
Trifluralin

16 Pesticides

Alachlor
Aldicarb (sulfoxide and sulfone)
Carbofuran
Chlordane
DBCP
2,4-D
1,2-Dichloropropane
EDB
Endrin
Heptachlor and heptachlor epoxide
Lindane
Methoxychlor
Oxamyl
Pentachlorophenol
Toxaphene
2,4,5-TP

7 Inorganics

Barium
Cadmium
Chromium
Cyanide
Mercury
Nickel
Nitrate/nitrite

Legionella

25 Organics

Acrylamide
Benzene
Carbon tetrachloride
Chlorobenzene
Ortho-Dichlorobenzene
Meta-Dichlorobenzene
Para-Dichlorobenzene
1,2-Dichloroethane
1,1-Dichloroethylene
cis-1,2-Dichloroethylene
trans-1,2-Dichloromethane
Epichlorohydrin
Ethylbenzene
Ethylene glycol
Hexachlorobenzene
N-hexane
Methyl ethyl ketone
Styrene
Tetrachloroethylene
Toluene
1,1,1-Trichloroethane
Trichloroethylene
Vinyl chloride
Xylenes

TABLE 1 PHYSICAL PROPERTIES OF SELECTED PESTICIDES WIDELY USED IN THE CHESAPEAKE BAY WATERSHED

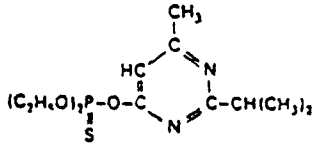
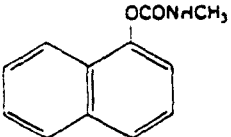
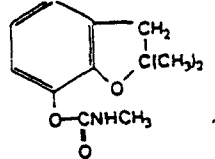
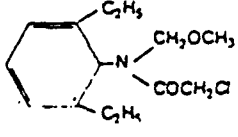
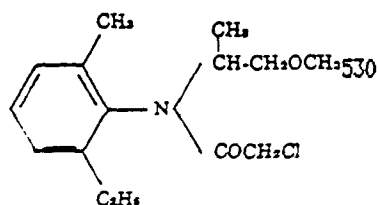
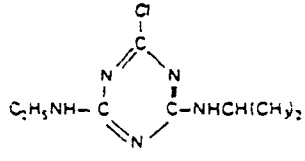
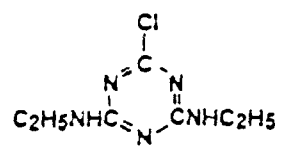
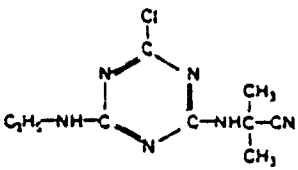
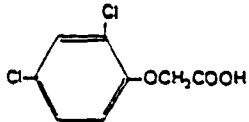
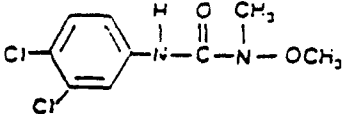
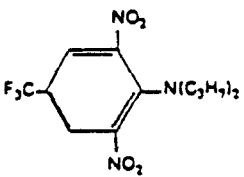
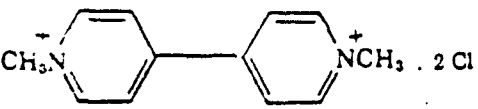
Compound Chem. Abst. No.	Use	Molecular structure	Water solubility (mg/l)	Vapor pressure (mmHg)	Normalized sorpt. coeff. (Koc)	Octano/water part. coeff. (Kow)	Half-life in soil (days)	Degradation
Organophosphates:								
Diazinon (333-41-5)	insecticide (urban, fruits, vegetables)		40 (1)	1.4x10-4 (20) (25)	570 (3)	1,350 (9)	65 (25)	paths: leaching, hydrolysis (4) degradates: oxy & hydroxypyrimidine (24)
Carbamates:								
Carbaryl (63-25-2)	insecticide		40 (2)	1.4x10-4 (20) (25)	230, 570 (3)	229 (10), 212 (9)	8 (16)	path: microbial (15)
Carbofuran (1563-66-2)	insecticide, nematicide (corn, alfalfa)		70 (2)	4.9x10-6 (25C) (17)	160 (3)	207 (8)	14- 21 (17)	path: microbial (17)
Amides:								
Alachlor (15972-60-8)	herbicide (corn, soybeans)		242 (2)	2.4x10-5 (20C) (4)	190 (5)	830 (11)	38 (18)	paths: microbial, hydrolysis (4) degradates: 13 (23)
Metolachlor (51218-45-2)	herbicide (corn, soybeans)		530 (3)	1.0x10-5 (20C) (4)	140 (3)	574 (12)		path: microbial (4)
Triazines:								
Atrazine (1912-24-9)	herbicide (corn)		33 (2)	1.4x10-6 (30C) (4)	122 (6)	479 (10)	33 (18)	paths: microbial, hydrolysis, photo (4) degradate: hydroxyatrazine (24)
Simazine (122-34-9)	herbicide (corn, fruit)		5 (4)	6.1x10-9 (20C) (4)	135 (25)	3.5, 4.5, >365 5.0 (26)	(19)	paths: hydrolysis, microbial (4)

