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**ACID PRECIPITATION IN NORTH AMERICA:
1987 ANNUAL AND SEASONAL DATA SUMMARIES
FROM ACID DEPOSITION SYSTEM DATA BASE**

by

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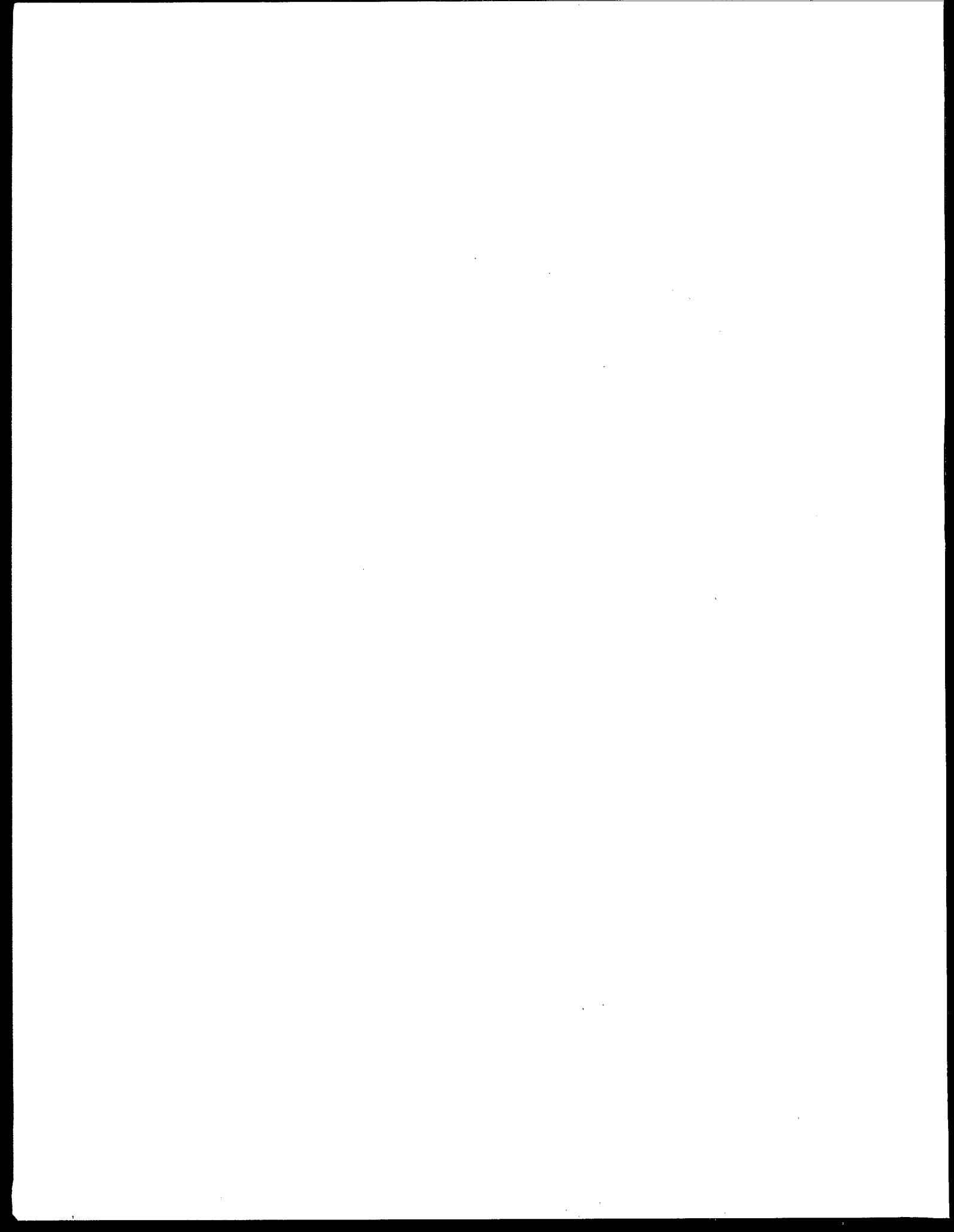
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ABSTRACT

This report summarizes the 1987 wet deposition precipitation chemistry data collected in North America and available in the Acid Deposition System (ADS) data base. Interpretative statistical analyses are not a focus of this report; however, users of the report will learn about major wet deposition monitoring networks in North America, the extent of their geographic coverage, and general characteristics of wet deposition for 1987. An overview of each network is given. Annual and seasonal (winter, summer) mosaic maps present the North American spatial pattern for hydrogen, sulfate, nitrate, ammonium and calcium ion concentration and deposition for 1987. An appendix lists 1987 annual statistical summaries for pH, hydrogen ion (derived from pH), and the ion species sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium. Computer-readable and printed copies are available for annual and seasonal (winter, spring, summer, fall) statistical summaries for all sites in the monitoring network.



CONTENTS

	<u>Page</u>
ABSTRACT	iii
FIGURES	vii
TABLES	viii
ACKNOWLEDGMENT	ix
 MONITORING NETWORK DESCRIPTIONS	1
NADP/NTN	1
MAP3S/PCN	3
UAPSP	3
CAPMoN	4
APIOS	5
GLAD	5
TVA	6
EPA-SON	6
REQUESTING ADS DATA	6
 PREPARATION OF DATA SUMMARIES	9
NETWORK PROTOCOLS AND DATA SCREENING	9
VALID SAMPLE CRITERIA	10
SITE REPRESENTATIVENESS	11
DATA COMPLETENESS MEASURES	13
OVERALL DATA QUALITY LEVELS	17
 1987 ANNUAL AND SEASONAL DATA SUMMARIES	19
APPLICATION OF SELECTION CRITERIA	19
CONTENT OF DATA TABLES	22
MOSAIC MAPS FOR 1987	22
 BIBLIOGRAPHY	55
APPENDIX A. GEOGRAPHIC LOCATION OF SITES OPERATING IN 1987	59
APPENDIX B. INVENTORY OF WET DEPOSITION SITES IN ADS ORDERED BY ADS SITE IDENTIFICATION	65
APPENDIX C. WET DEPOSITION SITE HISTORY INVENTORY ORDERED BY STATE AND PROVINCE	77

	<u>Page</u>
APPENDIX D. ANNUAL SUMMARIES FOR 1987	183
pH	185
Hydrogen ion (derived from pH)	191
Sulfate ion	197
Nitrate ion	203
Ammonium ion	209
Calcium ion	215
Magnesium ion	221
Potassium ion	227
Sodium ion	233
Chloride ion	239

FIGURES

<u>Number</u>	<u>Page</u>
3.1 Geographical distribution of sites in 1987 operating a full year and the subset of sites meeting annual UDDC criteria for sulfate	21
3.2 Annual 1987 spatial distribution of (a) precipitation-weighted pH and (b) hydrogen ion deposition	40
3.3 Winter 1987 spatial distribution of (a) precipitation-weighted pH and (b) hydrogen ion deposition	41
3.4 Summer 1987 spatial distribution of (a) precipitation-weighted pH and (b) hydrogen ion deposition	42
3.5 Annual 1987 spatial distribution of sulfate (a) precipitation-weighted concentration and (b) deposition	43
3.6 Winter 1987 spatial distribution of sulfate (a) precipitation-weighted concentration (b) deposition	44
3.7 Summer 1987 spatial distribution of sulfate (a) precipitation-weighted concentration and (b) deposition	45
3.8 Annual 1987 spatial distribution of nitrate (a) precipitation-weighted concentration and (b) deposition	46
3.9 Winter 1987 spatial distribution of nitrate (a) precipitation-weighted concentration and (b) deposition	47
3.10 Summer 1987 spatial distribution of nitrate (a) precipitation-weighted concentration and (b) deposition	48
3.11 Annual 1987 spatial distribution of ammonium (a) precipitation-weighted concentration and (b) deposition	49
3.12 Winter 1987 spatial distribution of ammonium (a) precipitation-weighted concentration and (b) deposition	50
3.13 Summer 1987 spatial distribution of ammonium (a) precipitation-weighted concentration and (b) deposition	51
3.14 Annual 1987 spatial distribution of calcium (a) precipitation-weighted concentration and (b) deposition	52

3.15 Winter 1987 spatial distribution of calcium (a) precipitation-weighted concentration and (b) deposition	53
3.16 Summer 1987 spatial distribution of calcium (a) precipitation-weighted concentration and (b) deposition	54
A.1 NADP/NTN network site locations identified by ADS site code	61
A.2 MAP3S/PCN network site locations identified by ADS site code	61
A.3 UAPSP network site locations identified by ADS site code	62
A.4 CAPMoN network site locations identified by ADS site code	62
A.5 APIOS daily network site locations identified by ADS site code . . .	63
A.6 APIOS cumulative network site locations identified by ADS site code	63

TABLES

<u>Number</u>	<u>Page</u>
1.1 Wet deposition monitoring networks in the United States and Canada contributing data to the ADS	2
1.2 1987 inventory of the ADS data base	7
2.1 UDDC site representativeness rating descriptions	12
2.2 Definition of data completeness measures	15
2.3 Data completeness level criteria for seasonal and annual summaries	16
2.4 Overall data quality level	17
3.1 Number of sites collecting at least one sample during the year . . .	19
3.2 Number of sites monitoring precipitation at least 90 percent of the year	20
3.3 Number of sites meeting annual selection criteria for sulfate . . .	20
3.4 Frequency distribution percentiles for annual and seasonal ion species concentration	38
3.5 Frequency distribution percentiles for annual and seasonal ion species deposition	39

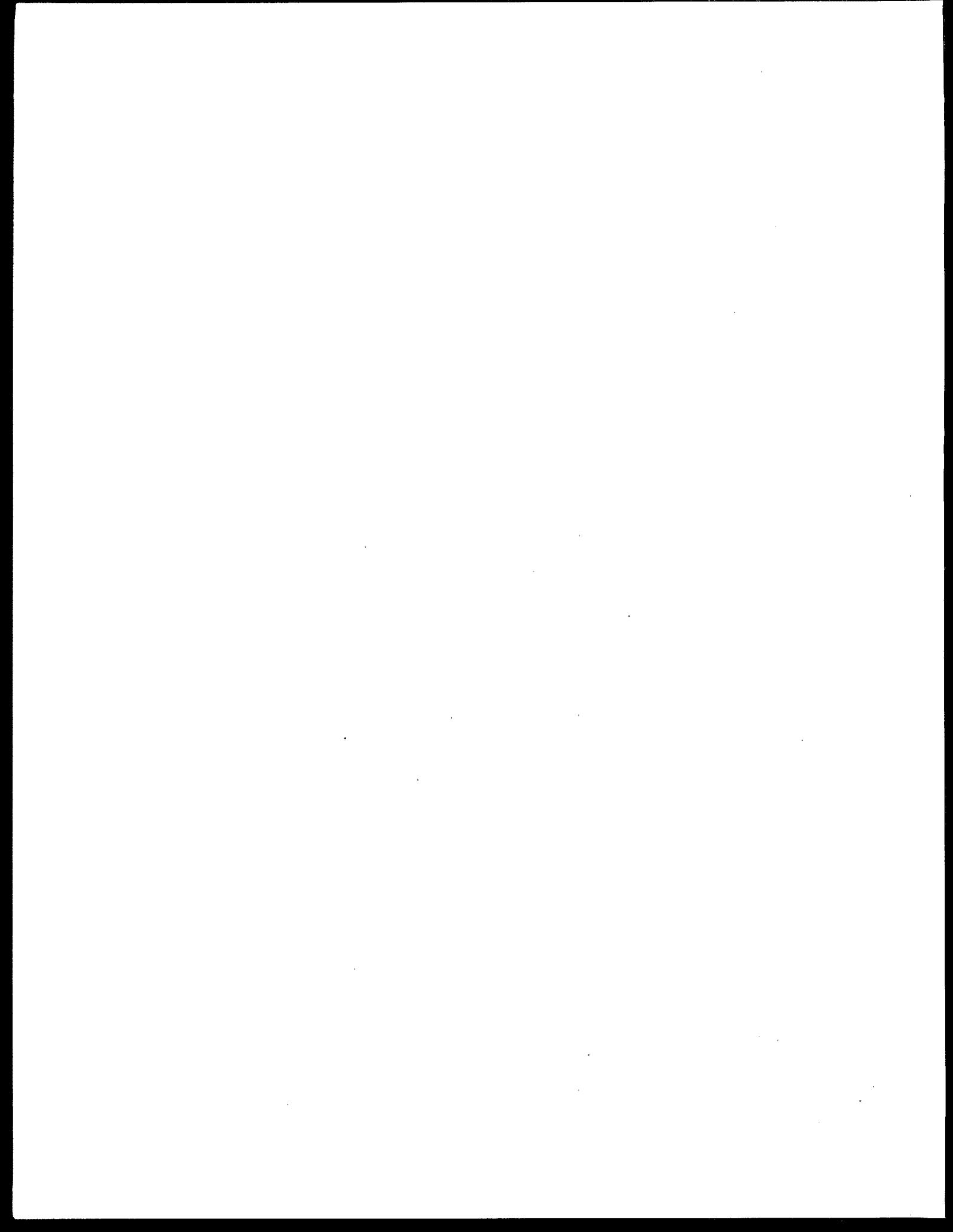
ACKNOWLEDGMENT

The data in this report are from the Acid Deposition System (ADS) for data storage and statistical reporting of atmospheric deposition data. Established by the U.S. Environmental Protection Agency at the Pacific Northwest Laboratory, it is funded as part of the National Acid Precipitation Assessment Program. ADS provides an integrated, centralized data base for data collected by atmospheric deposition monitoring networks in North America.

The ADS staff relies on dedicated individuals associated with each of the contributing networks for guidance in performing the functions associated with ADS. Special appreciation goes to Gwen Scott for NADP/NTN; Mary Ann Allan for UAPSP; Terry Dana for MAP3S/PCN; Diane Green for APIOS; and Bob Vet and Bill Sukloff for CAPMoN.

Our philosophy and efforts on procedures for preparing wet deposition summaries have been influenced by our participation on the Unified Deposition Data Base Committee. The committee, initiated by the Canadian Federal-Provincial Research and Monitoring Coordinating Committee's Atmospheric Subgroup, proposed precipitation data screening and wet deposition calculation procedures and recommended site representativeness, data completeness, and overall data quality ratings which have been utilized in the preparation of this report.

This report would not be possible without the expertise of Kevin Adams, Sharon Popp and Pat Titzler.



SECTION 1

MONITORING NETWORK DESCRIPTIONS

The Acid Deposition System (ADS) is an integrated, centralized data repository for data storage and statistical reporting of atmospheric data collected by atmospheric deposition monitoring networks in North America. The purposes of ADS are (1) to facilitate access to deposition data collected by different organizations, (2) to provide annual statistical summaries of available data, and (3) to maintain the data for the assessment of long-term trends. A complete description of ADS is available in a system design and user's code manual by Watson and Olsen (1984).

This section gives a brief overview of the monitoring networks currently providing data to ADS. Networks with 1987 data appearing in the report are the National Atmospheric Deposition Program/National Trends Network (NADP/NTN), the MAP3S Precipitation Chemistry Network (MAP3S/PCN), the Canadian Air and Precipitation Monitoring Network (CAPMoN), the Acidic Precipitation in Ontario Study networks (APIOS-D, APIOS-C), and the Utility Acid Precipitation Study Program (UAPSP).

Wet deposition monitoring programs are conducted by a number of different organizations, each of which has its own specific objectives. Table 1.1 summarizes the monitoring networks contributing data to ADS. Other networks have initiated the process of participating in ADS and will be included in future reports. The descriptions that follow are not intended to be comprehensive but only to alert the user that the data summaries are from sites operated by different networks. Each network establishes its own network operating protocol to meet its research objectives. A bibliography of network documentation is given in Section 4.

Geographic locations of monitoring sites from each network are displayed in figures contained in Appendix A. The sites displayed are those sites that were operational during 1987. Two listings of all sites are presented in Appendices B and C. The first lists the sites by their arbitrary ADS identification number. The second orders the sites alphabetically by state and province. The latter also gives the site history as it is known to ADS. The sites listed in Appendices B and C represent a complete listing of all sites that are or were, at one time, operational for each network.

NADP/NTN

The National Atmospheric Deposition Program (NADP) was established in 1978 to monitor trends in precipitation chemistry in the United States. The NADP was created by the Association of State Agricultural Experiment Stations

TABLE 1.1. Wet deposition monitoring networks in the United States and Canada contributing data to the ADS

Network Abbreviation	Network Name	Start Date	Number of Sites in 1987	Sample Type
MAP3S/PCN	MAP3S Precipitation Chemistry Network	1976	9	Daily, ^a Wet
NADP/NTN	National Atmospheric Deposition Program/ National Trends Network	1978	204	Weekly, Wet
UAPSP ^b	Utility Acid Precipitation Study Program	1978	25	Daily, ^a Wet
CAPMoNC	Canadian Air and Precipitation Monitoring Network	1983	25	Daily, Wet
APIOS-C	Acidic Precipitation in Ontario Study - Cumulative Network	1980	37	Monthly, ^d Wet
APIOS-D	Acidic Precipitation in Ontario Study - Daily Network	1980	15	Daily, Wet
EPA-SON	EPA State Operated Network	1982	27	Daily, Wet
GLAD	Great Lakes Atmospheric Deposition	1980	41	Weekly, Wet
TVA	Tennessee Valley Authority	1971	32	Bi-weekly Wet

^aDaily or duration of precipitation event, whichever is greater.

^bUAPSP sites prior to 1981 were part of the EPRI/SURE network. The UAPSP network is scheduled to cease operation on December 31, 1987; on January 1, 1988 the same sites or ones near to the present UAPSP sites will begin operation as the Operational Evaluation Network.

^cSome CANSAP and APN sites were transferred to CAPMoN during the period 1983 to 1986; before 1983, CANSAP and APN operated as separate networks.

^dSampling interval changed from calendar month to 28 days in January 1982.

(originally as North Central Regional Project NC-141, now Interregional Project IR-7) to conduct research on atmospheric deposition and its effects in cooperation with federal, state, and private research agencies. A major program objective is to discover and characterize spatial and temporal trends in the chemical climate of North America through the continued development and maintenance of a deposition monitoring network. Since its inception the network has grown from 22 operational sites during 1978 to 204 sites in 1987.

In 1982, the NADP assumed the responsibility for coordinating the operation of the National Trends Network (NTN) of the federally-supported National Acid Precipitation Assessment Program (NAPAP). The merged networks now have the designation NADP/NTN.

The NADP/NTN monitoring protocol is based on a weekly (Tuesday to Tuesday) sampling protocol with wet-only sample collection. The NADP/NTN program developed and adheres to strict requirements regarding sample collection and analysis. The requirements assure uniform site criteria, sampling protocol, analytical chemistry techniques, data handling, and overall network operation. All NADP/NTN precipitation chemistry samples are analyzed by the Central Analytical Laboratory at the Illinois State Water Survey. NADP/NTN measures the following: pH (field and lab), specific conductance (field and lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, and ortho-phosphate.

MAP3S/PCN

The MAP3S Precipitation Chemistry Network (MAP3S/PCN) began in 1976 with the objective of creating a long-term high-quality data base for the development of regional transport and deposition models (MAP3S 1982). This nine-station network, located in the northeastern United States, is designed to maximize information on regional precipitation chemistry, subject to the constraints of financial limitations on the number of stations and the geographical location of skilled operating groups. Precipitation samples are obtained on an event basis, "event" being defined as any 24-hour period during which precipitation occurred. Overall network coordination and central analytical laboratory operation are performed by the Pacific Northwest Laboratory of the Department of Energy. MAP3S measures the following: pH, specific conductance, sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, ortho-phosphate, nitrite, sulfur-IV (sulfite), aluminum, and bromine.

UAPSP

The Utility Acid Precipitation Study Program (UAPSP) was established in 1981 to ensure that a precipitation chemistry data base of defined accuracy and precision would be available. The use of such a data base would include the evaluation of temporal and geographic variability and trends. Located in the eastern United States, the UAPSP network has grown from 9 sites to 25 locations which includes a 5-station set operated by the Electric Power Research

Institute (EPRI) since 1979. In this report, all stations are referred to as the UAPSP network. During 1979 and 1980 two samplers were collocated at nine sites. Since then, collocated samplers are maintained at two of the monitoring stations, with sites rotated yearly.

The UAPSP samples are collected on a daily basis. The quality of the sample measurements is controlled by providing standard operating procedures and staff training on all aspects of the measurement process from sample collection to data recording (Topol 1983a, 1983b, 1983c). Measurements and data acquisition are conducted by Combustion Engineering Environmental Monitoring and Services Center. UAPSP measures the following: pH (field and lab), specific conductance (field and lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, nitrite, sulfite aluminum, bromine, ortho-phosphate, strong acid, total acid, acidity, and total organic carbon.

CAPMoN

The Canadian Air and Precipitation Monitoring Network (CAPMoN) designed by the Atmospheric Environment Service is a regional-scale precipitation and air monitoring network. CAPMoN began operation in mid-1983 and replaces the Canadian Network for Sampling Precipitation (CANSAP) and the Air and Precipitation Network (APN) as Canada's national network for monitoring regional-scale air and precipitation quality.

The objectives of CAPMoN are (1) to measure regional-scale spatial and temporal variations and long-term trends in the chemical composition of air and precipitation, and wet and dry deposition in all regions of Canada (on time scales from days to decades). The chemical constituents of concern to the network are the major ions in precipitation and sulfur and nitrogen compounds in air, (2) to provide a database for use in the development and verification of long-range transport models, (3) to provide data for phenomenological studies, and (4) to provide a set of standard monitors in all regions of Canada in order to ensure the compatibility of air and precipitation measurements across the country. (These stations could serve to link provincial and other networks through co-location of local network stations at national sites.)

Precipitation monitoring began with three sites in Eastern Canada, and by the end of 1987, there were 25 sites in operation. Sampling is carried out on a daily basis, and the precipitation samples are analyzed at a dedicated precipitation laboratory. CAPMoN measures the following: pH (lab, ion balance-corrected and uncorrected), specific conductance (lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, ortho-phosphate, acidity, alkalinity, and calculates sea-salt corrected sulfate.

APIOS

In 1980, the Ontario Ministry of the Environment established two networks to monitor both wet and dry deposition of selected ion species. The networks (one cumulative, one daily) are under the auspices of the Acidic Precipitation in Ontario Study (APIOS). The purpose of the cumulative network (APIOS-C) is to determine the long-term deposition pattern in Ontario (Chan, Orr, and Vet 1982a). It sampled on a monthly basis from its inception to the end of 1981 and then switched to a 28-day sample period on January 5, 1982. The sample period begins on a Tuesday to facilitate comparison with NADP stations. The daily network (APIOS-D), which has a daily sampling protocol, is designed to define the sector of origin of the ion species at the receptors, as well as the frequency and intensity of acidic deposition episodes (Chan, Orr and Vet 1982b).

The APIOS-C network began operation in July 1980 at 30 sites and expanded to 37 sites by 1987. The sites are selected to be regionally representative. APIOS-C measures the following: pH, gran Acidity, total Acidity, specific conductance, sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, aluminum, total Kjeldahl nitrogen, total phosphorus, and trace metals zinc, iron, nickel, copper, lead, cadmium, manganese, and vanadium.

The APIOS-D network began operation in July 1980 at 8 sites and expanded to 15 sites by 1987. Four clusters of four samplers each form the basis for site location. Within each cluster the samplers are separated into two groups of two samplers each. Distances between groups are approximately 50 to 100 km and within groups, 5 to 10 km. At one site, collocated samplers are operated. APIOS-D measures the following: pH (lab), gran acidity, total acidity, specific conductance (lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, and magnesium.

GLAD

Recognition of the important link between air pollution and the Great Lakes' water quality has slowly evolved over the past decade. Early studies on the eutrophication of the Great Lakes revealed that the atmosphere was a significant source of phosphorus that contaminated these lakes. This discovery gave birth to the Great Lakes Atmospheric Deposition (GLAD) network in 1976. During 1980, the U.S. Environmental Protection Agency's Great Lakes National Program Office assumed responsibility for this network and expanded and upgraded it to produce higher quality data. A secondary purpose of the U.S. Environmental Protection Agency's (US-EPA) GLAD network is to collect acid rain and acid snow data for the National Acid Rain Study. Precipitation samples are collected weekly, and sent to the Central Regional Laboratory (CRL) for routine physical/chemical analysis. GLAD measures the following: pH (field and lab), specific conductance (field and lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, nitrite, total Kjeldahl nitrogen, total organic carbon, SiO₂, total phosphorus, alkalinity, acidity, suspended solids, and trace metals mercury, aluminum, barium,

beryllium, cobalt, copper, iron, lithium, manganese, strontium, titanium, zinc, gold, cadmium, nickel, chromium, silver, and lead.

TVA

In 1971, the Tennessee Valley Authority (TVA) established a wet precipitation monitoring network. Samples are collected on a bi-weekly basis. There are 32 stations presently operating. TVA measures the following: pH (lab), specific conductance (lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, ortho-phosphate, fluorine, weak acidity, and strong acidity.

EPA-SON

The EPA state operated network (EPA-SON) is comprised of sites operated by states and coordinated by EPA region offices. Currently, the network consists of 27 sites (in EPA Regions III, IV, VI, and VIII) located primarily in the eastern and southeastern United States. State agencies provide personnel to service the sites and submit samples to a central laboratory for analysis. The EPA regional offices and the Atmospheric Research and Exposure Assessment Laboratory (AREAL) coordinate the network and ensure that the data are carefully validated and meet the requirements for placement in the ADS data base. The EPA regional offices assist in site selection, operator training, data processing, coordination of the network, and fund the analysis of samples through a contracted central laboratory, Global Geochemistry, Corp. The AREAL provides external quality assurance assistance through a contract with Research Triangle Institute (RTI). The EPA-SON network collects weekly precipitation chemistry samples and measures the following: pH (field and lab), specific conductance (field and lab), sulfate, nitrate, ammonium, calcium, chloride, sodium, potassium, magnesium, strong acid, fluorine, nitrite, ortho-phosphate, and bromine.

REQUESTING ADS DATA

The ADS data base offers to researchers without charge standardized data files on magnetic tape. These files consist of yearly, monthly, quarterly, or seasonal summaries similar to those contained in this report or raw sample data as it is presented from each network in the ADS format. These files may also contain additional data which have not been published due to the fact that some sites have not met the Unified Data Base Committee's summary criteria. Table 1.2 gives an overview of the data available.

TABLE 1.2. 1987 inventory of the ADS data base

Network Abbreviation	Sample Data Coverage	All Summaries	Raw Sample Data
NADP/NTN	1/78-12/87	YES	YES
CAPMoN	6/83-12/87	YES	YES
MAP3S/PCN	1/78-12/87	YES	YES
APIOS-C	7/80-12/87	YES	YES
APIOS-D	7/80-12/87	YES	YES
UAPSP	1/79-12/87	YES	YES
CANSAP	1/72-12/83	YES	YES
APN	1/78-1/83	YES	YES
WISC	3/82-6/84	YES	YES
TVA	5/78-12/86	YES	YES
EPA-SON		NO	YES

Additional copies of the following reports are also available:

Acid Deposition System (ADS) for Statistical Reporting: System Design and User's Code Manual

Acid Precipitation in North America: 1980, 1981 and 1982 Annual Data Summaries from Acid Deposition System Data Base

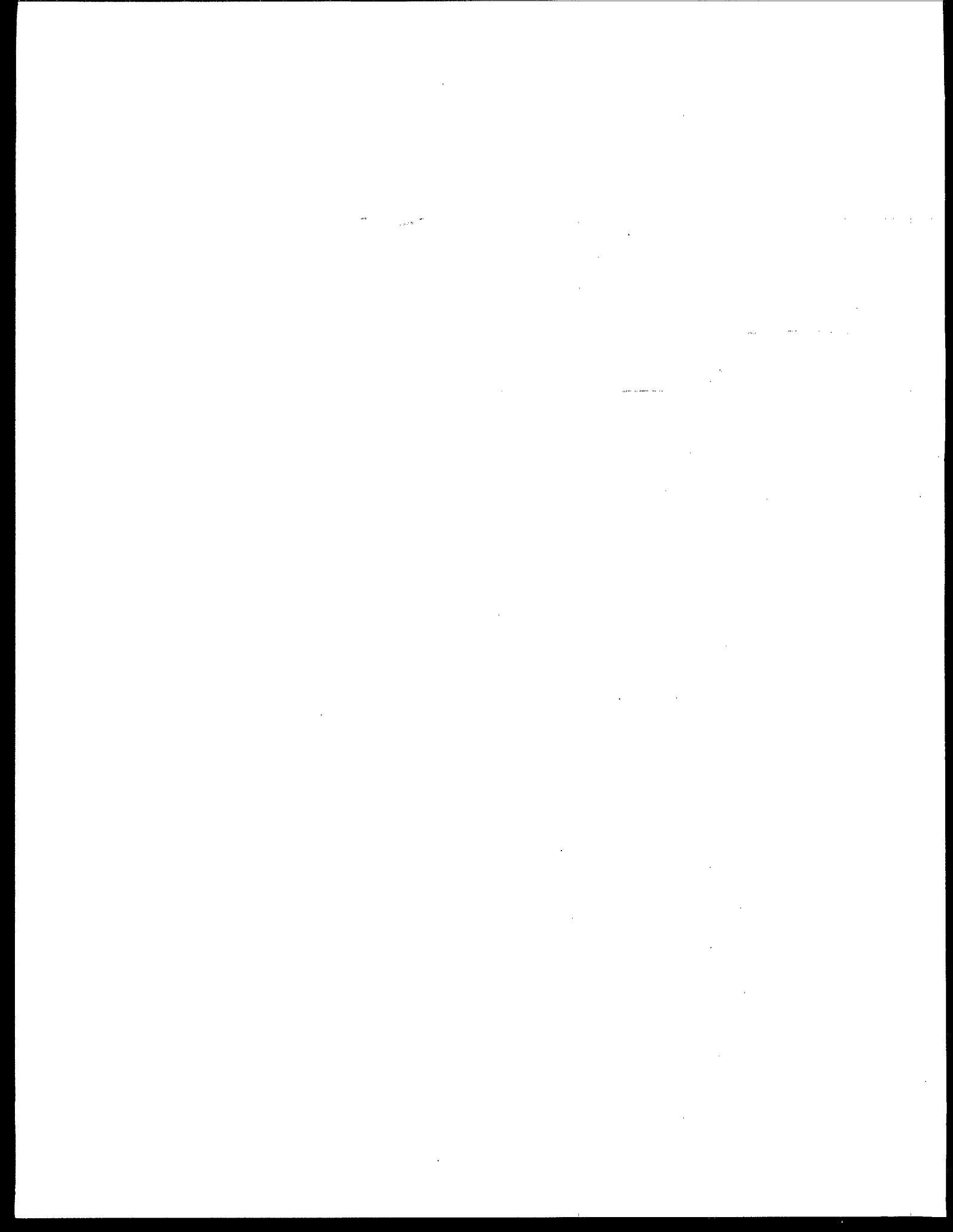
Acid Precipitation in North America: 1983 Annual Data Summary from Acid Deposition System Data Base

Acid Precipitation in North America: 1984 Annual Data Summary from Acid Deposition System Data Base.

Acid Precipitation in North America: 1985 Annual Data Summary from Acid Deposition System Data Base

Acid Precipitation in North America: 1986 Annual and Seasonal Data Summaries from Acid Deposition System Data Base.

These publications and data tapes are available by making a request in writing to: ADS Coordinator, Computational Sciences Department, Mail Stop K1-86, Pacific Northwest Laboratory, P.O. Box 999, Richland, Washington 99352. Phone (509) 375-2398.



SECTION 2

PREPARATION OF DATA SUMMARIES

Annual and seasonal data summaries for 1987 are calculated for pH, hydrogen ion (derived from pH), and the ion species sulfate, nitrate, ammonium, calcium, chloride, sodium, magnesium and potassium. This section describes the steps involved in the preparation of summaries using unified valid data screening, data completeness measures, and criteria for reporting a summary. The steps applied by ADS were developed in conjunction with the Unified Deposition Database Committee. The committee, initiated by the Canadian Federal-Provincial Research and Monitoring Coordinating Committees and the National Acid Precipitation Assessment Program, develops proposed precipitation chemistry data screening, wet deposition calculation procedures, site representativeness criteria, data completeness measures, and data quality ratings.

A major concern associated with any data summary is the quality of the data on which the summaries are based. The data summaries included in this report are prepared using a general algorithm and framework which explicitly addresses the concern for data quality. Data quality begins when networks establish operating protocols, perform data screening and implement quality control and quality assurance programs. ADS requires that networks provide documentation on their network operation and that a minimum set of information accompany each sample result. Hence networks not able to provide the required information are unable to transfer data to ADS. In preparing concentration and deposition summaries, four related steps occur. First, network protocols and data screening procedures are determined and an algorithm to translate this information along with the sample result to the ADS data base is constructed. Second, valid sample criteria for the data summary are determined. Third, data completeness measures for each summary are computed. Fourth, the data completeness measures and site representativeness are used to develop criteria for reporting a specific data summary.

NETWORK PROTOCOLS AND DATA SCREENING

Precipitation chemistry monitoring networks collect precipitation samples in the field, transport them to an analytical laboratory for chemical analysis and report the sample results. Network specific protocol procedures are implemented to ensure that data are collected, analyzed and reported as consistently as possible. Each network uses a different approach to the screening and subsequent reporting of sampling data. For example, some networks have rigid screening procedures which a sample must pass before any data are reported. Other networks may use essentially the same screening procedures but will report the sample data accompanied by appropriate notes

even when the sample does not meet the screening criteria. These differences in network screening and reporting of sample data must be considered when data from multiple networks are combined for an analysis.

The following is a general discussion of the data screening and reporting procedures applied in this report. Information is obtained from documentation available from each network and discussions with network personnel directly knowledgeable about their screening and reporting procedures. Most of the information is used in the transfer of each network's data to a common data format for wet deposition data used in the ADS data base.

Each network has a chemical analysis laboratory which performs sample analyses and checks the reasonableness of the sample analysis results using information available from the analysis. Some networks may use additional information to initiate a reanalysis. For the current purpose it is sufficient to state that each network receives data from a chemical analysis laboratory which has been subjected to internal laboratory checks. The results reported from the laboratory are assumed to represent the ion species concentration in the sample as received by the laboratory. All chemical analysis laboratories used by the networks participate in interlaboratory comparison studies. Laboratory sample analysis protocols are available from individual network coordinators.

Each network then combines the sample results from the laboratory with supporting comments and flags associated with the sample collection effort. This includes information from the time of field collection until the sample is analyzed. The information differs widely across the networks, especially as to how much is recorded in a network data base for others to use. The ADS data base incorporates all of the comments, codes and flags that are available from each network in a computerized form. It is assumed that the data sent to ADS by each network have been subjected to an internal screening process which is applied to individual samples. That process may result in samples being declared invalid/suspect and either not being reported or being appropriately coded.

VALID SAMPLE CRITERIA

Valid sample criteria have been designed to incorporate each network's comments, codes and flags into the decision process of determining whether an individual wet deposition sample result is to be included or excluded from a summary. The discussion on screening for valid samples is stated in terms of the ADS data base common record format (Watson and Olsen 1984) with some reference to network specific codes as necessary for clarification.

All networks include note codes which are informational in nature. Some codes denote reasons why sample results are not available or reported. Other codes describe conditions present in the field, and during sample transit and sample receipt. Unless explicitly stated elsewhere, these note codes are not used in determining whether a sample is valid. The basic premise is that each network has screened individual sample results for possible contamination.

If a sample result passes the network's screening, it is assumed that possible sample contamination indicated by field or lab comments did not materially affect the sample ion species concentrations.

A set of valid sample criteria has been designed for each network. Each sample associated with a sampling period is screened to determine whether the sample meets specific criteria. The screening criteria use the informational comments and codes provided by each network. The criteria are:

- All sampling periods for which it is known that no precipitation occurred are considered valid sample periods. This applies mainly to weekly, monthly and 28-day sampling protocols. For event and daily sampling protocols the absence of a sample record for a day implies that no precipitation occurred.
- The wet deposition sample must be a wet-only sample. All samples identified as bulk, partially bulk or undefined are invalid.
- Wet deposition samples that have insufficient precipitation to complete a chemical analysis for a specific ion species are invalid for that specific ion species. Event/daily samples are most likely to have this occur.
- An individual ion species concentration accompanied by a comment code designating the measurement to be "suspect" or "invalid" is declared an invalid sample. Deletion of the ion species concentration by the network for the same reason has the same result.
- The actual sampling period for a wet deposition sample must be close to the network's protocol sampling period. Specifically, the following conditions lead to an invalid sample:

For NADP/NTN, actual sample period less than 6 days or greater than 8 days. This includes all NADP/NTN samples coded "LD" with measured precipitation.

For APIOS-C, actual sample period less than 21 days or greater than 35 days.

SITE REPRESENTATIVENESS

The "quality" of a summary is a function of the representativeness of the chemistry of the precipitation. This includes consideration of whether the sampling site is, in some sense, representative of the local regional area and whether the chemistry reported for a sample is representative of the precipitation that actually occurred at the site. The latter is not explicitly

addressed in this report but is addressed by each network's siting protocols. The former, site representativeness, is addressed below.

A definition of site representativeness implies that specific criteria for measuring representativeness are available. The criteria would reflect those attributes that are important for a specific objective, e.g., evaluation of spatial patterns in wet deposition over North America. No generally accepted quantitative or qualitative rating of site representativeness for all precipitation chemistry sites included in the ADS data base is available. The concept of site representativeness has been addressed by the Unified Deposition Data Base Committee. They developed a process for assigning site representativeness ratings centered around the concept of "regionally representative" in the context of evaluation of long-range transport models. Although their assignments reflect only one concept of site representativeness, they are included in this report because the concept is important and the assignments are the only ones currently available. Site representativeness ratings defined by the Unified Deposition Data Base Committee are given in Table 2.1.

TABLE 2.1. UDDC site representativeness rating descriptions

Rating	Description
1	Regionally representative
2A	Potentially regionally representative
2	Regional representativeness uncertain
2B	Potentially regionally unrepresentative
3	Regionally unrepresentative
blank	Representativeness not determined

The assignment of a rating to a site involves evaluation of seven criteria. If a site fails one or more of the criteria, it is generally considered to be unrepresentative (rating 3) for monitoring regional-scale wet deposition. Exceptions occur if previous examination of historical data from the site or if the judgment of researchers familiar with the site, indicate that the local interferences are small or insignificant. The seven criteria applied are:

- No continuous industrial source, town or suburban area located within 10 kilometers.
- No major point source (or combination of point sources) with emissions greater than 10,000 tons sulfur dioxide or nitric oxide per year, located within 50 kilometers.
- No surface pollutant storage facility (e.g., salt pile) located within 100 meters.

- No transportation sources, furnaces or incinerators located within 100 meters.
- No cultivation or other agricultural activity occurs within 500 meters.
- No buildings, trees, etc., impinge on the cone defined by a 45 degree angle above the horizontal plane and centered at the site (30 degrees is considered optimal but 45 degrees is the highest acceptable angle).
- No local area dusty conditions due to poor ground cover.

Sites rated 1 meet all of the criteria, i.e., they do not suffer from any of the interferences. When insufficient information is available to conclusively rate a site as 1 or 3, the site is rated as 2. That is, the site fails one or more of the criteria; however, the severity of the local influences could not be assessed from the information available. Whenever possible, a tentative judgment was made to distinguish further with the site rated as 2A or 2B. In the former case, the local interferences are judged to be small or insignificant and the site is termed potentially representative (2A). In the latter case, the local interferences are judged to be more of a problem and the site is termed potentially unrepresentative (2B). In either case, the evaluation of the site did not clearly result in the site being rated as level 1 or 3. A site that was not evaluated is assigned a rating of "blank."

A site judged to be regionally unrepresentative can, and usually does, meet the siting criteria adopted by the network operating the site. Moreover, the network siting criteria may be appropriate for the objectives of the network. Therefore, a site rated 3 can not automatically be assumed to be a "poor" site. It is also possible for a site not to meet its network's siting criteria and still be judged regionally representative. The site representativeness rating does indicate whether the seven criteria are met. It is subject to revision as more information about the site becomes available.

DATA COMPLETENESS MEASURES

Data completeness measures are based on the assumption that the entire season or year consists of sample periods that account for every day of the summary period. It is normal for a site to have incomplete information for some precipitation events during a summary period, to deviate from established collection protocols due to circumstances outside the operator's control, or to collect samples that are subsequently eliminated during the network's data screening process. Therefore, it is necessary to establish criteria for determining when sufficient valid wet deposition data are present to calculate a meaningful seasonal or annual summary for a site. Data completeness measures are designed to quantify the amount of information upon which a data summary is based and enable criteria to be established that indicate the quality of

the summary. Five data completeness measures are proposed: percent precipitation coverage length, percent total precipitation, percent valid sample length, percent of samples with measured precipitation that are valid, and percent collection efficiency. A sixth measure, percent sea salt correction is applied to sulfate summaries for sites within 100 km of a coast.

The data completeness measures reflect the type of problems encountered when a data user is confronted with an actual wet deposition monitoring data set. The measures were motivated by the following questions, all of which require an answer for the data completeness and temporal representativeness to be properly assessed: For what portion of the summary period do we know the amount of precipitation that fell?, What portion of the precipitation measured is associated with a valid chemical analysis and valid sample?, What percent of the time during the summary period do these valid samples represent?, What percent of the total number of actual sample periods with measured precipitation do these valid samples represent?, What was the collection efficiency for valid samples, compared to a collocated standard gage, over the summary period?, and What percentage of the sulfate concentration is attributable to sea salt due to a site's proximity to the ocean? Definitions for the six data completeness measures are given in Table 2.2.

The data completeness measures are the basis for assigning a data completeness level (1 to 4) to each seasonal and annual summary (Table 2.3). A summary with data completeness level 1 has the best information, or the highest level of data completeness. The least confidence is given to a summary with data completeness level 3. Level 4 summaries fail level 3 criteria. They are viewed as not providing a representative summary for the period and are not reported in this paper. The data summary is assigned the lowest data completeness level achieved by any of the six data completeness measures. A summary that does not meet one or more of the criteria for level 3 is assigned as level 4.

The collection efficiency data completeness level criteria for a seasonal summary is relaxed somewhat for Canadian winter summaries compared to other seasons due to the generally poorer collector performance for snow sampling. If the criteria for other seasons is applied to winter months when a large percentage of the precipitation in Canada is in the form of snow, then only a few locations meet even the level 3 criterion. It is believed that a lower percentage could be accepted for winter because the problems are primarily due to undercatch of snow. An under-collected snow sample may reasonably represent the concentration but not the deposition.

The data completeness level for an annual summary is based on annual criteria as well as criteria for the four quarters January-March, April-June, July-September, and October-December which comprise the year. The addition of quarterly criteria to the annual criteria is to insure that adequate data from each quarter is present in the annual summary. Because the emphasis is on insuring adequate data for an annual summary, some quarterly criteria are relaxed from the seasonal criteria (see Table 2.3).

TABLE 2.2. Definition of data completeness measures

Data Completeness Measure	Definition
%PCL	Percent precipitation coverage length is the percent of the summary period for which information on whether or not precipitation occurred is available. If precipitation is known to have occurred during a particular sampling period but no measurement of the amount is available, then no knowledge of precipitation is assumed. This measure can be less than 100% because the site started (stopped) operation after (before) the beginning of the summary period or because equipment or operator problems caused the site to be shut down for a portion of the summary period.
%TP	Percent total precipitation is the percent of the total precipitation depth measured that is associated with valid samples collected during the summary period.
%VSL	Percent valid sample length is the percent of the days during the summary period for which valid samples were obtained. Note that sample periods with no precipitation are considered valid samples.
%VSMP	Percent valid samples with measured precipitation is the percent of all wet deposition samples during the summary period that are valid samples.
%COLEFF	Percent collection efficiency is the ratio of the wet deposition sample volume (converted to a depth) to the total precipitation depth as measured by a collocated raingage. Only valid samples with both a collocated standard raingage and sample volume measurement available are used.
%SEASALT	Percent sea salt correction is the percent of the average sulfate concentration that is estimated to be due to sea salt, using sodium or magnesium as tracers of sea salt.