TABLE 1 PHYSICAL PROPERTIES OF SELECTED PESTICIDES WIDELY USED IN THE CHESAPEAKE BAY WATERSHED

Compound Chem. Abst. No.	Use	Molecular structure	Water solubility (mg/l)	Vapor pressure (mmHg)	Normalized sorpt. coeff. (Koc)	Octano/water part. coeff. (Kow)	Half-life in soil (days)	Degradation
Cyanazine (21725-46-2)	herbicide (corn)		171 (1)	1.6×10^{-9} (20C) (4)	200, 260 (3)	150 (11)	7- 31 (20)	paths: microbial, leaching (4) degradates: cyanazine amide, deisopropylated atrazine (20)
Chlorinated								
phenoxy compounds:								
2,4-D (94-75-7)	herbicide (corn, lawns)		900 (1)	0.4 (26C) (4)	160 (7)	646 (13)	7- 28 (4)	path: microbial (4)
Phenylurea:								
Linuron (330-55-2)	herbicide (corn, soybeans)		81 (5)	1.5×10^{-5} (24C) (4)	229, 863 (5)	150, 575 (5)	12.6 (27)	paths: microbial, leaching (4)
Dinitroaniline:								
Trifluralin (98-16-8)	herbicide, (corn, soybeans)		1 (2)	2.0×10^{-4} (30C) (4)	13,700 (5)	220,000 (11)	81 (22)	path: microbial (4)
Cationic:								
Paraquat (1910-42-5)	herbicide (corn)		1,000,000 (dibromide salt) (2)	non- volatile (4)	15,000, 2 (3)	317 (12)	very persistent (4)	paths: photo. microbial (24) degradates: 1-methyl-1-carb- oxy pyridinium, methylamine hydrochloride (24)

REFERENCES FOR TABLE 1

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CHEMICAL CODE, CAS No. AND NAME	FORMULATION	USE PATTERN	CRITERIA INFLUENCING RESTRICTION			
029001 1,3-DICHLOROPROPENE	94% Liquid Concentrate	Soil Fumigant on cotton, potatoes, sugar beets, tobacco veg. grains, citrus fruits tree planting sites, nut-tree etc.	Registration Standard 9/86 Probable Human Carcinogen. Oncogenic, Acutely Toxic by the Oral and Inhalation routes of Exposure.			
000701 ACROLEIN	As Sole Active Ingredient (No Mixtures Registered)	All Uses	40 CFR 162.31 (FR 2/9/78) Human Inhalation Hazard Residue Effects on Avian Species and Aquatic Organisms			
098301 ALDICARB	As Sole Active Ingredient (No Mixtures Registered) All Granular Formulations	Ornamental Uses (Indoor and Outdoor) Agricultural	Registration Standard (3/30/84). 40 CFR 162.31 (FR 2/9/78) Other hazards - accident history			
068401 ALLYL ALCOHOL	All Formulations	All Uses	40 CFR 162.31 (FR 2/9/78) Acute Dermal Toxicity			
066501 ALUMINUM PHOSPHIDE	As Sole Active Ingredient (No Mixtures Registered)	All Uses	Registration Standard (10/8/86). 40 CFR 162.31 (FR 2/9/78). Inhalation Hazard to Humans.			
106201 AMITRAZ	All Formulations	Pears (Only Registered Use)	Special Review Possible Oncogenicity			
004401 AMITROLE	All Formulations	All Uses Except Homeowner	Registration Standard (3/30/84) Oncogenic Potential			
006802 ARSENIC PENTOXIDE	All Formulations	Wood Preservative Uses	Special Review PD-4 (7/13/84) Possible Oncogenic, Mutagenic, and Reproductive and/or Fetotoxic Effects			
069201 AVITROL	All Formulations	All Uses	Registration Standard (9/80) Hazard to Fish and Non-Target Birds			

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058001 86-50-0 AZINPHOS METHYL	All Liquids with a Concentration Greater than 13.5%	All Uses	Registration Standard 9/11/86). 40 CFR 162.31 (FR 2/9/78). Human Inhalation Hazard. Acute Toxicity Hazard to Avian, Aquatic & Mammalian Species. Eff. 10/31/87 (Production); 10/31/88 (Channel of Trade).
000601 107-13-1 Acrylonitrile	In Combination with Carbon Tetrachloride (No Registrations as Sole Active Ingredient)	All Uses	40 CFR 162.31 (FR 2/9/78) Other Hazards - Accident History of both Acrylonitrile and Carbon Tetrachloride
045101 309-00-2 Aldrin	All Formulations	All End Uses.	Registration Standard (12/86). Acute Oral & Dermal Toxicity. Hazards to Avian, Aquatic and Mammalian Species. Chronic Liver Effects. Oncogenicity. Misuses & Misapplication History. Eff. 12/87 (Production); 12/88 (Channel of Trade).
005201 7718-59-4 Arsenic Acid	All Formulations	All Uses	Registration Standard (9/86). Eff. 9/30/87 (Production); 9/30/88 (Channels of Trade). Oral Toxicity Oncogenicity
007001 1327-53-3 Arsenic Trioxide	Pellets, Wettable Powders, Pastes, Ready to Use Solutions, Impregnated Material, Granular and as Formulation Intermediate.	85% of Pesticidal use is as a Liquid Rodenticide Bait to Control Rats & Mice. Antifoulant agent in boat paints.	Special Review (9/13/77) 42 FR 45944 (some uses canceled) Oncogenicity Mutagenicity Acute Toxicity

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112701 Bifenthrin	Ready-To-Use Baits 0.05% EPA Reg. No. 10182-43 & -44	In & Around Urban Buildings	Registration Action Hazard to Non-Target Organisms (Note: Restricted Use Classification may be deleted if the labeling text is modified.)
074001 592-01-8 CALCIUM CYANIDE	As Sole Active Ingredient	ALL Uses	40 CFR 162.31 (FR 2/9/78) Human Inhalation Hazard
090601 1503-66-2 CARBOFURAN	All Concentrate Suspensions and Wettable Powders 40% and Greater	ALL Uses	Registration Standard (6/25/84). 40 CFR 162.31 (FR 8/12/79). Acute Inhalation Toxicity
295900 42509-80-8 CGA-12223			40 CFR 162.11 Avian Fish & Aquatic Organism Toxicity.
058202 CHLORDANE	All Formulations	ALL Uses	Registration Standard (12/86). Probable Human Oncogenicity Chronic Liver Effects Toxicity to Avian and Aquatic Organisms.
059701 6164-98-3 CHLORDIMEFORM	All Formulations	Cotton (Only Registered Use)	Registration Action Causes Cancer in Laboratory Animals.
028801 510-15-6 CHLOROBENZILATE	All Formulations	Citrus (Only Registered Use)	Special Review Decision. (Affirmed by Reg. Stnd. 12/83) Oncogenicity Adverse Testicular Effects
067707 3691-35-8 CHLOROPHACINONE	Tracking Powder, Dust & Ready-To-Use Formulations 0.2% (EPA Reg. Nos. 7173- 113 & 7173-172).	Inside Buildings	Registration Action Human Hazard Potential for Food Contamination. Possible Inhalation Hazard.