TABLE 2.3 Data completeness level criteria for seasonal and annual summaries

Data Completeness Measure	Seasonal Data Completeness Level		
	1	2	3
%PCL	$\geq 95\%$	$\geq 90\%$	$\geq 90\%$
%TP, %VSL, %VSMP	$\geq 80\%$	$\geq 70\%$	$\geq 60\%$
%COLEFF Winter	$\geq 80\% (50\%)^*$	$\geq 60\% (40\%)^*$	$\geq 50\% (30\%)^*$
Spring, Summer, Autumn	$\geq 80\%$	$\geq 60\%$	$\geq 50\%$
%SEASALT	$\leq 25\%$	$\leq 50\%$	$\leq 75\%$

Data Completeness Measure	Annual Data Completeness Level		
	1	2	3
%PCL Annual and each quarter	$\geq 95\%$	$\geq 90\%$	$\geq 90\%$
$\geq 75\%$	$\geq 60\%$	$\geq 50\%$	
%TP, %VSL, %VSMP Annual and each quarter	$\geq 80\%$	$\geq 70\%$	$\geq 60\%$
$\geq 70\%$	$\geq 60\%$	$\geq 50\%$	
%COLEFF Annual and for Winter and Spring, Summer, Autumn	$\geq 80\% (70\%)^*$	$\geq 60\% (40\%)^*$	$\geq 50\% (30\%)^*$
$\geq 80\% (50\%)^*$	$\geq 60\% (40\%)^*$	$\geq 50\% (30\%)^*$	
$\geq 80\%$	$\geq 60\%$	$\geq 50\%$	
%SEASALT	$\leq 25\%$	$\leq 50\%$	$\leq 75\%$

*The bracketed value applies to Canadian sites.

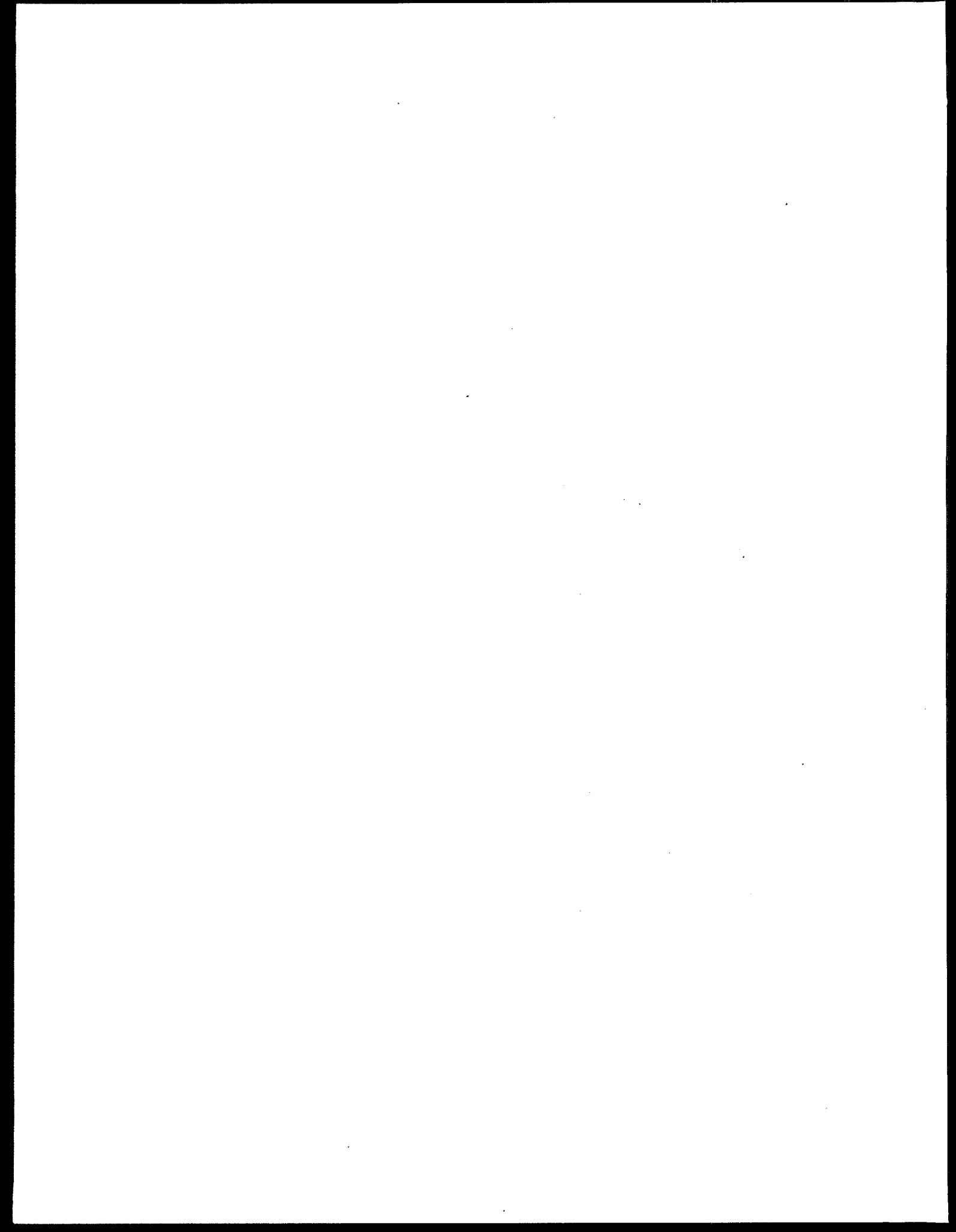
OVERALL DATA QUALITY LEVELS

The quality of a data summary is a function of the representativeness of a site and of the completeness of the data on which the summary is based. Other factors also are important in assessing the quality of the individual data values upon which the summary is based. For example, the chemical integrity of the sample between its collection in the field and its analysis by a central analytical laboratory may affect the accuracy of the data. These factors may enter into the valid sample screening process but for current purposes are not explicitly discussed here. In previous sections site representativeness levels and data completeness levels have been introduced as mechanisms to categorize the quality of a data summary. These categorizations necessarily incorporate subjective judgments but they are based on quantitative information. A qualitative assessment of the overall quality of a data summary can be obtained by combining the information in the previous categorizations.

The overall data quality levels defined in Table 2.4 are suggested as one reasonable method of combining the levels. Due to different sample capture efficiencies on an annual, seasonal and individual sampling period basis, and the differing degrees to which "ideal" siting criteria are satisfied at each site, not all data are of the same quality. For the benefit of data users, it was felt that it would be very valuable to distinguish between sites yielding data of different quality. Therefore, four levels of data quality are proposed. "Level 1" data meets the most rigorous screening criteria, and hence is considered to be the best quality. On the other hand, "Level 3" represents what is judged to be the minimum acceptable quality. "Level 4" data do not meet even "Level 3" criteria and are not of sufficient quality to be useful or reported here.

TABLE 2.4. Overall data quality level

Site Representativeness Level	Data Completeness Level			
	1	2	3	4
1	1	2	3	4
2a	2	2	3	4
2	2	2	3	4
2b	2	2	3	4
3	3	3	3	4
no rating	-	-	-	-



SECTION 3

1987 ANNUAL AND SEASONAL DATA SUMMARIES

This section gives an overview of the application of the selection criteria to 1987 data, describes the contents of the data tables in Appendix D, and summarizes some of the characteristics of 1987 wet deposition data by presenting mosaic maps for pH, sulfate, nitrate, ammonium, and calcium.

APPLICATION OF SELECTION CRITERIA

Only those summaries for 1987 sites that meet the selection criteria (an overall data quality of 3 or better) are reported. Since the data completeness measures are determined for each ion species, it is possible for a data summary to be selected for one ion species but not another for the same site and summary period. The spatial distribution of all sites that operated for a full year in 1987 and the subset of these sites that met the annual selection criteria for sulfate is given in Figure 3.1. A full year of operation is defined as the site successfully monitoring precipitation amount for at least 90 percent of the year. Tables 3.1, 3.2, and 3.3 give, by network, the number of sites operating at some time during the year, the numbers of sites operating for a full year and the number of sites which met the selection criteria for annual sulfate summaries for the years 1979-1987, respectively. Networks whose sampling period protocol is weekly, four-weekly, or monthly are most likely to have sites that do not meet the selection criteria. CAPMoN, which uses a daily sampling protocol, also has a significant number of sites not meeting the criteria.

TABLE 3.1. Number of sites collecting at least one sample during the year

Network	1979	1980	1981	1982	1983	1984	1985	1986	1987
NADP/NTN	39	82	97	110	142	177	195	203	204
MAP3S/PCN	8	8	9	9	9	9	9	9	9
UAPSP	18	10	21	22	25	27	26	25	25
CAPMoN	4	6	6	8	17	18	24	24	25
APIOS-D	0	8	16	16	16	17	15	17	15
APIOS-C	0	30	35	36	38	38	37	38	37
Total	69	144	184	201	247	286	306	316	315

TABLE 3.2. Number of sites monitoring precipitation at least 90 percent of the year

Network	1979	1980	1981	1982	1983	1984	1985	1986	1987
NADP/NTN	21	36	73	89	102	139	179	187	182
MAP3S/PCN	8	8	9	9	9	9	9	9	9
UAPSP	18	6	6	21	20	19	21	24	23
CAPMoN	3	4	5	6	7	17	18	21	20
APIOS-D	-	-	12	16	16	14	14	13	14
APIOS-C	-	-	30	33	32	34	32	36	35
Total	50	54	135	174	186	232	273	290	283

TABLE 3.3. Number of sites meeting annual selection criteria for sulfate

Network	1979	1980	1981	1982	1983	1984	1985	1986	1987
NADP/NTN	16	26	53	60	71	85	101	115	101
MAP3S/PCN	5	7	8	9	8	9	9	9	9
UAPSP	16	6	6	21	20	18	19	21	0
CAPMoN	2	2	3	4	4	11	11	17	13
APIOS-D	-	-	-	-	10	10	11	11	10
APIOS-C	-	-	10	14	22	21	20	22	21
Total	39	41	80	108	135	154	171	195	154

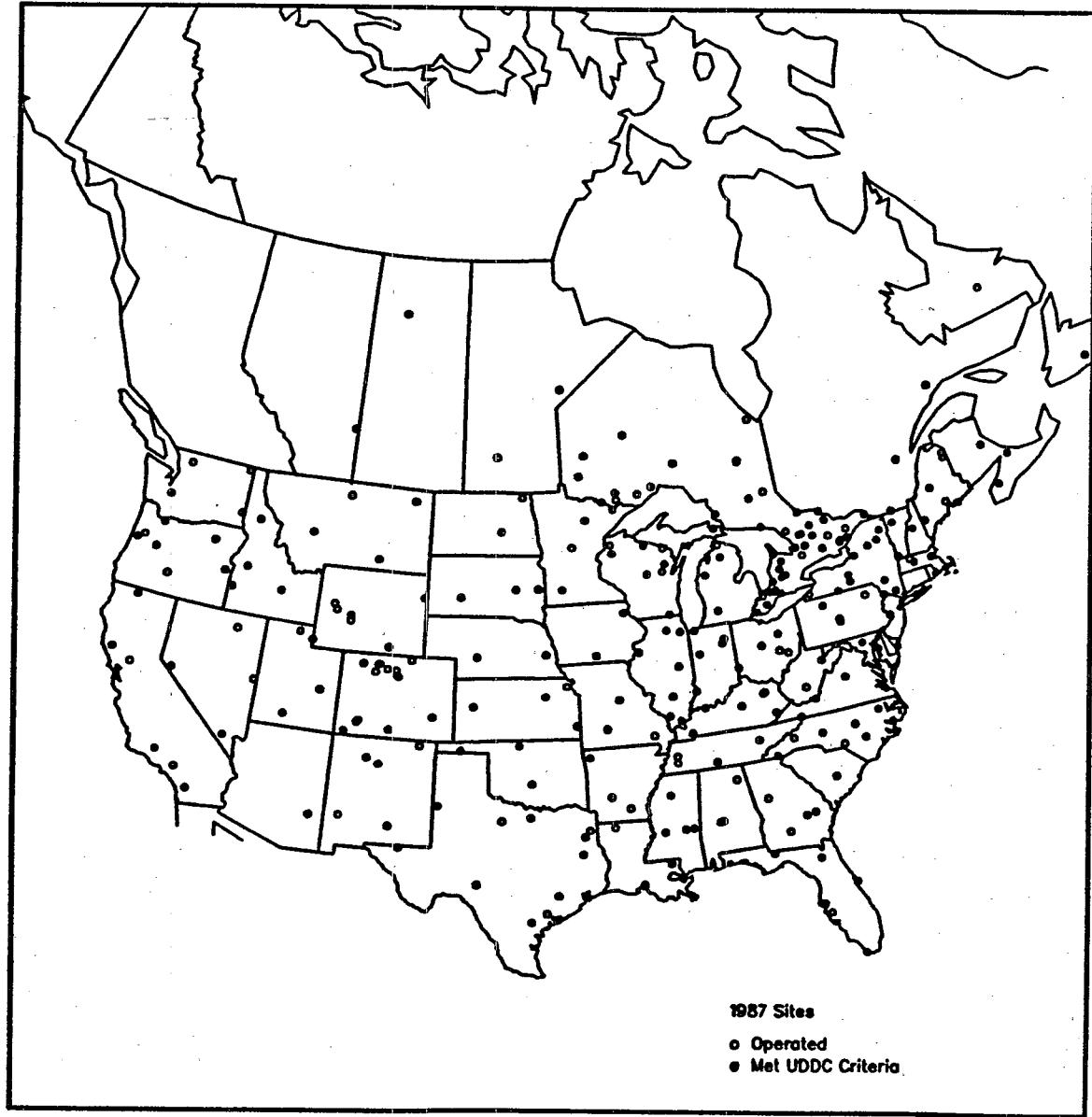


FIGURE 3.1 Geographic location of sites in 1987 operating a full year and the subset of sites meeting annual UDDC criteria for sulfate

CONTENT OF DATA TABLES

Appendix D contains tables of ion species data summaries by individual site for calendar year 1987. The summaries are arranged by ion species. The ion species included are pH and hydrogen (derived from pH), sulfate, nitrate, ammonium, calcium, magnesium, potassium, sodium and chloride. Summary values reported in the tables are the data completeness measures, site representativeness rating, data completeness rating and overall data quality rating, number of valid samples, number of valid samples below the detection limit, total precipitation, precipitation weighted average concentration and deposition. Although not contained in this report, seasonal summaries are available from ADS either as reports or computer-readable files. Also, data summary tables giving the ion species concentration distribution properties are available from ADS. Specifically, ion species concentration distribution properties summarized in these tables are the geometric mean, standard deviation of logarithms, arithmetic mean and standard deviation, the minimum and maximum valid sample value, the 25th, 50th, and 75th percentile and Lilliefors D-statistic to test for normality and log-normality of the concentration distribution. All values displayed in the tables are also available from ADS in computerized data file formats.

Algorithms for constructing the data summaries are applied to data contained in the ADS data base and utilize the concepts described in Section 2. The exact procedures used are contained in the Unified Wet Deposition Data Summaries for North America: Data Summary Procedures and Results for 1980-1986 by Olsen et. al. (1989). Because of the number of possible definitions, the procedures for calculating precipitation depth, total precipitation, precipitation weighted concentration, and deposition are described here.

Precipitation depth has a specialized meaning. Precipitation depth for a single sample is equal to the reported rain gage depth. If the rain gage depth is not reported, precipitation depth is equal to the predicted depth based on the sample volume and surface area of the collector. Total precipitation is the sum of the precipitation depths for all sample periods with measured precipitation during the summary period. Precipitation weighted average concentration is the weighted average of all valid concentration values where the weights are the corresponding sample precipitation depth values. Deposition is the product of the precipitation weighted average concentration and the total precipitation during the summary period.

MOSAIC MAPS FOR 1987

The mosaic maps in Figures 3.2 through 3.16 display concentration and deposition surfaces estimated by a simple kriging procedure. Estimates of the surface are made on a grid of hexagon centers. The hexagons have an area of 2,000 squared kilometers. The eastern and western parts of the maps are estimated and displayed separately because the magnitude of the wet deposition is generally much larger in the east. The western part consists of 1875 hexagons while the eastern part consists of 1833 hexagons (1317 within the United States). The gray scale used in the maps are based on the percentiles

from the frequency distribution of the estimates associated with the hexagons in the eastern and western United States map sections.

Hydrogen Spatial Patterns

The estimated 1987 annual spatial pattern in the United States for pH (Figure 3.2 and Table 3.4) has a range of 4.12 to 5.07 in the east and a range of 4.64 to 6.09 in the west. Over 50% of the eastern pH values are less than the smallest pH in the west. In the east, the lowest pH values occur in an ellipsoid area across Ohio and Pennsylvania and an additional area in western New York. The lowest recorded pH values are 4.08 at Leading Ridge, PA; 4.10 at Penn State, PA; 4.15 at Kane, PA; and 4.15 at Zanesville, OH. In the west, the lowest pH values occur in eastern Kansas, eastern Texas and eastern Arizona. The lowest recorded pH values are 4.63 at Marshall, TX; 4.65 at Longview, TX; 4.71 at Farlington, KS; and 4.72 at Oliver Knoll, AZ. The highest pH values in the east occur in Minnesota, Wisconsin and Western Ontario. The highest recorded pH values are 5.18 at Pickle Lake, ON; 5.13 at Fernberg, MN; 5.10 at Spooner, WI; and 5.02 at Lamberton, MN. The highest pH values in the west occur in western Kansas, eastern Colorado, northern California and western Nevada. The highest recorded pH values are 6.13 at Davis, CA; 5.73 at Goodwell Research, KS; 5.72 at Scott Lake, KS; and 5.71 at Las Animas, CO.

The estimated 1987 winter spatial pattern in the United States for pH (Figure 3.3 and Table 3.4) has a range of 4.21 to 5.02 in the east and a range of 4.59 to 6.00 in the west. Almost 50% of the east has pH values less than the smallest pH in the west. In the east, the lowest pH values occur in a circular area centered over northeastern Ohio. The lowest recorded pH values are 4.12 at Colchester, ON; 4.14 at Killarney, ON; 4.21 at Caldwell, OH; and 4.24 at Delaware, OH. In the west, the lowest pH values occur in eastern Kansas, eastern Oklahoma and eastern Texas. The lowest recorded pH values are 4.54 at Longview, TX; 4.59 at Attwater Prairie C, TX; 4.60 at Farlington, KS; and 4.61 at Salt Plains Nation, OK. The highest pH values in the east occur in Minnesota, southern Louisiana and Florida. The highest recorded pH values are 5.09 at Iberia, LA; 5.06 at Verna Well Field, FL; 5.02 at Camp Ripley, MN; and 5.01 at Palmerston, ON. The highest pH values in the west occur in eastern Colorado, northern California and northern Nevada. The highest recorded pH values are 6.09 at Las Animas, CO; 5.75 at Davis, CA; 5.69 at Smith Valley, NV; and 5.66 at Saval Ranch, NV.

The estimated 1987 summer spatial pattern in the United States for pH (Figure 3.4 and Table 3.4) has a range of 3.96 to 5.68 in the east and a range of 4.53 to 5.96 in the west. Close to 75% of the pH values in the east are less than the smallest pH in the west. In the east, the lowest pH values occur in Pennsylvania, southern New York, New Jersey and Delaware. The lowest recorded pH values are 3.90 at Leading Ridge, PA; 3.92 at Lewes, DE; 3.93 at Scranton, PA; and 3.95 at Penn State, PA. In the west, the lowest pH values occur in eastern Kansas, eastern Texas, and eastern Arizona. The lowest recorded pH values are 4.68 at Mesa Verde, CO; 4.66 at Farlington, KS; 4.65 at Oliver Knoll, AZ; and 4.51 at Marshall, TX. The highest pH values in the east occur in Minnesota, western Wisconsin and western Ontario. The highest

recorded pH values are 5.31 at Pickle Lake, ON; 5.41 at Spooner, WI; 5.51 at Ear Falls, ON; and 5.82 at Camp Ripley, MN. The highest pH values in the west occur in western Utah and the Great Plains from eastern North Dakota to eastern Colorado. The highest recorded pH values are 6.04 at Huron Well Field, SD; 5.90 at Green River, UT; 5.89 at Woodworth, ND; and 5.86 at Scott Lake, KS.

In both the east and west there are distinct differences in the summer and winter pH spatial patterns. In the east, the summer pH values are lower, the median in the summer is 4.44 while the winter median is 4.64. The center of the lowest pH values has moved east from northeastern Ohio, in the summer, to eastern Pennsylvania, in the winter. Additionally, in the east, the pH values in western Ontario decrease in the summer. In the west, the range of pH values is about the same in winter and summer, but the highest pH values in the summer are in the Great Plains which in the winter have much lower pH values. The highest pH values in the winter occur in northern California and western Nevada which have much lower pH values in the winter.

The estimated 1987 annual spatial pattern in the United States for hydrogen ion deposition (Figure 3.2 and Table 3.5) has a range of 0.053 kg/ha to 0.850 kg/ha in the east and a range of 0.010 kg/ha to 0.288 kg/ha in the west, with the maximum value in the west being less than the median (0.30 kg/ha) in the east. In the east, the highest depositions occur in Pennsylvania, New Jersey and central New York. The highest recorded depositions are 0.94 kg/ha at Kane, PA; 0.83 kg/ha at Leading Ridge, PA; 0.75 kg/ha at Washington Xing, NJ; and 0.75 kg/ha at Bennett Bridge, NY. In the west, the highest depositions occur in eastern Kansas, eastern Oklahoma, and eastern Texas. The highest recorded depositions are 0.31 kg/ha at Longview, TX; 0.29 kg/ha at Marshall, TX; 0.22 kg/ha at Farlington, KS; and 0.14 kg/ha at Konza Prairie, KS. The lowest depositions in the east occur in Minnesota, Wisconsin and western Ontario. The lowest recorded depositions are 0.038 kg/ha at Pickle Lake, ON; 0.046 kg/ha at Fernberg, MN; 0.049 kg/ha at Lamberton, MN; and 0.050 kg/ha at Spooner, WI. The lowest depositions in the west occur in western Kansas, eastern Colorado, northern California, northern Nevada, and southern Idaho. The lowest recorded depositions are 0.003 kg/ha at Davis, CA; 0.005 kg/ha at Smith Valley, NV; 0.005 kg/ha at Reynolds Creek, ID; and 0.006 kg/ha at Las Animas, CO.

The estimated 1987 winter spatial pattern in the United States for hydrogen ion deposition (Figure 3.3 and Table 3.5) has a range of 0.005 kg/ha to 0.139 kg/ha in the east and a range of 0.002 kg/ha to 0.085 kg/ha in the west, with the median (0.008 kg/ha) in the west being almost eight times smaller than the median (0.062 kg/ha) in the east. In the east, the highest depositions occur in southern New York, New Jersey, northern Alabama, northern Georgia and eastern Tennessee. The highest recorded depositions are 0.179 kg/ha at Walker Branch, TN; 0.133 kg/ha at Oak Ridge, TN; 0.127 kg/ha at Bennett Bridge, NY; and 0.118 kg/ha at West Point, NY. In the west, the highest depositions occur in eastern Kansas, eastern Oklahoma, and eastern Texas. The highest recorded depositions are 0.098 kg/ha at Longview, TX; 0.087 kg/ha at Marshall, TX; 0.073 kg/ha at Attwater Prairie C, TX; and 0.061 kg/ha at Farlington, KS. The lowest depositions in the east occur in Minnesota, and Wisconsin. The lowest recorded depositions are 0.002 kg/h at

Camp Ripley, MN; 0.004 kg/ha at Round Lake, WI; 0.005 kg/ha at Gaylord, MI; and 0.005 kg/ha at Spooner, WI. The lowest depositions in the west occur in eastern Colorado, northern Nevada, southern Idaho, eastern Montana and the western Dakotas. The lowest recorded depositions are 0.0003 kg/ha at Las Animas, CO; 0.0006 kg/ha at Brookings, SD; 0.0007 kg/ha at Custer Battlefield, MT; and 0.0010 kg/ha at Smith Valley, NV.

The estimated 1987 summer spatial pattern in the United States for hydrogen ion deposition (Figure 3.4 and Table 3.5) has a range of 0.005 kg/ha to 0.385 kg/ha in the east and a range of 0.002 kg/ha to 0.122 kg/ha in the west, with the median (0.010 kg/ha) in the west being over 11 times smaller than the median (0.116 kg/ha) in the east. In the east, the highest depositions occur in Pennsylvania, New Jersey and in central New York. The highest recorded depositions are 0.41 kg/ha at Kane, PA; 0.41 kg/ha at Washington Xing, NJ; 0.38 kg/ha at Leading Ridge, PA; and 0.30 kg/ha at Biscuit Brook, NY. In the west, the highest depositions occur in eastern Kansas, eastern Oklahoma, and eastern Texas. The highest recorded depositions are 0.065 kg/ha at Farlington, KS; 0.064 kg/ha at Marshall, TX; 0.049 kg/ha at Konza Prairie, KS; and 0.046 kg/ha at Beeville, TX. The lowest depositions in the east occur in Minnesota, Wisconsin and Western Ontario. The lowest recorded depositions are 0.002 kg/h at Camp Ripley, MN; 0.008 kg/ha at Ear Falls, ON; 0.012 kg/ha at Spooner, WI; and 0.012 kg/ha at Expt. Lake Area, ON. The lowest depositions in the west occur in northern California, Oregon, northern Nevada, southern Idaho and the Dakotas. The lowest recorded depositions are 0.0007 kg/ha at Green River, UT; 0.0008 kg/ha at Vines Hill, OR; 0.0016 kg/ha at Huron Well Field, SD; and 0.0016 kg/ha at Reynolds Creek, ID.

The spatial patterns and the magnitudes of the summer and winter hydrogen ion deposition are generally the same in the west. The one major difference in the west is the increase in deposition along the west coast in the winter and the increase in deposition in Wyoming and Montana in the summer. In the east there is both a change in the spatial pattern and the magnitude between winter and summer. The median summer deposition (0.116 kg/ha) is almost twice the median winter deposition (0.062 kg/ha). The maximum estimate of summer deposition (0.385 kg/ha) is almost three times the maximum winter deposition (0.139 kg/ha). In the winter the highest depositions are in New Jersey and the south (Tennessee, Alabama and Georgia). However, in summer the high depositions in the northeast spread across Pennsylvania and central New York, and the South has gone from having some of the highest depositions to having some of the lowest.

Sulfate Spatial Patterns

The estimated 1987 annual spatial pattern in the United States for sulfate ion concentration (Figure 3.5 and Table 3.4) has a range of 0.92 mg/L to 4.29 mg/L in the east and a range of 0.28 mg/L to 1.66 mg/L in the west, with over 50% of the concentrations in the east being greater than the largest concentration in the west. In the east, the highest concentrations occur in southern Ontario, Ohio and western Pennsylvania. The highest recorded concentrations are 4.77 mg/L at Port Stanley, ON; 4.52 mg/L at Colchester,

ON; 4.18 mg/L at Palmerston, ON; and 4.10 mg/L at Merlin, ON. The highest recorded concentrations in the United States are 3.78 mg/L at Leading Ridge, PA, and 3.62 mg/L at Wooster, OH. In the west, the highest concentrations occur in eastern Kansas and eastern Nebraska. The highest recorded concentrations are 1.59 mg/L at Oliver Knoll, AZ; 1.55 mg/L at Mead, NE; 1.45 mg/L at Konza Prairie, KS; and 1.42 mg/L at Longview, TX. The lowest concentrations in the east occur in western Ontario, Nova Scotia, Maine and Florida. The lowest recorded concentrations are 0.74 mg/L at Pickle Lake, ON; 0.86 mg/L at Greenville Station, ME; 0.90 mg/L at Jackson, NS; and 0.92 mg/L at Quincy, FL. The lowest concentrations in the west occur in northern California, Oregon, and Idaho. The lowest recorded depositions are 0.21 mg, at H. J. Andrews, OR; 0.23 mg/L at Starkey Experiment, OR; 0.28 mg/L at Headquarters, ID; and 0.30 mg/L at Smiths Ferry, ID.

The estimated 1987 winter spatial pattern in the United States for sulfate ion concentration (Figure 3.6 and Table 3.4) has a range of 0.38 mg/L to 2.69 mg/L in the east and a range of 0.17 mg/L to 1.64 mg/L in the west. The upper percentiles in the east are 50% greater than the upper percentiles in the west while the lower percentiles in the east are three times as large as the lower percentiles in the west. In the east, the highest concentrations occur in southern Ontario, Ohio and Indiana. The highest recorded concentrations are 2.93 mg/L at Delaware, OH; 2.91 mg/L at Port Stanley, ON; 2.88 mg/L at Palmerston, ON; and 2.82 mg/L at Caldwell, OH. The highest recorded concentrations in the United States are 2.82 mg/L at Caldwell, OH and 2.70 mg/L at Indiana Dunes, IN. In the west, the highest concentrations occur in eastern South Dakota and western Oklahoma. The highest recorded concentrations are 1.96 mg/L at Brookings, SD; 1.72 mg/L at Huron Well Field, SD; 1.54 mg/L at Salt Plains Nation, OK; and 1.51 mg/L at Goodwell Research, OK. The lowest concentrations in the east occur in Maine and Nova Scotia. The lowest recorded concentrations are 0.27 mg/L at Port Cartier, PQ; 0.32 mg/L at Greenville Station, ME; 0.43 mg/L at Winterport, ME; and 0.43 mg/L at Harcourt, NS. The lowest concentrations in the west occur in northern California, northern Nevada and Oregon. The lowest recorded depositions are 0.13 mg/L at Saval Ranch, NV; 0.14 mg/L at Starkey Experiment, OR; 0.15 mg/L at Montague, CA; and 0.16 mg/L at H. J. Andrews, OR.

The estimated 1987 summer spatial pattern in the United States for sulfate ion concentration (Figure 3.7 and Table 3.4) has a range of 0.76 mg/L to 5.60 mg/L in the east and a range of 0.38 mg/L to 1.73 mg/L in the west. The lower percentiles in the east are two times larger than those in the west while the upper percentiles in the east are three times those in the west. In the east, the highest concentrations occur in southern Ontario, Pennsylvania New Jersey and Delaware. The highest recorded concentrations are 6.29 mg/L at Lewes, DE; 6.04 mg/L at Leading Ridge, PA; 5.78 mg/L at Huron Park, ON; and 5.66 mg/L at Wilkesport, ON. In the west, the highest concentrations occur in eastern Kansas, eastern Oklahoma and Arizona. The highest recorded concentrations are 1.72 mg/L at Oliver Knoll, AZ; 1.61 mg/L at Farlington, KS; 1.43 mg/L at Konza Prairie, KS; and 1.34 mg/L at Goodwell Research, OK. The lowest concentrations in the east occur in western Ontario, Minnesota and Florida. The lowest recorded concentrations are 0.63 mg/L at Pickle Lake, ON; 0.64 mg/L at ELA (b), ON; 0.71 mg/L at Ear Falls, ON; and 0.73 mg/L at

Expt. Lake Area, ON. The lowest recorded concentration in the eastern United States are 0.80 mg/L at Quincy, FL, and 0.93 mg/L at Camp Ripley, MN. The lowest concentrations in the west occur in western Oregon and northern Idaho. The lowest recorded depositions are 0.27 mg/L at Alsea, OR; 0.42 mg/L at Headquarters, ID; 0.44 mg/L at H. J. Andrews, OR; and 0.45 mg/L at Hyslop Farm, OR.

In the east, the magnitude of the summer sulfate concentrations are nearly twice that of the winter sulfate concentrations. In the summer the maximum sulfate concentrations are centered over Pennsylvania, while in the winter the maximum sulfate concentrations are centered to the west, over Ohio. Additionally, in the east, during the summer, the lower concentrations are in the southeast and upper midwest, while in the winter the lower concentrations are along the east coast. In the west, the magnitude of the larger concentrations increase slightly in the winter, but there is also a large decrease in the magnitude and number of small concentrations. In the west, while there is a relatively smooth spatial pattern in the winter, the summer spatial pattern shows a number of local minimums and maximums.

The estimated 1987 annual spatial pattern in the United States for sulfate ion deposition (Figure 3.5 and Table 3.5) has a range of 6.2 kg/ha to 42.2 kg/ha in the east and a range of 1.1 kg/ha to 18.7 kg/ha in the west, with the median in the east (18.4 kg/ha) almost five times larger than the median in the west (3.7 kg/ha). In the east, the highest depositions occur in southern Ontario and eastern Pennsylvania. The highest recorded depositions are 44.0 kg/ha at Kane, PA; 40.6 kg/ha at Colchester, ON; 37.5 kg/ha at Leading Ridge, PA; and 36.0 kg/ha at Port Stanley, ON. In the west, the highest depositions occur in eastern Kansas, eastern Oklahoma and eastern Texas. The highest recorded depositions are 19.2 kg/ha at Longview, TX, 15.7 kg/ha at Farlington, KS; 12.9 kg/ha at Konza Prairie, KS; and 12.0 kg/ha at LBJ National Grass, TX. The lowest depositions in the east occur in western Ontario, Minnesota and western Wisconsin. The lowest recorded depositions are 4.3 kg/ha at Pickle Lake, ON; 5.2 kg/ha at Expt. Lake Area, ON; 7.0 kg/ha at Quetico Centre, ON; and 7.5 kg/ha at Dorion, ON. The lowest depositions in the eastern United States are 8.1 kg/ha at Spooner, WI, and 8.7 kg/ha at Marcell, MN. The lowest depositions in the west occur in western Idaho, eastern Oregon, and Nevada. The lowest recorded depositions are 0.8 kg/ha at Starkey Experiment, OR; 0.9 kg/ha at Smith Valley, NV; 1.1 kg/ha at Reynolds Creek, ID; and 1.6 kg/ha at Smiths Ferry, ID.

The estimated 1987 winter spatial pattern in the United States for sulfate ion deposition (Figure 3.6 and Table 3.5) has a range of 0.29 kg/ha to 6.71 kg/ha in the east and a range of 0.09 kg/ha to 4.75 kg/ha in the west, with the median in the east (2.79 kg/ha) five times larger than the median in the west (0.57 kg/ha). In the east, the highest depositions occur in eastern Tennessee, northern Alabama and Louisiana. The highest recorded depositions are 8.04 kg/ha at Walker Branch, TN; 7.20 kg/ha at Southeast, LA; 7.10 kg/ha at Sand Mountain Exp, AL; and 6.35 kg/ha at Fort Frederica, GA. In the west, the highest depositions occur in eastern Texas. The highest recorded depositions are 4.51 kg/ha at Marshall, TX; 4.17 kg/ha at Attwater Prairie C, TX; 3.60 kg/ha at Victoria, TX; and 3.44 kg/ha at LBJ National Grass, TX.

The lowest depositions in the east occur in western Ontario, Minnesota and Wisconsin. The lowest recorded depositions are 0.15 kg/ha at Round Lake, WI; 0.19 kg/ha at Gaylord, MI; 0.27 kg/ha at Shawano, WI; and 0.36 kg/ha at Geraldton, ON. The lowest depositions in the west occur in northern Nevada, eastern Oregon, southern Idaho and southeastern Montana. The lowest recorded depositions are 0.06 kg/ha at Saval Ranch, NV; 0.08 kg/ha at Silver Lake Ranger, OR; 0.10 kg/ha at Custer Battlefield, MT; and 0.10 kg/ha at Manitou, CO.

The estimated 1987 summer spatial pattern in the United States for sulfate ion deposition (Figure 3.7 and Table 3.5) has a range of 1.62 kg/ha to 18.90 kg/ha in the east and a range of 0.29 kg/ha to 6.12 kg/ha in the west, with the median in the east (6.64 kg/ha) over five times larger than the median in the west (1.22 kg/ha). In the east, the highest depositions occur in southern Ontario, Pennsylvania, and New Jersey. The highest recorded depositions are 21.3 kg/ha at Kane, PA; 19.4 kg/ha at Colchester, ON; 19.0 kg/ha at Washington Xing, NJ; and 18.1 kg/ha at Leading Ridge, PA. In the west, the highest depositions occur in eastern Nebraska, eastern Kansas and eastern Oklahoma. The highest recorded depositions are 4.7 kg/ha at Farlington, KS, and Konza Prairie, KS; 4.0 kg/ha at Great Plains Apia, OK; and 3.6 kg/ha at Mead, NE. The lowest depositions in the east occur in western Ontario, and Minnesota. The lowest recorded depositions are 1.24 kg/ha at Camp Ripley, MN; 1.51 kg/ha at ELA (b), ON; 1.83 kg/ha at Ear Falls, ON; and 1.94 kg/ha at Warsaw Caves, ON. The lowest depositions in the west occur in northern California and Oregon. The lowest recorded depositions are 0.20 kg/ha at Alsea, OR, and Vine Hill, OR; 0.27 kg/ha at Hyslop Farm, OR; and 0.33 kg/ha at Montague, CA.

In the east, the median summer sulfate deposition (6.6 kg/ha) is just slightly less than the maximum winter sulfate deposition. In the summer, the maximums occur in Pennsylvania and southern Ontario with the minimums occurring in the southeast and upper midwest. However, in the winter the maximums occur in the south, with the greatest changes occurring in Alabama. In the west, the summer sulfate depositions are also greater than the winter sulfate depositions, with the median summer deposition (1.2 kg./ha) being twice the median winter deposition (0.6 kg/ha). In the summer, the sulfate depositions are at a minimum in the Pacific Northwest, while in the winter, the west coast deposition increases and the minimums occur inland, as far west as eastern Montana.

Nitrate Spatial Patterns

The estimated 1987 annual spatial pattern in the United States for nitrate ion concentration (Figure 3.8 and Table 3.4) has a range of 0.56 mg/L to 2.87 mg/L in the east and a range of 0.20 mg/L to 1.41 mg/L in the west. Over 95% of the nitrate concentrations in the west are less than the median concentration in the east (1.23 mg/L). In the east, the highest concentrations occur in southern Ontario, northern Pennsylvania and northern New York. The highest recorded concentrations are 3.27 mg/L at Port Stanley, ON; 2.97 mg/L at Alvinston, ON; 2.96 mg/L at Palmerston, ON, and 2.95 mg/L at Colchester, ON. The highest recorded concentrations within the United States are 2.49

mg/L at Bennett Bridge, NY, and 2.44 mg/L at Leading Ridge, PA. In the west, the highest concentrations occur in eastern South Dakota, eastern Nebraska, western Oklahoma and southeastern Colorado. The highest recorded concentrations are 1.45 mg/L at Las Animas, CO; 1.41 mg/L at Mead, NE; 1.28 mg/L at Brookings, SD; and 1.26 mg/L at Goodwell Research, OK. The lowest concentrations in the east occur in New Brunswick, Nova Scotia, Maine and Florida. The lowest recorded concentrations are 0.53 mg/L at Jackson, NS; 0.55 mg/L at Quincy, FL; 0.58 mg/L at Harcourt, NB; and 0.59 mg/L at Greenville Station, ME. The lowest concentrations in the west occur in Oregon, Washington and northern Idaho. The lowest recorded depositions are 0.15 mg/L at H. J. Andrews, OR; 0.32 mg/L at La Grande, WA; 0.32 mg/L at Bull Run, OR; and 0.35 mg/L at Headquarters, ID.

The estimated 1987 winter spatial pattern in the United States for nitrate ion concentration (Figure 3.9 and Table 3.4) has a range of 0.37 mg/L to 3.19 mg/L in the east and a range of 0.13 mg/L to 1.88 mg/L in the west, with the median in the east (1.10 mg/L) being almost twice the median in the west (0.67 mg/L). In the east, the highest concentrations occur in southern Ontario and Michigan. The highest recorded concentrations are 4.51 mg/L at Killarney, ON; 3.55 mg/L at Palmerston, ON; 3.42 mg/L at Port Stanley, ON; and 3.38 mg/L at Huron Park, ON. The highest recorded concentrations in the United States are 3.22 mg/L at Gaylord, MI, and 2.77 mg/L at Bennett Bridge, NY. In the west, the highest concentrations occur in the eastern Dakotas and southern Nevada. The highest recorded concentrations are 1.92 mg/L at Brookings, SD; 1.88 mg/L at Red Rock Canyon, NV; 1.60 mg/L at Huron Well Field, SD; and 1.45 mg/L at Salt Plains Nation, OK. The lowest concentrations in the east occur in the deep south. The lowest recorded concentrations are 0.35 mg/L at Everglades Nat. Pa, FL; 0.36 mg/L at Newton, MS; 0.38 mg/L at Tifton ARS, GA; and 0.39 mg/L at Meridian, MS. The lowest concentrations in the west occur in Oregon and Washington. The lowest recorded depositions are 0.07 mg/L at H. J. Andrews, OR; 0.08 mg/L at Olympic Nat. Park, WA; 0.15 mg/L at Hyslop Farm, OR; and 0.17 mg/L at Starkey Experiment, OR.

The estimated 1987 summer spatial pattern in the United States for nitrate ion concentration (Figure 3.10 and Table 3.4) has a range of 0.73 mg/L to 2.97 mg/L in the east and a range of 0.25 mg/L to 1.98 mg/L in the west. Over 95% of the western concentrations are less than the median concentration in the east (1.35 mg/L). In the east, the highest concentrations occur in southern Ontario, eastern Pennsylvania and Delaware. The highest recorded concentrations are 3.45 mg/L at Huron Park, ON; 3.22 mg/L at Lewes, DE; 3.17 mg/L at Alvinston, ON; 3.14 mg/L at Wilkesport, ON; and 3.04 mg/L at Leading Ridge, PA. In the west, the highest concentrations occur in Utah, eastern Colorado and eastern Oregon. The highest recorded concentrations are 2.09 mg/L at Green River, UT; 1.75 mg/L at Vines Hills, OR; 1.72 mg/L at Las Animas, CO; and 1.62 mg/L at Pawnee, CO. The lowest concentrations in the east occur in Ontario, Quebec, and Florida. The lowest recorded concentrations are 0.51 mg/L at Port Cartier, PQ; 0.53 mg/L at Pickle Lake, ON; 0.61 mg/L at Bonner Lake, ON; and 0.61 mg/L at Quincy, FL. The lowest concentrations in the west occur in Oregon, Washington, northern Idaho and western Montana. The lowest recorded depositions are 0.15 mg/L at Alsea, OR; 0.36 mg/L at Hyslop Farm, OR; 0.44 mg/L at La Grande, WA; and 0.049 mg/L at H. J. Andrews, OR.

In both the east and west, there is not a significant difference between the magnitudes of the larger percentiles in the summer and winter nitrate concentrations, however the lower percentiles increase in magnitude in the summer. In the east, the nitrate concentrations increase from the south to the north in the winter, with the largest concentrations in southern Ontario. In the summer, the maximum nitrate concentrations move to the east coast, in Pennsylvania and some of the lowest concentrations occur in the north. In the west, the largest nitrate concentrations in the winter occur in the eastern Dakotas and the concentrations decrease to the west. In the summer, the spatial pattern of the nitrate concentrations is dominated by a number of local minimums and maximums.