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081501 76-06-2 CHLOROPICKIN	All Formulations Greater than 2% All Formulations All Formulations 2% and Less	All Uses Rodent Control Outdoor Uses Other Than Rodent Control	40 CFR 162.31 (FR 8/1/79) Acute Inhalation Toxicity Hazard to Non-Target Organisms
077401 CLONITRALID	All Wettable Powders 70% and Greater	All Uses	40 CFR 162.31 (FR 8/1/79) Acute Inhalation Toxicity
025004 8001-58-9 COAL TAR CREOSOTE	All Formulations	Wood Preservative Uses	Special Review PD-4 (7/13/84) (Affirmed by Reg. Std. 10/86) Possible Oncogenic & Mutagenic Effects.
025002 8021-39-4 CREOSOTE	Coal Tar	Pole-Tox Wood Preserving Compounds	Special Review PD-4 (7/13/84) Oncogenicity Mutagenicity
025003 51789-28-4 CREOSOTE OIL	All Formulations	Wood Preservative	Special Review PD-4 (7/13/84) Possibly Oncogenic & Mutagenic Effects
160101 21725-46-2 CTANAZINF	All Formulations	All Uses	Registration Standard (12/84) Groundwater Contamination Teratogenicity Fetotoxicity
109702 52315 07 8 CYPERMETHRIN	Emulsifiable Concentrates 30%	Agricultural Use/ Cotton	Registration Action Oncogenicity Hazard to Non-Target Organisms
013501 7778-44-1 Calcium Arsenate	Granular, Wettable Powder, and Wettable Powder/Dust.	Flowable Liquid Suspension Generally Applied by Ground Boom. Suspended Products includes Application by Hand.	Special Review (PD-1) 10/18/78 43 FR 48267 Oncogenicity Mutagenicity Acute Toxicity

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081701 2939-80-2 Captafol	ALL Formulations	ALL Uses	Registration Standard (9/28/84) Exposure Risk for Farm Workers Special Review Oncogenicity Hazard to Aquatic species All Registrations Cancelled May , 1987
016501 56-23-5 Carbon tetrachloride	Gas	Harvested Grains Throughout Storage Transfer, Milling, Distribution, and Processing Phases; Fumigation.	Special Review (1/12/86) Oncogenicity Acute and Subacute Poisoning Risks.
058102 786-19-6 Carbophenothion	ALL Formulations	ALL Uses	Registration Standard (7/31/84) Potential Adverse Effects to Aquatic, Avian and Terrestrial Species.
084101 470-90-6 Chlorfenvinphos	ALL Concentrate Solutions or Emulsifiable Concen- trates 21% and Greater.	ALL Uses (Domestic and Non-Domestic)	40 CFR 162.31 (FR 8/1/79). Acute Dermal Toxicity.
077401 1420-04-8 Clonitralid	ALL Wettable Powders 70% and Greater. Effects on Aquatic Organisms.	ALL Uses ALL Granulars and Wettable Powders.	40 CFR 162.31 (FR 8/1/79). Acute Inhalation Toxicity.
043401 66-81-9 Cycloheximide	ALL Formulations Greater than 2%	ALL Uses	40 CFR 162.31 (FR 8/1/79). (Affirmed by Reg. Stnd. 9/82) Acute Dermal Toxicity.

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011301 96-12-8 DBCP	All Formulations	Pineapple Uses	Special Review (10/78) 44 FR 65135 10/79 All Products Canceled Except for Pineapple Use Oncogenicity, Mutagenicity Propose Intent to Cancel DBCP use on Pineapples in 49 FR 1556 on 1/12/84
057601 8065-48-3 DEMETON	1X Fertilizer Formulation, 1.985% Granular Formulation	All Uses	40 CFR 162.31 (FR 2/9/78) Registration Standard (2/27/85). Domestic Uses: Acute Oral Toxicity Acute Dermal Toxicity Non-Domestic Outdoor Uses: Residue Effects on Mammalian and Avian Species.
078801 2303-16-4 DIALLATE	All Formulations	All Uses	Special Review Decision (PD-4 Action) 47 FR 27109 6/23/82 (Affirmed by Reg. Std. 3/31/83) Oncogenicity Mutagenicity
110402 51553-27-3 DICLOFOP METHYL	All Formulations	All Uses	Registration Action Voluntarily Restricted Oncogenicity
035201 141-64-2 DICTOQUINON	All Liquid Formulations 8% and Greater	All Uses	40 CFR 162.31 (FR 1/19/81) (Affirmed by Reg. Std. 6/82) Acute Dermal Toxicity Residue Effects on Avian Species
108201 35367-38-5 DIFLUBENZIMON	Wettable Powders	All Uses	Registration Standard (9/30/85). Registration Action. Lack of Environmental Hazard Data