The estimated 1987 annual spatial pattern in the United States for nitrate ion deposition (Figure 3.8 and Table 3.5) has a range of 6.1 kg/ha to 27.6 kg/ha in the east and a range of 1.5 kg/ha to 11.9 kg/ha in the west, with almost all the depositions in the west less than the median deposition in the east (11.1 kg/ha). In the east, the highest depositions occur in central New York, eastern Pennsylvania and southern Ontario. The highest recorded depositions are 29.3 kg/ha at Bennett Bridge, NY; 26.5 kg/ha at Colchester, ON; 26.5 kg/ha at Wilmer, ON; and 24.8 kg/ha at Priceville, ON. In the west, the highest depositions occur in eastern Nebraska, eastern Kansas and eastern Oklahoma. The highest recorded depositions are 11.2 kg/ha at Farlington, KS; 10.8 kg/ha at Konza Prairie, KS; 10.7 kg/ha at Mead, NE; and 10.2 kg/ha at Salt Plains Nation, OK. The lowest depositions in the east occur in Ontario, Quebec, Maine and Alabama. The lowest recorded depositions are 4.7 kg/ha at Pickle Lake, ON; 5.6 kg/ha at Port Cartier, PQ; 5.8 kg/ha at Quetico Centre, ON; 5.8 kg/ha at Greenville Station, ME; and 5.9 kg/ha at Selma, AL. The lowest depositions in the west occur in eastern Oregon, western Idaho, northern Nevada and Arizona. The lowest recorded depositions are 1.3 kg/ha at Smith Valley, NV; 1.3 kg/ha at Starkey Experiment, OR; 1.5 kg/ha at Reynolds Creek, ID; and 1.9 kg/ha at Oliver Knoll, AZ.

The estimated 1987 winter spatial pattern in the United States for nitrate ion deposition (Figure 3.9 and Table 3.5) has a range of 0.55 kg/ha to 6.14 kg/ha in the east and a range of 0.17 kg/ha to 2.57 kg/ha in the west, with more than 95% of the western concentrations being less than the median concentration in the east (2.2 kg/ha). In the east, the highest depositions occur in southern Ontario, New York and Massachusetts. The highest recorded depositions are 7.12 kg/ha at Bennett Bridge, NY; 6.59 kg/ha at Priceville, ON; 6.57 kg/ha at Killarney, ON; and 6.42 kg/ha at Turners Falls, MA. In the west, the highest depositions occur in eastern Texas. The highest recorded depositions are 2.78 kg/ha at Marshall, TX; 2.49 kg/ha at Longview, TX; 2.39 kg/ha at Farlington, KS; and 2.33 kg/ha at LBJ National Grass, TX. The lowest depositions in the east occur in Minnesota and Wisconsin. The lowest recorded depositions are 0.31 kg/ha at Gaylord, MI; 0.33 kg/ha at Round Lakes, WI; 0.55 kg/ha at Shawano, WI; and 0.57 kg/ha at Spooner, WI. The lowest depositions in the west occur in northern Nevada, eastern Oregon, southern Idaho and southeastern Montana. The lowest recorded depositions are 0.10 kg/ha at Saval Ranch, NV; 0.14 kg/ha at Brookings, SD; 0.15 kg/ha at Silver Lake Ranger, OR; and 0.15 kg/ha at Custer Battlefield, MT.

The estimated 1987 summer spatial pattern in the United States for nitrate ion deposition (Figure 3.10 and Table 3.5) has a range of 1.80 kg/ha to 9.14 kg/ha in the east and a range of 0.17 kg/ha to 5.32 kg/ha in the west. The median in the east (3.90 kg/ha) is over three times larger than the median in the west (1.20 kg/ha). In the east, the highest depositions occur in southern Ontario, Pennsylvania and New Jersey. The highest recorded depositions are 10.4 kg/ha at Washington Xing, NJ; 10.1 kg/ha at Colchester, ON; 9.5 kg/ha at Kane, PA; and 9.4 kg/ha at Uxbridge, ON. In the west, the highest depositions occur in eastern Nebraska and eastern Kansas. The highest recorded depositions are 4.3 kg/ha at Konza Prairie, KS; 4.3 kg/ha at Mead, NE; 4.0 kg/ha at Farlington, KS; and 3.5 kg/ha at Scott Lake, KS. The lowest depositions in the east occur in Ontario, Nova Scotia, Maine and Alabama. The lowest recorded depositions are 0.98 kg/ha at Selma, AL; 1.22 kg/ha at Warsaw Caves, ON; 1.53 kg/ha at Jackson, NS; and 1.57 kg/ha at Greenville Station, ME. The lowest depositions in the west occur in Oregon and western Washington. The lowest recorded depositions are 0.11 kg/ha at Alsea, OR; 0.22 kg/ha at Hyslop Farm, OR; 0.28 kg/ha at La Grande, WA; and 0.35 kg/ha at Vines Hill, OR.

In both the east and the west, the summer nitrate deposition is nearly twice the winter nitrate deposition. In the east, the summer maximums occur in Pennsylvania, while in the winter, the maximums move north and west to New York and southern Ontario. Both the summer and winter spatial patterns for nitrate deposition, in the east, have a number of local minimums and maximums. In the west, the minimum summer nitrate depositions occur in the Pacific Northwest. However, in the winter, the minimum nitrate depositions move inland as far east as eastern Montana.

Ammonium Spatial Patterns

The estimated 1987 annual spatial pattern in the United States for ammonium ion concentration (Figure 3.11 and Table 3.4) has a range of 0.080 mg/L to 0.725 mg/L in the east and a range of 0.035 mg/L to 0.651 mg/L in the west, with the concentrations in the west being only slightly less than those in the east. In the east, the highest concentrations occur in southern Ontario, Ohio and Minnesota. The highest recorded concentrations are 0.89 mg/L at Palmerston, ON; 0.82 mg/L at Coldwater, ON; 0.77 mg/L at Merlin, ON; and 0.71 mg/L at Colchester, ON. The highest recorded concentrations in the United States are 0.64 mg/L at Lamberton, MN, and 0.54 mg/L at Zanesville, OH. In the west, the highest concentrations occur in eastern South Dakota, eastern Nebraska, and western Oklahoma. The highest recorded concentrations are 0.67 mg/L at Brookings, SD; 0.64 mg/L at Goodwell Research, OK; 0.61 mg/L at Mead, NE; and 0.54 mg/L at Scott Lake, KS. The lowest concentrations in the east occur in Maine and Florida. The lowest recorded concentrations are 0.066 mg/L at Greenville Station, ME; 0.077 mg/L at Quincy, FL; 0.77 mg/L at Kennedy Space Cent, FL; and 0.81 mg/L at Bridgton, ME. The lowest concentrations in the west occur in Oregon, western Washington and central Idaho. The lowest recorded depositions are 0.021 mg/L at H. J. Andrews, OR; 0.051 mg/L at La Grande, WA; 0.060 mg/L at Headquarters, ID; and 0.061 mg/L at Bull Run, OR.

The estimated 1987 winter spatial pattern in the United States for ammonium ion concentration (Figure 3.12 and Table 3.4) has a range of 0.032 mg/L to 0.575 mg/L in the east and a range of 0.017 mg/L to 0.671 mg/L in the west. The east has a larger median (0.17 mg/L) than the west (0.12 mg/L), but the range is much greater in the west than in the east. In the east, the highest concentrations occur in southern Ontario, Michigan and Wisconsin. The highest recorded concentrations are 0.98 mg/L at Palmerston, ON; 0.76 mg/L at Gaylord, MI; 0.72 mg/L at Killarney, ON; and 0.50 mg/L at Spooner, WI. In the west, the highest concentrations occur in eastern South Dakota, western Kansas and western Oklahoma. The highest recorded concentrations are 0.75 mg/L at Goodwell Research, OK; 0.72 mg/L at Brookings, SD; 0.65 mg/L at Huron Well Field, SD; and 0.48 mg/L at Scott Lake, KS. The lowest concentrations in the east occur in Quebec, New Brunswick, Maine and Massachusetts. The lowest recorded concentrations are 0.021 mg/L at Greenville Station, ME; 0.022 mg/L at Harcourt, NB, and Port Cartier, PQ; and 0.026 mg/L at Turners Falls, MA. The lowest concentrations in the west occur in western Washington, northern Oregon, southern Idaho and western Wyoming. The lowest recorded depositions are 0.011 mg/L at H. J. Andrews, OR; 0.011 mg/L at Starkey Experiment, OR; 0.014 mg/L at Olympic Nat. Park, WA; and 0.023 mg/L at Gypsum Creek, WY.

The estimated 1987 summer spatial pattern in the United States for ammonium ion concentration (Figure 3.13 and Table 3.4) has a range of 0.081 mg/L to 0.874 mg/L in the east and a range of 0.031 mg/L to 0.748 mg/L in the west, with the east having a higher median (0.31 mg/L) than the west (0.21 mg/L). In the east, the highest concentrations occur in southern Ontario, and northern Ohio. The highest recorded concentrations are 1.31 mg/L at Whitney, ON; 1.23 mg/L at Dawson Creek, ON; 1.06 mg/L at Merlin, ON; and 1.03 mg/L at McKellar, ON. The highest recorded concentrations in the eastern part of the United States are 0.82 mg/L at Lewes, DE, and 0.66 mg/L at Penn State, PA. In the west, the highest concentrations occur in South Dakota, western Oklahoma, eastern Colorado and Utah. The highest recorded concentrations are 0.84 mg/L at Green River, UT; 0.70 mg/L at Goodwell Research, OK; 0.68 mg/L at Pawnee, CO; and 0.61 mg/L at Huron Well Field, SD. The lowest concentrations in the east occur in the deep south. The lowest recorded concentrations are 0.044 mg/L at Quincy, FL; 0.071 mg/L at Clinton, MS; 0.112 mg/L at Bradford Forest, FL; and 0.114 mg/L at Meridian, MS. The lowest concentrations in the west occur in western Oregon, western Washington and western Montana. The lowest recorded depositions are 0.011 mg/L at Alsea, OR; 0.045 mg/L at Buffalo Pass, CO; 0.047 mg/L at H. J. Andrews, OR; and 0.051 mg/L at Hyslop Farm, OR.

The summer ammonium concentration is greater than the winter concentration, in both the east and the west. The spatial pattern in the east does not change significantly between the winter and summer. Both the summer and winter spatial patterns for ammonium concentration have a number of local minimum and maximums. The spatial pattern in the west changes between the summer and winter because of large ammonium concentrations in the summer occurring in eastern Oregon, Utah and northeastern Colorado.

The estimated 1987 annual spatial pattern in the United States for ammonium ion deposition (Figure 3.11 and Table 3.5) has a range of 0.81 kg/ha to 6.09 kg/ha in the east and a range of 0.33 kg/ha to 4.28 kg/ha in the west. The median deposition in the east (2.62 kg/ha) is over four times greater than the median deposition in the west (0.62 kg/ha). In the east, the highest depositions occur in southern Ontario, northern New York and northern Illinois. The highest recorded depositions are 6.7 kg/ha at Coldwater, ON; 6.4 kg/ha at Palmerston, ON; 6.4 kg/ha at Colchester, ON; and 6.2 kg/ha at Merlin, ON. The highest depositions in the eastern United States were 4.9 kg/ha at Bennett Bridge, NY, and 4.7 kg/ha at Argonne, IL. In the west, the highest depositions occur in eastern South Dakota, eastern Nebraska and Oklahoma. The highest recorded depositions are 4.6 kg/ha at Mead, NE; 3.8 kg/ha at Brookings, SD; 3.3 kg/ha at Goodwell Research, OK; and 3.0 kg/ha at Salt Plains Nation, OK. The lowest depositions in the east occur in Maine, South Carolina and Florida. The lowest recorded depositions are 0.67 kg/ha at Greenville Station, ME; 0.70 kg/ha at Bridgton, ME; 0.87 kg/ha at Quincy, FL; and 0.89 kg/ha at Santee National Wi, SC. The lowest depositions in the west occur in Oregon, Arizona, Utah and Wyoming. The lowest recorded depositions are 0.22 kg/ha at Starkey Experiment, OR; 0.31 kg/ha at H. J. Andrews, OR; 0.34 kg/ha at Oliver Knoll, AZ; and 0.36 kg/ha at Cuba, NM.

The estimated 1987 winter spatial pattern in the United States for ammonium ion deposition (Figure 3.12 and Table 3.5) has a range of 0.06 kg/ha to 1.40 kg/ha in the east and a range of 0.02 kg/ha to 0.87 kg/ha in the west, with the median in the east (0.30 kg/ha) over two times the median in the west (0.11 kg/ha). In the east, the highest depositions occur in southern Ontario, southern Mississippi and southern Louisiana. The highest recorded depositions are 1.56 kg/ha at Iberia, LA; 1.15 kg/ha at Clinton, MS; 1.14 kg/ha at Palmerston, ON; and 1.10 kg/ha at Priceville, ON. In the west, the highest depositions occur in eastern Oklahoma and eastern Texas. The highest recorded depositions are 0.55 kg/ha at Forest Seed Ctr, TX; 0.51 kg/ha at Farlington, KS; 0.51 kg/ha at Longview, TX; and 0.49 kg/ha at Salt Plains Nation, OK. The lowest depositions in the east occur in western Ontario, Quebec, and Maine. The lowest recorded depositions are 0.012 kg/ha at Geraldton, ON; 0.033 kg/ha at Port Cartier, PQ; 0.037 kg/ha at Greenville Station, ME; and 0.044 kg/ha at Bridgton, ME. The lowest depositions in the west occur in eastern Oregon, northern Nevada, southern Idaho and western Wyoming. The lowest recorded depositions are 0.012 kg/ha at Starkey Experiment, OR; 0.013 kg/ha at Saval Ranch, NV; 0.020 kg/ha at Gypsum Creek, WY; and 0.023 kg/ha at Sinks Canyon, WY.

The estimated 1987 summer spatial pattern in the United States for ammonium ion deposition (Figure 3.13 and Table 3.5) has a range of 0.22 kg/ha to 3.47 kg/ha in the east and a range of 0.03 kg/ha to 1.32 kg/ha in the west, with the median in the east (0.83 kg/ha) almost four times the median in the west (0.22 kg/ha). In the east, the highest depositions occur in southern and western Ontario, Ohio, Pennsylvania and New York. The highest recorded depositions are 5.91 kg/ha at Dawson Creek, ON; 3.41 kg/ha at Merlin, ON; 3.23 kg/ha at Colchester, ON; and 2.93 kg/ha at Uxbridge, ON. The highest recorded depositions in the United States were 2.08 kg/ha at Big Moose, NY, and 1.95 kg/ha at Kane, PA. In the west, the highest depositions occur in

eastern South Dakota, eastern Nebraska, western Kansas and western Oklahoma. The highest recorded depositions are 1.52 kg/ha at Brookings, SD; 1.49 kg/ha at Scott Lake, KS; 1.32 kg/ha at Goodwell Research, OK; and 1.26 kg/ha at Mead, NE. The lowest depositions in the east occur in the deep south. The lowest recorded depositions are 0.134 kg/ha at Selma, AL; 0.153 kg/ha at Quincy, FL; 0.194 kg/ha at Clinton, MS; and 0.247 kg/ha at Charlottesville, VA. The lowest depositions in the west occur in northern California, western Oregon and western Washington. The lowest recorded depositions are 0.008 kg/ha at Alsea, OR; 0.031 kg/ha at Hyslop Farm, OR; 0.036 kg/ha at La Grande, WA; and 0.037 kg/ha at H. J. Andrews, OR.

Ammonium deposition in the summer is more than twice the deposition in winter. The spatial pattern of the ammonium deposition in the east is dominated by local maximums and minimums. In the east, the minimum depositions in the summer generally occur in the south, while in the winter the minimums occur in the north. In the west, as with the other ions, the summer minimums occur in the Pacific Northwest, while in the winter the minimums move inland.

Calcium Spatial Patterns

The estimated 1987 annual spatial pattern in the United States for calcium ion concentration (Figure 3.14 and Table 3.4) has a range of 0.030 mg/L to 0.553 mg/L in the east and a range of 0.037 mg/L to 0.377 mg/L in the west, with the west having a higher median (0.18 mg/L) than the east (0.12 mg/L). In the east, the highest concentrations occur in southern Ontario, southern Minnesota and Iowa. The highest recorded concentrations are 1.16 mg/L at Port Stanley, ON; 0.60 mg/L at Colchester, ON; 0.54 mg/L at Merlin, ON; and 0.50 mg/L at Huron Park, ON. The highest recorded concentrations in the eastern part of the United States are 0.35 mg/L at Lamberton, MN, and 0.32 mg/L at McNay Research Sta, IA. In the west, the highest concentrations occur in western Kansas, western Oklahoma, northern Texas, and southeastern Colorado. The highest recorded concentrations are 0.40 mg/L at Las Animas, CO; 0.36 mg/L at Scott Lake, KS; 0.34 mg/L at Goodwell Research, OK; and 0.30 mg/L at Guadalupe Mountain, TX. The lowest concentrations in the east occur in New Brunswick, Maine, and Massachusetts. The lowest recorded concentrations are 0.029 mg/L at Winterport, ME; 0.033 mg/L at Greenville Station, ME; 0.038 mg/L at Harcourt, NB; and 0.039 mg/L at Turners Falls, MA. The lowest concentrations in the west occur in northern California, western Oregon and Washington. The lowest recorded depositions are 0.039 mg/L at H. J. Andrews, OR; 0.043 mg/L at Bull Run, OR; 0.044 mg/L at La Grande, WA; and 0.056 mg/L at Palomar Mountain, CA.

The estimated 1987 winter spatial pattern in the United States for calcium ion concentration (Figure 3.15 and Table 3.4) has a range of 0.008 mg/L to 0.527 mg/L in the east and a range of 0.029 mg/L to 0.459 mg/L in the west, with the west having a larger median (0.14 mg/L) than the east (0.08 mg/L). In the east, the highest concentrations occur in southern Ontario, Michigan and northern Indiana. The highest recorded concentrations are 0.93 mg/L at Huron Park, ON; 0.80 mg/L at Port Stanley, ON; 0.71 mg/L at Palmerston, ON; and 0.61 mg/L at Alvinston, ON. The highest recorded concentrations in the eastern United States are 0.56 mg/L at Indiana Dunes, IN, and 0.28 mg/L at

Wellston, MI. In the west, the highest concentrations occur in the Dakotas, southern Nevada and southwestern Texas. The highest recorded concentrations are 0.93 mg/L at Brookings, SD; 0.50 mg/L at Red Rock Canyon, NV; 0.43 mg/L at Big Bend Nat'l Park, TX; and 0.32 mg/L at Custer Battlefield, MT. The lowest concentrations in the east occur in Maine, Massachusetts, and North Carolina. The lowest recorded concentrations are 0.003 mg/L at Turners Falls, MA; 0.015 mg/L at Raleigh, NC; 0.015 mg/L at Port Cartier, PQ; and 0.016 mg/L at Winterport, ME. The lowest concentrations in the west occur in western California, western Oregon and western Washington. The lowest recorded depositions are 0.022 mg/L at Tanbark Flat, CA; 0.022 mg/L at La Grande, WA; 0.025 mg/L at Sequoia Nat. Park, CA; and 0.031 mg/L at Montague, CA.

The estimated 1987 summer spatial pattern in the United States for calcium ion concentration (Figure 3.16 and Table 3.4) has a range of 0.033 mg/L to 0.609 mg/L in the east and a range of 0.030 mg/L to 0.826 mg/L in the west, with the west having a larger median (0.24 mg/L) than the east (0.15 mg/L). In the east, the highest concentrations occur in Ontario, southern Minnesota and eastern Iowa. The highest recorded concentrations are 0.71 mg/L at Colchester, ON; 0.62 mg/L at Longwoods (b), ON; 0.56 mg/L at Huron Park, ON; and 0.56 mg/L at Uxbridge, ON. The highest recorded concentrations in the eastern United States are 0.042 mg/L at Lamberton, MN and Suring-NADP, WI. In the west, the highest concentrations occur in Utah. The highest recorded concentrations are 0.93 mg/L at Green River, UT; 0.70 mg/L at Murphy Ridge, UT; 0.52 mg/L at Lancaster, KS; and 0.50 mg/L at Las Animas, CO. The lowest concentrations in the east occur in Nova Scotia, Quebec, Maine and Massachusetts. The lowest recorded concentrations are 0.024 mg/L at Jackson, NS; 0.030 mg/L at Port Cartier, PQ; 0.031 mg/L at Winterport, ME; 0.035 mg/L at Kejimkujik, NS; and 0.036 at Turners Falls, MA. The lowest concentrations in the west occur in western Oregon and Washington. The lowest recorded depositions are 0.028 mg/L at Hyslop Farm, OR; 0.030 mg/L at Alsea, OR; 0.036 mg/L at La Grande, WA; and 0.41 mg/L at H. J. Andrews, OR.

In both the east and west, the calcium concentration in the summer is approximately twice the winter concentration. In the east, the maximum concentrations in the winter are in the upper midwest, while in the summer, the maximums move to southern Ontario and eastern Iowa. The spatial pattern of the calcium concentration in the west is dominated by the high concentrations in the summer in Utah, and high concentrations in the Dakotas and southern Nevada in the winter.

The estimated 1987 annual spatial pattern in the United States for calcium ion deposition (Figure 3.14 and Table 3.5) has a range of 0.30 kg/ha to 4.58 kg/ha in the east and a range of 0.20 kg/ha to 2.49 kg/ha in the west, with the median in the east (1.2 kg/ha) larger than the median in the west (0.7 kg/ha). In the east, the highest depositions occur in southern Ontario, northern Illinois and southern Iowa. The highest recorded depositions are 8.7 kg/ha at Port Stanley, ON; 5.4 kg/ha at Colchester, ON; 4.3 kg/ha at Merlin, ON; and 3.9 kg/ha at North Easthope, ON. The highest recorded depositions in the United States are 3.2 kg/ha at McNay Research Sta, IA, and 3.0 kg/ha at Argonne, IL. In the west, the highest depositions occur in northcentral Texas, central Oklahoma and eastern Kansas. The highest recorded

depositions are 2.7 kg/ha at LBJ National Grass, TX; 2.3 kg/ha at Mead, NE; 2.2 kg/ha at Farlington, KS; and 2.2 kg/ha at Salt Plains Nation, OK. The lowest depositions in the east occur in Quebec and Maine. The lowest recorded depositions are 0.27 kg/ha at Winterport, ME; 0.34 kg/ha at Greenville Station, ME; 0.36 kg/ha at Bridgton, ME; and 0.39 kg/ha at Port Cartier, PQ. The lowest depositions in the west occur in central California, western Nevada and eastern Washington. The lowest recorded depositions are 0.18 kg/ha at Smith Valley, NV; 0.22 kg/ha at Starkey Experiment, OR; 0.31 kg/ha at Palouse Conservati, WA; and 0.32 kg/ha at La Grande, WA.

The estimated 1987 winter spatial pattern in the United States for calcium ion deposition (Figure 3.15 and Table 3.5) has a range of 0.023 kg/ha to 0.626 kg/ha in the east and a range of 0.034 kg/ha to 0.483 kg/ha in the west, with the median in the east (0.14 kg/ha) greater than the median in the west (0.08 kg/ha). In the east, the highest depositions occur in southern Ontario, and Louisiana. The highest recorded depositions are 1.29 kg/ha at Huron Park, ON; 1.14 kg/ha at Port Stanley, ON; 0.98 kg/ha at Merlin, ON; and 0.83 kg/ha at Palmerston, ON. The highest recorded depositions in the eastern part of the United States are 5.4 kg/ha at Lilley Cornett Woo, KY, and 4.9 kg/ha at Parsons, WV. In the west, the highest depositions occur in eastern Texas. The highest recorded depositions are 6.6 kg/ha at Great Plains Apiar, OK; 5/4 kg/ha at Big Bend Nat'l Pk, TX; 5.0 kg/ha at LBJ National Grass, TX; and 4.9 kg/ha at Longview, TX. The lowest depositions in the east occur in Maine, and Massachusetts. The lowest recorded depositions are 0.008 kg/ha at Turners Falls, MA; 0.011 kg/ha at Gaylord, MI; 0.023 kg/ha at Port Cartier, PQ; and 0.028 kg/ha at Round Lake, WI. The lowest depositions in the west occur in eastern Colorado, northern Nevada, and southern Oregon. The lowest recorded depositions are 0.026 kg/ha at Silver Lake Ranger, OR; 0.027 kg/ha at Manitou, CO; Las Animas, CO; and Smith Valley, NV.

The estimated 1987 summer spatial pattern in the United States for calcium ion deposition (Figure 3.16 and Table 3.5) has a range of 0.06 kg/ha to 2.21 kg/ha in the east and a range of 0.02 kg/ha to 1.28 kg/ha in the west, with the median deposition in the east (0.41 kg/ha) greater than the median deposition in the west (0.28 kg/ha). In the east, the highest depositions occur in southern Ontario, Iowa and northern Indiana. The highest recorded depositions are 2.74 kg/ha at Colchester, ON; 2.08 kg/ha at Uxbridge, ON; 1.53 kg/ha at Wellesley, ON; and 1.49 kg/ha at North Easthope, ON. The highest recorded depositions in the eastern United States are 1.26 kg/ha at Indiana Dunes, IN, and McNay Research Sta, IA. In the west, the highest depositions occur in Kansas, central Oklahoma, northern Texas. The highest recorded depositions are 1.44 kg/ha at Great Plains Apiar, OK; 1.28 kg/ha at Muleshoe Nat'l Wil, TX; 1.22 kg/ha at Lancaster, KS; and 1.14 kg/ha at Scott Lake, KS. The lowest depositions in the east occur in Nova Scotia and Maine. The lowest recorded depositions are 0.052 kg/ha at Winterport, ME; 0.059 kg/ha at Jackson, NS; 0.060 kg/ha at Kejimkujik, NS; and 0.082 kg/ha at Greenville Station, ME. The lowest depositions in the west occur in northern California, Oregon and Washington. The lowest recorded depositions are 0.017 kg/ha at Hyslop Farm, OR; 0.022 kg/ha at Alsea, OR; 0.023 kg/ha at La Grande, WA; and 0.032 kg/ha at H. J Andrews, OR.

In both the east and west, calcium deposition in the summer is approximately three times the deposition in the winter. In the east, the spatial pattern of the calcium deposition are almost opposites in the summer and winter. In the summer, the minimum depositions are primarily in the south, while in the winter, the maximum depositions are primarily in the south. In the west, the summer minimums again occur in the Pacific Northwest. However, in the winter, the Pacific Northwest has relatively large calcium depositions.

Table 3.4. Frequency distribution percentiles for annual and seasonal ion species concentration

		Number of Sites	Min	5	10	25	50	75	90	95	Max
pH	Annual	173	4.076	4.198	4.221	4.291	4.486	4.802	5.209	5.503	6.128
	Winter	217	4.124	4.304	4.338	4.425	4.618	4.845	5.250	5.404	6.085
	Spring	233	4.083	4.165	4.221	4.348	4.557	4.945	5.310	5.583	6.263
	Summer	240	3.961	4.049	4.093	4.233	4.508	4.985	5.318	5.569	6.045
	Fall	245	4.045	4.220	4.261	4.391	4.658	4.974	5.337	5.517	6.392
Sulfate (mg/L)	Annual	154	0.288	0.449	0.706	1.138	1.849	2.773	3.244	3.621	4.774
	Winter	210	0.133	0.273	0.394	0.785	1.168	1.533	2.029	2.532	2.926
	Spring	230	0.279	0.469	0.678	1.220	1.938	2.951	3.757	4.227	6.060
	Summer	217	0.274	0.601	0.709	0.948	1.856	3.456	4.392	4.735	6.288
	Fall	224	0.139	0.349	0.539	0.881	1.404	2.278	2.839	3.319	5.392
Nitrate (mg/L)	Annual	173	0.546	0.378	0.626	0.876	1.316	1.839	2.569	2.676	3.274
	Winter	210	0.668	0.304	0.416	0.546	1.101	1.944	2.665	3.063	4.508
	Spring	231	0.681	0.422	0.556	0.899	1.378	2.122	2.890	3.358	4.930
	Summer	230	0.132	0.543	0.665	0.948	1.310	1.842	2.426	2.736	3.450
	Fall	241	0.616	0.351	0.453	0.649	1.034	1.842	2.257	2.499	3.256
Ammonium (mg/L)	Annual	172	0.513	0.661	0.589	0.162	0.278	0.427	0.550	0.640	0.885
	Winter	212	0.611	0.626	0.635	0.682	0.150	0.266	0.402	0.477	0.975
	Spring	231	0.626	0.687	0.117	0.192	0.384	0.582	0.754	0.871	1.631
	Summer	230	0.611	0.677	0.119	0.176	0.310	0.444	0.624	0.742	1.305
	Fall	243	0.616	0.632	0.663	0.117	0.223	0.348	0.515	0.621	1.416
Calcium (mg/L)	Annual	170	0.616	0.649	0.661	0.681	0.159	0.238	0.315	0.450	1.159
	Winter	209	0.603	0.626	0.634	0.653	0.079	0.149	0.276	0.466	0.934
	Spring	229	0.632	0.653	0.668	0.167	0.200	0.322	0.493	0.591	1.512
	Summer	240	0.623	0.639	0.657	0.105	0.171	0.279	0.374	0.522	0.935
	Fall	246	0.609	0.629	0.636	0.656	0.129	0.223	0.317	0.371	2.184

TABLE 3.5. Frequency distribution percentiles for annual and seasonal ion species deposition

		Number of Sites	Min	5	10	25	50	75	90	95	Max
Hydrogen (kg/ha)	Annual	173	0.003	0.016	0.037	0.123	0.326	0.434	0.515	0.646	0.945
	Winter	217	0.000	0.003	0.005	0.016	0.049	0.073	0.093	0.105	0.179
	Spring	233	0.000	0.003	0.005	0.017	0.051	0.080	0.124	0.143	0.223
	Summer	240	0.001	0.003	0.006	0.020	0.081	0.158	0.209	0.258	0.417
	Fall	245	0.000	0.001	0.003	0.013	0.055	0.099	0.139	0.154	0.254
Sulfate (kg/ha)	Annual	154	0.822	2.282	3.179	9.235	18.598	24.625	29.278	32.700	44.025
	Winter	210	0.061	0.162	0.363	0.901	2.026	3.426	4.602	5.139	8.844
	Spring	230	0.203	0.573	0.798	1.865	3.657	5.510	8.931	7.764	10.300
	Summer	217	0.202	0.434	0.798	1.793	4.674	9.149	12.685	13.968	21.329
	Fall	224	0.028	0.209	0.393	1.699	3.279	5.139	7.076	8.340	11.334
Nitrate (kg/ha)	Annual	173	0.291	2.218	3.171	7.185	11.179	18.814	21.058	23.153	29.259
	Winter	210	0.024	0.273	0.440	0.938	1.912	2.840	4.155	4.992	7.124
	Spring	231	0.057	0.821	0.793	1.475	2.573	3.687	4.770	5.814	7.061
	Summer	239	0.060	0.581	0.883	1.768	3.340	5.061	6.897	7.210	10.411
	Fall	241	0.021	0.204	0.433	0.897	1.972	3.613	5.547	6.292	10.895
Ammonium (kg/ha)	Annual	172	0.092	0.399	0.597	1.414	2.539	3.525	4.327	5.135	6.757
	Winter	212	0.005	0.032	0.059	0.129	0.266	0.413	0.622	0.822	1.561
	Spring	231	0.022	0.139	0.172	0.312	0.644	0.979	1.270	1.535	2.406
	Summer	238	0.007	0.103	0.152	0.317	0.765	1.217	1.859	1.946	5.905
	Fall	243	0.001	0.031	0.070	0.198	0.409	0.717	1.110	1.337	3.810
Calcium (kg/ha)	Annual	170	0.075	0.362	0.421	0.755	1.187	1.796	2.840	3.331	8.734
	Winter	209	0.006	0.028	0.049	0.079	0.138	0.265	0.453	0.580	1.290
	Spring	229	0.023	0.107	0.133	0.189	0.325	0.501	0.792	0.982	2.022
	Summer	240	0.013	0.066	0.110	0.213	0.401	0.663	1.012	1.243	2.900
	Fall	240	0.008	0.034	0.065	0.119	0.208	0.365	0.629	0.748	4.258

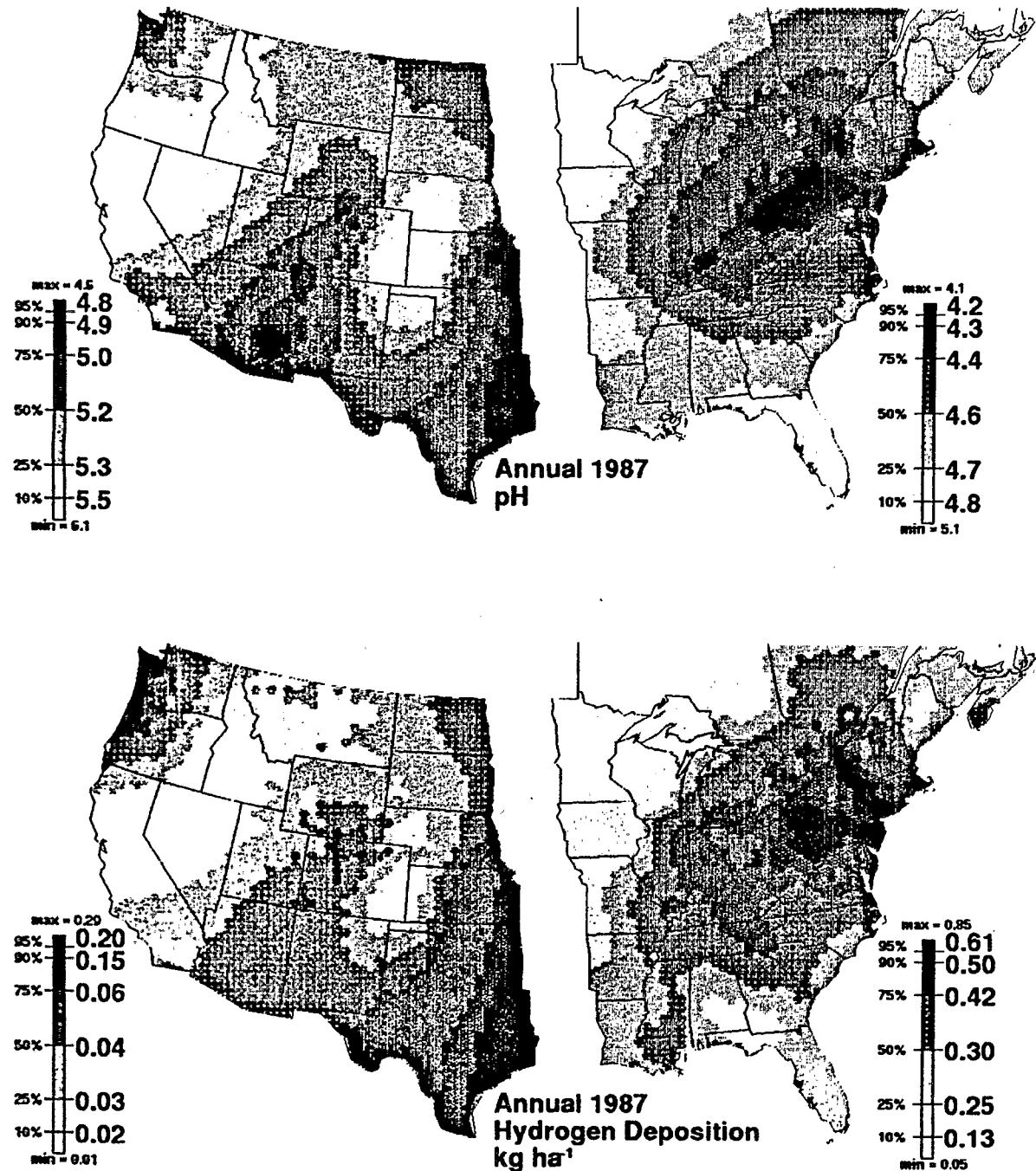


FIGURE 3.2 Annual 1987 spatial distribution of (a) precipitation-weighted pH and (b) hydrogen ion deposition

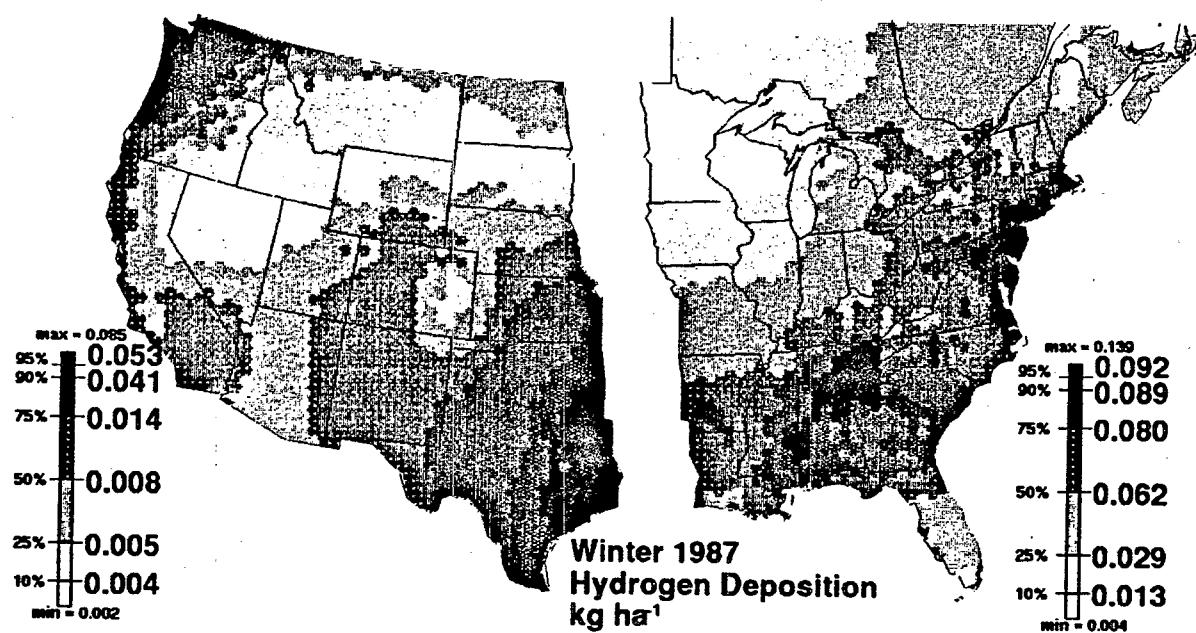
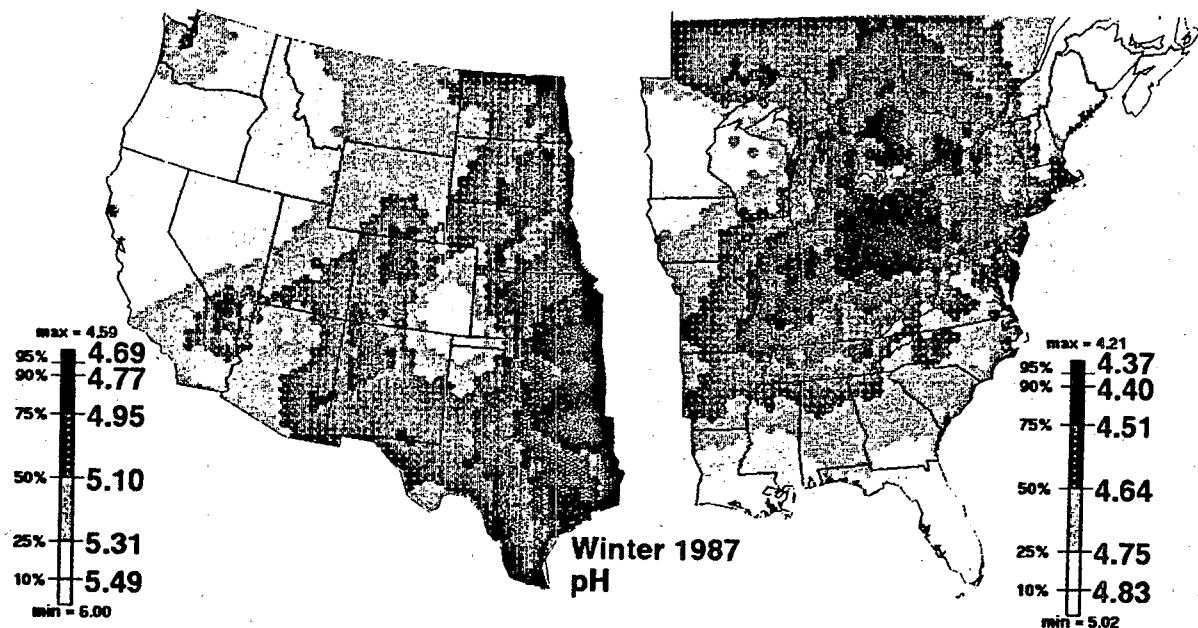


FIGURE 3.3 Winter 1987 spatial distribution of (a) precipitation-weighted pH and (b) hydrogen ion deposition

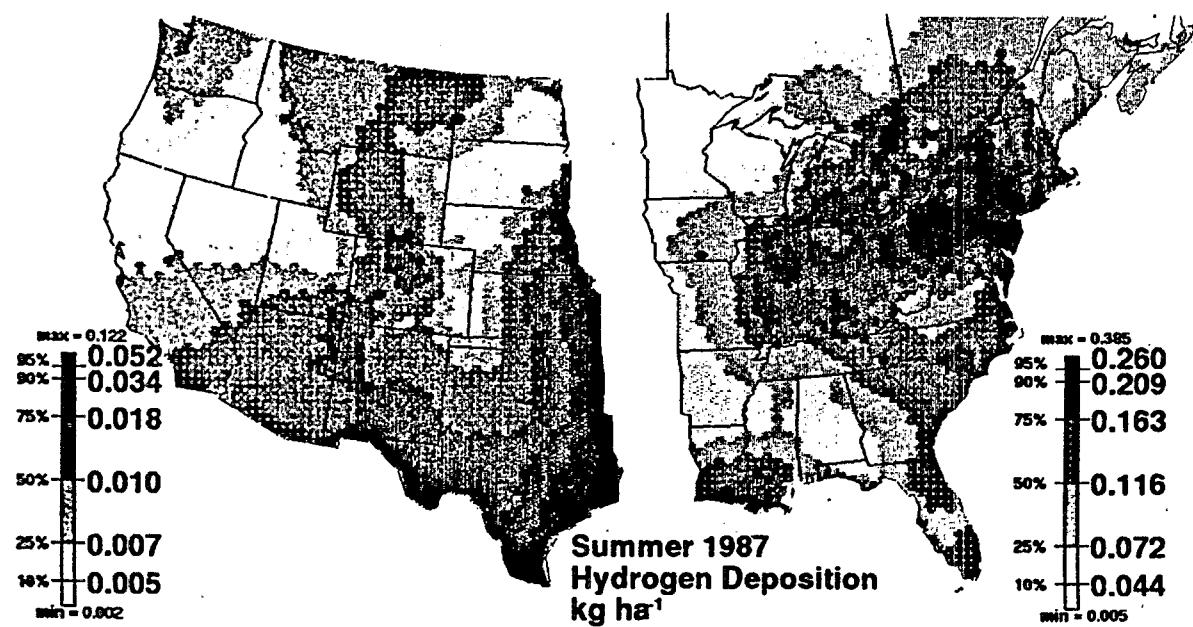
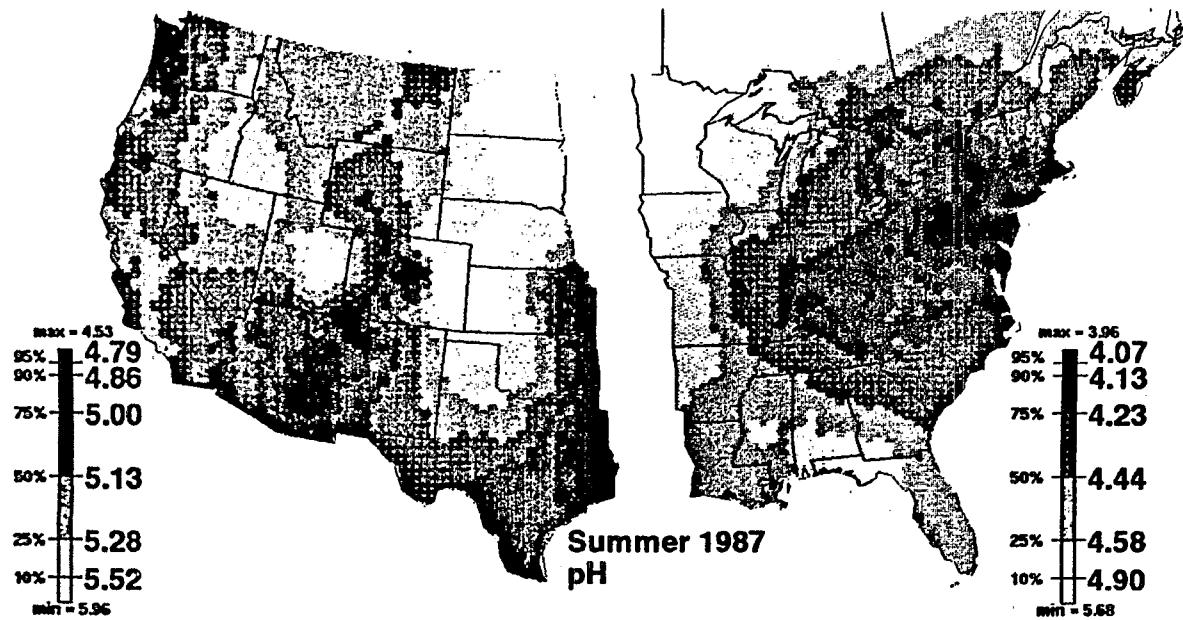


FIGURE 3.4 Summer 1987 spatial distribution of (a) precipitation-weighted pH and (b) hydrogen ion deposition

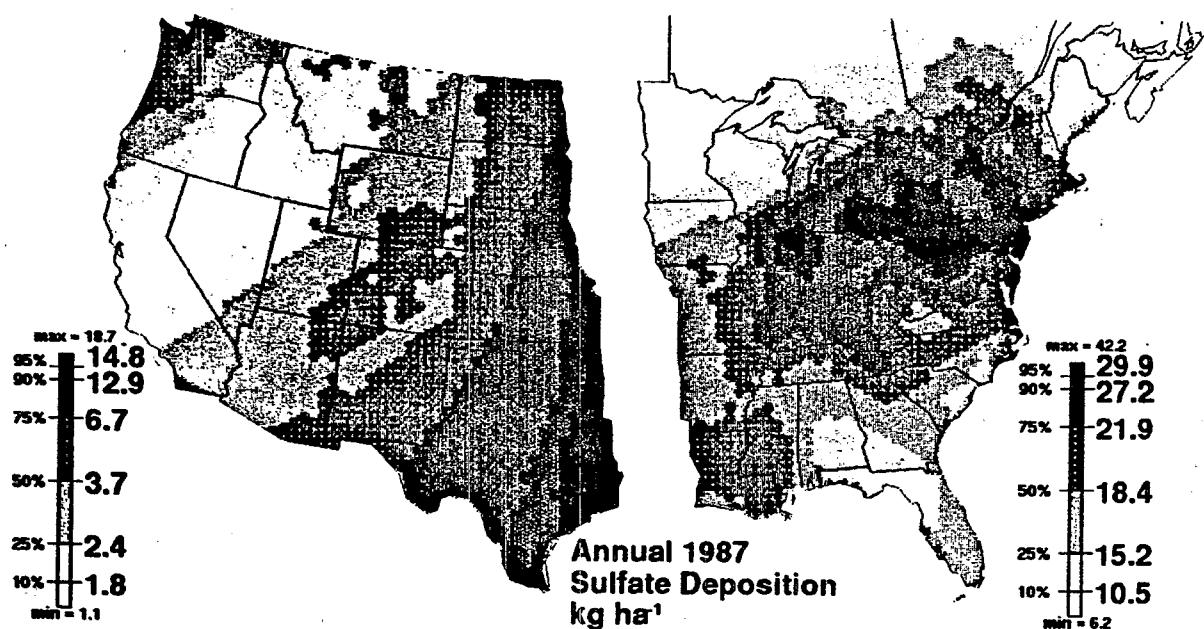
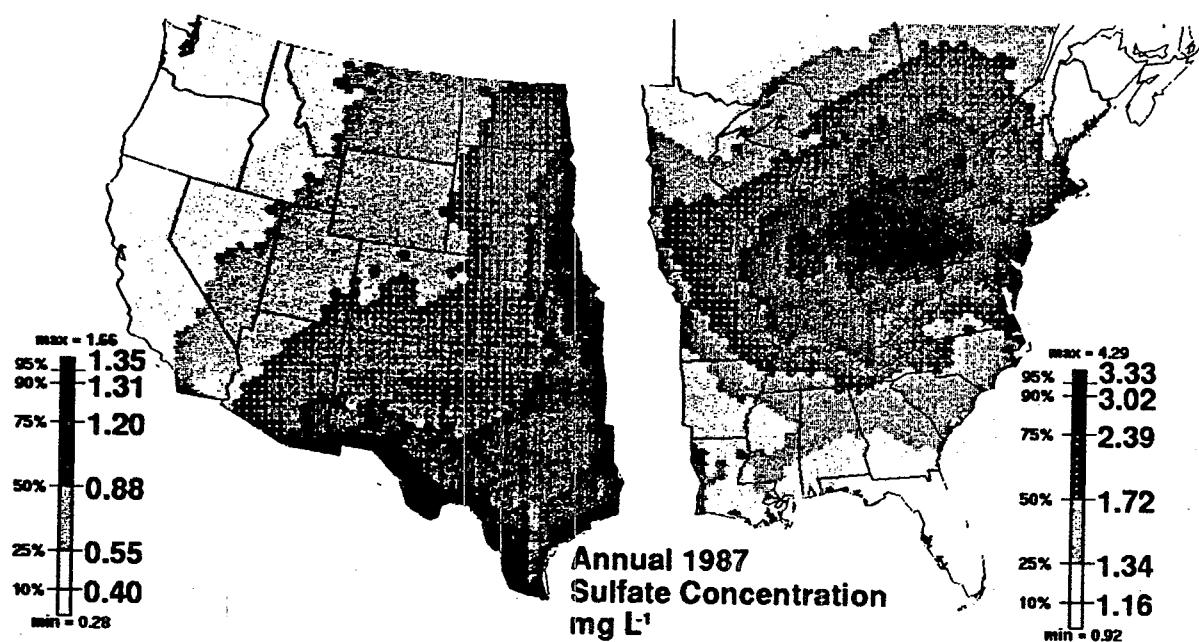


FIGURE 3.5 Annual 1987 spatial distribution of sulfate (a) precipitation-weighted concentration and (b) deposition

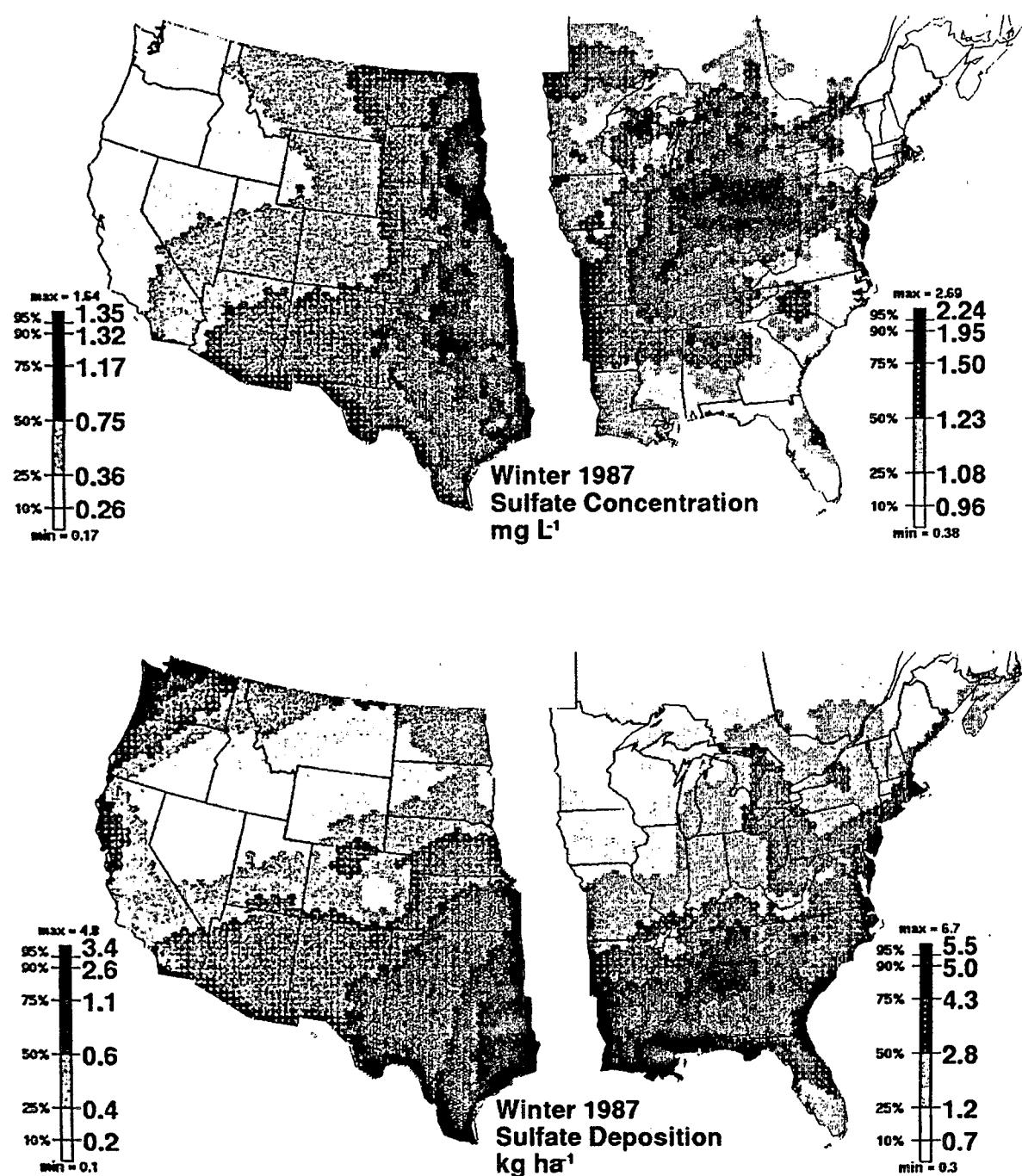


FIGURE 3.6 Winter 1987 spatial distribution of sulfate (a) precipitation-weighted concentration (b) deposition

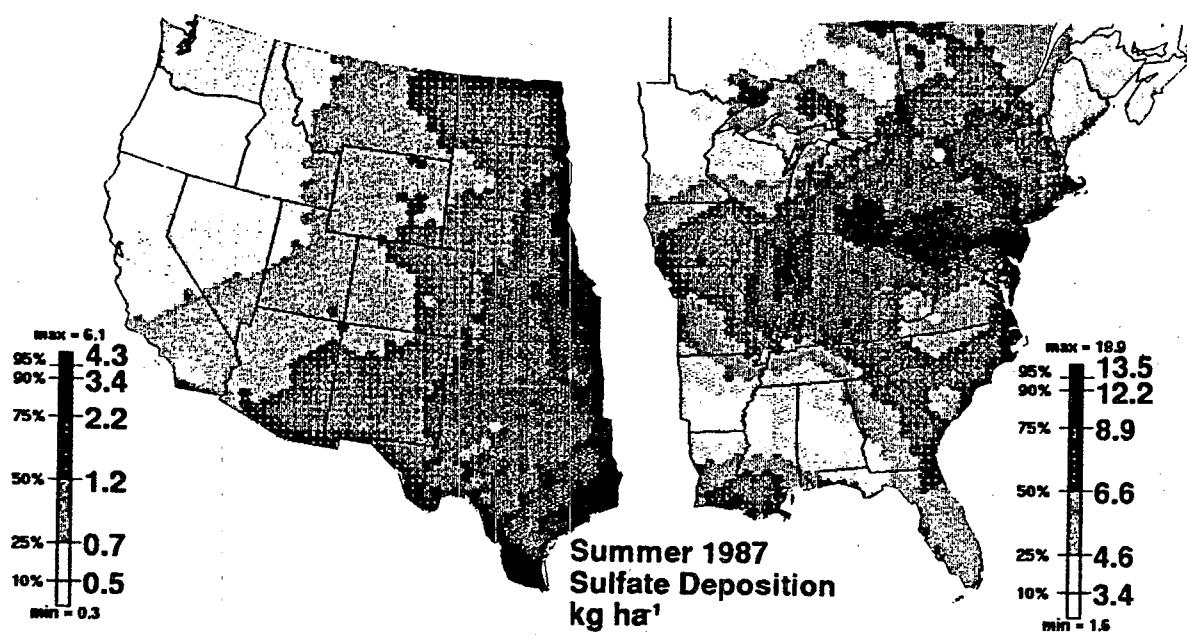
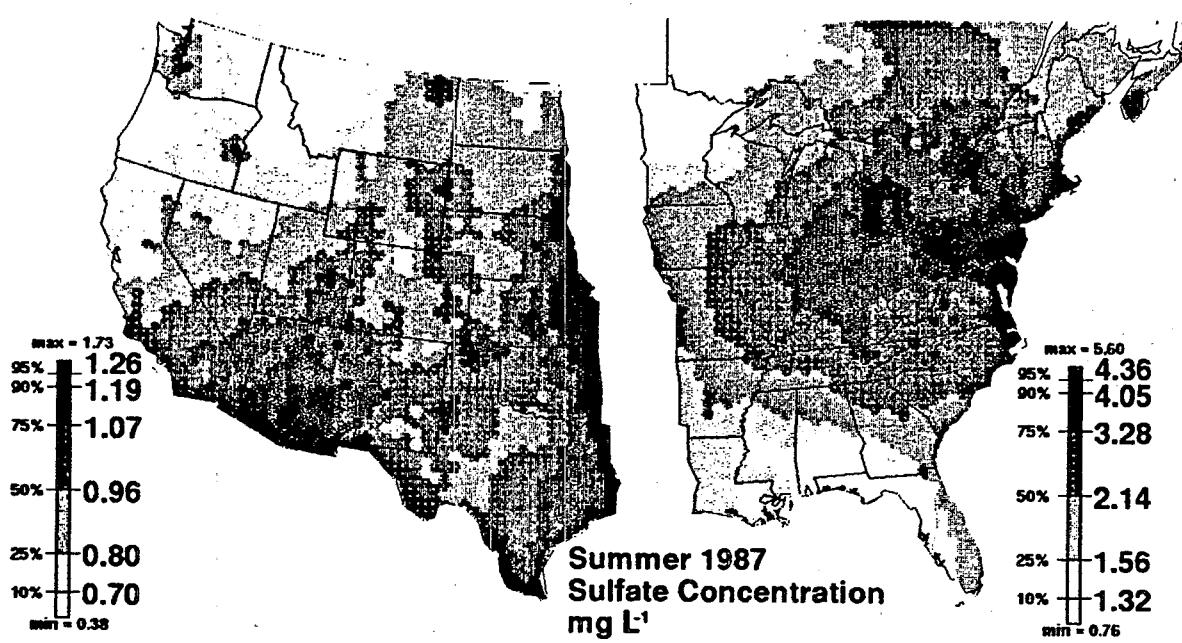


FIGURE 3.7 Summer 1987 spatial distribution of sulfate (a) precipitation-weighted concentration and (b) deposition

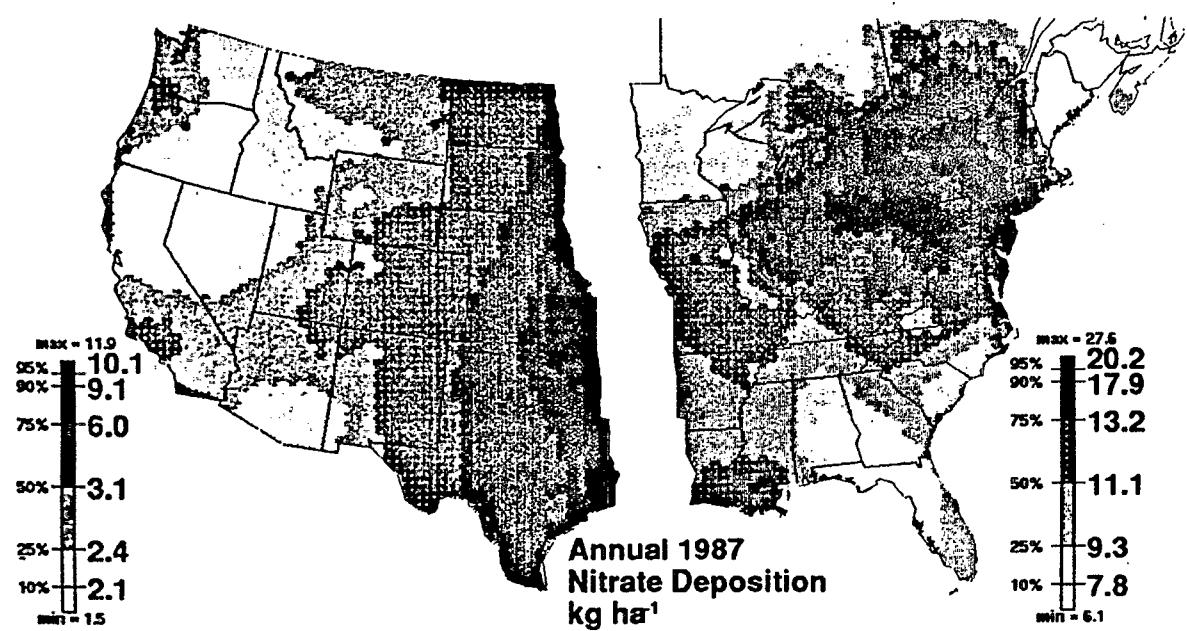
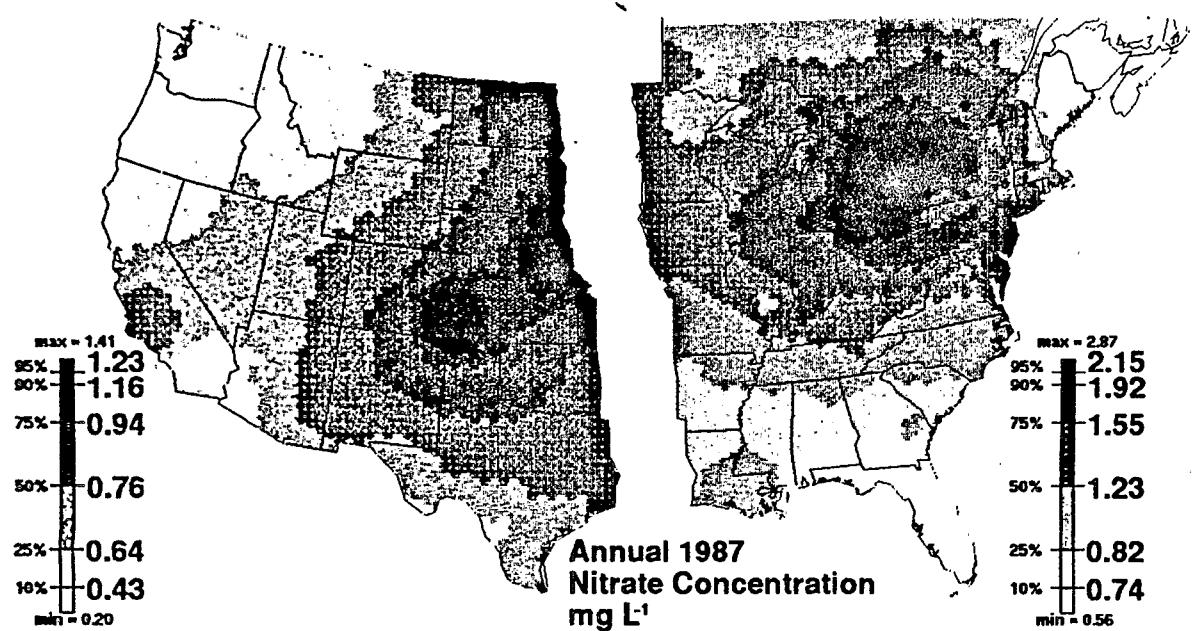


FIGURE 3.8 Annual 1987 spatial distribution of nitrate (a) precipitation-weighted concentration and (b) deposition

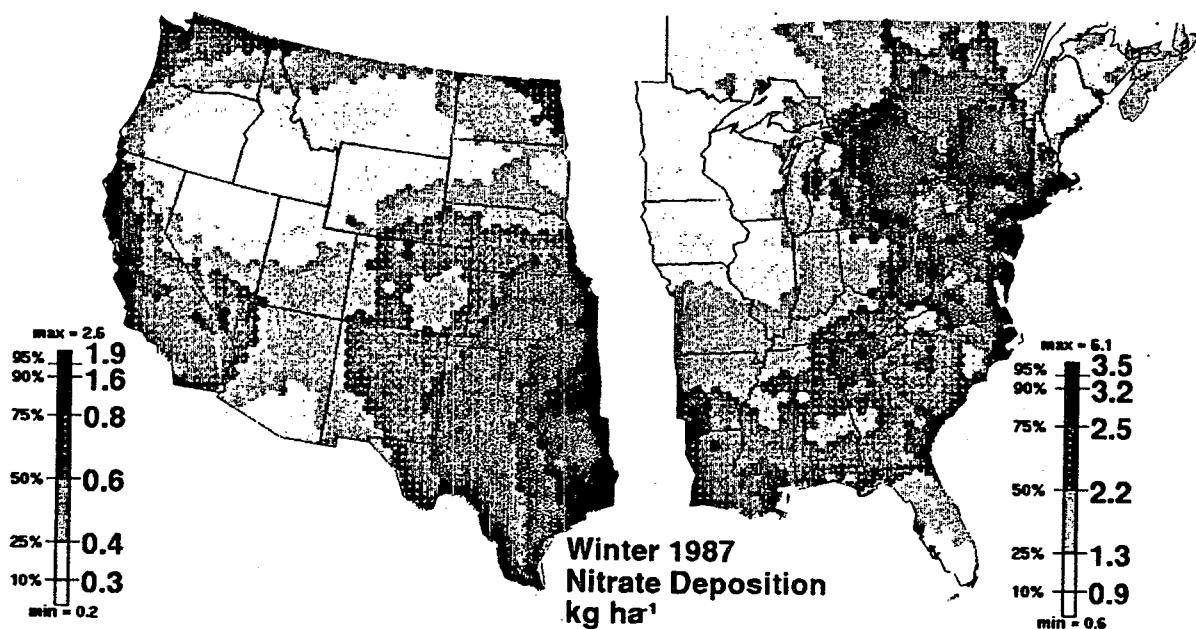
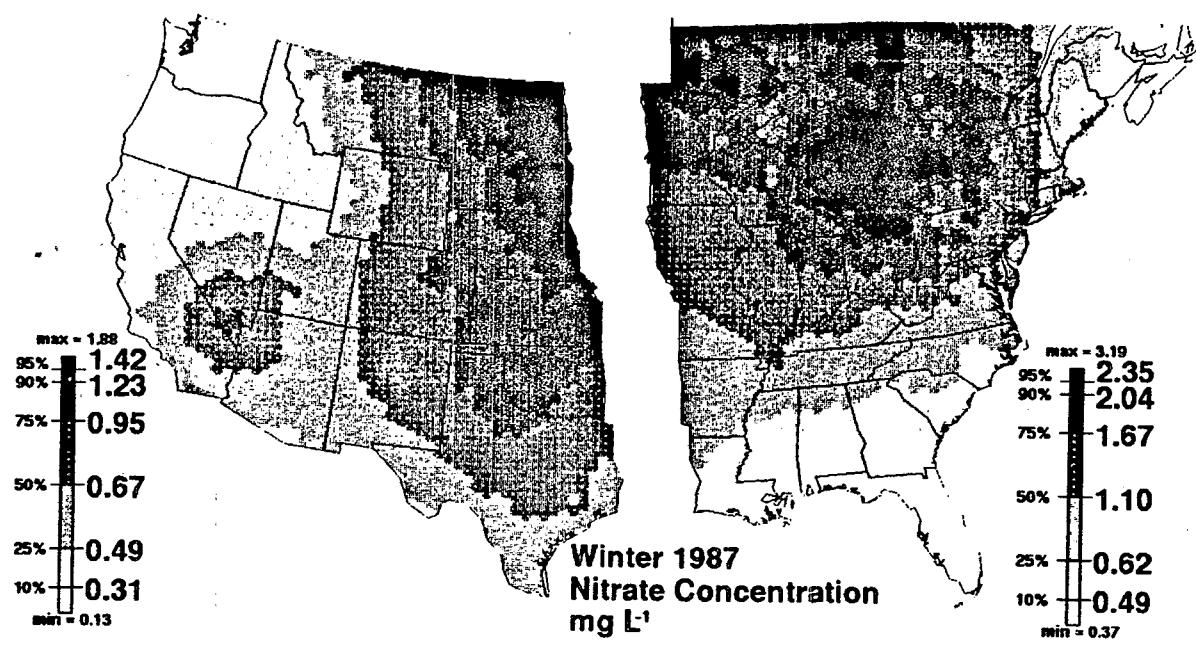


FIGURE 3.9 Winter 1987 spatial distribution of nitrate (a) precipitation-weighted concentration and (b) deposition

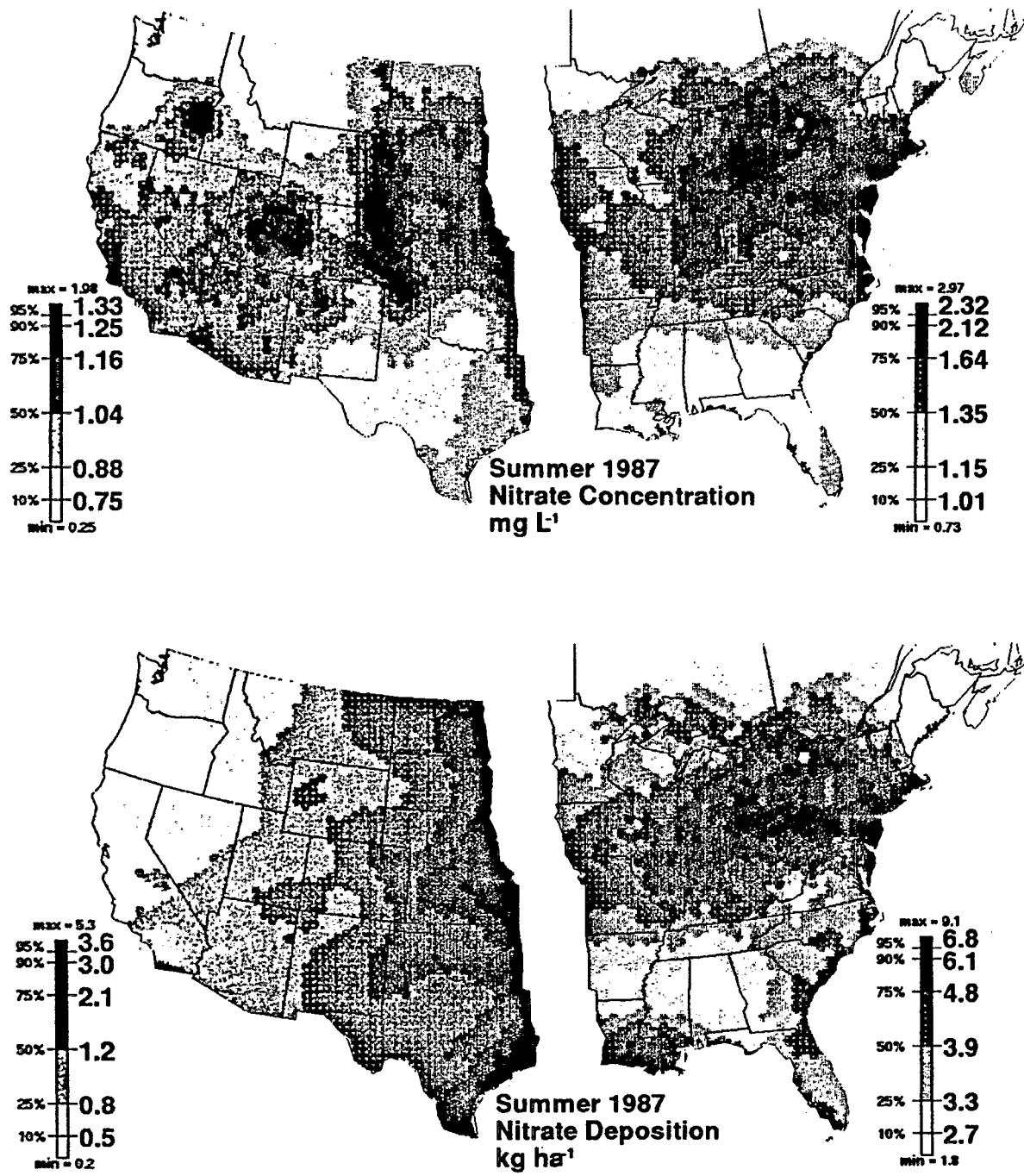


FIGURE 3.10 Summer 1987 spatial distribution of nitrate (a) precipitation-weighted concentration and (b) deposition

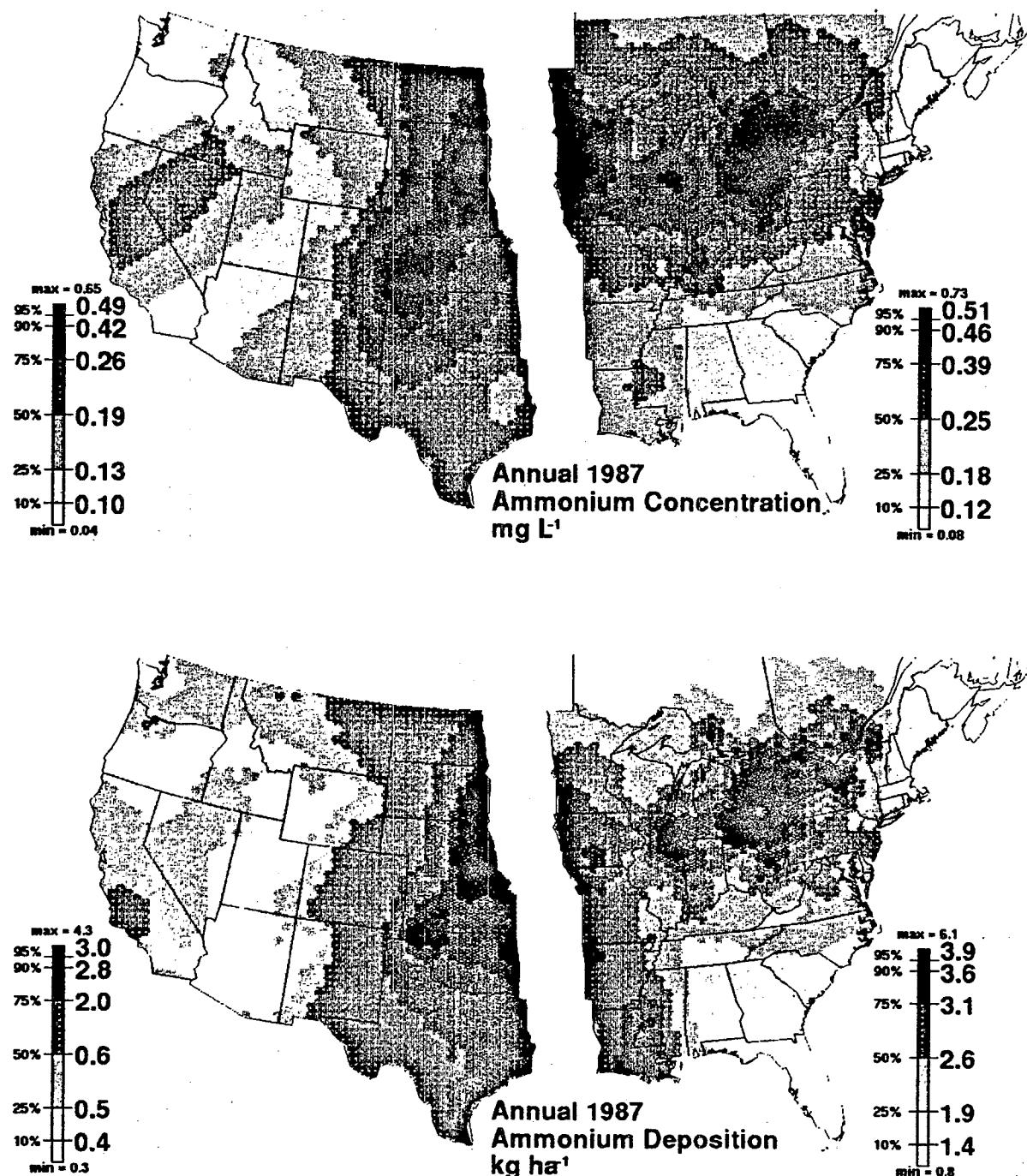


FIGURE 3.11 Annual 1987 spatial distribution of ammonium (a) precipitation-weighted concentration and (b) deposition

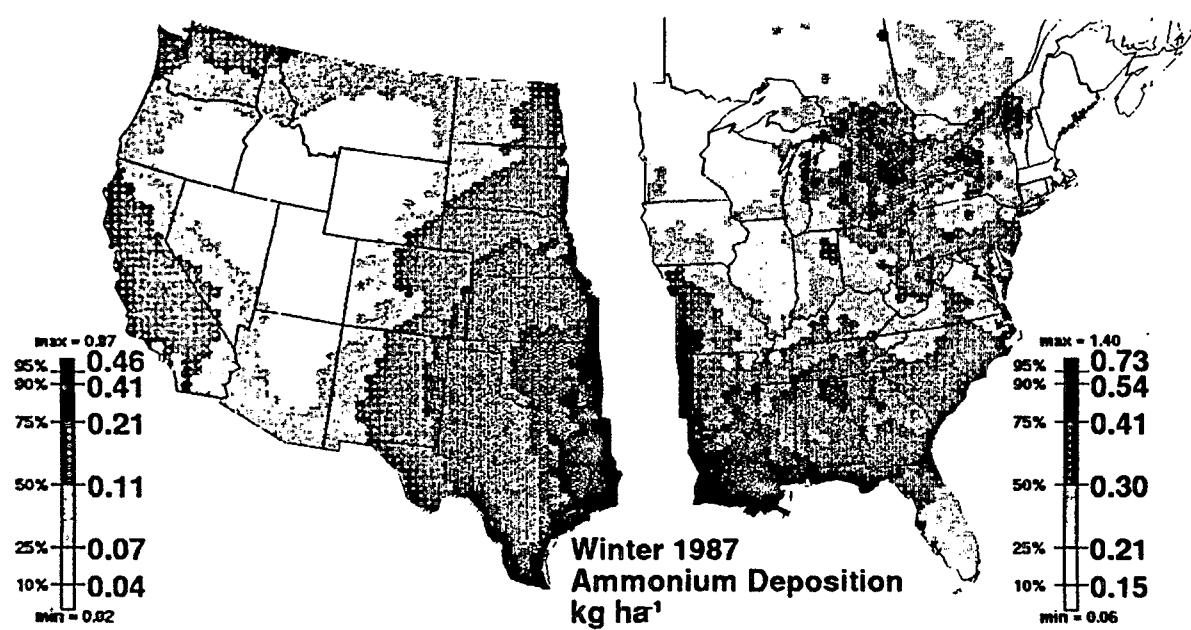
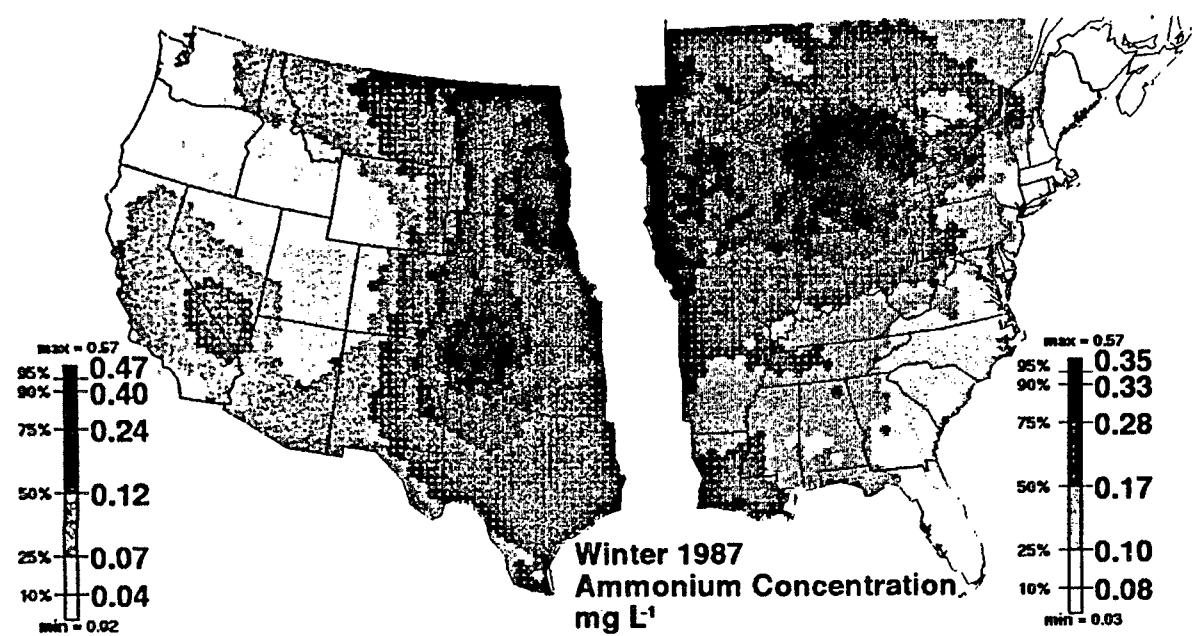


FIGURE 3.12 Winter 1987 spatial distribution of ammonium (a) precipitation-weighted concentration and (b) deposition

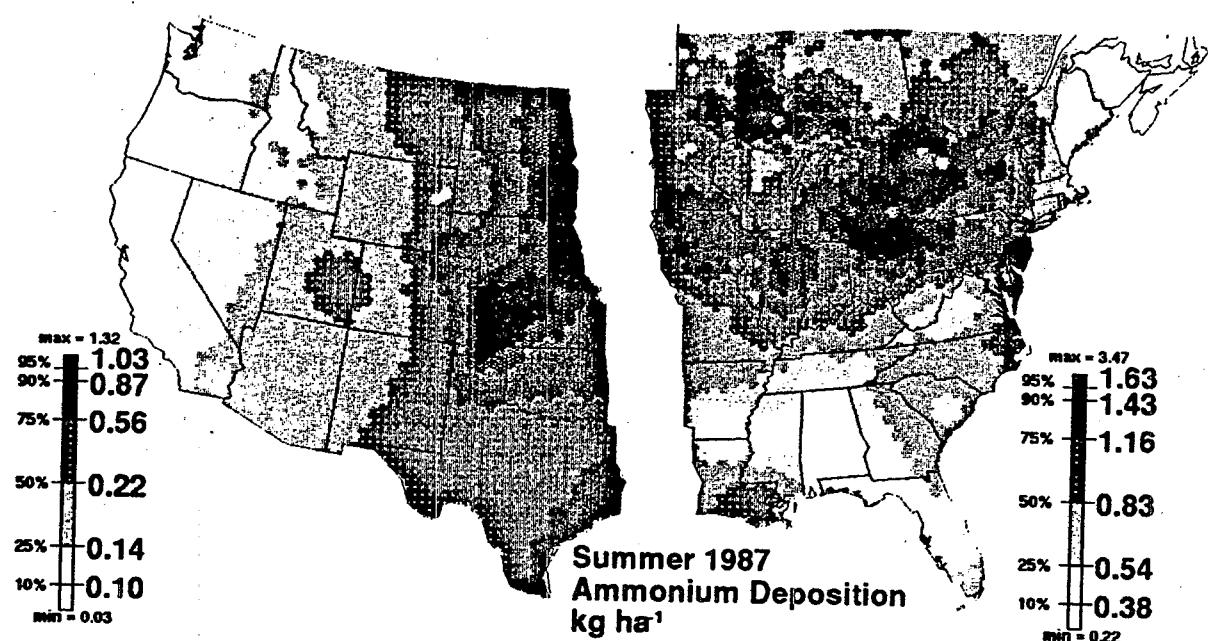
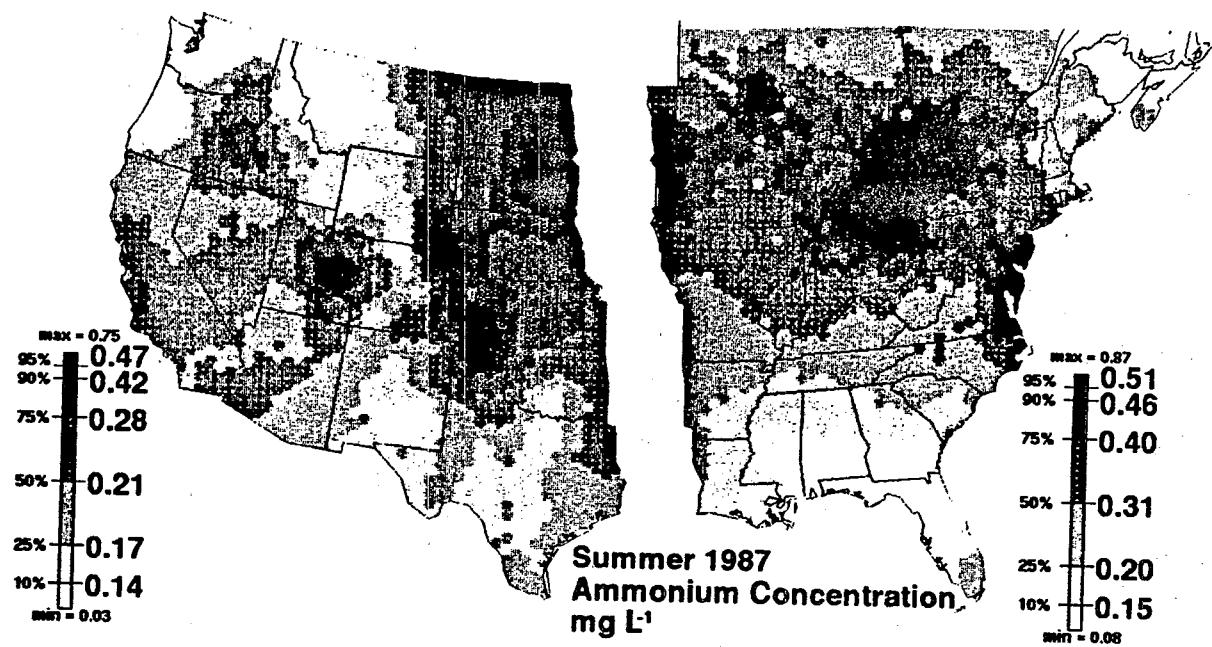


FIGURE 3.13 Summer 1987 spatial distribution of ammonium (a) precipitation-weighted concentration and (b) deposition