CHEMICAL CODE, CAS No. AND NAME	FORMULATION	USE PATTERN	CRITERIA INFLUENCING RESTRICTION
102001 DIMETHYL	94.3% technical grade, dusts (2.5, 5%) granular 1.75, 2.3, 5.5%), wettable powder (1.75, 15, 24.4, 25 50, 70%), a 19.65% liquid, and a 46.2% flowable.	Control on plant diseases on almonds, apples, apricots, bananas, beans, celery cherries, cucumbers, peaches, peanuts, plum	
037801 DIOXATHION	All Concentrate Solutions or Emulsifiable Concentrates Greater than 30%	All Uses	40 CFR 162.31 (FR 8/1/79) (Affirmed by Reg. Strnd. 3/31/83) Acute Dermal Toxicity
032501 DISULFOTON	298-04-4 All Emulsifiable Concentrates 65% & Greater, All Emulsifiable Concentrates & Concentrate Solutions 21% & Greater with Fensulfothion 43% & Greater, All Emulsifiable Concentrates 32% and Greater with 32% Fensulfothion & Greater	All Uses Commercial Seed Treatments	40 CFR 162.31 (FR 8/1/79) Registration Standard (12/31/84). Acute Dermal Toxicity Acute Inhalation Toxicity
036001 Dinocap	39300-45-3 Liquid, Wettable Powder, Dust, Aerosol.	Apples, Pears, Grapes, Apricots, Melons, Cantaloupes, Cucumbers, Peaches Pumpkins, Raspberrie Squash, nursery etc.	Special Review PD-2/3 51 FR 39577 10/29/86 Final Determination Expected FY-87.
268600 Dodenorph	1593-77-7 All Formulations	All Uses	Registration Action. Corrosive to Eye Tissue Voluntarily Restricted
041601 ENDRIN	72-20-8 All Emulsions, Dusts, Wettable Powders, Pastes, Granular Formulations and Concentrations	All Uses	40 CFR 162.31 (FR 2/9/78) Acute Dermal Toxicity Hazard to Non-Target Organisms

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041801 EPN	2104-64-5 All Liquid and Dry Formulations Greater than 4%	All Uses Aquatic Uses (All Products Cancelled)	40 CFR 162.31 (FR 2/9/78) (Affirmed by Reg. Stnd. 4/87) Acute Dermal Toxicity Acute Inhalation Toxicity Residue Effects on Avian Species Effects on Aquatic Organisms Eff. 4/30/88 (Production); 4/30/89 (Channel of Trade). All Products Cancelled
058401 ETHION	Vol. Restriction for Acute Toxicity (No Recall, Products If Trade Not Relabeled)	Two products only	Registration Action
041101 ETHOPROP	Emulsifiable Concentrates 40% and Greater	All Uses	Registration Standard (6/30/83). 40 CFR 162.31 (FR 8/1/79). Acute Dermal Toxicity. Amended 2/27/85
057501 ETHYL PARATHION	All Granular and Dust Formulations Greater than 2%, Fertilizer Formulations, Wettable Powders, Emulsifiable Concentrates and Concentrated Solutions	All Uses	40 CFR 162.31 (FR 2/9/78). (Affirmed by Reg. Stnd. 9/86) Inhalation Hazard to Humans Acute Dermal Toxicity. Residue Effects on Mammalian, Aquatic, and Avian Species Human Inhalation Hazard Other Hazards - Accident History. Eff. 9/87 (Production) 9/88 (Channel of Trade)
100601 FENAMIPHOS	Emulsifiable Concentrates 35% and Greater	All Uses	40 CFR 162.31 (FR 8/1/79) (Affirmed by Reg. Stnd. 6/87) Acute Dermal Toxicity Avian Acute Oral Toxicity Acute Inhalation Toxicity Eff. 8/1/88 (Production); 8/1/89 (Channel of Trade).