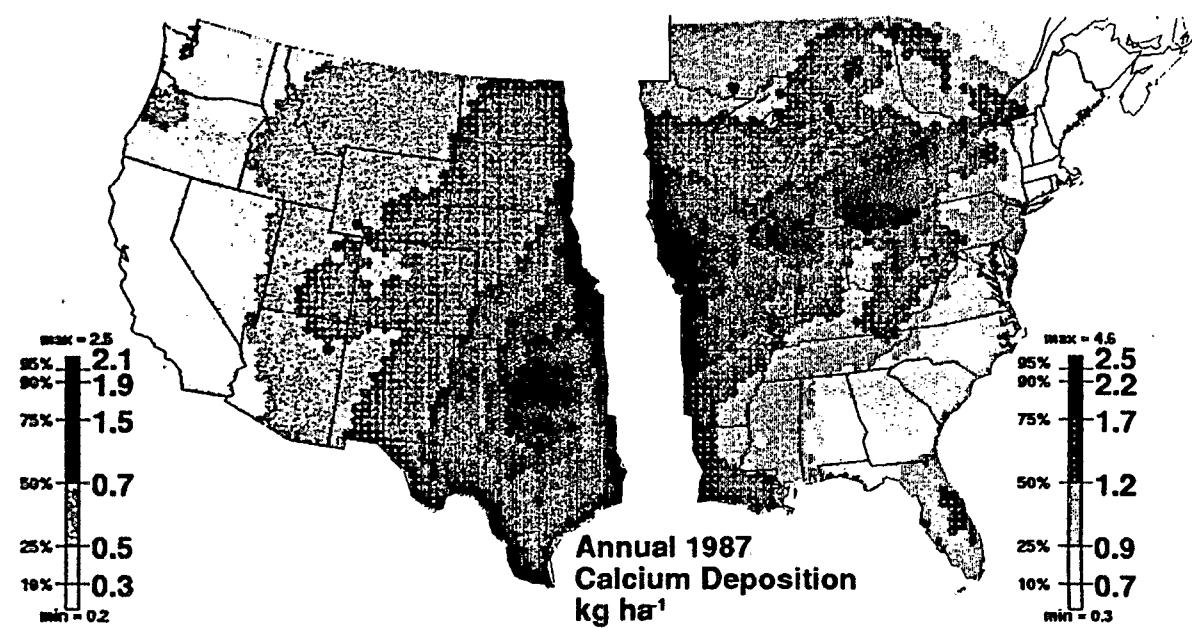
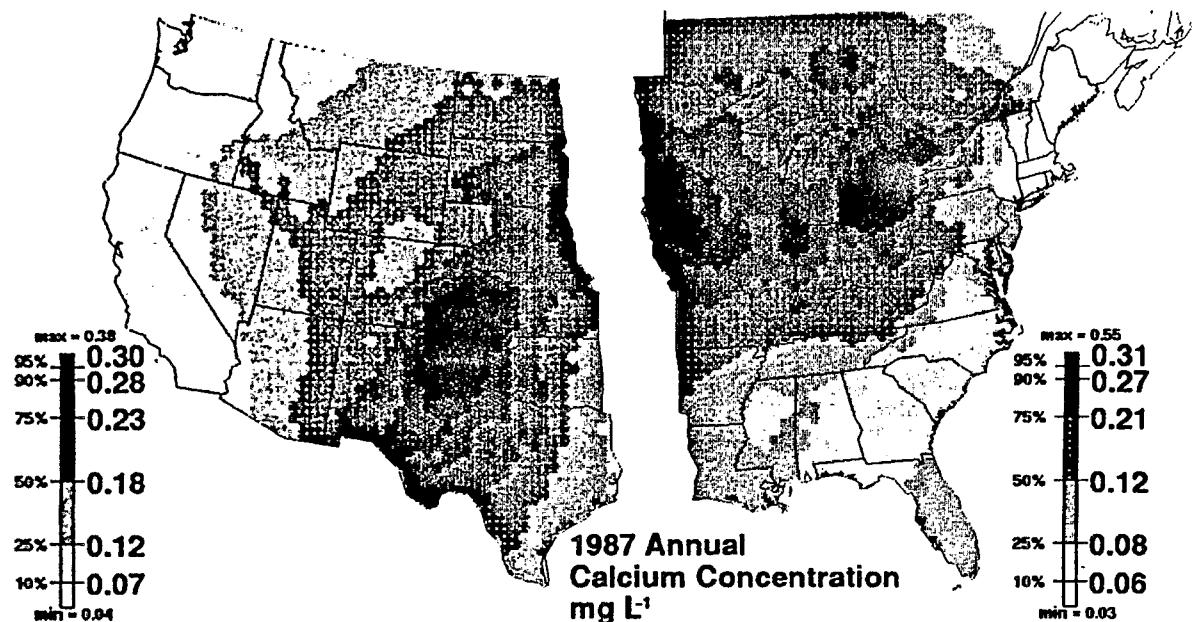


FIGURE 3.14 Annual 1987 spatial distribution of calcium (a) precipitation-weighted concentration and (b) deposition

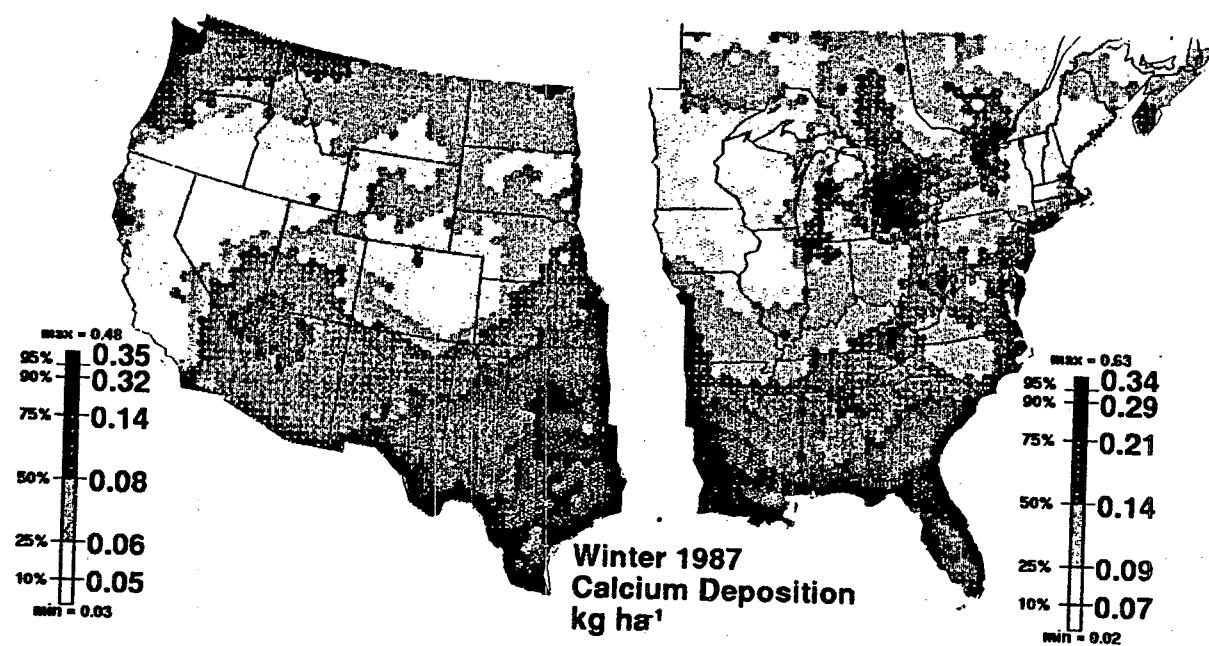
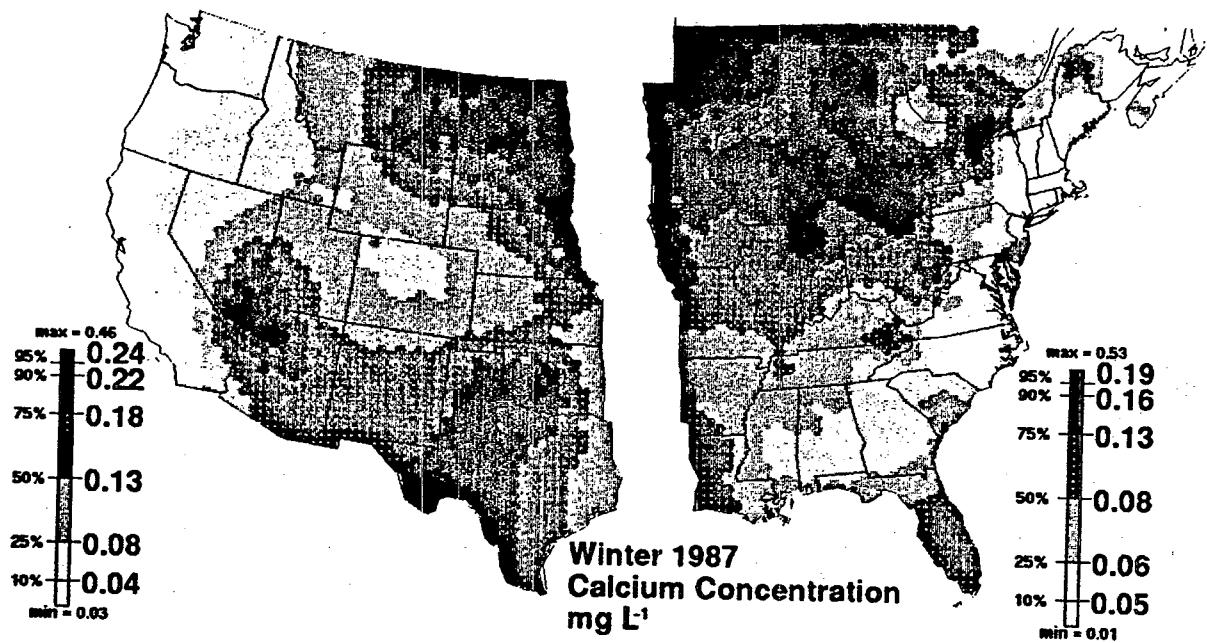


FIGURE 3.15 Winter 1987 spatial distribution of calcium (a) precipitation-weighted concentration and (b) deposition

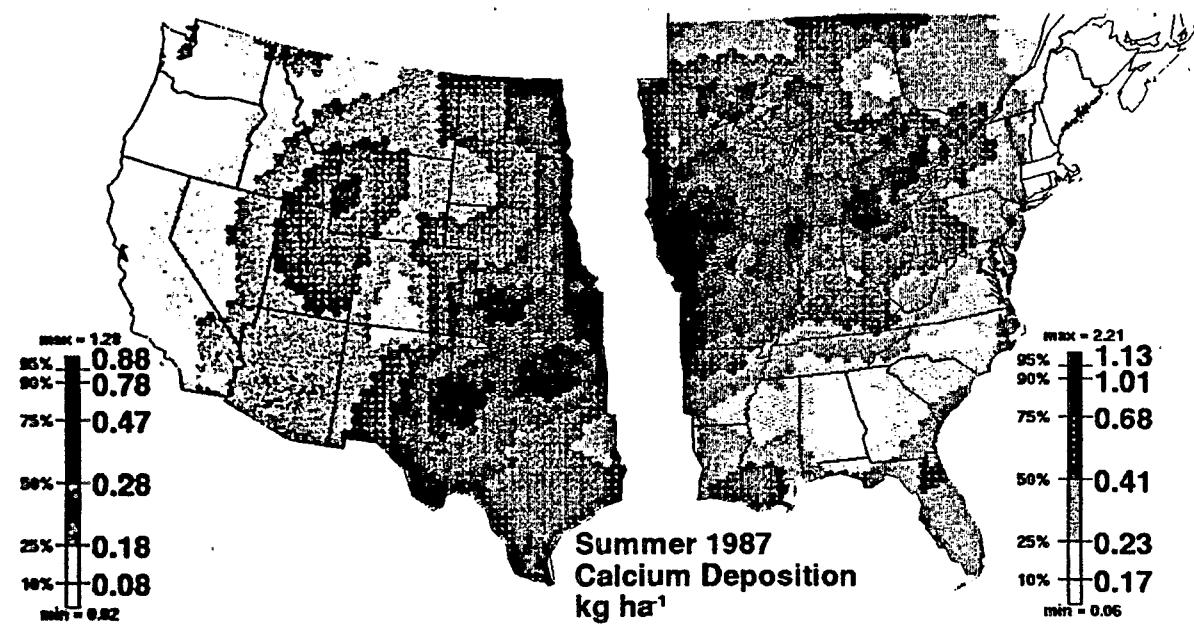
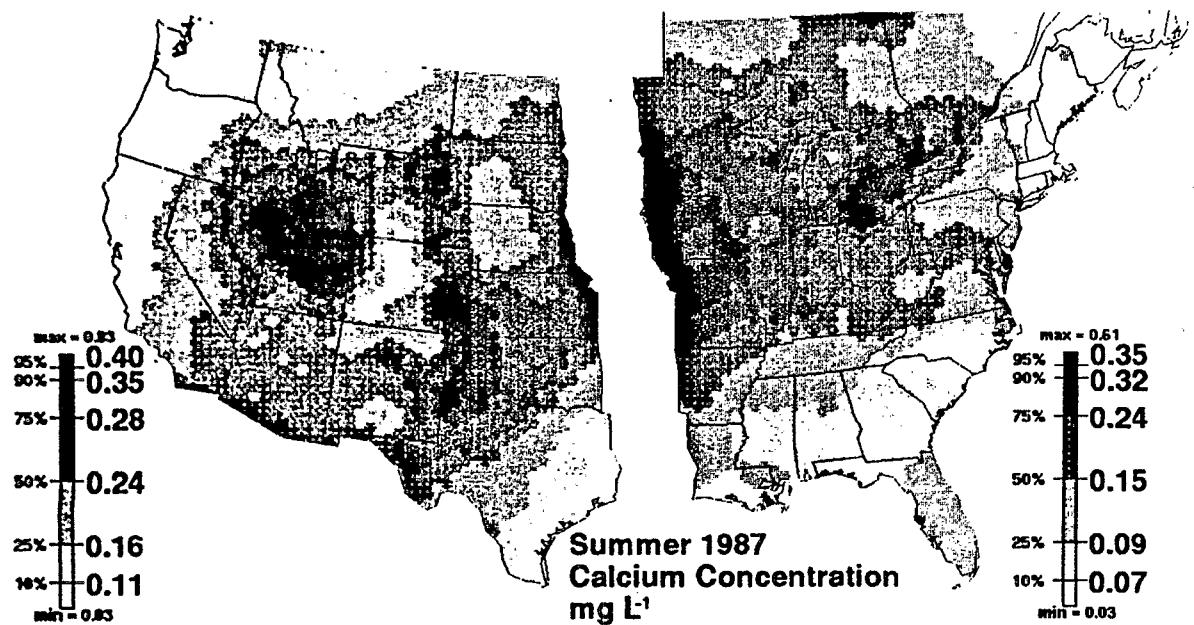


FIGURE 3.16 Summer 1987 spatial distribution of calcium (a) precipitation-weighted concentration and (b) deposition

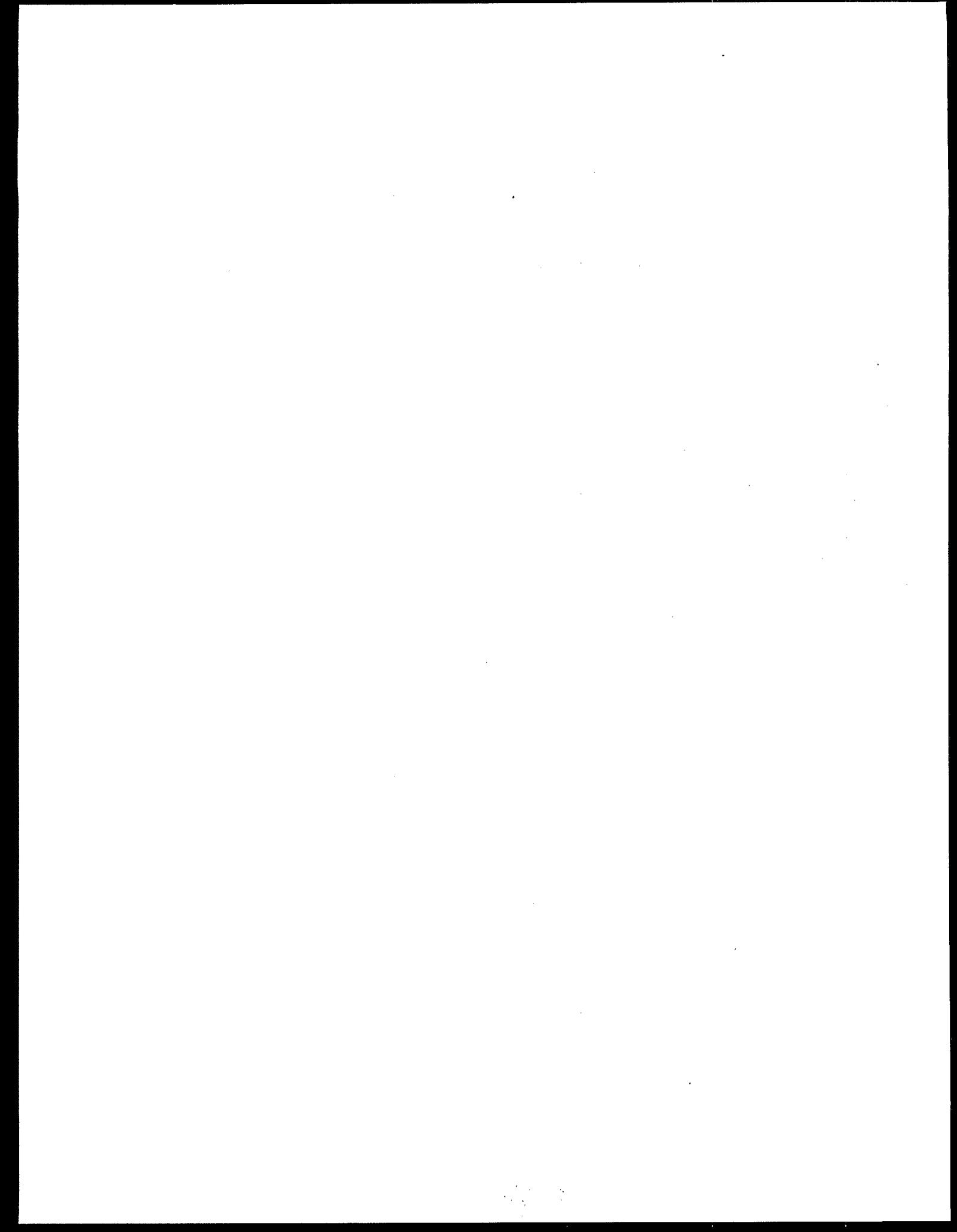
SECTION 4

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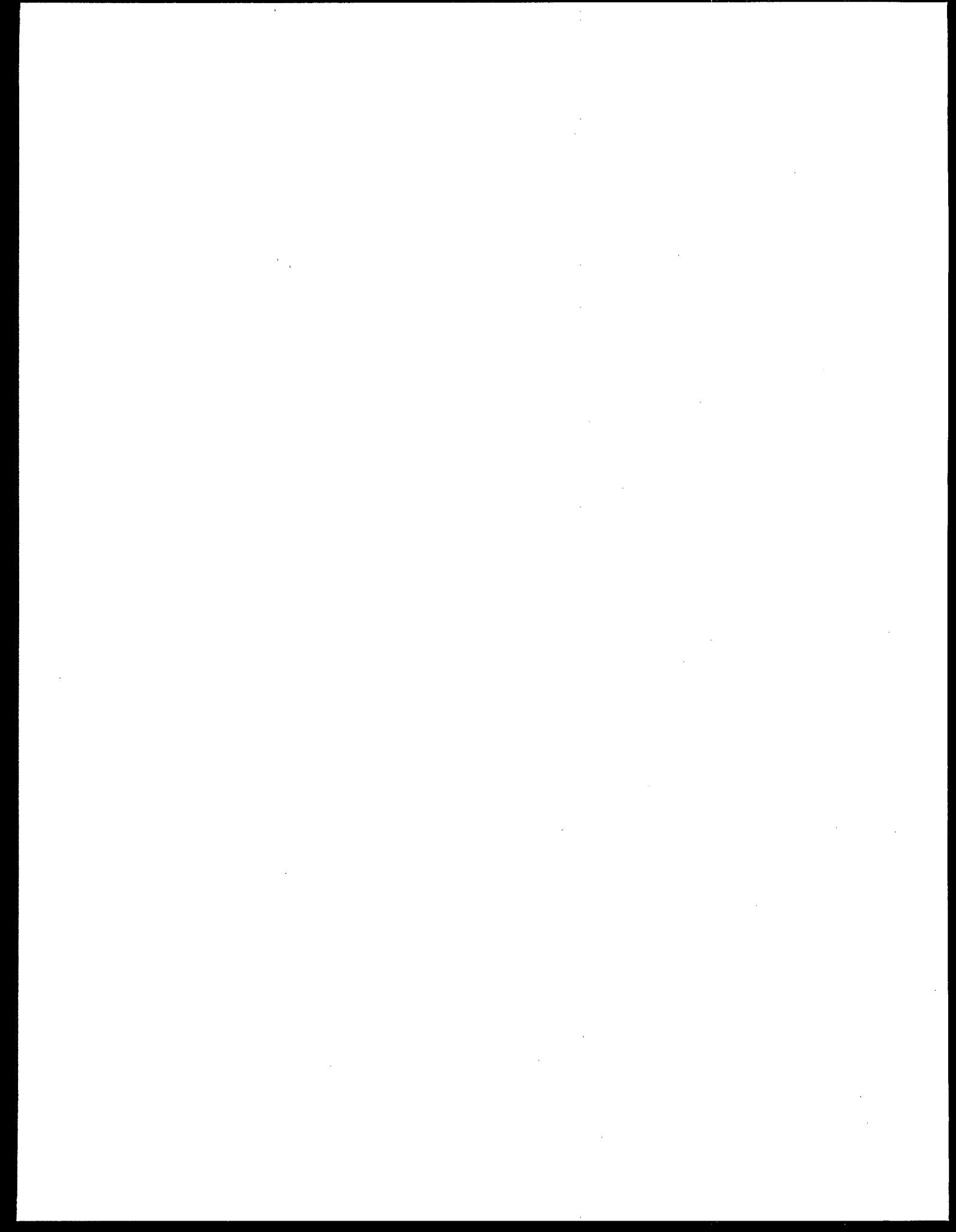
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APPENDIX A

GEOGRAPHIC LOCATION OF SITES OPERATING IN 1987



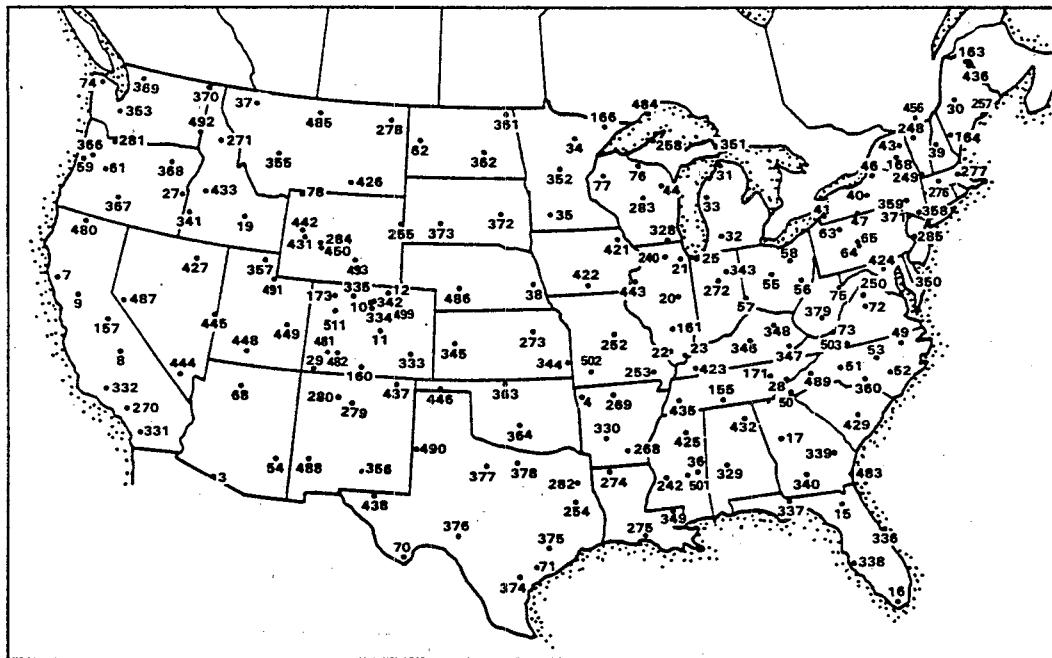


FIGURE A.1. NADP/NTN network sites identified by ADS site code

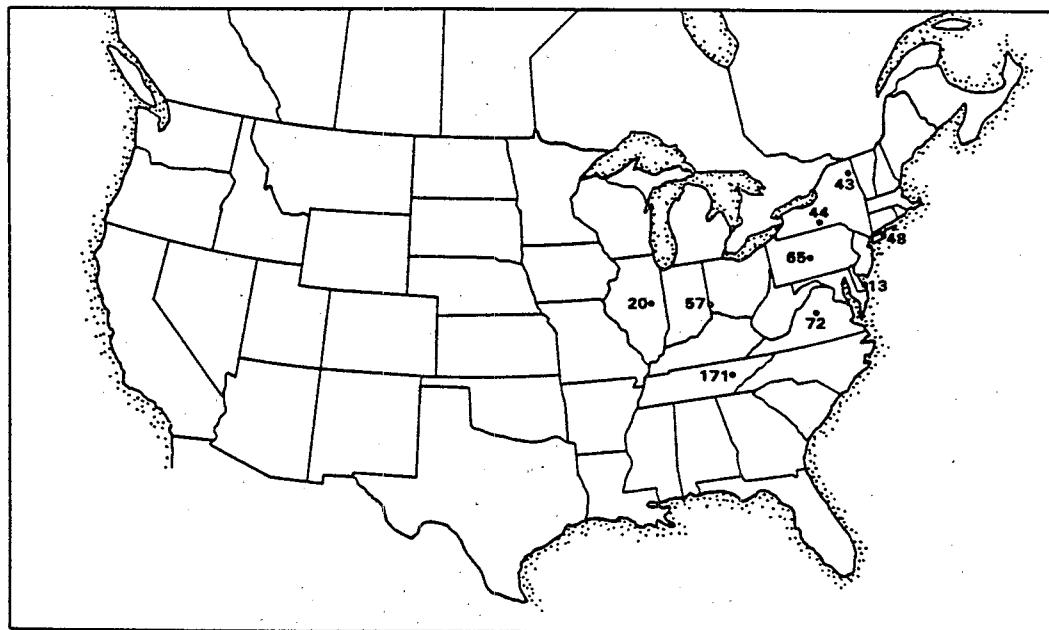


FIGURE A.2. MAP3S/PCN network sites identified by ADS site code

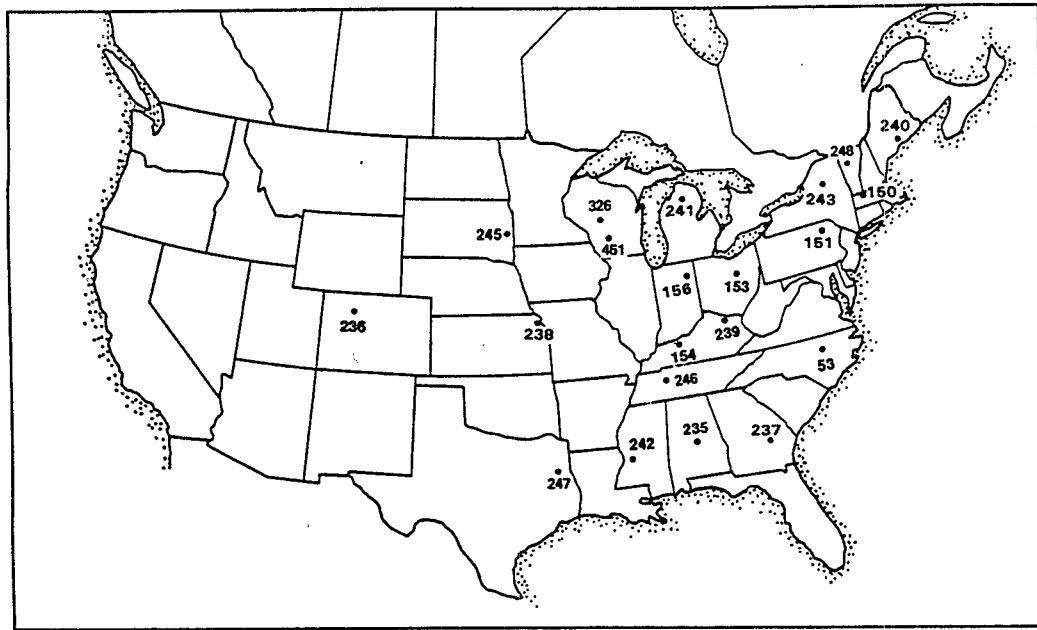


FIGURE A.3. UAPSP network sites identified by ADS site code

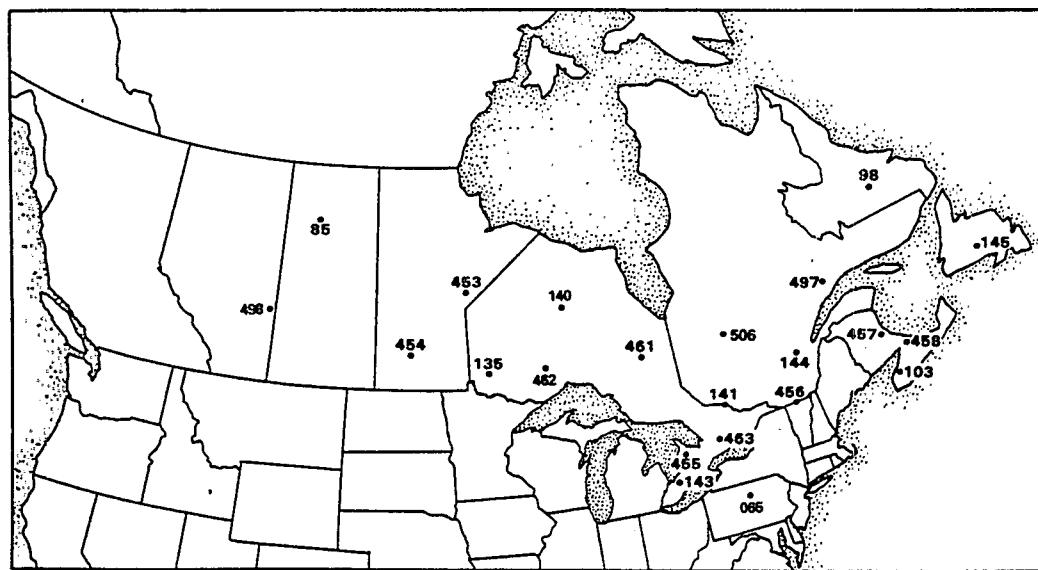


FIGURE A.4. CAPMoN network sites identified by ADS site code

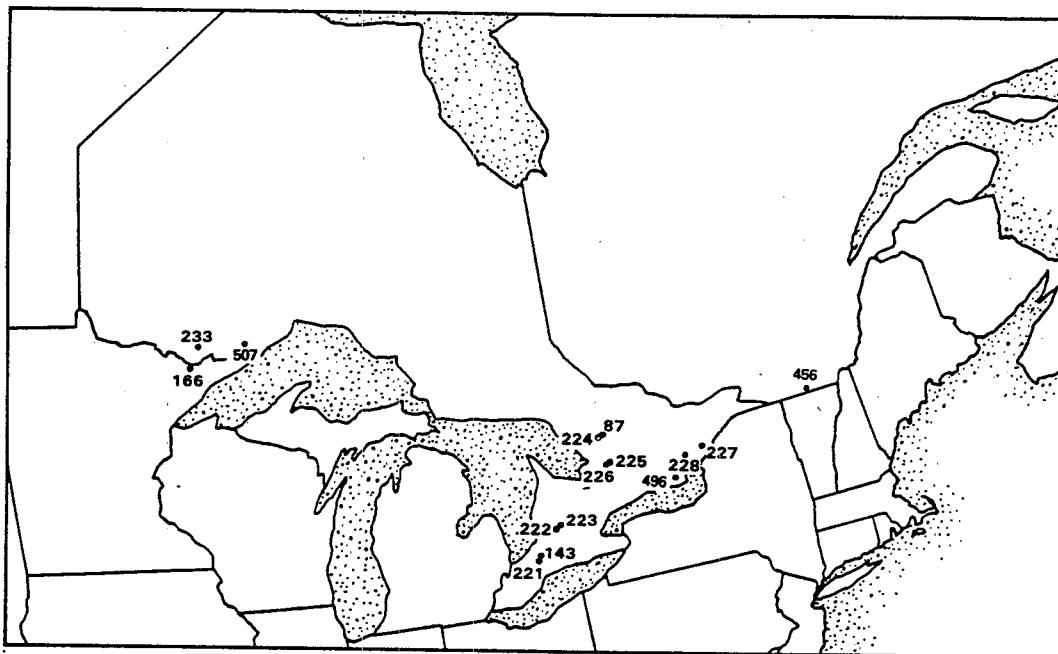


FIGURE A.5. APIOS daily network sites identified by ADS site code

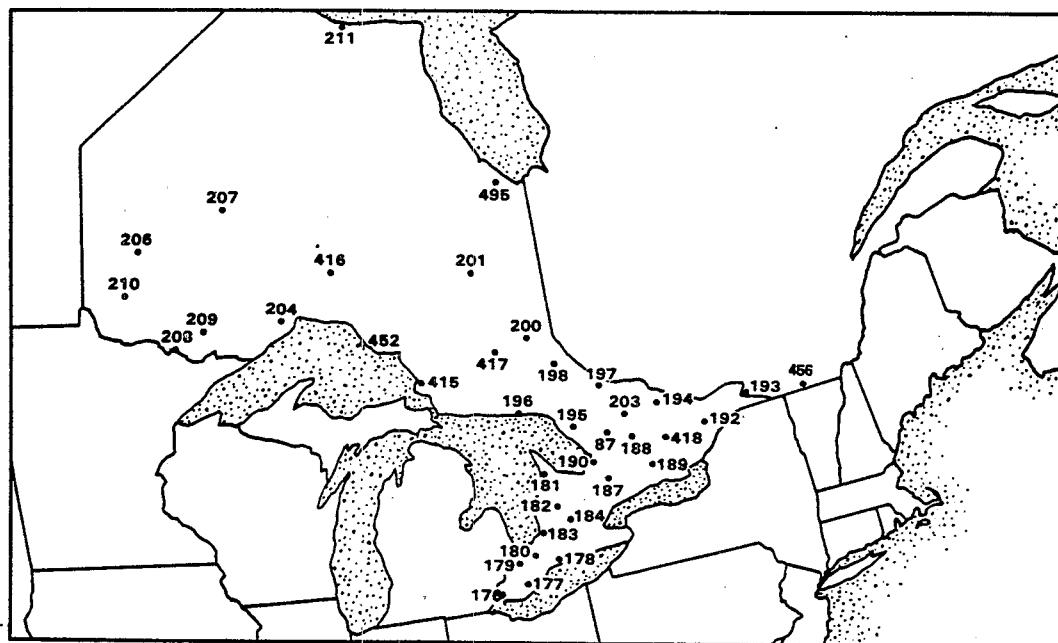
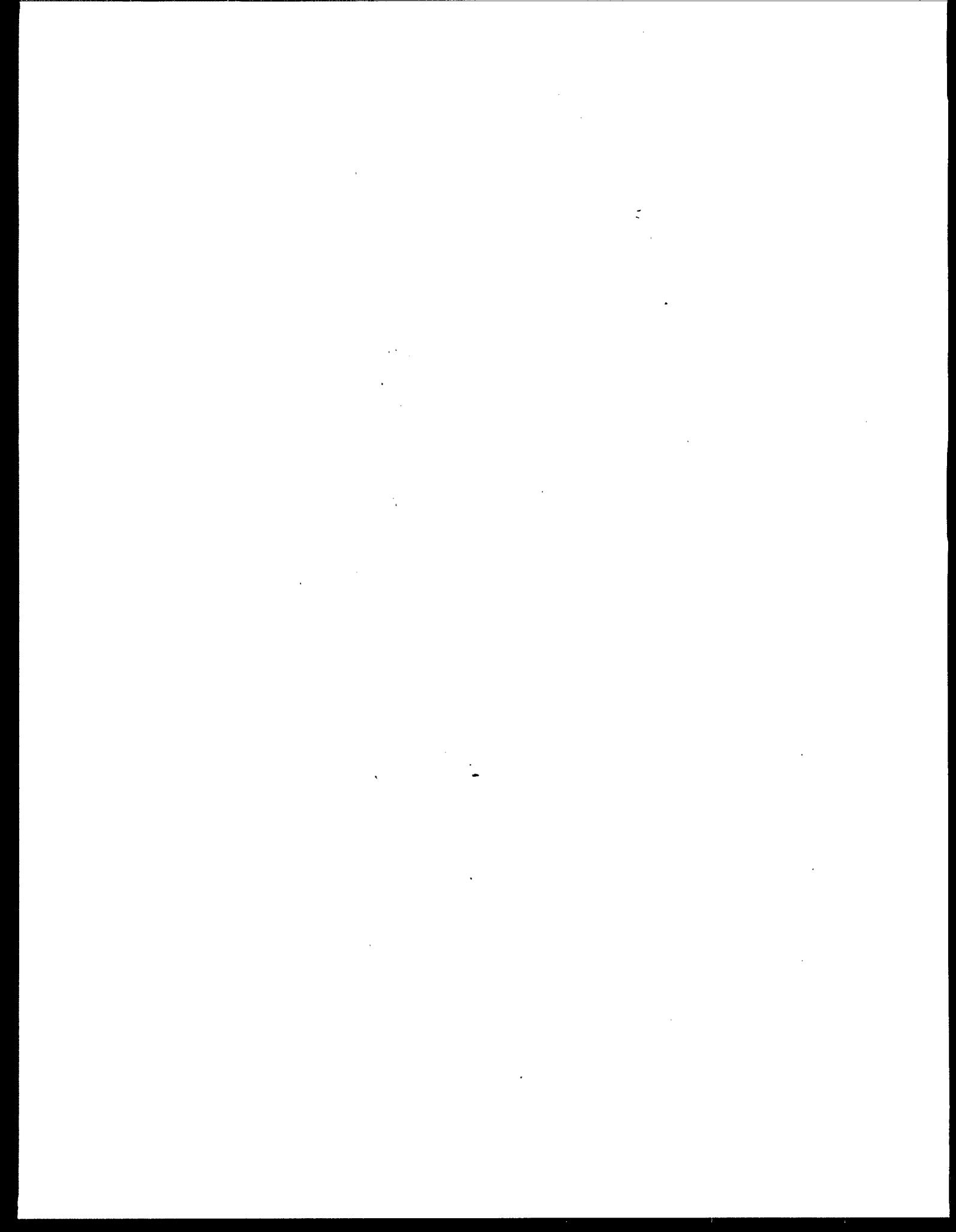


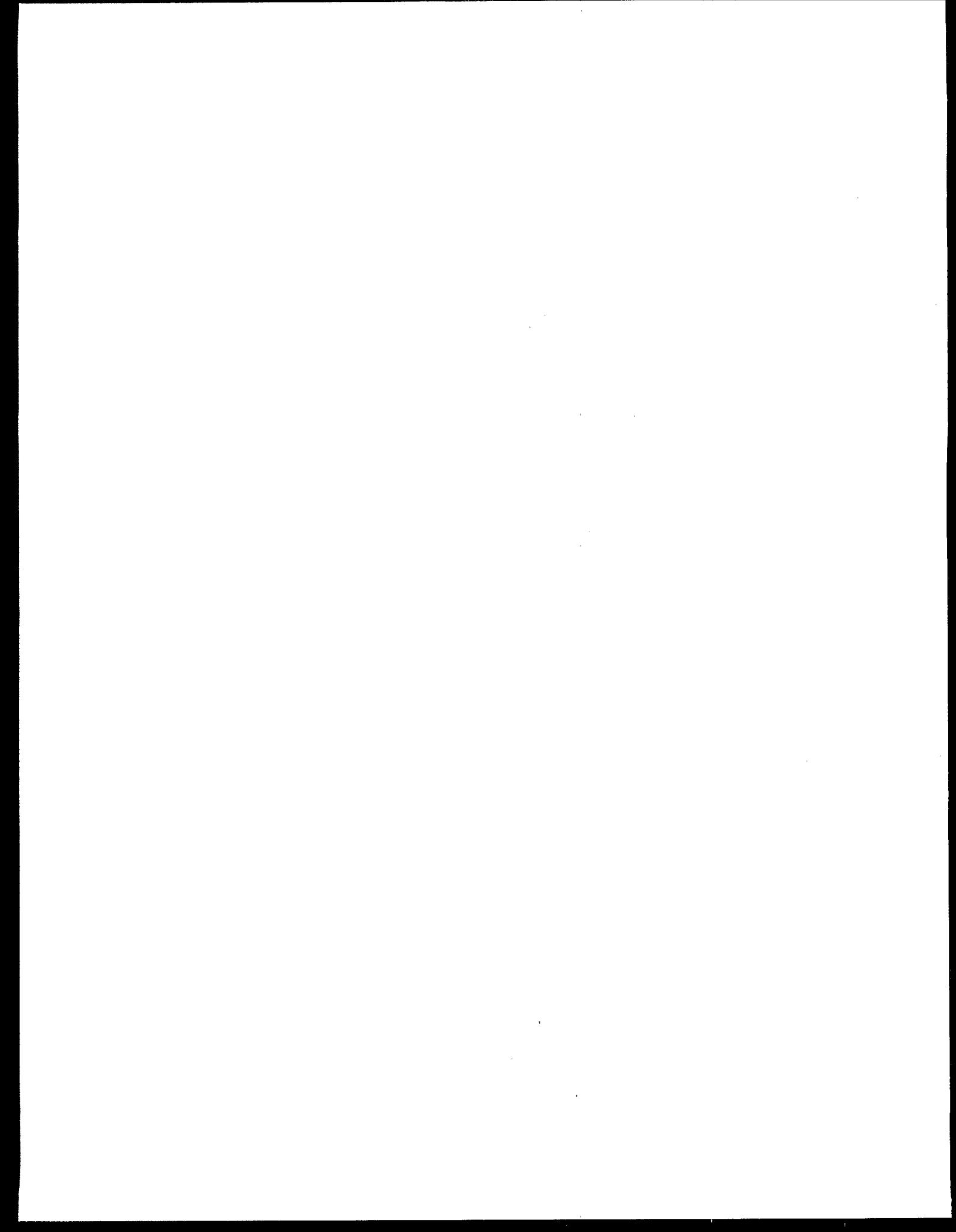
FIGURE A.6. APIOS cumulative network sites identified by ADS site code



APPENDIX B

INVENTORY OF WET DEPOSITION SITES IN ADS

ORDERED BY ADS SITE IDENTIFICATION



Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 1

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
001a	NADP/NTN	020390	Denali Natl Park, Alaska	63 43 25	148 57 50	649	Jun 17, 1980	May 1, 1985		
002a	NADP/NTN	030180	Tombstone, Arizona	31 42 32	110 03 26	1398	Mar 27, 1979	Sep 1, 1981		
003a	NADP/NTN	030620	Organ Pipe Mon., Arizona	31 57 02	112 48 00	506	Apr 15, 1980	Sep 1, 1981		
004a	NADP/NTN	042700	Fayetteville, Arkansas	36 06 02	94 10 24	391	May 13, 1980	May 1, 1985		
006a	NADP/NTN	053460	Bishop, California	37 22 15	118 21 59	1252	Apr 15, 1980	Jun 22, 1982		
007a	NADP/NTN	054540	Hopland (Ukiah), California	39 00 17	123 05 05	253	Oct 3, 1979	May 1, 1985		
008a	NADP/NTN	057550	Sequoia Nat. Park, California	36 34 03	118 46 37	1902	Jul 8, 1980	Jul 28, 1984		
009a	NADP/NTN	058840	Davis, California	38 32 07	121 46 30	18	Sep 4, 1978	May 1, 1985		
010a	NADP/NTN	061910	Rocky Mt. Nat Park, Colorado	40 21 51	105 33 37	2369	May 29, 1980	Oct 18, 1983		
011a	NADP/NTN	062120	Manitou, Colorado	39 06 04	105 05 31	2362	Oct 17, 1978	May 1, 1985		
012a	NADP/NTN	062220	Pawnee, Colorado	40 48 23	104 45 17	1641	May 22, 1979	Apr 22, 1980		
014a	NADP/NTN	100020	Austin-Cary Forest, Florida	29 45 37	82 11 56	46	Oct 10, 1978	Jul 14, 1981		
015a	NADP/NTN	100360	Bradford Forest, Florida	29 58 29	82 11 53	44	Oct 10, 1978	Feb 28, 1984		
016a	NADP/NTN	101190	Everglades Nat. Pa, Florida	25 23 24	80 40 48	2	Jun 17, 1980	May 1, 1985		
017a	NADP/NTN	114140	Georgia Station, Georgia	33 10 40	84 24 22	270	Oct 3, 1978	May 1, 1985		
018a	NADP/NTN	120080	Mauna Loa, Hawaii	19 32 21	155 34 45	3399	Jun 10, 1980	May 1, 1985		
019a	NADP/NTN	130340	Craters of Moon, Idaho	43 27 41	113 33 17	1807	Aug 22, 1980	May 1, 1985		
020a	NADP/NTN	141160	Bondville, Illinois	40 03 12	88 22 19	212	Feb 27, 1979	May 1, 1985		
020b	NADP/NTN	141161	Bondville intercom, Illinois	40 03 12	88 22 19	212	Sep 20, 1983	Nov 27, 1984		
021a	NADP/NTN	141980	Argonne, Illinois	41 42 04	87 59 43	229	Mar 11, 1980	May 25, 1980		
022a	NADP/NTN	143580	Southern Ill U, Illinois	37 42 36	89 16 08	146	Jul 31, 1979	May 1, 1985		
023a	NADP/NTN	146340	Dixon Springs, Illinois	37 26 08	88 40 19	161	Jan 30, 1979	May 1, 1985		
024a	NADP/NTN	141800	Shabbona, Illinois	41 50 29	88 51 04	265	May 26, 1981	May 1, 1985		
025a	NADP/NTN	153420	Indiana Dunes, Indiana	41 37 57	87 05 16	208	Jul 15, 1980	Mar 17, 1981		
026a	NADP/NTN	232570	Isle Royal Park, Michigan	47 54 43	89 09 10	209	Aug 12, 1980	Oct 22, 1984		
027a	NADP/NTN	381120	Vines Hill, Oregon	43 53 58	117 25 37	904	Jul 15, 1980	May 1, 1985		
028a	NADP/NTN	441190	Great Smoky Mts, Tennessee	35 39 52	83 35 25	640	Aug 12, 1980	May 1, 1985		
029a	NADP/NTN	061530	Mesa Verde, Colorado	37 11 56	108 29 25	2172	Apr 28, 1981	May 1, 1985		
030a	NADP/NTN	200935	Greenville Station, Maine	45 29 23	69 39 52	322	Nov 20, 1979	Jul 15, 1980		
031a	NADP/NTN	230920	Douglas Lake, Michigan	45 33 39	84 40 42	238	Jul 3, 1979	May 1, 1985		
032a	NADP/NTN	232660	Kellogg, Michigan	42 24 37	85 23 34	288	Jun 26, 1979	May 1, 1985		
033a	NADP/NTN	235340	Wellston, Michigan	44 13 26	85 49 05	292	Oct 10, 1978	Sep 27, 1983		
034a	NADP/NTN	241660	Marcell, Minnesota	47 31 52	93 28 07	431	Jul 6, 1978	Jul 9, 1984		
035a	NADP/NTN	242720	Lamberton, Minnesota	44 14 14	95 18 02	343	Jan 2, 1979	May 1, 1985		
036a	NADP/NTN	251460	Meridian, Mississippi	32 20 04	88 44 42	89	Apr 15, 1980	May 1, 1985		
037a	NADP/NTN	270570	Glacier Nat'l Park, Montana	48 30 37	113 59 45	968	Jun 3, 1980	May 1, 1985		
038a	NADP/NTN	281520	Mead, Nebraska	41 09 11	96 29 34	352	Jul 25, 1978	Sep 1, 1983		
039a	NADP/NTN	300240	Hubbard Brook, New Hampshire	43 56 35	71 42 12	250	Jul 25, 1978	May 1, 1985		
040a	NADP/NTN	330860	Aurora, New York	42 44 02	76 39 35	249	Apr 17, 1979	May 1, 1985		
041a	NADP/NTN	331000	Chautauqua, New York	42 17 58	79 23 47	488	Jun 10, 1980	May 1, 1985		
042a	NADP/NTN	331220	Knobbit, New York	42 22 42	73 30 10	406	Jan 2, 1980	May 1, 1985		
043a	NADP/NTN	332021	Whiteface, New York	44 23 36	73 51 34	610	Jul 3, 1984	May 1, 1985		
045a	NADP/NTN	335140	Stilwell Lake, New York	41 21 00	74 02 22	186	Jun 26, 1979	Oct 2, 1984		
046a	NADP/NTN	335240	Bennett Bridge, New York	43 31 34	75 56 50	245	Jun 10, 1980	May 1, 1985		
047a	NADP/NTN	336500	Jasper, New York	42 06 23	77 32 09	634	Feb 19, 1980	May 1, 1985		
049a	NADP/NTN	340320	Lewiston, North Carolina	36 07 57	77 10 17	22	Oct 31, 1978	Aug 7, 1984		
050a	NADP/NTN	342500	Coweeeta, North Carolina	35 03 38	83 25 50	686	Jul 5, 1978	Sep 17, 1984		
051a	NADP/NTN	343460	Piedmont Station, North Carolina	35 41 49	80 37 21	219	Oct 17, 1978	Aug 7, 1984		
052a	NADP/NTN	343560	Clinton Station, North Carolina	35 01 33	78 16 42	41	Oct 24, 1978	Jul 31, 1984		
053a	NADP/NTN	344160	Finley (A), North Carolina	35 43 42	78 40 49	120	Oct 3, 1978	Apr 21, 1981		
053b	NADP/NTN	344161	Finley (B), North Carolina	35 43 42	78 40 46	116	Oct 3, 1978	Apr 1, 1980		
054a	NADP/NTN	030360	Oliver Knoll, Arizona	33 04 17	109 51 53	1173	Aug 25, 1981	May 1, 1985		
055a	NADP/NTN	361760	Delaware, Ohio	40 21 19	83 03 58	285	Oct 3, 1978	May 1, 1985		
056a	NADP/NTN	364900	Caldwell, Ohio	39 47 34	81 31 52	276	Sep 26, 1978	May 1, 1985		
057a	NADP/NTN	360900	Oxford, Ohio	39 31 53	84 43 27	284	Aug 14, 1984	May 1, 1985		
058a	NADP/NTN	367160	Wooster, Ohio	40 46 56	81 55 12	308	Sep 26, 1978	May 1, 1985		
059a	NADP/NTN	380200	Alsea, Oregon	44 23 13	123 37 23	84	Dec 27, 1979	May 1, 1985		
060a	NADP/NTN	380201	Schmidt Farm, Oregon	44 37 35	123 12 50	69	Dec 26, 1979	Apr 26, 1980		

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 2

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
061a	NADP/NIN	381020	H.J. Andrews, Oregon	44 12 48	122 15 12	436	May 13, 1980	Jun 15, 1984		
062a	NADP/NIN	350700	Teddy Roosevelt NE, North Dakota	47 36 05	103 15 51	611	May 5, 1981	Aug 27, 1983		
063a	NADP/NIN	392940	Kane, Pennsylvania	41 35 52	78 46 03	618	Jul 18, 1978	May 1, 1985		
064a	NADP/NIN	394200	Leading Ridge, Pennsylvania	40 39 27	77 56 23	287	Apr 25, 1979	May 1, 1985		
065a	NADP/NIN	391520	Penn State, Pennsylvania	40 47 18	77 56 47	393	Jun 7, 1983	May 1, 1985		
065b	NADP/NIN	391521	Penn State, Pennsylvania	40 47 18	77 56 47	393	Oct 4, 1983	Oct 2, 1984		
066a	NADP/NIN	421880	Clemson, South Carolina	34 37 26	82 44 03	256	Mar 27, 1979	May 1, 1985		
067a	NADP/NIN	430060	Burton, South Dakota	44 23 03	98 13 14	390	Apr 30, 1980	Sep 20, 1983		
068a	NADP/NIN	030370	Grand Canyon, Arizona	36 04 17	112 09 13	2152	Aug 11, 1981	May 1, 1985		
069a	NADP/NIN	460280	Cedar Mt., Utah	39 10 16	110 37 06	2331	May 11, 1981	Jan 17, 1984		
070a	NADP/NIN	450425	Big Bend Nat'l Pk, Texas	29 18 08	103 10 38	1056	Apr 10, 1980	May 1, 1985		
071a	NADP/NIN	455350	Victoria, Texas	28 50 43	96 55 13	31	Apr 15, 1980	May 1, 1985		
072a	NADP/NIN	480060	Charlottesville, Virginia	38 02 23	78 32 31	172	Oct. 2, 1984	May 1, 1985		
073a	NADP/NIN	481300	Horton's Station, Virginia	37 19 53	80 33 27	963	Jul 25, 1978	May 1, 1985		
074a	NADP/NIN	491410	Olympic Nat. Park, Washington	47 51 36	123 55 55	176	May 20, 1980	Jul 31, 1984		
075a	NADP/NIN	501860	Parsons, West Virginia	39 05 23	79 39 44	505	Jul 5, 1978	May 1, 1985		
076a	NADP/NIN	513640	Trout Lake, Wisconsin	46 03 10	89 39 11	501	Jan 22, 1980	May 1, 1985		
077a	NADP/NIN	513700	Spokane, Wisconsin	45 49 22	91 52 28	331	Jun 3, 1980	May 1, 1985		
078a	NADP/NIN	520860	Yellowstone, Wyoming	44 55 02	110 25 13	1912	Jun 5, 1980	May 1, 1985		
103a	NADP/NIN	775048	Kejinkujik (c), Nova Scotia	44 25 58	65 12 20	152	May 12, 1981	Apr 3, 1984		
107a	NADP/NIN	775070	Lethbridge (b), Alberta	49 38 13	112 47 16	913	Apr 28, 1981	Apr 3, 1984		
110a	NADP/NIN	776000	Mount Forest (b), Ontario	43 59 29	80 44 46	410	May 5, 1981	Mar 20, 1984		
155a	NADP/NIN	441140	Giles County, Tennessee	35 17 05	86 54 12	57	Oct 2, 1984	May 1, 1985		
157a	NADP/NIN	058850	Yosemite, California	37 47 49	119 51 30	1408	Dec 8, 1981	May 1, 1985		
159a	NADP/NIN	058500	Channel Islands, California	34 00 57	119 21 43	49	Jul 22, 1980	Feb 19, 1982		
160a	NADP/NIN	060060	Alamosa, Colorado	37 26 29	105 51 55	2298	Apr 22, 1980	Jun 15, 1982		
161a	NADP/NIN	144740	Salem, Illinois	38 38 36	88 58 01	173	Apr 15, 1980	Apr 14, 1981		
162a	NADP/NIN	200010	Acadia < 11/81, Maine	44 24 30	68 14 46	37	Nov 18, 1980	Nov 3, 1981		
163a	NADP/NIN	200045	Caribou (a), Maine	46 52 08	68 00 53	191	Apr 14, 1980	May 1, 1985		
164a	NADP/NIN	200277	Bridgton, Maine	44 06 27	70 43 44	222	Sep 30, 1980	May 1, 1985		
165a	NADP/NIN	232240	Houghton, Michigan	47 13 37	88 37 51	193	Oct 26, 1980	Feb 15, 1983		
166a	NADP/NIN	241840	Fernberg, Minnesota	47 56 45	91 29 43	524	Nov 18, 1980	Mar 25, 1981		
167a	NADP/NIN	312980	Princeton, New Jersey	40 20 44	74 37 01	37	Aug 6, 1980	Jul 7, 1981		
168a	NADP/NIN	332020	Huntington, New York	43 58 23	74 13 23	500	Oct 31, 1978	Jun 15, 1984		
169a	NADP/NIN	343310	R Triangle Park, North Carolina	35 53 47	78 51 38	94	Apr 15, 1980	Mar 1, 1983		
170a	NADP/NIN	380840	Lost Creek Dam, Oregon	42 40 04	122 40 59	475	Oct 21, 1980	Dec 6, 1983		
171a	NADP/NIN	440040	Walker Branch, Tennessee	35 57 41	84 17 14	341	Mar 11, 1980	May 1, 1985		
172a	NADP/NIN	530190	American Samoa, American Samoa	-14 15 09	170 33 48	82	May 20, 1980	May 1, 1985		
173a	NADP/NIN	061560	Sand Spring, Colorado	40 30 27	107 42 07	1998	Mar 20, 1979	May 1, 1985		
174a	NADP/NIN	341180	R Triangle Inst, North Carolina	35 54 09	78 52 12	99	Oct 14, 1980	Jan 4, 1983		
175a	NADP/NIN	381780	Pendleton, Oregon	45 41 24	118 50 16	542	Apr 15, 1980	Sep 30, 1981		
242a	NADP/NIN	251080	Clinton, Mississippi	32 18 24	90 19 05	96	Jul 10, 1984	May 1, 1985		
248a	NADP/NIN	470180	Underhill, Vermont	44 31 42	72 52 08	399	Jun 12, 1984	May 1, 1985		
249a	NADP/NIN	470100	Bennington, Vermont	42 52 34	73 09 48	305	Apr 28, 1981	May 1, 1985		
250a	NADP/NIN	482890	Shenandoah Nat'l, Virginia	38 31 21	78 26 09	1074	May 12, 1981	Jun 15, 1982		
251a	NADP/NIN	220155	NACI, Massachusetts	41 58 33	70 01 29	41	Dec 15, 1981	Sep 23, 1982		
252a	NADP/NIN	260380	Ashland, Missouri	38 45 13	92 11 56	239	Oct 20, 1981	May 1, 1985		
253a	NADP/NIN	260560	University Forest, Missouri	36 54 39	90 19 07	154	Oct 27, 1981	May 1, 1985		
254a	NADP/NIN	453800	Forest Seed Ctr, Texas	31 33 38	94 51 39	84	Aug 18, 1981	May 1, 1985		
255a	NADP/NIN	520820	Newcastle, Wyoming	43 52 24	104 11 32	1466	Aug 11, 1981	May 1, 1985		
257a	NADP/NIN	200011	Acadia > 11/81, Maine	44 22 26	68 15 38	129	Nov 3, 1981	Jun 5, 1984		
258a	NADP/NIN	232241	Chassell, Michigan	47 06 17	88 33 05	277	Feb 15, 1983	May 1, 1985		
268a	NADP/NIN	040260	Warren ZSW, Arkansas	33 36 18	92 05 50	76	May 25, 1982	Aug 28, 1984		
269a	NADP/NIN	041620	Buffalo River, Arkansas	36 05 02	92 35 13	308	Jul 13, 1982	Dec 27, 1983		
270a	NADP/NIN	054200	Tanbark Flat, California	34 12 26	117 45 40	853	Jan 12, 1982	May 1, 1985		
271a	NADP/NIN	130480	Headquarters, Idaho	46 37 40	115 49 10	969	Jul 20, 1982	May 1, 1985		
272a	NADP/NIN	154100	Purdue U Ag Farm, Indiana	40 28 31	86 59 32	215	Jul 13, 1982	May 1, 1985		
273a	NADP/NIN	173120	Konza Prairie, Kansas	39 06 08	96 36 33	350	Aug 17, 1982	May 1, 1985		

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 3

ADS SITE IDENT	NET WORK	NET SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
274a	NADP/NTN	190620	N La Hill Farm, Louisiana	32 45 05	93 03 02	88	Nov 16, 1982	May 1, 1985		
275a	NADP/NTN	191260	Iberia, Louisiana	29 55 47	91 42 55	6	Nov 16, 1982	May 1, 1985		
276a	NADP/NTN	220815	Quabbin Reservoir, Massachusetts	42 23 33	72 20 40	283	Mar 5, 1982	Nov 20, 1984		
277a	NADP/NTN	221325	East, Massachusetts	42 23 02	71 12 53	18	Feb 2, 1982	May 1, 1985		
278a	NADP/NTN	271340	Give Out Morgan, Montana	48 29 19	105 12 30	806	Sep 14, 1982	Nov 27, 1984		
279a	NADP/NTN	320720	Bandalier Nat'l, New Mexico	35 46 54	106 16 03	1998	Jun 22, 1982	May 1, 1985		
280a	NADP/NTN	320980	Cuba, New Mexico	36 02 27	106 58 17	2124	Feb 3, 1982	May 1, 1985		
281a	NADP/NTN	380260	Bull Run, Oregon	45 26 57	122 09 12	267	Jul 13, 1982	Apr 9, 1985		
282a	NADP/NTN	452180	Longview, Texas	32 22 53	94 42 49	107	Jun 29, 1982	May 1, 1985		
283a	NADP/NTN	512800	Lake Dubay, Wisconsin	44 39 52	89 39 08	338	Jun 29, 1982	Aug 28, 1984		
284a	NADP/NTN	520680	Pinedale, Wyoming	42 55 44	109 47 12	2388	Jan 26, 1982	May 1, 1985		
285a	NADP/NTN	312981	Washington King, New Jersey	40 18 54	74 51 17	72	Aug 4, 1981	Sep 12, 1984		
328a	NADP/NTN	513680	Lake Geneva, Wisconsin	42 34 49	88 30 01	288	Jun 5, 1984	May 1, 1985		
329a	NADP/NTN	011000	Blackbelt, Alabama	32 27 30	87 14 31	58	Aug 31, 1983	May 1, 1985		
330a	NADP/NTN	040380	Caddo Valley, Arkansas	34 10 46	93 05 55	71	Dec 30, 1983	Oct 30, 1984		
331a	NADP/NTN	056820	Palomar Mountain, California	33 18 32	116 51 14	1695	Mar 15, 1983	May 1, 1985		
332a	NADP/NTN	058501	Chuchupate, California	34 48 22	119 00 41	1614	Aug 2, 1983	Apr 30, 1985		
333a	NADP/NTN	060180	Las Animas, Colorado	38 07 04	103 18 58	1213	Oct 4, 1983	Oct 4, 1984		
334a	NADP/NTN	060220	Niwot Saddle, Colorado	40 03 19	105 35 18	3520	Jun 5, 1984	May 1, 1985		
335a	NADP/NTN	061920	Buffalo Pass, Colorado	40 32 16	106 40 35	3234	Feb 7, 1984	May 1, 1985		
336a	NADP/NTN	100380	Kennedy Space Cent, Florida	28 32 34	80 38 40	2	Aug 2, 1983	May 1, 1985		
337a	NADP/NTN	101400	Quincy, Florida	30 32 53	84 36 03	60	Mar 13, 1984	May 1, 1985		
338a	NADP/NTN	104100	Verna Wall Field, Florida	27 22 48	82 17 02	25	Aug 25, 1983	Dec 6, 1983		
339a	NADP/NTN	112040	Bellville, Georgia	32 08 28	81 58 17	62	Apr 26, 1983	May 1, 1985		
340a	NADP/NTN	115000	Tifton, ARS, Georgia	31 28 23	83 31 59	104	Oct 4, 1983	Jul 31, 1984		
341a	NADP/NTN	131180	Reynolds Creek, Idaho	43 12 19	116 44 57	1198	Nov 22, 1983	May 1, 1985		
342a	NADP/NTN	061911	Rocky Mtn Nat'l Pa, Colorado	40 17 16	105 39 46	3159	Aug 16, 1983	May 1, 1985		
343a	NADP/NTN	152020	Huntington, Indiana	40 50 24	85 27 50	244	Aug 22, 1983	May 1, 1985		
344a	NADP/NTN	170740	Farlington, Kansas	37 39 04	94 48 13	281	Mar 27, 1984	May 1, 1985		
345a	NADP/NTN	173280	Scott Lake, Kansas	38 40 18	100 54 59	863	Mar 27, 1984	May 1, 1985		
346a	NADP/NTN	180360	Parryville, Kentucky	37 40 38	84 58 23	279	Nov 29, 1983	May 1, 1985		
347a	NADP/NTN	182260	Lille Cornett Woo, Kentucky	37 04 40	82 59 37	335	Sep 6, 1983	May 1, 1985		
348a	NADP/NTN	183560	Clark State Fish H, Kentucky	38 07 06	83 32 49	204	Aug 30, 1983	Nov 27, 1984		
349a	NADP/NTN	193060	Southeast, Louisiana	30 48 41	90 10 51	48	Jan 18, 1983	May 1, 1985		
350a	NADP/NTN	211320	Wye, Maryland	38 54 47	76 09 09	6	Mar 8, 1983	May 1, 1985		
351a	NADP/NTN	230980	Raco, Michigan	46 22 27	84 44 29	262	May 1, 1984	May 1, 1985		
352a	NADP/NTN	242360	Camp Ripley, Minnesota	46 14 58	94 29 50	410	Oct 18, 1983	Apr 29, 1985		
353a	NADP/NTN	492180	La Grande, Washington	46 50 07	122 17 12	617	Apr 24, 1984	May 1, 1985		
354a	NADP/NTN	270560	Glacier Nat'l Park, Montana	48 44 28	113 25 48	1391	Jan 25, 1983	May 1, 1985		
355a	NADP/NTN	270760	Clancy, Montana	46 29 07	112 04 03	1489	Jan 24, 1984	May 14, 1984		
356a	NADP/NTN	320840	Mayhill, New Mexico	32 54 34	105 28 14	2009	Jan 24, 1984	May 1, 1985		
357a	NADP/NTN	460120	Logan, Utah	41 39 30	111 53 49	1370	Dec 6, 1983	May 1, 1985		
358a	NADP/NTN	335141	West Point, New York	41 21 03	74 02 55	201	Sep 13, 1983	May 1, 1985		
359a	NADP/NTN	336840	Biscuit Brook, New York	41 59 39	74 30 13	634	Oct 11, 1983	Jun 26, 1984		
360a	NADP/NTN	343600	Jordan Creek, North Carolina	34 58 15	79 31 41	132	Oct 18, 1983	May 1, 1985		
361a	NADP/NTN	350880	Icelandic, North Dakota	48 46 57	97 45 15	306	Oct 25, 1983	May 1, 1985		
362a	NADP/NTN	351180	Woodworth, North Dakota	47 07 32	99 14 13	578	Nov 29, 1983	May 1, 1985		
363a	NADP/NTN	370060	Salt Plains Nation, Oklahoma	36 48 19	98 42 02	345	Dec 13, 1983	May 1, 1985		
364a	NADP/NTN	371740	Great Plains Apiar, Oklahoma	34 58 48	97 31 17	331	Mar 29, 1983	May 1, 1985		
365a	NADP/NTN	372580	Clayton Lake, Oklahoma	34 31 47	95 21 11	349	Feb 1, 1983	May 1, 1985		
366a	NADP/NTN	380202	Hyalop Farm, Oregon	44 38 05	123 11 24	69	Apr 26, 1983	May 1, 1985		
367a	NADP/NTN	380980	Silver Lake Ranger, Oregon	43 07 18	121 03 28	1336	Aug 23, 1983	Oct 11, 1984		
368a	NADP/NTN	381800	Starkey Experiment, Oregon	45 13 28	118 30 41	1253	Mar 6, 1984	May 1, 1985		
369a	NADP/NTN	491940	Marblemount, Washington	48 32 32	121 26 45	120	Feb 7, 1984	May 1, 1985		
370a	NADP/NTN	491540	Sullivan Lake, Washington	48 50 36	117 17 02	796	May 8, 1984	May 1, 1985		
371a	NADP/NTN	397220	Milford, Pennsylvania	41 19 39	74 49 13	212	Dec 27, 1983	Mar 20, 1984		
372a	NADP/NTN	430061	Buron Well Field, South Dakota	44 21 18	98 17 27	398	Nov 29, 1983	May 1, 1985		
373a	NADP/NTN	430880	Cottonwood, South Dakota	43 56 57	101 51 30	733	Oct 11, 1983	May 1, 1985		

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 4

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
374a	NADP/NIN	450350	Beeville, Texas	28 28 00	97 42 25	82	Feb 7, 1984	May 1, 1985		
375a	NADP/NIN	451040	Attwater Prairie C, Texas	29 39 41	96 15 34	54	Jul 3, 1984	May 1, 1985		
376a	NADP/NIN	451650	Sonora, Texas	30 15 41	100 33 18	690	Jun 26, 1984	May 1, 1985		
377a	NADP/NIN	455180	Throckmorton, Texas	33 16 24	99 12 55	425	May 29, 1984	May 1, 1985		
378a	NADP/NIN	455640	IBJ National Grass, Texas	33 23 30	97 38 23	312	Sep 20, 1983	Oct 9, 1984		
379a	NADP/NIN	500460	Babcock State Park, West Virginia	37 58 48	80 57 00	753	Sep 6, 1983	Apr 16, 1985		
412a	NADP/NIN	483300	Loves Mill, Virginia	36 44 12	81 41 13	663	Oct 2, 1984	May 1, 1985		
420a	NADP/NIN	152260	Southwest Purdue, Indiana	38 44 27	87 29 08	134	Sep 25, 1984	May 1, 1985		
421a	NADP/NIN	160880	Big Springs Fish H, Iowa	42 54 35	91 28 12	229	Aug 14, 1984	May 1, 1985		
422a	NADP/NIN	162320	McNay Research Sta, Iowa	40 57 47	93 23 33	320	Sep 11, 1984	May 1, 1985		
423a	NADP/NIN	183860	Land Between the L, Kentucky	36 47 26	88 04 02	181	Oct 2, 1984	May 1, 1985		
424a	NADP/NIN	210360	White Rock, Maryland	39 24 32	76 59 43	172	Oct 3, 1984	May 1, 1985		
425a	NADP/NIN	253000	Coffeyville, Mississippi	34 00 09	89 48 00	134	Jul 17, 1984	May 1, 1985		
426a	NADP/NIN	270060	Custer Battlefield, Montana	45 34 07	107 25 15	957	Jul 13, 1984	May 1, 1985		
427a	NADP/NIN	290140	Saval Ranch, Nevada	41 16 59	115 49 36	1850	Jul 18, 1984	May 1, 1985		
429a	NADP/NIN	420680	Santee National Wi, South Carolina	33 32 22	80 26 06	24	Jul 19, 1984	Jul 24, 1984		
431a	NADP/NIN	520260	Sinks Canyon, Wyoming	42 44 02	108 51 00	2164	Aug 21, 1984	May 1, 1985		
432a	NADP/NIN	011020	Sand Mountain Exp, Alabama	34 17 30	85 57 32	347	Oct 2, 1984	May 1, 1985		
433a	NADP/NIN	131500	Smiths Ferry, Idaho	44 17 52	116 03 49	1442	Oct 9, 1984	May 1, 1985		
435a	NADP/NIN	441400	Hatchie National W, Tennessee	35 28 04	89 09 31	107	Oct 2, 1984	May 1, 1985		
436a	NADP/NIN	200046	Prasque Isle, Maine	46 39 17	68 00 32	186	Jun 5, 1984	May 1, 1985		
437a	NADP/NIN	321280	Capulin Mountain, New Mexico	36 46 44	103 58 53	2205	Nov 15, 1984	May 1, 1985		
438a	NADP/NIN	452215	Guadalupe Mountain, Texas	31 54 30	104 48 24	1734	Jun 5, 1984	May 1, 1985		
440a	NADP/NIN	512500	Suring-NADP, Wisconsin	45 03 12	88 22 22	247	Jan 23, 1985	May 1, 1985		
442a	NADP/NIN	520681	Gypsum Creek, Wyoming	43 13 22	109 59 28	2428	Dec 26, 1984	May 1, 1985		
443a	NADP/NIN	147860	Mornmouth, Illinois	40 56 00	90 43 23	0	Jan 8, 1985	May 1, 1985		
444a	NADP/NIN	290080	Red Rock Canyon, Nevada	36 08 09	115 25 32	1137	Jan 22, 1985	May 1, 1985		
445a	NADP/NIN	290560	Lehman Caves, Nevada	39 00 18	114 12 57	2067	Jan 15, 1985	May 1, 1985		
446a	NADP/NIN	372920	Goodwall Research, Oklahoma	36 35 27	101 37 03	999	Jan 8, 1985	May 1, 1985		
447a	NADP/NIN	402020	El Verde, Puerto Rico	18 19 28	65 48 53	430	Feb 12, 1985	May 1, 1985		
448a	NADP/NIN	460110	Bryce Canyon, Utah	37 37 07	112 10 22	2477	Jan 29, 1985	May 1, 1985		
449a	NADP/NIN	460281	Green River, Utah	38 59 54	110 09 55	1244	Apr 25, 1985	May 1, 1985		
450a	NADP/NIN	520261	South Pass City, Wyoming	42 29 41	108 49 45	2511	Apr 30, 1985	May 1, 1985		
456a	NADP/NIN	777570	Sutton, Quebec	45 04 35	72 40 35	290	Sep 16, 1986	Jul 13, 1987		
480a	NADP/NIN	057680	Montague, California	41 45 57	122 28 42	797	Jun 25, 1985	Jul 13, 1987		
481a	NADP/NIN	061980	Engineer Mountain, Colorado	37 39 35	107 47 57	2758	Jul 29, 1986	Jul 13, 1987		
482a	NADP/NIN	061981	Molas Pass, Colorado	37 45 08	107 41 21	3286	Jul 29, 1986	Jul 13, 1987		
483a	NADP/NIN	112380	Fort Frederica Nat, Georgia	31 13 31	81 23 32	2	Sep 3, 1985	Jul 13, 1987		
484a	NADP/NIN	232571	Isle Royale Nat'l, Michigan	48 03 27	88 38 03	201	May 22, 1985	Apr 1, 1987		
485a	NADP/NIN	270740	Havre Experiment S, Montana	48 29 57	109 47 51	815	Jul 30, 1985	Jul 13, 1987		
486a	NADP/NIN	281580	North Platte Ag. E, Nebraska	41 03 33	100 44 47	919	Sep 24, 1985	Jul 13, 1987		
487a	NADP/NIN	290360	Smith Valley, Nevada	38 47 57	119 15 24	1501	Aug 7, 1985	Jul 13, 1987		
488a	NADP/NIN	320180	Gila Cliff Dwellin, New Mexico	33 13 13	108 14 05	1772	Jul 29, 1985	Jul 13, 1987		
489a	NADP/NIN	344500	Clingman's Peak, North Carolina	35 44 07	82 17 10	1987	Nov 26, 1985	Jul 13, 1987		
490a	NADP/NIN	450250	Milesboro Nat'l Wil, Texas	33 57 28	102 46 34	1143	Jun 18, 1985	Jul 13, 1987		
491a	NADP/NIN	460820	Murphy Ridge, Utah	41 21 27	111 02 55	2146	Mar 25, 1986	Jul 13, 1987		
492a	NADP/NIN	492420	Palouse Conservati, Washington	46 45 38	117 11 05	766	Aug 20, 1985	Jul 13, 1987		
493a	NADP/NIN	520020	Snowy Range, Wyoming	41 22 34	106 15 34	3286	Apr 22, 1986	Jul 13, 1987		
499a	NADP/NIN	060221	Sugarcief, Colorado	39 59 38	105 28 48	2524	Nov 4, 1986	Jul 13, 1987		
500a	NADP/NIN	061921	Dry Lake, Colorado	40 32 05	106 46 48	2527	Oct 14, 1986	Jul 13, 1987		
501a	NADP/NIN	251960	Newton, Mississippi	32 20 05	89 09 57	115	Nov 11, 1986	Jul 13, 1987		
502a	NADP/NIN	265000	Baker Observatory, Missouri	37 23 55	93 02 33	415	Oct 14, 1986	Jul 13, 1987		
503a	NADP/NIN	482900	Whitetop Mountain, Virginia	36 38 20	81 36 21	1686	Sep 30, 1986	Jul 13, 1987		
504a	NADP/NIN	510960	Popple River, Wisconsin	45 47 47	88 23 58	421	Dec 30, 1986	Jul 13, 1987		
504b	NADP/NIN	510961	Popple River Inter, Wisconsin	45 47 47	88 23 58	421	Dec 30, 1986	Jul 13, 1987		
505a	NADP/NIN	520021	Nash Fork, Wyoming	40 20 25	106 11 20	2856	Nov 18, 1986	Jul 13, 1987		
511a	NADP/NIN	060880	Four Mile Park, Colorado	39 24 11	107 20 28	2502	Dec 29, 1987			
065a	CAPMON	9051010	Penn State, Pennsylvania	40 47 00	77 57 00	393	Jan 9, 1986			

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 5

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
085a	CAPMON	406JGF0	Cree Lake, Saskatchewan	57 21 00	107 08 00	497	Jul 1, 1982	Aug 11, 1983		
087a	CAPMON	6112068	Dorset, Ontario	45 13 00	78 56 00	320	Nov 1, 1983	Jan 28, 1984		
098a	CAPMON	8501896	Goose Bay, Newfoundland	53 19 00	60 21 00	30	Sep 30, 1983	Feb 9, 1984		
103a	CAPMON	8202590	Kejimkujik (b), Nova Scotia	44 26 00	65 12 00	127	May 1, 1979	Jun 30, 1983		
103b	CAPMON	8202593	Kejimkujik 2, Nova Scotia	44 26 00	65 12 00	127	Jan 4, 1986	Jun 2, 1988		
111a	CAPMON	7095478	Nitchequon, Quebec	53 12 00	70 54 00	550	Aug 1, 1983	Jan 3, 1984		
113a	CAPMON	6016523	Pickle Lake, Ontario	51 28 00	90 12 00	370	Sep 1, 1983	Feb 4, 1984		
135a	CAPMON	6032253	ELA (b), Ontario	49 40 00	93 43 00	369	Nov 1, 1978	Mar 1, 1979		
142a	CAPMON	6134608	Long Point, Ontario	42 36 00	80 30 00	175	Nov 1, 1978	Nov 30, 1982		
143a	CAPMON	6144586	Longwoods (a), Ontario	42 53 00	81 29 00	278	Dec 1, 1982	Sep 20, 1983		
144a	CAPMON	7042388	Montmorency, Quebec	47 19 00	71 09 00	640	Dec 1, 1980	Jul 21, 1983		
145a	CAPMON	8400406	Bay d'Espoir, Newfoundland	47 59 00	55 49 00	190	Nov 1, 1981	Jul 6, 1983		
453a	CAPMON	5061376	Island Lake, Manitoba	53 52 00	94 40 00	245	Sep 1, 1983	Feb 4, 1984		
454a	CAPMON	5041706	McCreary, Manitoba	50 43 00	99 32 00	335	Sep 1, 1983	Feb 16, 1984		
455a	CAPMON	6116716	Priceville, Ontario	44 10 00	80 40 00	475	Jul 1, 1984			
455b	CAPMON	6116719	Priceville 2, Ontario	44 10 00	80 40 00	475	Apr 14, 1985	Nov 12, 1987		
456a	CAPMON	7028292	Sutton, Quebec	45 05 00	72 41 00	243	Sep 1, 1983	Jan 18, 1984		
456b	CAPMON	7028293	Sutton 2, Quebec	45 05 00	72 41 00	243	Jan 8, 1985			
457a	CAPMON	8102151	Harcourt, New Brunswick	46 29 00	65 15 00	45	Aug 1, 1983	Mar 22, 1984		
457b	CAPMON	8102149	Harcourt QC, New Brunswick	46 29 00	65 15 00	45	Jan 9, 1986	Oct 1, 1987		
458a	CAPMON	8202562	Jackson, Nova Scotia	45 36 00	63 50 00	91	Aug 2, 1983	Mar 20, 1984		
459a	CAPMON	8401289	Cormack, Newfoundland	49 16 00	57 28 00	120	Aug 1, 1983	Feb 22, 1984		
460a	CAPMON	8401291	Cormack-B, Newfoundland	49 19 00	57 24 00	168	Jun 1, 1985	Apr 30, 1986		
461a	CAPMON	6070QK6	Bonner Lake, Ontario	49 23 00	82 07 00	245	Jun 11, 1985			
462a	CAPMON	6158361	AES HQ, Ontario	43 47 00	79 28 00	191	Apr 1, 1985			
463a	CAPMON	6169291	Warsaw Caves, Ontario	44 28 00	78 08 00	230	Mar 8, 1985			
497a	CAPMON	7046086	Port Cartier, Quebec	50 08 00	67 07 00	180	Dec 1, 1985			
498a	CAPMON	3012459	Esther, Alberta	51 40 00	110 12 00	714	Jan 12, 1986			
506a	CAPMON	7091294	Chapais, Quebec	49 49 00	74 58 00	381	Oct 14, 1987			
031a	CANSAP	13 020	Pellston, Michigan	45 33 40	84 40 42	233	Jul 1, 1979	Jan 1, 1980		
037a	CANSAP	13 010	Glacier Nat Park, Montana	48 30 37	113 59 44	968	Jun 1, 1980			
079a	CANSAP	07 050	Atikokan, Ontario	48 45 00	91 37 00	393	Apr 30, 1977	Mar 1, 1979		
080a	CANSAP	06 030	Bissett, Manitoba	51 02 00	95 40 00	258	May 1, 1977	Mar 1, 1979		
081a	CANSAP	09 000	Charlo, New Brunswick	48 00 00	66 20 00	38	May 9, 1977	Mar 1, 1979		
082a	CANSAP	08 030	Chibougamau, Quebec	49 49 00	74 25 00	402	Apr 8, 1977	Mar 1, 1979		
083a	CANSAP	06 000	Churchill, Manitoba	58 45 00	94 04 00	29	Jun 1, 1977	Mar 1, 1979		
084a	CANSAP	04 030	Coronation, Alberta	52 04 00	111 27 00	791	May 1, 1977	Mar 1, 1979		
085a	CANSAP	05 000	Cree Lake, Saskatchewan	57 21 00	107 08 00	499	May 1, 1977	Mar 1, 1979		
086a	CANSAP	06 020	Dauphin, Manitoba	51 06 00	100 03 00	305	Apr 30, 1977	Mar 1, 1979		
087a	CANSAP	07 060	Dorset (a), Ontario	45 13 00	78 56 00	319	Jul 13, 1979	Jan 1, 1980		
088a	CANSAP	04 010	Edson, Alberta	53 35 00	116 27 00	925	Jan 2, 1974	Mar 1, 1979		
089a	CANSAP	01 000	Mould Bay, Northwest Territories	76 14 00	119 20 00	15	Aug 1, 1977	Mar 1, 1979		
090a	CANSAP	09 010	Acadia Fes, New Brunswick	46 00 00	66 22 00	61	Nov 1, 1979	Jan 1, 1980		
091a	CANSAP	08 000	Fort Chimo, Quebec	58 06 00	68 25 00	36	May 1, 1977	Mar 1, 1979		
092a	CANSAP	04 000	Fort McMurray, Alberta	56 39 00	111 13 00	369	Apr 27, 1977	Mar 1, 1979		
093a	CANSAP	03 000	Fort Nelson, British Columbia	58 50 00	122 36 00	383	Jun 3, 1977	Mar 1, 1979		
094a	CANSAP	01 020	Fort Reliance, Northwest Territories	62 43 00	109 10 00	164	Jul 6, 1977	Mar 1, 1979		
095a	CANSAP	01 030	Fort Simpson, Northwest Territories	61 45 00	121 14 00	169	Dec 28, 1973	Aug 1, 1978		
096a	CANSAP	03 010	Fort St. John, British Columbia	56 14 00	120 44 00	695	Jun 2, 1977	Mar 1, 1979		
097a	CANSAP	12 010	Gander, Newfoundland	48 57 00	54 34 00	151	May 9, 1977	Mar 1, 1979		
098a	CANSAP	12 000	Goose, Newfoundland	53 19 00	60 25 00	36	Jul 8, 1977	Mar 1, 1979		
099a	CANSAP	01 040	Hay River, Northwest Territories	60 50 00	115 47 00	166	Feb 12, 1980			
100a	CANSAP	07 120	Harrow, Ontario	42 02 00	82 54 00	191	Dec 31, 1979	Jan 1, 1983		
101a	CANSAP	01 010	Inuvik, Northwest Territories	68 18 00	133 29 00	68	Jun 24, 1977	Mar 1, 1979		
102a	CANSAP	07 030	Kapuskasing, Ontario	49 24 00	82 26 00	227	Oct 16, 1979	Jan 1, 1980		
103a	CANSAP	10 020	Kejimkujik (a), Nova Scotia	44 25 58	65 12 20	127	Jun 7, 1978	Mar 1, 1979		
104a	CANSAP	03 070	Kelowna, British Columbia	49 58 00	119 23 00	430	Apr 30, 1977	Mar 1, 1979		
105a	CANSAP	05 010	Kindersley, Saskatchewan	51 28 00	109 10 00	683	May 1, 1977	Mar 1, 1979		