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CHEMICAL CODE, CAS No. AND NAME	FORMULATION	USE PATTERN	CRITERIA INFLUENCING RESTRICTION
032701 115-90-2 FENSULFOTHION	Concentrate Solutions 63% & Greater, All Emulsifiable Concen- trates and Concen- trate Solutions 43% & Greater with Disulf- oton 21% & Greater, All Emulsifiable Con- centrates 32% and Greater with Disulf- oton 32% & Greater All Granulars	All Uses	40 CFR 162.31 (FR 8/1/79) Acute Dermal Toxicity Acute Inhalation Toxicity Registration Standard (12/30/83; Amended 2/28/85)
109301 51630-58-1 FENVALEKATE	Emulsifiable Concentrates (30%)	Outdoor Uses	Registration Action Possible Adverse Effects on Aquatic Organisms.
118301 70124-77-5 FLUCYTHRINATE	Emulsifiable Concentrates (30%)	Outdoor Uses	Registration Action Possible Adverse Effects on Aquatic Organisms
075002 640-19-7 FLUOROACETAMIDE/1081	95% Concentrates for Dilution into Moist Solid Baits	Inside Sewers	40 CFR 162.31 Acute Oral Toxicity
109302 FLUVALINATE (MAVRIK)	Emulsifiable Concentrate 2 pounds per gallon Flowable Concentrate 2 pounds per gallon	Tobacco budworm; cotton bollworm; tarnished plant bug; lygus bug; cabbage looper; pea looper; etc....	Registration Standard 3/86 Moderate to Low Acute Mammalian Toxicity Slightly Toxic to Birds and Highly Toxic to some Aquatic Organisms
041701 FONOFOS	Emulsifiable Concentrates 44% and Greater	All Uses	40 CFR 162.31 (FR 8/1/79) Acute Dermal Toxicity
045801 74-90-8 HYDROCYANIC ACID	As Sole Active Ingredient (No Mixtures Registered)	All Uses	40 CFR 162.31 (FR 2/9/78) Human Inhalation Hazard

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044801 Heptachlor	Granulars; Emulsifiable Concentrate.	Subsurface and Surface Structure Soil Termite Control Fire Ant Control in Buried Cable Closures	Registration Standard (12/86) Chronic Liver Effects. Toxicity to Avian and Aquatic Organisms. Possible Human Oncogen. Eff. 12/87 (Production); 12/88 (Channel of Trade).
009001 58-89-9 LINDANE	Various Formulations Refer to FR 10/19/83 and/or Registration Standard	Various Uses Refer to FR 10/19/83 and/or Registration Standard	Special Review (FR 10/19/83) Affirmed by Reg. Stnd. 9/30/85 Possibly Oncogenic
013502 53404-12-9 Lead Arsenate	Dust, Flowable Liquid, Wettable Powder, Granular, Impregnated, Wettable Powder/Dust	Airblast Sprayer, Foliar Aerial Dust Bait Box	Special Review (PD-1) 10/18/78 43 FR 48267 Positive Oncogenic Effects Mutagenicity Acute Toxicity
066504 12057-74-8 MAGNESIUM PHOSPHIDE	All Formulations	All Uses	Registration Standard 10/8/86 Inhalation Hazard
100501 4032-65-7 MESURON	Dusts (50%) EPA Reg. No. 4-254 and 2393-337	Blackbirds in Newly Planted Corn	Registration Action Possible Hazard to Non-Target Organisms
101201 14265-92-6 METHAMIDOPHOS	Liquid Formulations 40% and Greater Dust Formulations 2.5% and Greater	All Uses	40 CFR 162.31 (FR 1/19/81) Acute Dermal Toxicity Residue Effects on Avian Species
100301 950-37-8 METHIDATHION	All Formulations	All Uses Except Nursery Stock, Safflower and Sunflower	40 CFR 162.31 (FR 1/19/81) Residue Effects on Avian Species

CHEMICAL CODE, CAS No. AND NAME	FORMULATION	USE PATTERN	CRITERIA INFLUENCING RESTRICTION
090301 16752-77-5 METHOMYL	As Sole Active Ingredient in 1% to 2.5% Baits (Except 1% Fly Bait) All Concentrated Solution Formulations and 90% Wettable Powder Formulations (Not in Water Soluable Bags)	Non-Domestic Outdoors-Ag Crops, Ornamentals and Turf All Other Registered Uses	40 CFR 162.31 (FR 2/9/78) (Affirmed by Reg. Strnd. 10/81) Residue Effects on Mammalian Species Other Hazards - Accident History
053201 74-83-9 METHYL BROMIDE	All Formulations in Containers Greater than 1.5 lb. Containers with not more than 1.5 lb. and without Chloropicrin as an Indicator	All Uses	40 CFR 162.31 (FR 2/9/78) (Affirmed by Reg. Strnd. 8/86) Acute Toxicity Accident History
053501 298-00-0 METHYL PARATHION	All Dust & Granular Formulations Less than 5% Microencapsulated All Dust & Granular Formulations 5% and Greater and All Liquids and Wettable Powders	All Uses	40 CFR 162.31 (FR 2/9/78) (Affirmed by Reg. Strnd. 12/8/86) All Foliar Applications Restricted Based on Residue Effects on Mammalian & Avian Species Hazard to Bees Acute Dermal Toxicity. Eff. 12/1/87 (Production) 12/1/88 (Channel of Trade)
015801 MEVINPHOS	All Emulsifiable Concentrates and Liquid Concentrates	All Uses	40 CFR 162.31 (FR 2/9/78) Acute Dermal Toxicity Residue Effects on Mammalian and Avian Species
058901 MONOCROTOPHOS	Liquid Formulations 19% and Greater Liquid Formulations 55% and Greater	All Uses	40 CFR 162.31 (FR 8/1/79) (Affirmed by Reg. Strnd. 9/85) Residue Effects on Mammalian and Avian Species Acute Dermal Toxicity Residue Effects on Mammalian Species

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015801 7786-34-7 Mevinphos	All Emulsifiable Concentrates and Liquid Concentrates.	All Uses	40 CFR 162.31 (FR 2/9/78) Acute Dermal Toxicity. Residue Effects on Mammalian and Avian Species
056702 54-11-5 NICOTINE (ALKALOID)	Liquid and Dry Formulations 14% and Above All Formulations	Indoor (Greenhouse) Applications to Cranberries	40 CFR 162.31 (FR 1/19/81) Acute Inhalation Toxicity Effects on Aquatic Organisms
103801 23135-22-0 OXAMYL	Soluble Concentrate, Granular	Soil & Foliar Treatments for Fruit Veg., Ornamentals & Miscell. Crops. Greenhouse Appl. for Veg., and Ornamental	40 CFR 162.31 (FR 6/87) Acute Oral Toxicity Acute Inhalation Toxicity Avian Oral Toxicity
058702 Oxydemeton Methyl	All Uses	All Products Restricted	Registration Standard () Reproductive Effects Eff. 1/15/88 (Production) 5/15/88 (Channel of Trade)
061501 1910-42-5 PARAQUAT DIISOPROPYL & PARAQUAT BIS (METHYL SULFATE)	All Formulations and Concentrates EXCEPT as Listed: Press. Spray Formulations containing 0.44% Paraquat Ris (Methyl Sulfate & 15% Petroleum Distillates as Actives Liquid Fertilizers containing 0.025% Paraquat Dichloride and 0.05% Atrazine; 0.03% Paraquat Dichloride & 0.37% Atrazine; 0.04% Paraquat Dichloride & 0.49% Atrazine	All Uses	40 CFR 162.31 (FR 2/9/78) (Affirmed by Reg. Strnd. 6/87) Human Toxicological Data Other hazards - Use and Accident History
063001 87 86-5 PENTACHLOROPHENOL	All Formulations	Wood Preservative Uses	Special Review P0-4 (7/13/84) Possible Oncogenic, Teratogenic and Fetotoxic Effects

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109701 PERMETHRIN	All Formulations Labeled for Agricultural Use, Excluding Livestock and Premises Uses	Agricultural Uses	Registration Action Possible Adverse Effects on Aquatic Organisms
057201 PHORATE	Liquid Formulations 65% and Greater All Granular Formulations	ALL Uses	40 CFR 162.31 (FR 8/1/79) Acute Dermal Toxicity Residue Effects on Avian and Mammalian Species (Foliar Application Only) Registration Standard (8/25/84)
018501 PHOSACETIM	Baits 0.1% and Greater	ALL Uses	40 CFR 162.31 (FR 8/1/79) Hazard to Non-Target Organisms Residue Effects on Mammalian and Avian Species
018201 PHOSPHAMIDON	Liquid Formulations 75% and Greater Dust Formulations 1.5% and Greater	ALL Uses	40 CFR 162.31 (FR 8/1/79) Acute Dermal Toxicity Residue Effects on Mammalian and Avian Species
005101 PICLOKAM	All Formulations and Concentrations Except Tordon RTU Herbicide	ALL Uses	40 CFR 162.31 (FR 2/9/78) Affirmed by Reg. Std. 3/85 Hazard to Non-Target Organisms (Non-Target Plants, both Crop and Non-Crop)
063002 POTASSIUM PENTACHLOROPHENATE	All Formulations	Wood Preservative Uses	Special Review PD-4 (7/13/84) Possible Oncogenic, Mutagenic, and Reproductive and/or Fetotoxic Effects
111401 PROFENOPHOS	Emulsifiable Concentrate 59.4% (EPA Reg. No. 100-599)	Cotton (Only Registered Use)	Registration Action Corrosive to Eyes