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 6

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
106a	CANSAP	07 070	Kingston, Ontario	44 13 00	76 36 00	92	May 1, 1977	Mar 1, 1979		
107a	CANSAP	04 040	Lethbridge (a), Alberta	49 38 13	112 47 16	913	Jul 31, 1977	Mar 1, 1979		
108a	CANSAP	08 050	Maniwaki, Quebec	46 23 00	75 58 00	170	May 10, 1975	Mar 1, 1979		
109a	CANSAP	07 010	Moosejaw, Ontario	51 16 00	80 39 00	10	Jun 1, 1977	Mar 1, 1979		
110a	CANSAP	07 090	Mount Forest (a), Ontario	43 59 29	80 44 46	415	Jul 17, 1973	Mar 1, 1979		
111a	CANSAP	08 010	Nitchequon, Quebec	53 12 00	70 54 00	536	Apr 1, 1977	Mar 1, 1979		
112a	CANSAP	07 080	Peterborough, Ontario	44 14 00	78 21 00	191	Jun 11, 1977	Mar 1, 1979		
113a	CANSAP	07 020	Pickle Lake, Ontario	51 28 00	90 12 00	369	Feb 1, 1977	Mar 1, 1979		
114a	CANSAP	03 040	Port Hardy, British Columbia	50 41 00	127 22 00	22	May 10, 1977	Mar 1, 1979		
115a	CANSAP	03 030	Prince George, British Columbia	53 53 00	122 40 00	691	Apr 6, 1977	Mar 1, 1979		
116a	CANSAP	08 040	Quebec City, Quebec	46 48 00	71 24 00	73	May 31, 1977	Mar 1, 1979		
117a	CANSAP	10 010	Sable Island, Nova Scotia	43 56 00	60 01 00	4	Mar 4, 1975	Mar 1, 1979		
118a	CANSAP	08 060	St. Hubert, Quebec	45 31 00	73 25 00	27	May 31, 1977	Mar 1, 1979		
119a	CANSAP	09 020	St. John, New Brunswick	45 19 00	65 53 00	109	May 9, 1977	Mar 1, 1979		
120a	CANSAP	08 020	Sept Isles, Quebec	50 13 00	66 15 00	55	Apr 1, 1977	Mar 1, 1979		
121a	CANSAP	10 030	Shelburne, Nova Scotia	43 43 00	65 15 00	30	Jan 1, 1976	Mar 1, 1979		
122a	CANSAP	07 110	Simcoe, Ontario	42 51 00	80 16 00	241	Jun 1, 1977	Mar 1, 1979		
123a	CANSAP	12 020	Stephenville, Newfoundland	48 32 00	58 33 00	26	May 1, 1977	Mar 1, 1979		
124a	CANSAP	03 020	Terrace, British Columbia	54 28 00	128 35 00	217	Apr 14, 1977	Mar 1, 1979		
125a	CANSAP	06 010	The Pas, Manitoba	53 58 00	101 06 00	273	May 11, 1977	Mar 1, 1979		
126a	CANSAP	07 000	Trout Lake, Ontario	53 50 00	89 52 00	220	May 9, 1977	Mar 1, 1979		
127a	CANSAP	10 000	Truro, Nova Scotia	45 22 00	63 16 00	40	May 9, 1977	Mar 1, 1979		
128a	CANSAP	03 060	Vancouver, British Columbia	49 11 00	123 10 00	2	Aug 1, 1977	Mar 1, 1979		
129a	CANSAP	07 130	Wauba, Ontario	47 58 00	84 47 00	287	May 11, 1977	Mar 1, 1979		
130a	CANSAP	02 000	Whitehorse, Yukon Territory	60 43 00	135 04 00	703	Jul 1, 1977	Mar 1, 1979		
131a	CANSAP	07 150	Windsor, Ontario	42 16 00	82 58 00	190	Jun 1, 1977	Mar 1, 1979		
132a	CANSAP	05 020	Wymard, Saskatchewan	51 46 00	104 12 00	561	Mar 1, 1974	Mar 1, 1979		
133a	CANSAP	03 050	Yavalastoke, British Columbia	50 58 00	118 11 00	443	Sep 7, 1979	Jan 1, 1980		
134a	CANSAP	04 020	Rocky Mtn House, Alberta	52 23 00	114 55 00	988	May 10, 1977	Mar 1, 1979		
135a	CANSAP	07 023	ELA (a), Ontario	49 40 00	93 43 00	368	Aug 1, 1979	Jan 1, 1980		
163a	CANSAP	13 000	Caribou (b), Maine	46 52 08	68 00 55	191	Apr 1, 1980			
286a	CANSAP	03 080	Puntzi Mountain, British Columbia	52 07 00	124 05 00	911	Apr 1, 1974	Jan 1, 1977		
287a	CANSAP	07 140	Armstrong, Ontario	50 17 00	88 54 00	323	Feb 25, 1974	Nov 1, 1976		
013a	MAP3S/PCN	7	Lewes, Delaware	38 46 00	75 00 00	0	Feb 28, 1978	Nov 10, 1980		
020a	MAP3S/PCN	5	Illinois, Illinois	40 03 12	88 22 19	212	Nov 19, 1977	Feb 16, 1980		
043a	MAP3S/PCN	1	Whiteface, New York	44 23 26	73 51 34	610	Oct 10, 1976	Aug 3, 1977		
044a	MAP3S/PCN	2	Ithaca, New York	42 24 03	76 39 12	509	Oct 25, 1976	Aug 3, 1977		
048a	MAP3S/PCN	6	Brookhaven, New York	40 52 00	72 53 00	25	Feb 8, 1978	Feb 24, 1981		
057a	MAP3S/PCN	8	Oxford, Ohio	39 31 53	84 43 27	284	Sep 30, 1978	Nov 23, 1980		
065a	MAP3S/PCN	3	Penn State, Pennsylvania	40 47 18	77 56 45	393	Sep 21, 1976	Aug 3, 1977		
072a	MAP3S/PCN	4	Virginia, Virginia	38 02 23	78 32 31	172	Dec 11, 1976	Aug 4, 1977		
171a	MAP3S/PCN	9	Oak Ridge, Tennessee	35 57 41	84 17 14	341	Jan 6, 1981	Jul 19, 1983		
065a	APIOS-D	7021	Penn State, Pennsylvania	40 47 18	77 56 47	120	Dec 30, 1985			
087a	APIOS-D	3011	Dorset (b), Ontario	45 13 23	78 55 49	320	Jul 14, 1980	Jan 16, 1981		
143a	APIOS-D	1011	Longwoods (b), Ontario	42 53 02	81 28 50	239	Jul 14, 1980	Jan 28, 1981		
166a	APIOS-D	6051	Farmberg, Minnesota	47 56 51	91 29 26	506	Oct 1, 1981	May 1, 1982		
200a	APIOS-D	5061	Gowganda, Ont., Ontario	47 39 04	80 46 32	343	Dec 30, 1985			
208a	APIOS-D	6061	Lac Le Croix (b), Ontario	48 21 14	92 12 32	368	Sep 23, 1981	Nov 18, 1981		
221a	APIOS-D	1021	Melbourne, Ontario	42 47 15	81 33 23	213	Nov 3, 1980	Feb 11, 1981		
222a	APIOS-D	1031	North Easthope, Ontario	43 24 21	80 53 35	375	Nov 1, 1980	Jan 17, 1981		
223a	APIOS-D	2011	Wellesley, Ontario	43 28 13	80 45 35	344	Jan 27, 1981	May 8, 1981		
224a	APIOS-D	3021	Nithgrove, Ontario	45 12 01	79 04 14	335	Jan 26, 1981	May 6, 1981		
225a	APIOS-D	3031	Balsam Lake, Ontario	44 37 35	78 51 22	259	Nov 21, 1980	Feb 2, 1981		
226a	APIOS-D	3041	Raven Lake, Ontario	44 36 40	78 54 43	274	Feb 1, 1981	May 6, 1981		
227a	APIOS-D	4011	Charleston Lake, Ontario	44 29 54	76 02 30	92	Jan 25, 1981	May 6, 1981		
228a	APIOS-D	4021	Railton, Ontario	44 22 34	76 35 33	137	Jul 14, 1980	Jan 23, 1981		
229a	APIOS-D	4031	Graham Lake, Ontario	44 35 22	75 51 44	130	Oct 25, 1980	Feb 21, 1981		
230a	APIOS-D	4041	Whitman Creek, Ontario	44 29 07	76 49 19	137	Oct 24, 1980	Nov 25, 1980		

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 7

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
233a	APIOS-D	6071	Questico Centre, Ontario	48 24 44	91 12 08	420	Oct 16, 1981	May 7, 1982		
234a	APIOS-D	6081	Forbes Twp., Ontario	48 34 58	89 38 56	324	Sep 23, 1981	Oct 5, 1981		
452a	APIOS-D	6111	Otter Island, Ontario	48 06 50	86 04 25	204	Jun 23, 1984	Nov 17, 1984		
456a	APIOS-D	7011	Sutton, Quebec	45 04 35	72 40 35	290	Oct 8, 1986			
496a	APIOS-D	4101	Wilmar, Ontario	44 26 15	76 31 45	155	Oct 24, 1985			
507a	APIOS-D	6131	Dawson Creek, Ontario	48 33 38	89 38 60	381	Oct 1, 1986			
524a	APIOS-D	2031	Egbert, Ontario, Ontario	44 13 57	79 46 53	253	Dec 30, 1985			
600a	APIOS-D	5171	High Falls, Not in Table	46 22 55	81 32 43	215	Dec 30, 1985			
053a	UAPSP	08	Raleigh, North Carolina	35 43 43	78 40 48	128	Sep 8, 1978	Jan 1, 1979		
053b	UAPSP	08 smpl 2	Raleigh-2, North Carolina	35 43 43	78 40 48	128	Sep 8, 1978	Jan 1, 1979		
149a	UAPSP	01	Montague, Massachusetts	42 32 00	72 32 08	73	Aug 27, 1978	Jan 1, 1979		
149b	UAPSP	01 smpl 2	Montague-2, Massachusetts	42 32 00	72 32 08	73	Aug 27, 1978	Jan 1, 1979		
150a	UAPSP	01	Turners Falls, Massachusetts	42 35 50	72 32 55	98	Aug 1, 1980	Oct 1, 1981		
151a	UAPSP	02	Scranton, Pennsylvania	41 34 30	75 59 40	335	Aug 25, 1978	Jan 1, 1979		
151b	UAPSP	02 smpl 2	Scranton-2, Pennsylvania	41 34 30	75 59 40	335	Aug 25, 1978	Jan 1, 1979		
152a	UAPSP	03	Indian River, Delaware	38 34 50	75 14 45	6	Aug 29, 1978	Jan 1, 1979		
152b	UAPSP	03 smpl 2	Indian River-2, Delaware	38 34 50	75 14 45	6	Aug 29, 1978	Jan 1, 1979		
153a	UAPSP	04	Zanesville, Ohio	39 59 02	82 01 05	250	Aug 20, 1978	Jan 1, 1979		
153b	UAPSP	04 smpl 2	Zanesville-2, Ohio	39 59 02	82 01 05	250	Aug 20, 1978	Jan 1, 1979		
154a	UAPSP	05	Rockport, Indiana	37 52 50	87 07 47	131	Aug 26, 1978	Jan 1, 1979		
154b	UAPSP	05 smpl 2	Rockport-2, Indiana	37 52 50	87 07 47	131	Aug 26, 1978	Jan 1, 1979		
155a	UAPSP	06	Giles County, Tennessee	35 17 05	86 54 11	244	Aug 24, 1978	Jan 1, 1979		
155b	UAPSP	06 smpl 2	Giles County-2, Tennessee	35 17 05	86 54 11	244	Aug 24, 1978	Jan 1, 1979		
156a	UAPSP	07	Fort Wayne, Indiana	41 02 39	85 19 08	244	Aug 18, 1978	Jan 1, 1979		
156b	UAPSP	07 smpl 2	Fort Wayne-2, Indiana	41 02 39	85 19 08	244	Aug 1, 1978	Jan 1, 1979		
156a	UAPSP	09	Lewisburg, West Virginia	37 50 50	80 25 00	701	Aug 22, 1978	Jan 1, 1979		
156b	UAPSP	09 smpl 2	Lewisburg-2, West Virginia	37 50 50	80 25 00	701	Aug 22, 1978	Jan 1, 1979		
235a	UAPSP	15	Selma, Alabama	32 28 25	87 05 03	42	Oct 17, 1981	Jan 1, 1982		
235b	UAPSP	15 smpl 2	Selma-2, Alabama	32 28 25	87 05 03	42	Oct 23, 1981	Jan 1, 1982		
236a	UAPSP	23	Yampa, Colorado	40 09 54	106 54 49	2390	Aug 12, 1982	Oct 1, 1982		
236b	UAPSP	23 smpl 2	Yampa-2, Colorado	40 09 54	106 54 49	2390	Jan 22, 1987	Jun 15, 1988		
237a	UAPSP	14	Uvalda, Georgia	32 03 18	82 28 25	64	Oct 13, 1981	Oct 1, 1982		
237b	UAPSP	14 smpl 2	Uvalda-2, Georgia	32 03 18	82 28 25	64	Oct 9, 1983	Aug 1, 1984		
238a	UAPSP	18	Lancaster, Kansas	39 34 10	95 18 17	346	Nov 5, 1981	Oct 1, 1982		
238b	UAPSP	18 smpl 2	Lancaster-2, Kansas	39 34 10	95 18 17	346	Oct 12, 1983	Oct 18, 1984		
239a	UAPSP	11	Clearfield, Kentucky	38 08 10	83 27 17	235	Oct 29, 1981	Oct 1, 1982		
239b	UAPSP	11 smpl 2	Clearfield-2, Kentucky	38 08 10	83 27 17	235	Jun 25, 1985	Jun 20, 1986		
240a	UAPSP	13	Winterport, Maine	44 37 05	68 58 30	67	Oct 21, 1981	Oct 1, 1982		
240b	UAPSP	13 smpl 2	Winterport-2, Maine	44 37 05	68 58 30	67	Oct 29, 1984	Nov 5, 1985		
241a	UAPSP	10	Gaylord, Michigan	44 56 58	84 38 30	473	Nov 7, 1981	Oct 1, 1982		
241b	UAPSP	10 smpl 2	Gaylord-2, Michigan	44 56 58	84 38 30	473	Feb 16, 1987	Dec 31, 1987		
242a	UAPSP	16	Clinton, Mississippi	32 18 24	90 19 06	86	Oct 20, 1981	Oct 1, 1982		
242b	UAPSP	16 smpl 2	Clinton-2, Mississippi	32 21 06	90 17 15	76	Dec 8, 1985	Dec 8, 1986		
243a	UAPSP	21	Big Moose, New York	43 49 03	74 54 08	603	Oct 26, 1981	Jan 1, 1982		
243b	UAPSP	21 smpl 2	Big Moose-2, New York	43 49 03	74 54 08	603	Nov 22, 1985	Nov 26, 1986		
244a	UAPSP	22	McArthur, Ohio	39 14 06	82 28 41	224	Oct 1, 1981	Oct 1, 1982		
245a	UAPSP	19	Brookings, South Dakota	44 19 54	96 49 45	499	Oct 30, 1981	Jan 1, 1982		
245b	UAPSP	19 smpl 2	Brookings-2, South Dakota	44 19 54	96 49 45	499	Nov 18, 1981	Jan 1, 1982		
246a	UAPSP	12	Alamo, Tennessee	35 47 32	89 08 03	112	Oct 23, 1981	Oct 1, 1982		
246b	UAPSP	12 smpl 2	Alamo-2, Tennessee	35 47 32	89 08 03	112	Dec 10, 1986	Dec 14, 1987		
247a	UAPSP	17	Marshall, Texas	32 39 58	94 25 06	81	Oct 25, 1981	Jan 1, 1982		
247b	UAPSP	17 smpl 2	Marshall-2, Texas	32 39 58	94 25 06	81	Nov 23, 1984	Nov 12, 1985		
248a	UAPSP	20	Underhill Center, Vermont	44 31 42	72 52 08	442	Oct 1, 1981	Oct 1, 1982		
248b	UAPSP	20 smpl 2	Underhill Center-2, Vermont	44 31 42	72 52 08	442	Oct 9, 1983	Oct 11, 1984		
326a	UAPSP	25	Round Lake, Wisconsin	46 14 09	91 55 40	829	Jun 1, 1984	Dec 31, 1987		
326b	UAPSP	25 smpl 2	Round Lake-2, Wisconsin	46 13 24	91 56 10	320	Jan 11, 1986	Jan 10, 1987		
451a	UAPSP	24	Shawano, Wisconsin	44 42 30	88 37 28	255	Oct 13, 1984	Dec 31, 1987		
526a	UAPSP	27	Zanesville, Ohio	40 01 52	82 04 04	291	Dec 29, 1987			

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989

Page 8

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE		LAST ACTIVE DATE	
527a	UAPSP	28	Leitchfield, Kentucky	37 25 30	86 21 10	203	Dec 15,	1987		
529a	UAPSP	30	Morehead, Kentucky	38 12 10	83 31 20	277	Dec 30,	1987		
530a	UAPSP	31	Bells, Tennessee	35 44 30	89 07 03	120	Dec 14,	1987		
531a	UAPSP	32	Marion, Alabama	32 36 45	87 21 30	85	Dec 23,	1987		
532a	UAPSP	33	Morton, Mississippi	32 17 30	89 38 00	124	Dec 19,	1987		
533a	UAPSP	37	Brookings, South Dakota	44 14 50	96 49 50	499	Dec 30,	1987		
085a	APN	406JQF0	Cree Lake, Saskatchewan	57 21 00	107 08 00	497	Jul 1,	1982	Aug 11,	1983
103a	APN	8202590	Kejimkujik (b), Nova Scotia	44 26 00	65 12 00	127	May 1,	1979	Jun 30,	1983
135a	APN	6032253	ELA (b), Ontario	49 40 00	93 43 00	369	Nov 1,	1978	Mar 1,	1979
140a	APN	6050180	Algoma, Ontario	47 06 00	84 06 00	369	Sep 1,	1980	Mar 5,	1984
141a	APN	6101329	Chalk River, Ontario	46 04 00	77 24 00	122	Nov 1,	1978	Mar 1,	1979
142a	APN	6134608	Long Point, Ontario	42 36 00	80 30 00	175	Nov 1,	1978	Nov 30,	1982
143a	APN	6144586	Longwoods (a), Ontario	42 53 00	81 29 00	278	Dec 1,	1982	Sep 20,	1983
144a	APN	7042388	Montmorency, Quebec	47 19 00	71 09 00	640	Dec 1,	1980	Jul 21,	1983
145a	APN	8400406	Bay d'Espoir, Newfoundland	47 59 00	55 49 00	190	Nov 1,	1981	Jul 6,	1983
087a	APIOS-C	3011	Dorset (c), Ontario	45 13 26	78 55 52	320	May 31,	1980	Jan 5,	1982
176a	APIOS-C	1041	Colchester, Ontario	41 59 15	82 55 41	183	Sep 2,	1980	Jan 5,	1982
177a	APIOS-C	1051	Marlin, Ontario	42 14 47	82 13 30	191	Sep 2,	1980	Jan 5,	1982
178a	APIOS-C	1061	Port Stanley, Ontario	42 40 22	81 09 55	213	Sep 2,	1980	Jan 5,	1982
179a	APIOS-C	1071	Wilkesport, Ontario	42 42 11	82 21 13	183	Sep 3,	1980	Jan 5,	1982
180a	APIOS-C	1081	Alvinston, Ontario	42 49 36	81 50 04	221	Sep 5,	1980	Jan 5,	1982
181a	APIOS-C	1091	Shallow Lake, Ontario	44 34 54	81 05 24	229	Sep 30,	1980	Jan 5,	1982
182a	APIOS-C	1101	Palmerston, Ontario	43 48 19	80 54 12	389	Sep 2,	1980	Jan 5,	1982
183a	APIOS-C	1191	Huron Park, Ontario	43 17 28	81 30 03	250	Oct 2,	1981	Jan 5,	1982
184a	APIOS-C	2021	Waterloo, Ontario	43 28 39	80 35 09	343	Sep 1,	1980	Jan 5,	1982
186a	APIOS-C	3051	Milton, Ontario	43 31 05	79 55 54	221	Sep 2,	1980	Jan 5,	1982
187a	APIOS-C	3061	Uxbridge, Ontario	44 12 46	79 12 38	244	Sep 2,	1980	Jan 5,	1982
188a	APIOS-C	3071	Wilberforce, Ontario	45 00 54	78 12 58	396	Sep 2,	1980	Jan 5,	1982
189a	APIOS-C	3081	Campbellford, Ontario	44 17 28	77 47 33	175	Sep 4,	1980	Jan 5,	1982
190a	APIOS-C	3101	Coldwater, Ontario	44 37 31	79 32 08	280	Aug 31,	1981	Jan 5,	1982
191a	APIOS-C	4051	Kaleden, Ontario	44 41 31	77 09 18	244	Sep 2,	1980	Jan 5,	1982
192a	APIOS-C	4061	Smith's Falls, Ontario	44 56 41	75 57 48	122	Sep 3,	1980	Jan 5,	1982
193a	APIOS-C	4071	Dalhousie Mills, Ontario	45 19 00	74 28 13	69	Sep 3,	1980	Jan 5,	1982
194a	APIOS-C	4081	Golden Lake, Ontario	45 36 48	77 12 03	160	Sep 2,	1980	Jan 5,	1982
195a	APIOS-C	5011	McKellar, Ontario	45 30 57	79 55 19	244	Aug 25,	1980	Jan 5,	1982
196a	APIOS-C	5021	Killarney, Ontario	45 59 26	81 29 18	183	May 28,	1980	Jan 5,	1982
197a	APIOS-C	5031	Mattawa, Ontario	46 16 45	78 49 19	198	Aug 22,	1980	Jan 5,	1982
198a	APIOS-C	5041	Bear Island, Ontario	46 58 22	80 04 40	305	May 29,	1980	Jan 5,	1982
199a	APIOS-C	5051	Ramsay, Ontario	47 26 33	82 20 14	427	May 29,	1980	Jan 5,	1982
200a	APIOS-C	5061	Gowganda, Ontario	47 39 04	80 46 32	343	Jul 3,	1980	Jan 5,	1982
201a	APIOS-C	5071	Moonbeam, Ontario	49 19 16	82 08 46	244	Sep 2,	1980	Jan 5,	1982
202a	APIOS-C	5081	Attawapiskat, Ontario	52 56 00	82 24 00	9	Sep 2,	1980	Jan 5,	1982
203a	APIOS-C	5091	Whitney, Ontario	45 32 21	78 15 35	412	Sep 2,	1980	Jan 5,	1982
204a	APIOS-C	6011	Dorion, Ontario	48 50 33	88 36 45	244	Sep 2,	1980	Jan 5,	1982
205a	APIOS-C	6021	Nakina, Ontario	50 10 38	86 42 40	320	Sep 2,	1980	Jan 5,	1982
206a	APIOS-C	6031	Ear Falls, Ontario	50 38 31	93 13 13	350	Sep 2,	1980	Jan 5,	1982
207a	APIOS-C	6041	Pickle Lake, Ontario	51 27 41	90 12 04	360	Jul 26,	1980	Jan 5,	1982
208a	APIOS-C	6061	Lac Le Croix (a), Ontario	48 21 14	92 12 32	368	Dec 1,	1981	Jan 5,	1982
209a	APIOS-C	6071	Quetico Centre, Ontario	48 44 24	91 12 08	420	Nov 30,	1981	Jan 5,	1982
210a	APIOS-C	6091	Expt. Lake Area, Ontario	49 39 22	93 43 28	123	Oct 6,	1981	Jan 5,	1982
211a	APIOS-C	6101	Winisk, Ontario	55 12 00	85 08 00	9	Jul 20,	1982	Nov 1,	1982
415a	APIOS-C	5141	Turkey Lake, Ontario	47 03 15	84 24 00	472	Sep 13,	1983	Dec 15,	1984
416a	APIOS-C	6121	Geraldton, Ontario	49 48 05	86 46 00	351	Aug 16,	1983	Dec 15,	1984
417a	APIOS-C	5151	Anure Lake, Ontario	47 29 12	81 52 30	244	Jul 24,	1983	Dec 15,	1984
418a	APIOS-C	4091	Clyne, Ontario	44 49 09	77 11 45	259	Dec 4,	1984	Dec 15,	1984
452a	APIOS-C	6111	Otter Island, Ontario	48 06 50	86 04 25	204	Apr 24,	1984		
456a	APIOS-C	7011	Sutton, Quebec	45 04 35	72 40 35	290	Oct 8,	1986		
495a	APIOS-C	5161	Moosonee, Ontario	51 12 35	80 42 20	10	Oct 1,	1985		

Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 9

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE	LAST ACTIVE DATE
259a	EPA-IV	ALDENETARM	Dewey Armory, Alabama	32 34 03	85 55 54	153	Mar 30, 1982	Sep 27, 1983
260a	EPA-IV	KYGRAYSONL	Grayson, Kentucky	38 14 00	82 59 00	213	Apr 6, 1982	Sep 27, 1983
261a	EPA-IV	GAHAWASSE	Hawassee, Georgia	34 50 33	83 43 03	654	May 4, 1982	Sep 27, 1983
262a	EPA-IV	GRSUMMERVI	Summerville, Georgia	34 28 22	85 24 27	202	May 25, 1982	Sep 27, 1983
263a	EPA-IV	MSUNIVERSI	University, Mississippi	34 22 48	89 32 08	116	May 1, 1982	Sep 27, 1983
264a	EPA-IV	INCENTERHI	Center Hill, Tennessee	36 02 20	85 43 59	305	Aug 26, 1982	Sep 27, 1983
265a	EPA-IV	KYMMAMOTHC	Mammoth Cave, Kentucky	37 13 00	86 04 00	219	Oct 26, 1982	Sep 27, 1983
266a	EPA-IV	SCLONGCREE	Long Creek, South Carolina	34 48 19	83 14 17	602	Nov 9, 1982	Sep 27, 1983
267a	EPA-IV	SCDELPEROCO	Delta, South Carolina	34 32 22	81 33 40	113	Dec 14, 1982	Sep 27, 1983
413a	EPA-IV	SCCAPEROMA	Cape Romain, South Carolina	32 55 59	79 39 27	5	Aug 3, 1983	Sep 27, 1983
414a	EPA-IV	SCCON	Congaree Swamp, South Carolina	33 48 56	80 49 38	32	Sep 27, 1983	
464a	EPA-IV	ALMOB	Mobile, Alabama	30 40 07	88 13 13	8	Oct 9, 1984	
465a	EPA-IV	GADAW	Dawsonville, Georgia	00 00 00	00 00 00	314	Aug 6, 1985	
466a	EPA-IV	GADUF	McDufie, Georgia	33 53 24	83 40 34	132	Sep 18, 1985	
467a	EPA-IV	GWAY	Waycross St. Forces, Georgia	00 00 00	00 00 00	41	Oct 17, 1985	
494a	EPA-IV	GREFG	Elizabeton, GA, Georgia	99 99 99		172	Jun 3, 1986	
288a	GLAD	142360010	Evanston, Illinois	42 03 36	87 40 25	183	Jul 7, 1981	
289a	GLAD	141220043	Jardine Plant, Illinois	41 53 41	87 36 23	194	Jun 2, 1981	
290a	GLAD	141220034	South Water Plant, Illinois	41 45 25	87 32 45	187	Jun 2, 1981	
291a	GLAD	230420002	Bay City, Michigan	43 39 30	83 53 45	187	Mar 24, 1981	
292a	GLAD	230860001	Beaver Island, Michigan	45 44 30	85 30 30	183	Sep 22, 1981	
293a	GLAD	230460004	Benton Harbor, Michigan	42 07 00	86 28 30	191	Feb 3, 1981	
294a	GLAD	232740001	Cooper Harbor, Michigan	47 28 00	87 52 00	191	Jun 23, 1981	May 17, 1983
295a	GLAD	232740002	Eagle Harbor, Michigan	47 27 28	88 09 42	188	Jun 14, 1983	
296a	GLAD	232940001	Empire, Michigan	44 51 16	86 02 08	233	Jun 21, 1981	
297a	GLAD	231420008	Escanaba, Michigan	45 44 30	87 03 30	196	Jun 9, 1981	
298a	GLAD	230080001	Grand Marais, Michigan	46 40 00	85 58 00	191	Jul 14, 1981	
299a	GLAD	233660002	Mount Clemens, Michigan	42 34 00	82 50 40	176	Apr 20, 1982	
300a	GLAD	233660002	Mount Clemens, Michigan	42 37 02	82 53 25	187	Mar 24, 1981	Mar 9, 1982
301a	GLAD	233760007	Muskegon, Michigan	43 08 40	86 16 20	190	Mar 24, 1981	
302a	GLAD	234060002	Ontonagon, Michigan	46 49 20	89 38 00	194	Jul 7, 1981	
303a	GLAD	232340002	Port Austin, Michigan	44 02 50	82 59 40	185	Apr 7, 1981	
304a	GLAD	234800001	Port Sanilac, Michigan	43 26 20	82 32 32	190	Mar 17, 1981	
305a	GLAD	234110002	Tawas Point, Michigan	44 16 00	83 26 30	179	May 5, 1981	
306a	GLAD	241040029	Duluth, Minnesota	46 46 07	92 05 15	198	Jul 21, 1981	
307a	GLAD	241840016	Gooseberry Falls, Minnesota	46 24 40	91 28 48	206	Sep 22, 1981	
308a	GLAD	240900001	Gull Lake, Minnesota	46 24 40	94 21 15	383	Jan 19, 1982	
309a	GLAD	240800009	Hovland, Minnesota	47 50 50	89 57 45	224	Jul 21, 1981	
310a	GLAD	333340099	Cape Vincent, New York	44 05 30	76 20 30	80	Jan 19, 1982	
311a	GLAD	331600099	Dunkirk, New York	42 30 13	79 19 26	182	Jan 19, 1982	Sep 25, 1984
312a	GLAD	330860099	Fair Haven, New York	43 19 08	76 42 11	74	Jan 4, 1982	Nov 5, 1984
313a	GLAD	332000099	Grand Island, New York	43 03 30	78 58 00	173	Jan 19, 1982	
314a	GLAD	334720099	Olcott, New York	43 20 27	78 41 35	84	Jan 19, 1982	
315a	GLAD	335760099	Rochester, New York	43 13 48	77 34 45	81	Jan 19, 1982	
316a	GLAD	360200001	Ashatabula, Ohio	41 54 30	80 46 30	179	Jan 26, 1982	Sep 25, 1984
317a	GLAD	362100001	Fairport Harbor, Ohio	41 45 17	81 16 25	203	Jan 27, 1981	
318a	GLAD	363620014	Lorain, Ohio	41 28 20	82 08 30	192	Feb 17, 1981	
319a	GLAD	365260001	Put-in-Bay, Ohio	41 39 29	82 49 40	177	Feb 17, 1981	
320a	GLAD	365200007	Toledo, Ohio	41 41 30	83 24 32	177	Jan 27, 1981	
321a	GLAD	393060099	Erie, Pennsylvania	42 07 48	80 06 03	183	Jan 18, 1982	
322a	GLAD	510180001	Commucopia, Wisconsin	46 51 44	91 08 13	195	Feb 17, 1981	
323a	GLAD	510360001	Green Bay, Wisconsin	44 31 47	87 55 11	201	Mar 31, 1981	
324a	GLAD	513600001	Manitowoc, Wisconsin	44 03 56	87 39 23	189	Jul 7, 1981	
325a	GLAD	512200035	Milwaukee, Wisconsin	43 04 31	87 53 02	205	Mar 17, 1981	
380a	GLAD	337240099	SODUS POINT, New York	43 16 24	76 58 32	78	Nov 13, 1984	
381a	GLAD	336240099	SILVER CREEK, New York	42 34 49	79 08 02	199	Oct 16, 1984	
382a	GLAD	361480001	CONNELL, Ohio	41 57 36	80 34 23	201	Oct 2, 1984	
326a	WISC	ROUND	Round Lake, Wisconsin	46 13 24	91 56 10	320	Aug 30, 1982	Apr 9, 1983

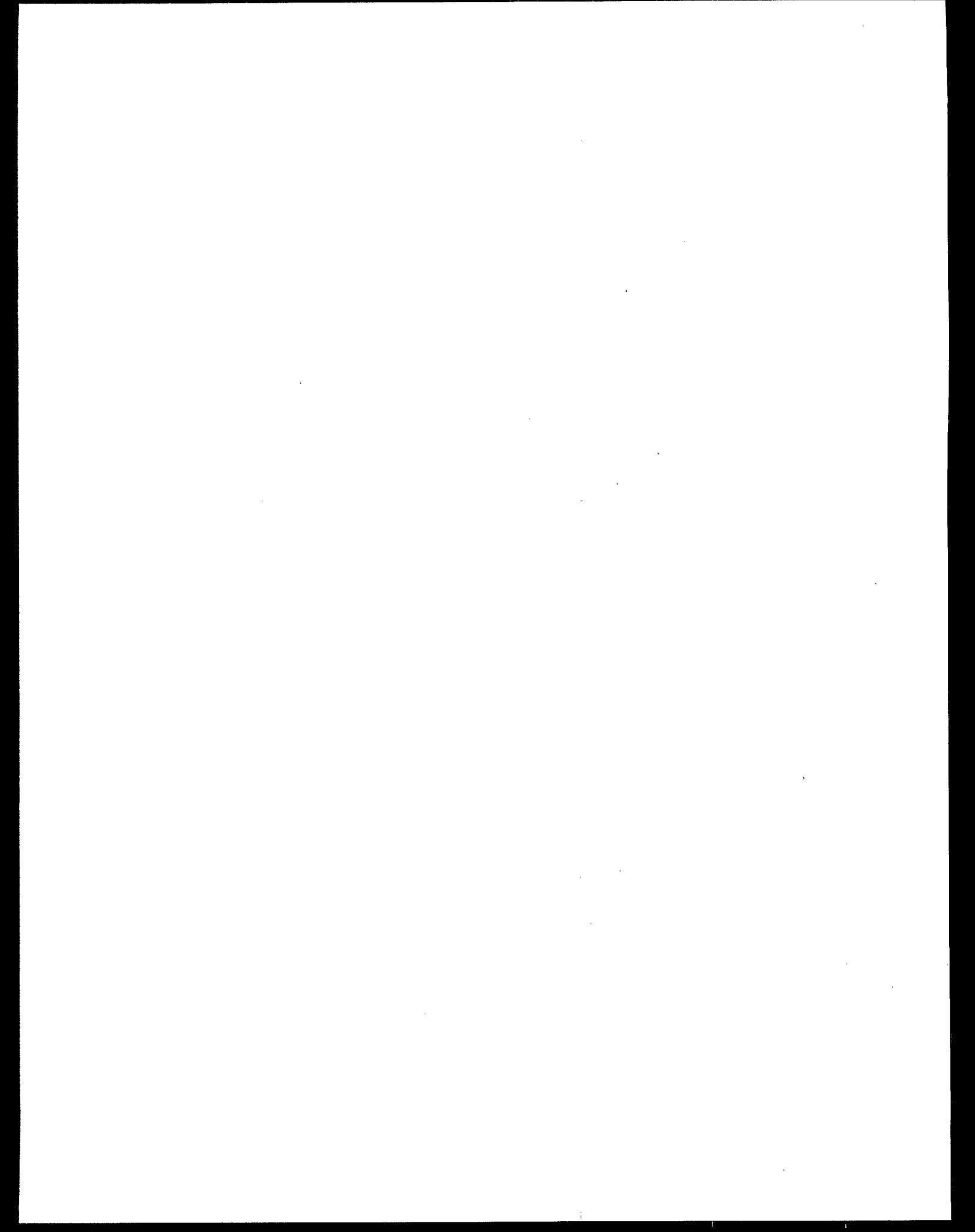
Inventory of Wet Deposition Sites in ADS
Ordered by ADS Site Identification

25-Oct-1989
Page 10

ADS SITE IDENT	NET WORK	SITE IDENT	SITE NAME	LATITUDE d m s	LONGITUDE d m s	ELEVATION (meters)	FIRST ACTIVE DATE	LAST ACTIVE DATE
327a	WISC	LEGEND	Legend Lake, Wisconsin	44 53 30	88 37 47	270	Apr 22, 1982	Apr 1, 1983
328a	WISC	GENEVA	Geneva Lake, Wisconsin	42 34 48	88 30 03	290	Mar 28, 1982	Apr 1, 1983
155a	TVA	GILES CNTY	GILES COUNTY, Tennessee	35 17 05	86 54 11	244	May 3, 1978	Nov 27, 1984
383a	TVA	ALLEN 7	ALLEN 7, Tennessee	35 05 49	90 04 56	73	Nov 28, 1978	
384a	TVA	BULL RUN 8	BULL RUN 8, Tennessee	35 58 52	84 13 32	250	Nov 30, 1978	Aug 11, 1981
385a	TVA	COLEBRT 1	COLEBRT 1, Alabama	34 46 13	87 50 09	152	Dec 26, 1978	
386a	TVA	COLEBRT 8	COLEBRT 8, Alabama	34 46 18	87 54 05	146	Dec 26, 1978	Sep 2, 1980
387a	TVA	CUMBERLA 1	CUMBERLAND 1, Tennessee	36 26 23	87 36 17	180	Jun 28, 1977	Dec 30, 1980
388a	TVA	CUMBERLA 3	CUMBERLAND 3, Tennessee	36 36 05	87 27 03	165	Jun 28, 1977	Sep 2, 1980
389a	TVA	CUMBERLA 7	CUMBERLAND 7, Tennessee	36 19 29	87 41 30	195	Jun 29, 1977	Sep 2, 1980
390a	TVA	CUMBERLA 8	CUMBERLAND 8, Tennessee	36 25 58	87 42 30	130	Jun 29, 1977	Sep 2, 1980
391a	TVA	CUMBERLA14	CUMBERLAND 14, Tennessee	36 16 20	87 45 53	195	Jun 29, 1977	Sep 2, 1980
392a	TVA	CUMBERLA16	CUMBERLAND 16, Tennessee	36 31 14	87 33 48	174	Jun 28, 1977	Sep 2, 1980
393a	TVA	CUMBERLA18	CUMBERLAND 18, Tennessee	36 27 58	87 34 52	216	Jun 28, 1977	Sep 2, 1980
394a	TVA	CUMBERLA20	CUMBERLAND 20, Kentucky	36 50 17	87 10 12	230	Jun 28, 1977	Sep 2, 1980
395a	TVA	CUMBERLA21	CUMBERLAND 21, Tennessee	36 10 13	87 50 50	115	Jul 1, 1977	Sep 2, 1980
396a	TVA	CUMBERLA22	CUMBERLAND 22, Tennessee	36 26 07	87 36 08	178	Dec 26, 1979	
397a	TVA	GALLATIN 6	GALLATIN 6, Tennessee	36 17 21	86 23 11	158	Nov 14, 1978	Mar 24, 1981
398a	TVA	JOHN SEVIER 4	JOHN SEVIER 4, Tennessee	36 26 02	85 58 40	347	Nov 28, 1978	Dec 27, 1983
399a	TVA	JOHNSONVILLE 11	JOHNSONVILLE 11, Tennessee	36 01 33	88 02 43	131	Nov 14, 1978	Mar 24, 1981
400a	TVA	KINGSTON 2	KINGSTON 2, Tennessee	35 59 17	84 32 40	317	Jan 9, 1979	Jul 14, 1981
401a	TVA	PARADISE24	PARADISE 24, Kentucky	37 11 20	86 58 38	139	Nov 21, 1978	Mar 24, 1981
402a	TVA	SHAWNEE 13	SHAWNEE 13, Kentucky	37 04 09	88 46 21	118	May 5, 1981	
403a	TVA	SHAWNEE 20	SHAWNEE 20, Kentucky	37 08 40	88 49 17	107	Dec 26, 1978	Dec 30, 1980
404a	TVA	SHAWNEE 22	SHAWNEE 22, Kentucky	37 08 18	88 48 12	113	Dec 30, 1980	May 5, 1981
405a	TVA	WATTS BAR2	WATTS BAR 2, Tennessee	35 37 46	84 46 29	238	Jan 9, 1979	Jul 14, 1981
406a	TVA	WIDOWS C3	WIDOWS CREEK 3, Alabama	34 51 31	85 43 21	469	Nov 14, 1978	Mar 24, 1981
407a	TVA	WIDOWS C9	WIDOWS CREEK 9, Alabama	34 52 04	85 43 17	457	Mar 24, 1981	
408a	TVA	WIDOWS C23	WIDOWS CREEK 23, Alabama	35 55 05	85 44 02	209	Nov 14, 1978	Mar 24, 1981
409a	TVA	HYTOP	HYTOP, Alabama	34 53 39	86 05 36	544	May 1, 1978	Oct 14, 1980
411a	TVA	LOUDON	LOUDON, Tennessee	35 38 30	84 18 45	271	May 17, 1978	Oct 9, 1980
412a	TVA	LOVES MILL	LOVES MILL, Virginia	36 44 12	81 41 13	663	May 16, 1978	Jun 26, 1979
423a	TVA	IEL	IEL, Kentucky	36 47 27	88 04 01	177	Jun 30, 1977	Oct 1, 1985
479a	TVA	JOHN SEVIER 2	JOHN SEVIER 2, Tennessee	36 23 20	82 56 03	370	Dec 27, 1983	
468a	EPA-III	DEGEO	Georgetown, Delaware	38 37 20	75 27 30	5	Jul 3, 1984	
469a	EPA-III	DELUM	Lam's Pond, Delaware	39 34 10	75 43 50	20	Jun 14, 1984	
470a	EPA-III	MORG	Rocky Gap, Maryland	39 43 12	78 38 13	378	Jul 31, 1984	
471a	EPA-III	MDSEC	The Elms, Maryland	38 12 03	76 22 30	2	Aug 28, 1984	
472a	EPA-III	WVAPC	Charleston APC, West Virginia	38 20 31	81 37 11	183	Aug 7, 1984	Feb 4, 1987
473a	EPA-III	WVGRN	Greenbrier, West Virginia	37 48 39	80 30 46	823	Aug 8, 1984	Jan 27, 1987
474a	EPA-III	WVNEW	New Manchester, West Virginia	40 31 42	80 34 32	366	Jul 17, 1985	Mar 5, 1987
475a	EPA-III	WWAR	Warwood Ave, West Virginia	40 07 14	80 41 59	212	Oct 18, 1984	Mar 5, 1987
476a	EPA-VI	LACAR	Carville, Louisiana	30 14 27	91 09 33		Feb 26, 1985	
477a	EPA-VI	LACHS	Chase, Louisiana	32 05 13	91 44 31		Mar 4, 1985	
478a	EPA-VI	LAROS	Rosepine, Louisiana	30 55 21	93 19 22		Mar 12, 1985	
508a	EPA-VIII	SDAER	Pierre, South Dakota	44 20 38	100 14 42	434	Oct 28, 1986	
508b	EPA-VIII	SDER	Pierre2, South Dakota	44 20 38	100 14 42	434	Oct 28, 1986	
509a	EPA-VIII	SDGP	Buffalo Gap, South Dakota	43 32 58	103 24 39	1024	Nov 25, 1986	Jan 21, 1987
510a	EPA-VIII	SDCUS	Custer Nat'l Park, South Dakota	00 00 00	00 00 00	0	Sep 3, 1987	

APPENDIX C

**WET DEPOSITION SITE HISTORY INVENTORY
ORDERED BY STATE AND PROVINCE**



Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 1

Alabama, NADP/NTN, Blackbelt

STATE NETWORK SITE NAME	ADS	ADS	OPERATING HISTORY														
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV START	REV END										
Alabama (1)																	
NADP/NTN (01)																	
Blackbelt (011000)	329a	32 27 30	87 14 31	58	00	8/83	5/85										
Blackbelt (011000)	329a	32 27 30	87 14 31	58	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.									
Blackbelt (011000)	329a	32 27 30	87 14 31	58	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.									
Sand Mountain Exp (011020)	432a	34 17 30	85 57 32	347	00	10/84	5/85										
Sand Mountain Exp (011020)	432a	34 17 30	85 57 32	347	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.									
Sand Mountain Exp (011020)	432a	34 17 30	85 57 32	347	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.									
UAPSP (08)																	
Marion (32)	531a	32 36 45	87 21 30	85	00	12/87		Site began collecting wet precip data for EMEFS study on 12/23/87									
Selma (15)	235a	32 28 25	87 05 03	42	00	10/81	1/82	operated under normal UAPSP sampling protocol in last quarter of 1981. Co-located sampler at this site, see 235b.									
Selma (15)	235a	32 28 25	87 05 03	42	01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82. See co-located sampler 235b.									
Salma (15)	235a	32 28 25	87 05 03	42	02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982. See co-located sampler 235b.									
Salma (15)	235a	32 28 25	87 05 03	42	03	1/83	12/87	Discontinued analysis of NITRITE, otherwise no change in protocol. See co-located sampler 235b. Co-located sampler 235b terminated on 1/21/83. This site terminated on 12/23/87.									
Salma-2 (15 smplr 2)	235b	32 28 25	87 05 03	42	00	10/81	1/82	operated under normal UAPSP sampling protocol in last quarter of 1981. See co-located sampler 235a.									
Salma-2 (15 smplr 2)	235b	32 28 25	87 05 03	42	01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82. See co-located sampler 235a.									
Salma-2 (15 smplr 2)																	

Wat Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989.
Page 2

Alabama, UAPSP, Selma-2

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	REV	START	END				
	235b	32 28 25	87 05 03	42	02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982. See co-located sampler 235a.					
Selma-2 (15 smplr 2)	235b	32 28 25	87 05 03	42	03	1/83	1/83	Discontinued analysis of NITRITE on 1/1/83. Discontinued operation of co-located sampler on 1/21/83. This ADS ident TERMINATED.					
EPA-IV (13)													
Dewey Armory (ALDEWEYARM)	259a	32 34 03	85 55 54	153	00	3/82	9/83	Samples analyzed by RTI					
Mobile (AIMOB)	464a	30 40 07	88 13 13	8	00	10/84		Samples analyzed by Global Geochem					
Tallahassee (ALTAL)	259a	32 34 03	85 55 54	153	01	9/83		Samples analyzed by Global Geochem after 9/27/83.					
TVA (16)													
COLEBERT 1 (COLEBERT 1)	385a	34 46 13	87 50 09	152	00	12/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).					
COLEBERT 8 (COLEBERT 8)	386a	34 46 18	87 54 05	146	00	12/78	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).					
HYTOP (HYTOP)	409a	34 53 39	86 05 36	544	00	5/78	10/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).					
WIDOWS CREEK 23 (WIDOWS C23)	408a	35 55 05	85 44 02	209	00	11/78	3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).					
WIDOWS CREEK 3 (WIDOWS C3)	406a	34 51 31	85 43 21	469	00	11/78	3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).					
WIDOWS CREEK 9 (WIDOWS C9)	407a	34 52 04	85 43 17	457	00	3/81		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).					
Alaska (2)													
NADP/MIN (01)													
Denali Natl Park (020390)	001a	63 43 25	148 57 50	649	00	6/80	5/85						
Denali Natl Park (020390)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 3

Alaska, NADP/NIN, Denali Natl Park

STATE NETWORK SITE NAME	ADS SITE IDENT d m s	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Denali Natl Park (020390)	001a	63 43 25	148 57 50	649	01	5/85	4/87	CL, SO ₄ , & NO ₃ analysis changed from automated wet chemistry to ion chromatography at the CAL on 5-1-85. On 7-3-85 sample collection was discontinued due to construction near the site. Operation of the raingage was continued. 10-29-85 sampling reinstated.
Denali Natl Park (020390)	001a	63 43 25	148 57 50	649	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Denali Natl Park (020390)	001a	63 43 25	148 57 50	649	03	7/87	9/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Denali Natl Park (020390)	001a	63 43 25	148 57 50	649	04	9/87		Sample analysis transferred back to CAL from EMSI.
Arizona (4) NADP/NIN (01)								
Grand Canyon (030370)	068a	36 04 17	112 09 13	2152	00	8/81	5/85	
Grand Canyon (030370)	068a	36 04 17	112 09 13	2152	01	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Grand Canyon (030370)	068a	36 04 17	112 09 13	2152	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Grand Canyon (030370)	068a	36 04 17	112 09 13	2152	03	7/87	9/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Grand Canyon (030370)	068a	36 04 17	112 09 13	2152	04	9/87		Sample analysis transferred back to CAL from EMSI.
Oliver Knoll (030360)	054a	33 04 17	109 51 53	1173	00	8/81	5/85	
Oliver Knoll (030360)	054a	33 04 17	109 51 53	1173	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Oliver Knoll (030360)	054a	33 04 17	109 51 53	1173	02	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Organ Pipe Mon. (030620)	003a	31 57 02	112 48 00	506	00	4/80	9/81	
Organ Pipe Mon. (030620)	003a	31 57 02	112 48 00	506	01	9/81	5/85	In Sept 81 site was moved approximately 70m East. No change made to NET ident or ADS ident.
Organ Pipe Mon. (030620)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 4

Arizona, NADP/NTN, Organ Pipe Mon.