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101701 PRONAMIDE	All Formulations Except Those in Water-Soluble Packets	All Uses	Special Review (Affirmed by Reg. Stnd. 4/15/86) Eff. 4/15/87 (Production) 4/15/88
113601 PROPETAMPHOS	Emulsifiable Concentrates 50%	Indoor Domestic Use	Registration Action Product for Indoor Use Voluntarily Restricted
063007 Potassium Tetrachlorophenates	All Formulations	Wood Preservative Uses	Special Review PD-4 (7/13/84) Possible Oncogenic, Mutagenic and Reproductive and/or Fetotoxic Effects
074002 SODIUM CYANIDE	All Capsules and Ball Formulations	All Uses	40 CFR 162.31 (FR 2/9/78) Human Inhalation Hazard
075003 SODIUM FLUOROACETATE	All Solutions and Dry Baits	All Uses	40 CFR 162.31 (FR 2/9/78) Acute Oral Toxicity Hazard to Non-Target Organisms Use and Accident History
003003 SODIUM PENTACHLOROPHENATE	All Formulations	Wood Preservative Uses	Special Review PD-4 (7/13/84) Possible Oncogenic, Mutagenic and Reproductive and/or Fetotoxic Effects
009901 STARKLICIDE	EPA Reg. No. 6704-77	Bird Repellent	Registration Action (Use as a Bird Repellent) Hazard to Non-Target Organisms
076901 STRYCHNINE	All Dry Baits, Pellets, and Powder Formulations Greater than 0.5%	All Uses All Uses Calling for Burrow Builders All Uses Except Below Ground Hand Application	40 CFR 162.31 (FR 2/9/78) Acute Oral Toxicity Hazard to Non-Target Avian Species

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CHEMICAL CODE, CAS No. AND NAME	FORMULATION	USE PATTERN	CRITERIA INFLUENCING RESTRICTION
079501 3689-24-5 SULFOTLPP	Sprays and Smoke Generators	All Uses	40 CFR 162.31 (FR 2/9/78) Inhalation Hazard to Humans
078003 2699-79-8 SULFURYL FLUORIDE	All Formulations	All Uses	Registration Standard (6/30/85) Acute Inhalation Hazard Possible Acute Toxicity Hazard in Humans
013505 13464-38-5 Sodium Arsenate	All Formulations	Wood Preservative Uses	Special Review PD-4 (7/13/84) Possible Oncogenic, Mutagenic and Reproductive and/or Fetotoxic Effects
111501 35400-43-2 sulprofos	All Formulations	All Uses	Registration Action Wildlife Hazard
105901 Sumiflithion		Forestry Uses	Registration Standard () Potential Adverse Effects on Aquatic & Avian Species (Production) (Channel of Trade)
079601 107-49-3 TEPP	Emulsifiable Concentrate Formulations	All Uses	40 CFR 162.31 (FR 2/9/78) Inhalation Hazard to Humans Dermal Hazard to Humans Residue Effects on Mammalian and Avian Species
105001 13071-79-9 TERBUFOS	Granular Formulations 15% and Greater	All Uses	Registration Standard (6/30/83; Amended 2/27/85)
080501 8001-35-2 TOXAPHENE	All Formulations	All Uses	Special Review Hazard to Non-Target Organisms Potential Human Oncogen Acute Toxicity to Aquatic Organisms

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CHEMICAL CODE, CAS NO. AND NAME	FORMULATION	USE PATTERN	CRITERIA INFLUENCING RESTRICTION
121501 66641-25-6 TRALOMETHRIN	All Formulations	All Uses	Registration Action Toxicity to Aquatic Organisms Full Pond Study Required to Monitor Effect on Benthic Organisms
083601 76-87-9 TRIPHENYLENE HYDROXIDE	All Formulations	All Uses	Registration Standard (9/13/84) Possible Mutagenic Effects
080813 886-50-0 Fenbutryn	All End-Use Formulations	All End Uses	Registration Standard (9/86) Eff. 6/30/87 (Production); 6/30/88 (Channel of Trade) Oncogenic Risk to Applicators Dermal Exposure Risk
088601 7733-02-0 ZINC PHOSPHIDE	All Dry Formulations 60% and Greater All Bait Formulations All Dry Formulations 10% and Greater	All Uses Non-Domestic Outdoor Uses (other than 1-2% Formula- tion in/around bldg. Domestic Uses	40 CFR 162.31 (FR 1/19/81) (Affirmed by Reg. Std. 6/23/82) Hazard to Non-Target Organisms Acute Oral Toxicity Acute Inhalation Toxicity