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	ELEV s	REV	REV	REV	START	END				
Organ Pipe Mon. (030620)	003a	31 57 02	112 48 00	506	02	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.					
Organ Pipe Mon. (030620)	003a	31 57 02	112 48 00	506	03	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.					
Organ Pipe Mon. (030620)	003a	31 57 02	112 48 00	506	04	7/87	9/87	PO4 now determined by chromatography at the CAL on 8/7/83 - detection limit raised to 0.02 from 0.01 mg/l.					
Organ Pipe Mon. (030620)	003a	31 57 02	112 48 00	506	05	9/87		Sample analysis transferred back to CAL from EMSI.					
Tombstone (030180)	002a	31 42 32	110 03 26	1398	00	3/79	9/81	Considered by NADP to be nonstandard 9 Sept 80 - 1 Sept 81 because of discontinuous operations. TERMINATED on 9/1/81.					
Arkansas (5) NADP/NTN (01)													
Buffalo River (041620)	269a	36 05 02	92 35 13	308	00	7/82	12/83						
Buffalo River (041620)	269a	36 05 02	92 35 13	308	01	12/83	5/85	On 27 Dec 83 site moved approximately 2 km NW because of loss of ground cover and increased vehicle activity at previous location. No change made to the NET ident or ADS ident.					
Buffalo River (041620)	269a	36 05 02	92 35 13	308	02	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.					
Buffalo River (041620)	269a	36 05 02	92 35 13	308	03	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.					
Buffalo River (041620)	269a	36 05 02	92 35 13	308	04	7/87	9/87	PO4 now determined by chromatography at the CAL on 8/7/83 - detection limit raised to 0.02 from 0.01 mg/l.					
Buffalo River (041620)	269a	36 05 02	92 35 13	308	05	9/87		Sample analysis transferred back to CAL from EMSI.					
Caddo Valley (040380)	330a	34 10 46	93 05 55	71	00	12/83	10/84						
Caddo Valley (040380)	330a	34 10 46	93 05 55	71	01	10/84	5/85	Geotech collector replaced with an Aerochem Metrics on 10/30/84.					
Caddo Valley (040380)	330a	34 10 46	93 05 55	71	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.					
Caddo Valley (040380)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 5

Arkansas, NADP/NIN, Caddo Valley

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Fayetteville (042700)	330a	34 10 46	93 05 55	71	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Fayetteville (042700)	004a	36 06 02	94 10 24	391	00	5/80	5/85	
Fayetteville (042700)	004a	36 06 02	94 10 24	391	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Fayetteville (042700)	004a	36 06 02	94 10 24	391	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Warren ZWSW (040260)	268a	33 36 18	92 05 50	76	00	5/82	8/84	
Warren ZWSW (040260)	268a	33 36 18	92 05 50	76	01	8/84	5/85	Collector and raingage moved approximately 200 yards to the east on 8/28/84.
Warren ZWSW (040260)	268a	33 36 18	92 05 50	76	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Warren ZWSW (040260)	268a	33 36 18	92 05 50	76	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
California (6) NADP/NIN (01) Bishop (053460)	006a	37 22 15	118 21 59	1252	00	4/80	6/82	This site was part of the WMO network. Operations TERMINATED on 6/22/82.
Channel Islands (058500)	159a	34 00 57	119 21 43	49	00	7/80	2/82	Operations TERMINATED 2/19/82. Considered nonstandard by NADP because of irregular sampling intervals and discontinuous sampling.
Chuchupate (058501)	332a	34 48 22	119 00 41	1614	00	8/83	4/85	
Chuchupate (058501)	332a	34 48 22	119 00 41	1614	01	4/85	5/85	Geotech collector replaced with an Aerochem Metrics on 4/30/85.
Chuchupate (058501)	332a	34 48 22	119 00 41	1614	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Chuchupate (058501)	332a	34 48 22	119 00 41	1614	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Davis (058840)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 6

California, NADP/NIN, Davis

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV START	REV END	OPERATING HISTORY
Davis (058840)	009a	38 32 07	121 46 30	18 00	9/78	5/85		Discontinuous sampling May to September 1979, 1980, 1981. Historical records indicate minimal precipitation during periods of nonsampling.
Davis (058840)	009a	38 32 07	121 46 30	18 01	5/85	7/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Hopland (Ukiah) (054540)	009a	38 32 07	121 46 30	18 02	7/87			PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Hopland (Ukiah) (054540)	007a	39 00 17	123 05 05	253 00	10/79	5/85		
Hopland (Ukiah) (054540)	007a	39 00 17	123 05 05	253 01	5/85	7/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Hopland (Ukiah) (054540)	007a	39 00 17	123 05 05	253 02	7/87			PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Montague (057680)	480a	41 45 57	122 28 42	797 00	6/85	7/87		
Montague (057680)	480a	41 45 57	122 28 42	797 01	7/87			PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Palomar Mountain (056820)	331a	33 18 32	116 51 14	1695 00	3/83	5/85		
Palomar Mountain (056820)	331a	33 18 32	116 51 14	1695 01	5/85	7/88		CL, SO4, & NO3 analysis changed from automated wet chemistry to ion chromatography at the CAL on 5-1-85.
Palomar Mountain (056820)	331a	33 18 32	116 51 14	1695 02	7/87	1/88		PO4 determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l. Site discontinued 1-12-88.
Sequoia Nat. Park (057550)	008a	36 34 03	118 46 37	1902 00	7/80	7/84		
Sequoia Nat. Park (057550)	008a	36 34 03	118 46 37	1902 01	7/84	5/85		Raingage was moved from a position which was close to several trees and 25m from the collector to a position approximately 5m from the collector.
Sequoia Nat. Park (057550)	008a	36 34 03	118 46 37	1902 02	5/85	4/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Sequoia Nat. Park (057550)	008a	36 34 03	118 46 37	1902 03	4/87	7/87		Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Sequoia Nat. Park (057550)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 7

California, NADP/NIN, Sequoia Nat. Park

STATE NETWORK SITE NAME	ADS			ADS			OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV num	REV START	
Sequoia Nat. Park (057550)	008a	36 34 03	118 46 37	1902	04	7/87	9/87 PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Tanbark Flat (054200)	008a	36 34 03	118 46 37	1902	05	9/87	Sample analysis transferred back to CAL from EMSI.
Tanbark Flat (054200)	270a	34 12 26	117 45 40	853	00	1/82	5/85
Tanbark Flat (054200)	270a	34 12 26	117 45 40	853	01	5/85	7/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Yosemite (058850)	270a	34 12 26	117 45 40	853	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Yosemite (058850)	157a	37 47 49	119 51 30	1408	00	12/81	5/85
Yosemite (058850)	157a	37 47 49	119 51 30	1408	01	5/85	4/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Yosemite (058850)	157a	37 47 49	119 51 30	1408	02	4/87	7/87 Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Yosemite (058850)	157a	37 47 49	119 51 30	1408	03	7/87	9/87 PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Yosemite (058850)	157a	37 47 49	119 51 30	1408	04	9/87	Sample analysis transferred back to CAL from EMSI.
Colorado (8) NADP/NTN (01)							
Alamosa (060060)	160a	37 26 29	105 51 55	2298	00	4/80	6/82
Alamosa (060060)	160a	37 26 29	105 51 55	2298	01	6/82	8/82 Operations TERMINATED by sponsor on 15 June 1982.
Alamosa (060060)	160a	37 26 29	105 51 55	2298	02	8/82	10/83 Operations resumed on 24 Aug 1982.
Alamosa (060060)	160a	37 26 29	105 51 55	2298	03	10/83	5/85 On 18 Oct 1983 site moved 192m South away from the influence of open airport beacon tower. No change made in NET ident or ADS ident.
Alamosa (060060)	160a	37 26 29	105 51 55	2298	04	5/85	7/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Alamosa (060060)							

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 8

Colorado, NADP/NIN, Alamosa

STATE NETWORK SITE NAME	ADS						ADS												OPERATING HISTORY
	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	IDENT	d	m	s	d	m	s	m	num	START	END	
	160a	37 26 29	105 51 55	2298	05	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Buffalo Pass (061920)	335a	40 32 16	106 40 35	3234	00	2/84	5/85												
Buffalo Pass (061920)	335a	40 32 16	106 40 35	3234	01	5/85	7/87												Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Buffalo Pass (061920)	335a	40 32 16	106 40 35	3234	02	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Dry Lake (061921)	500a	40 32 05	106 46 48	2527	00	10/86	7/87												
Dry Lake (061921)	500a	40 32 05	106 46 48	2527	01	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Engineer Mountain (061980)	481a	37 39 35	107 47 57	2758	00	7/86	7/87												
Engineer Mountain (061980)	481a	37 39 35	107 47 57	2758	01	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Four Mile Park (060880)	511a	39 24 11	107 20 28	2502	00	12/87													
Las Animas (060180)	333a	38 07 04	103 18 58	1213	00	10/83	10/84												
Las Animas (060180)	333a	38 07 04	103 18 58	1213	01	10/84	5/85												Geotek collector replaced with an Aerochem Metrics on 10/4/84.
Las Animas (060180)	333a	38 07 04	103 18 58	1213	02	5/85	7/87												Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Las Animas (060180)	333a	38 07 04	103 18 58	1213	03	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Manitou (062120)	011a	39 06 04	105 05 31	2362	00	10/78	5/85												
Manitou (062120)	011a	39 06 04	105 05 31	2362	01	5/85	7/87												Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Manitou (062120)	011a	39 06 04	105 05 31	2362	02	7/87	9/87												PO4 determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l.
Manitou (062120)	011a	39 06 04	105 05 31	2362	03	9/87	12/87												Site discontinued operations temporarily due to lack of funding on 9-1-87.
Manitou (062120)																			

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 9

Colorado, NADP/NTN, Manitou

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Mesa Verde (061530)	011a	39 06 04	105 05 31	2362	04	12/87		Site reintiated sampling on 12-22-87.
Mesa Verde (061530)	029a	37 11 56	108 29 25	2172	00	4/81	5/85	
Mesa Verde (061530)	029a	37 11 56	108 29 25	2172	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Molas Pass (061981)	029a	37 11 56	108 29 25	2172	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Molas Pass (061981)	482a	37 45 08	107 41 21	3286	00	7/86	7/87	
Niwot Saddle (060220)	482a	37 45 08	107 41 21	3286	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Niwot Saddle (060220)	334a	40 03 19	105 35 18	3520	00	6/84	5/85	
Niwot Saddle (060220)	334a	40 03 19	105 35 18	3520	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Pawnee (062220)	334a	40 03 19	105 35 18	3520	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Pawnee (062220)	012a	40 48 23	104 45 17	1641	00	5/79	4/80	
Pawnee (062220)	012a	40 48 23	104 45 17	1641	01	4/80	5/85	On 22 April 80 the collector was moved closer to the rain gage. No change made to the NET ident or ADS ident.
Pawnee (062220)	012a	40 48 23	104 45 17	1641	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Pawnee (062220)	012a	40 48 23	104 45 17	1641	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Rocky Mt. Nat Park (061910)	010a	40 21 51	105 33 37	2369	00	5/80	10/83	
Rocky Mt. Nat Park (061910)	010a	40 21 51	105 34 55	2490	01	10/83	5/85	On 18 Oct 83 site was moved from HQ parking lot to a meadow about 1.8 km W and 120 m higher than previous location. No change made to NET ident or ADS ident.
Rocky Mt. Nat Park (061910)	010a	40 21 51	105 34 55	2490	02	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 10

Colorado, NADP/NIN, Rocky Mt. Nat Park

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Rocky Mt. Nat Park (061910)	010a	40 21 51	105 34 55	2490	03	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Rocky Mt. Nat Park (061910)	010a	40 21 51	105 34 55	2490	04	7/87	9/87	Sample analysis transferred back to CAL from EMSI.
Rocky Mt. Nat Park (061910)	010a	40 21 51	105 34 55	2490	05	9/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Rocky Mtn Nat'l Pa (061911)	342a	40 17 16	105 39 46	3159	00	8/83	5/85	
Rocky Mtn Nat'l Pa (061911)	342a	40 17 16	105 39 46	3159	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Rocky Mtn Nat'l Pa (061911)	342a	40 17 16	105 39 46	3159	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Sand Spring (061560)	173a	40 30 27	107 42 07	1998	00	3/79	5/85	
Sand Spring (061560)	173a	40 30 27	107 42 07	1998	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Sand Spring (061560)	173a	40 30 27	107 42 07	1998	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Sugarloaf (060221)	499a	39 59 38	105 28 48	2524	00	11/86	7/87	
Sugarloaf (060221)	499a	39 59 38	105 28 48	2524	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
UAPSP (08) Yampa (23)	236a	40 09 54	106 54 49	2390	00	8/82	10/82	Started operation in UAPSP in middle of first year.
Yampa (23)	236a	40 09 54	106 54 49	2390	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982.
Yampa (23)	236a	40 09 54	106 54 49	2390	02	12/87		UAPSP officially changed to CEN.
Yampa-2 (23 suppl 2)	236b	40 09 54	106 54 49	2390	00	1/87	6/88	Co-located on Jan 22, 1987 and terminated on June 15, 1988.
*Delaware (10) MAP3S/PCN (06) Lowes (7)	013a	38 46 00	75 00 00	0	00	2/78	11/80	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 11

Delaware, MAP3S/PCN, Lewes

STATE	ADS	ADS	OPERATING HISTORY					
NETWORK	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	
SITE NAME								
Lewes (7)	013a	38 46 00	75 00 00	0	01	11/80	7/83	On 10-Nov-80 the collector was changed to the Aerchem Metrics model 301-A2 with a surface area of 640 sq cm.
Lewes (7)	013a	38 46 00	75 00 00	0	02	7/83		Analysis methodis changed in August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES).
WAPSP (08)								
Indian River (03)	152a	38 34 50	75 14 45	6	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
Indian River (03)	152a	38 34 50	75 14 45	6	01	1/79	6/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 152b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. STATION TERMINATED June 30, 1980.
Indian River-2 (03 smplr 2)	152b	38 34 50	75 14 45	6	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
Indian River-2 (03 smplr 2)	152b	38 34 50	75 14 45	6	01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 152a. The second sampler was removed after one year, this ADS number DISCONTINUED.
EPA-III (17)								
Georgetown (DEGEO)	468a	38 37 20	75 27 30	5	00	7/84		Samples analyzed by Global Geochem
Lam's Pond (DELUM)	469a	39 34 10	75 43 50	20	00	6/84		Samples analyzed by Global Geochem
Florida (12)								
NADE/NTN (01)								
Austin-Cary Forest (100020)	014a	29 45 37	82 11 56	46	00	10/78	7/81	Operations TERMINATED on 7/14/81.
Bradford Forest (100360)	015a	29 58 29	82 11 53	44	00	10/78	2/84	
Bradford Forest (100360)	015a	29 58 29	82 11 53	44	01	2/84	11/84	Event recorder installed on the raingage on 2/28/84.
Bradford Forest (100360)	015a	29 58 29	82 11 53	44	02	11/84	1/85	Sampling discontinued due to collector malfunction; raingage data was provided during shut-down period of 11/6/84 - 1/1/85.
Bradford Forest (100360)	015a	29 58 29	82 11 53	44	03	1/85	5/85	Re-initiated sampling on 1/2/85.
Bradford Forest (100360)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 12

Florida, NADP/NIN, Bradford Forest

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV num	REV START	REV END	ADS		OPERATING HISTORY
								REV	REV	
	015a	29 58 29	82 11 53		44	04	5/85	7/87	CL, SO ₄ , & NO ₃ analysis changed from automated wet chemistry to ion chromatography at the CAL on 5/1/85. On 1/7/86 sampling was discontinued due to equipment problems. Rain gauge data was collected. On 4/29/86 sampling operations were reinitiated.	
Bradford Forest (100360)	015a	29 58 29	82 11 53		44	05	7/87			PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Everglades Nat. Pa (101190)	016a	25 23 24	80 40 48		2	00	6/80	5/85		
Everglades Nat. Pa (101190)	016a	25 23 24	80 40 48		2	01	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Everglades Nat. Pa (101190)	016a	25 23 24	80 40 48		2	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.	
Everglades Nat. Pa (101190)	016a	25 23 24	80 40 48		2	03	7/87	9/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Everglades Nat. Pa (101190)	016a	25 23 24	80 40 48		2	04	9/87			Sample analysis transferred back to CAL from EMSI.
Kennedy Space Cent (100380)	336a	28 32 34	80 38 40		2	00	8/83	5/85		
Kennedy Space Cent (100380)	336a	28 32 34	80 38 40		2	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Kennedy Space Cent (100380)	336a	28 32 34	80 38 40		2	02	7/87			PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Quincy (101400)	337a	30 32 53	84 36 03		60	00	3/84	5/85		
Quincy (101400)	337a	30 32 53	84 36 03		60	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Quincy (101400)	337a	30 32 53	84 36 03		60	02	7/87			PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Verna Wall Field (104100)	338a	27 22 48	82 17 02		25	00	8/83	12/83		
Verna Wall Field (104100)	338a	27 22 48	82 17 02		25	01	12/83	2/84	Geotech collector replaced with a used Aerochem Metrics on 12/6/83.	
Verna Wall Field (104100)										

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 13

Florida, NADP/NTN, Verna Well Field

STATE NETWORK SITE NAME	ADS						OPERATING HISTORY	
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	
Verna Well Field (104100)	338a	27 22 48	82 17 02	25	02	2/84	5/85	Used Aerochem Metrics collector replaced with a new Aerochem Metrics model 301 during week of 2/28/84 - 3/6/84.
Verna Well Field (104100)	338a	27 22 48	82 17 02	25	03	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Verna Well Field (104100)	338a	27 22 48	82 17 02	25	04	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Georgia (13)								
NADP/NTN (01)								
Bellville (112040)	339a	32 08 28	81 58 17	62	00	4/83	5/85	
Bellville (112040)	339a	32 08 28	81 58 17	62	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Bellville (112040)	339a	32 08 28	81 58 17	62	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Fort Frederica Nat (112380)	483a	31 13 31	81 23 32	2	00	9/85	7/87	
Fort Frederica Nat (112380)	483a	31 13 31	81 23 32	2	01	7/87	11/87	PO4 determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l.
Fort Frederica Nat (112380)	483a	31 13 31	81 23 32	2	02	11/87	12/87	Site discontinued operations temporarily due to lack of funding on 11-10-87.
Fort Frederica Nat (112380)	483a	31 13 31	81 23 32	2	03	12/87		Site re-initiated sampling on 12-15-87.
Georgia Station (114140)	017a	33 10 40	84 24 22	270	00	10/78	5/85	
Georgia Station (114140)	017a	33 10 40	84 24 22	270	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Georgia Station (114140)	017a	33 10 40	84 24 22	270	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Tifton, ARS (115000)	340a	31 28 23	83 31 59	104	00	10/83	7/84	
Tifton, ARS (115000)	340a	31 28 23	83 31 59	104	01	7/84	5/85	Geotech collector replaced with an Aerochem Metrics on 7/31/84.
Tifton, ARS (115000)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 14

Georgia, NADP/NIN, Tifton, ARS

STATE	ADS	ADS							OPERATING HISTORY	
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV			
SITE NAME	IDENT	d m s	d m s	m	num	START	END			
Tifton, ARS (115000)	340a	31 28 23	83 31 59	104	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
UAPSP (08)	340a	31 28 23	83 31 59	104	03	7/87		PO4 now determined by chromatography at the CAL on 8/7/83 - detection limit raised to 0.02 from 0.01 mg/l.		
Uvalda (14)	237a	32 03 18	82 28 25	64	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.		
Uvalda (14)	237a	32 03 18	82 28 25	64	01	10/82	12/84	Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 237b started operation on 10/9/83. Co-located sampler 237b terminated on 8/1/84.		
Uvalda (14)	237a	32 01 59	82 29 24	67	02	12/84	12/87	Site moved a short distance. Lat, long, and elevation_meters changed.		
Uvalda (14)	237a	32 01 59	82 29 24	67	03	12/87		UAPSP officially changed to OEN.		
Uvalda-2 (14 smpl 2)	237b	32 03 18	82 28 25	64	00	10/83	8/84	Start of operation as co-located sampler to site 237a on 10/9/83. Co-located sampler operation discontinued on 8/1/84. This ADS ident TERMINATED.		
EPA-IV (13)										
Dawsonville (GADAW)	465a	00 00 00	00 00 00	314	00	8/85		Samples analyzed by Global Geochem.		
Elanton, GA (GAEEFG)	494a	99 99 99		172	00	6/86		Samples analyzed by Global Geochem		
Hawassee (GAHAWASSE)	261a	34 50 33	83 43 03	654	00	5/82	9/83	Samples analyzed by RTI		
Hawassee (GAHW)	261a	33 53 24	83 40 24	654	01	9/83		Samples analyzed by Global Geochem after 9/27/83.		
McDuffie (GADUF)	466a	33 53 24	83 40 34	132	00	9/85		Samples analyzed by Global Geochem		
Summerville (GASUMMERVI)	262a	34 28 22	85 24 27	202	00	5/82	9/83	Samples analyzed by RTI		
Summerville (GASUM)	262a	34 28 21	85 24 27	202	01	9/83		Samples analyzed by Global Geochem after 9/27/83.		
Waycross St. Fores (GAWAY)	467a	00 00 00	00 00 00	41	00	10/85		Samples analyzed by Global Geochem		
Hawaii (15)										
NADP/NIN (01)										
Mauna Loa (120080)	018a	19 32 21	155 34 45	3399	00	6/80	5/85			
Mauna Loa (120080)										

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 15

Hawaii, NADP/NIN, Mauna Loa

STATE	ADS	ADS	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	IDENT	d	m	s	d	m	s	m	num	START	END	OPERATING HISTORY
NETWORK			SITE NAME																		
Mauna Loa (120080)	018a	19 32 21 155 34 45	3399	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.														
	018a	19 32 21 155 34 45	3399	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.															
Idaho (16)																					
NADP/NIN (01)																					
Crater of the Moon (130340)	019a	43 27 41 113 33 17	1807	02	6/85	7/87	Collector and raingage were moved 800 meters to ESE on 6/04/85. No change to NET ident or ADS ident.														
Crater of the Moon (130340)	019a	43 27 41 113 33 17	1807	03	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.															
Craters of Moon (130340)	019a	43 27 41 113 33 17	1807	00	8/80	5/85	considered nonstandard by NADP through December 1980, because of irregular sampling intervals.														
Craters of Moon (130340)	019a	43 27 41 113 33 17	1807	01	5/85	6/85	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.														
Headquarters (130480)	271a	46 37 40 115 49 10	969	00	7/82	5/85															
Headquarters (130480)	271a	46 37 40 115 49 10	969	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.														
Headquarters (130480)	271a	46 37 40 115 49 10	969	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.															
Reynolds Creek (131180)	341a	43 12 19 116 44 57	1198	00	11/83	5/85															
Reynolds Creek (131180)	341a	43 12 19 116 44 57	1198	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.														
Reynolds Creek (131180)	341a	43 12 19 116 44 57	1198	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.															
Smiths Ferry (131500)	433a	44 17 52 116 03 49	1442	00	10/84	5/85															
Smiths Ferry (131500)	433a	44 17 52 116 03 49	1442	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.														

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 16

Idaho, NADP/NIN, Smiths Ferry

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV	rev	REV	REV	START		END
Smiths Ferry (131500)	433a	44	17	52	116	03	49	1442	02	7/87				PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Illinois (17)														
NADE/NIN (01)														
Argonne (141980)	021a	41	42	04	87	59	43	229	00	3/80	5/80			
Argonne (141980)	021a	41	42	04	87	59	43	229	01	5/80	4/84	On 25 May 80 site moved 400m W. No change made to NET ident or ADS ident.		
Argonne (141980)	021a	41	42	04	87	59	43	229	02	4/84	5/85	Belfort weighing recording raingage with event recorder installed on 4/3/84. It is located approximately 30 ft North of collector to replace Bendix-Friez model 775-8 which was located 400 m from collector.		
Argonne (141980)	021a	41	42	04	87	59	43	229	03	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Argonne (141980)	021a	41	42	04	87	59	43	229	04	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.		
Bondville (141160)	020a	40	03	12	88	22	19	212	00	2/79	5/85	See co-located sites 020b and 020c. NADP/NIN comparison site with NET ident 141161, ADS ident 020c. Comparison involves comparability of Geotech and Aerchem Metrics Wet/Dry collectors.		
Bondville (141160)	020a	40	03	12	88	22	19	212	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Bondville (141160)	020a	40	03	12	88	22	19	212	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.		
Bondville intercom (141161)	020b	40	03	12	88	22	19	212	00	9/83	11/84	See co-located sites 020a and 020b. NADP/NIN comparison site with NET ident 141160, ADS ident 020a. Comparison involves comparability of Geotech and Aerchem Metrics Wet/Dry collectors. TERMINATED on Nov 27, 1984.		
Dixon Springs (146340)	023a	37	26	08	88	40	19	161	00	1/79	5/85			
Dixon Springs (146340)	023a	37	26	08	88	40	19	161	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		

Wet Deposition Site History Inventory
Ordered by State and Province

Illinois, NADP/NTN, Dixon Springs

25-Oct-1989
Page 17

STATE	NETWORK	SITE NAME	ADS IDENT	ADS d m s	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
		Dixon Springs (146340)	023a	37 26 08	88 40 19		161	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
		Mormouth (147860)	443a	40 56 00	90 43 23		0	00	1/85	5/85	
		Mormouth (147860)	443a	40 56 00	90 43 23		0	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
		Mormouth (147860)	443a	40 56 00	90 43 23		0	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
		Salem (144740)	161a	38 38 36	88 58 01		173	00	4/80	4/81	
		Salem (144740)	161a	38 38 36	88 58 01		173	01	4/81	11/81	From 14 Apr 1981 to 3 Nov 1981 all chemistry analysis values were excluded (NS) due to a faulty collector lid seal.
		Salem (144740)	161a	38 38 36	88 58 01		173	02	11/81	5/85	On 30 Oct 81 a Belfort weighing recording raingage was installed 10 ft NW of and to replace an 8-inch stick or standard gage. No change made to NET ident or ADS ident.
		Salem (144740)	161a	38 38 36	88 58 01		173	03	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
		Salem (144740)	161a	38 38 36	88 58 01		173	04	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
		Shabbona (141800)	024a	41 50 29	88 51 04		265	00	5/81	5/85	
		Shabbona (141800)	024a	41 50 29	88 51 04		265	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
		Shabbona (141800)	024a	41 50 29	88 51 04		265	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
		Southern Ill U (143580)	022a	37 42 36	89 16 08		146	00	7/79	5/85	
		Southern Ill U (143580)	022a	37 42 36	89 16 08		146	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
		Southern Ill U (143580)									

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 18

Illinois, NADP/NIN, Southern Ill U

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev	REV	REV	START	END	
	022a	37	42	36	89	16	08	146	02	7/87				PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
MAP3S/PCN (06)														
Illinois (5)	020a	40	03	12	88	22	19	212	00	11/77	2/80	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.		
Illinois (5)	020a	40	03	12	88	22	19	212	01	2/80	1/82	On 16-Feb-80 the collector was changed to the HASL model with surface area = 325 sq cm.		
Illinois (5)	020a	40	03	12	88	22	19	212	02	1/82	8/83	On 5-Jan-82 the collector was changed to the Aerochem Metrics model 301-A2 with surface area = 640 sq cm.		
Illinois (5)	020a	40	03	12	88	22	19	212	03	8/83		Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES).		
GLAD (14)														
Evanston (142360010)	288a	42	03	36	87	40	25	183	00	7/81				
Jardine Plant (141220043)	289a	41	53	41	87	36	23	194	00	6/81				
South Water Plant (141220034)	290a	41	45	25	87	32	45	187	00	6/81				
Indiana (18)														
NADP/NIN (01)														
Huntington (152020)	343a	40	50	24	85	27	50	244	00	8/83	5/85			
Huntington (152020)	343a	40	50	24	85	27	50	244	01	5/85	5/85	Chloride, sulfate and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Huntington (152020)	343a	40	50	24	85	27	50	244	02	5/85	7/87	Geotech collector replaced with an Aerochem Metrics at approximately 10 a.m. on 5/29/85.		
Huntington (152020)	343a	40	50	24	85	27	50	244	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.		
Indiana Dunes (153420)	025a	41	37	57	87	05	16	208	00	7/80	3/81	On 17 March 1981 site moved 62m South off of a roof to ground level. NET ident and ADS ident were not changed.		
Indiana Dunes (153420)	025a	41	37	57	87	05	16	208	01	3/81	5/85	Sampler was located on a nearby roof prior to 3/17/81. Sampling did not start in current location until 3/19/81.		
Indiana Dunes (153420)														

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 19

Indiana, NADP/NIN, Indiana Dunes

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev	REV	REV	START	END			
Indiana Dunes (153420)	025a	41	37	57	87	05	16	208	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Purdue U Ag Farm (154100)	025a	41	37	57	87	05	16	208	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Purdue U Ag Farm (154100)	272a	40	28	31	86	59	32	215	00	7/82	5/85		
Purdue U Ag Farm (154100)	272a	40	28	31	86	59	32	215	01	5/85	3/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Purdue U Ag Farm (154100)	272a	40	28	31	86	59	32	215	02	3/87	7/87	Site was moved 550 meters WNW of the previous location.	
Purdue U Ag Farm (154100)	272a	40	28	31	86	59	32	215	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Southwest Purdue (152260)	420a	38	44	27	87	29	08	134	00	9/84	5/85		
Southwest Purdue (152260)	420a	38	44	27	87	29	08	134	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Southwest Purdue (152260)	420a	38	44	27	87	29	08	134	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
UAPSP (08) Fort Wayne (07 smplr 2)	156a	41	02	39	85	19	08	244	00	8/78	1/79	Start up phase for this EPRI/SURE site. DO NOT USE DATA	
Fort Wayne (07)	156a	41	02	39	85	19	08	244	01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 156b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.	
Fort Wayne (07)	156a	41	02	39	85	19	08	244	02	10/81	1/82	Transferred operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.	
Fort Wayne (07)	156a	41	02	39	85	19	08	244	03	1/82	10/82	UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.	
Fort Wayne (07)	156a	41	02	39	85	19	08	244	04	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.	
Fort Wayne (07)	156a	41	02	39	85	19	08	244	05	1/83	12/87	Discontinued analysis of NITRITE, otherwise no change in protocol	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 20

Indiana, UAPSP, Fort Wayne

STATE NETWORK SITE NAME	ADS								OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV num	REV START	REV END		
Fort Wayne-2 (07 smplr 2)	156a	41 02 39	85 19 08	244	06	12/87		UAPSP officially changed to CEN.	
Fort Wayne-2 (07 smplr 2)	156b	41 02 39	85 19 08	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Rockport (05)	154a	37 52 50	87 07 47	131	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Rockport (05)	154a	37 52 50	87 07 47	131	01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 156a. The second sampler was removed after one year, this ADS number DISCONTINUED.	
Rockport (05)	154a	37 52 50	87 07 47	131	02	10/81	10/82	Transferred operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol beginning the last quarter of 1981.	
Rockport (05)	154a	37 52 50	87 07 47	131	03	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. Site terminated on Dec 15, 1987.	
Rockport-2 (05 smplr 2)	154b	37 52 50	87 07 47	131	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Rockport-2 (05 smplr 2)	154b	37 52 50	87 07 47	131	01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 154a. The second sampler was removed after one year, this ADS number DISCONTINUED.	
Iowa (19) NAIP/MTN (01)									
Big Springs Fish H (160880)	421a	42 54 35	91 28 12	229	00	8/84	5/85		
Big Springs Fish H (160880)	421a	42 54 35	91 28 12	229	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Big Springs Fish H (160880)	421a	42 54 35	91 28 12	229	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
McNay Research Sta (162320)	422a	40 57 47	93 23 33	320	00	9/84	5/85		
McNay Research Sta (162320)	422a	40 57 47	93 23 33	320	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	

**Wet Deposition Site History Inventory
Ordered by State and Province**

25-Oct-1989
Page 21

Iowa, NADP/NTN, McNay Research Sta

STATE	ADS	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	OPERATING HISTORY
NETWORK		IDENT	d m s	d m s	m	mm	START	END	
SITE NAME									
McNay Research Sta (162320)	422a	40 57 47	93 23 33		320	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Kansas (20)									
NADP/NIN (01)									
Farlington (170740)	344a	37 39 04	94 48 13		281	00	3/84	5/85	
Farlington (170740)	344a	37 39 04	94 48 13		281	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Farlington (170740)	344a	37 39 04	94 48 13		281	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Konza Prairie (173120)	273a	39 06 08	96 36 33		350	00	8/82	5/85	
Konza Prairie (173120)	273a	39 06 08	96 36 33		350	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Konza Prairie (173120)	273a	39 06 08	96 36 33		350	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Scott Lake (173280)	345a	38 40 18	100 54 59		863	00	3/84	5/85	
Scott Lake (173280)	345a	38 40 18	100 54 59		863	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Scott Lake (173280)	345a	38 40 18	100 54 59		863	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
UAPSP (08)									
Lancaster (18)	238a	39 34 10	95 18 17		346	00	11/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
Lancaster (18)	238a	39 34 10	95 18 17		346	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 238b started operation on 10/12/83. Co-located sampler 238b terminated on 10/17/84.
Lancaster (18)	238a	39 34 10	95 18 17		346	02	12/87		UAPSP officially changed to CEN.
Lancaster-2 (18 smplcr 2)	238a	39 34 10	95 18 17		346				

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 22

Kansas, UAPSP, Lancaster-2

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV num	START	END	
	238b	39	34	10	95	18	17	346	00	10/83	10/84	Start of operation as co-located sampler to site 238a on 10/12/83. Co-located sampler operation discontinued on 10/17/84. This ADS ident TERMINATED.	
Kentucky (21) NAEP/NIN (01)													
Clark State Fish H (183560)	348a	38	07	06	83	32	49	204	00	8/83	11/84		
Clark State Fish H (183560)	348a	38	07	06	83	32	49	204	01	11/84	5/85	Gectech collector replaced with an Aerochem Metrics on 11/27/84.	
Clark State Fish H (183560)	348a	38	07	06	83	32	49	204	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Clark State Fish H (183560)	348a	38	07	06	83	32	49	204	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Land Between the L (183860)	423a	36	47	26	88	04	02	181	00	10/84	5/85	Collocated with TVA site 423b starting 10/2/84.	
Land Between the L (183860)	423a	36	47	26	88	04	02	181	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Land Between the L (183860)	423a	36	47	26	88	04	02	181	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Lilley Cornett Woo (182260)	347a	37	04	40	82	59	37	335	00	9/83	5/85		
Lilley Cornett Woo (182260)	347a	37	04	40	82	59	37	335	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Lilley Cornett Woo (182260)	347a	37	04	40	82	59	37	335	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Perryville (180360)	346a	37	40	38	84	58	23	279	00	11/83	5/85		
Perryville (180360)	346a	37	40	38	84	58	23	279	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Perryville (180360)	346a	37	40	38	84	58	23	279	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
UAPSP (08) Clearfield (11)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 23

Kentucky, UAPSP, Clearfield

STATE	ADS	ADS	OPERATING HISTORY																
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	IDENT	d	m	s	d	m	s	m	num	START	END	
	239a	38 08 10	83 27 17	235	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.											
Clearfield (11)	239a	38 08 10	83 27 17	235	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 239b began operation on 6/25/85. Site terminated on December 30, 1987.											
Clearfield-2 (11 smplr 2)	239b	38 08 10	83 27 17	235	00	6/85	6/86	Start of operation as co-located sampler to site 239a on 6/25/85.											
Leitchfield (28)	527a	37 25 30	86 21 10	203	00	12/87		Site began collecting wet precip data for EMEPS study on 12/15/87											
Morehead (30)	529a	38 12 10	83 31 20	277	00	12/87		Site began collecting wet precip data for EMEPS study on 12/30/87											
EPA-IV (13)	260a	38 14 00	82 59 00	213	00	4/82	9/83	Samples analyzed by RTI											
Grayson (KYGRAYSONL)	260a	38 14 00	82 59 00	213	01	9/83		Samples analyzed by Global Geochem after 9/27/83.											
Grayson Lake (KYGRA)	265a	37 13 00	86 04 00	219	00	10/82	9/83	Samples analyzed by RTI											
Mammoth Cave (KYMAMMOTHC)	265a	37 13 00	86 04 00	219	01	9/83		Samples analyzed by Global Geochem after 9/27/83.											
Mammoth Cave (KYMAM)	394a	36 50 17	87 10 12	230	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).											
TVA (16)	423a	36 47 27	88 04 01	177	00	6/77	10/85	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly). Collocated with NADP/NTN site 423a starting 10/2/84.											
CUMBERLAND 20 (CUMERL20)	401a	37 11 20	86 58 38	139	00	11/78	3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).											
LBL (LBL)	402a	37 04 09	88 46 21	118	00	5/81		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).											
PARADISE 24 (PARADISE24)	403a	37 08 40	88 49 17	107	00	12/78	12/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).											
SHAWNEE 13 (SHAWNEE 13)																			
SHAWNEE 20 (SHAWNEE 20)																			
SHAWNEE 22 (SHAWNEE 22)																			

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 24

Kentucky, TVA, SHAWNEE 22

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY	
	404a	37 08 18	88 48 12	113	00	12/80	5/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
Louisiana (22)									
NADE/NIN (01)									
Iberia (191260)	275a	29 55 47	91 42 55		6	00	11/82	5/85	
Iberia (191260)	275a	29 55 47	91 42 55		6	01	5/85	7/87	CL, SO ₄ , & NO ₃ analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985. Site discontinued operations on 1-26-88.
Iberia (191260)	275a	29 55 47	91 42 55		6	02	7/87	1/88	PO ₄ determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l. Site discontinued on 1-26-88.
N La Hill Farm (190620)	274a	32 45 05	93 03 02		88	00	11/82	5/85	
N La Hill Farm (190620)	274a	32 45 05	93 03 02		88	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
N La Hill Farm (190620)	274a	32 45 05	93 03 02		88	02	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Southeast (193060)	349a	30 48 41	90 10 51		48	00	1/83	5/85	
Southeast (193060)	349a	30 48 41	90 10 51		48	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Southeast (193060)	349a	30 48 41	90 10 51		48	02	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
EPA-VI (18)									
Carville (IACAR)	476a	30 14 27	91 09 33		00	2/85			Samples analyzed by Global Geochem
Chase (LACHS)	477a	32 05 13	91 44 31		00	3/85			Samples analyzed by Global Geochem
Rosepine (IAROS)	478a	30 55 21	93 19 22		00	3/85			Samples analyzed by Global Geochem
Maine (23)									
NADE/NIN (01)									
Acadia < 11/81 (200010)	162a	44 24 30	68 14 46		37	00	11/80	11/81	On 3 Nov 1981, site moved 4 km SSW and 85 meters higher. The NET ident was changed to 200011 and the ADS ident was changed to 257a00.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 25

Maine, NADP/NTN, Acadia > 11/81

STATE NETWORK SITE NAME	ADS SITE IDENT LATITUDE d m s LONGITUDE d m s ELEV m	ADS REV num START END	OPERATING HISTORY
Acadia > 11/81 (200011)	257a 44 22 26 68 15 38	129 00 11/81 6/84	This site was identified as NET ident 200010 and ADS ident 162a00 prior to 3 Nov 1981.
Acadia > 11/81 (200011)	257a 44 22 26 68 15 38	129 01 6/84 5/85	Raingage was moved during the week of 6/5/84 - 6/12/84 from a position 2 m from the collector to a position 8.5 m from the collector to comply with site visit recommendations.
Acadia > 11/81 (200011)	257a 44 22 26 68 15 38	129 02 5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Acadia > 11/81 (200011)	257a 44 22 26 68 15 38	129 03 7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Bridgton (200277)	164a 44 06 27 70 43 44	222 00 9/80 5/85	
Bridgton (200277)	164a 44 06 27 70 43 44	222 01 5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Bridgton (200277)	164a 44 06 27 70 43 44	222 02 7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Caribou (a) (200045)	163a 46 52 08 68 00 53	191 00 4/80 5/85	NADP comparison site with CANSEP network April 1981 - April 1984. See ADS ident 163b. Comparison involves comparability of U. S. and Canadian data.
Caribou (a) (200045)	163a 46 52 08 68 00 53	191 01 5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Caribou (a) (200045)	163a 46 52 08 68 00 53	191 02 7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Greenville Station (200935)	030a 45 29 23 69 39 52	322 00 11/79 7/80	
Greenville Station (200935)	030a 45 29 23 69 39 52	322 01 7/80 10/84	On 15 July 80 a Belfort weighting and recording rain gage was installed. Prior to this date there was no gage on the site.
Greenville Station (200935)			

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 26

Maine, NADP/NIN, Greenville Station

STATE	ADS	ADS										
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	OPERATING HISTORY				
SITE NAME	IDENT	d m s	d m s	m	nam	START	END					
	030a	45 29 23	69 39 52	322	02	10/84	5/85					
Greenville Station (200935)	030a	45 29 23	69 39 52	322	03	5/85	7/87	During the week of 10/16/84 - 10/23/84 the collector was relocated 6 m north of previous location to comply with site visitation recommendations. Collector is now 6 m from the raingage with no overhead obstructions.				
Greenville Station (200935)	030a	45 29 23	69 39 52	322	04	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				
Presque Isle (200046)	436a	46 39 17	68 00 32	186	00	6/84	5/85					
Presque Isle (200046)	436a	46 39 17	68 00 32	186	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Presque Isle (200046)	436a	46 39 17	68 00 32	186	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				
CANSAP (05) Caribou (b) (13 000)	163a	46 52 08	68 00 55	191	00	4/80		See co-located NADP site 163a.				
UAPSP (08) Winterport (13)	240a	44 37 05	68 58 30	67	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.				
Winterport (13)	240a	44 37 05	68 58 30	67	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 240b began operations on 10/29/84.				
Winterport (13)	240a	44 37 05	68 58 30	67	02	12/87		UAPSP officially changed to CEN.				
Winterport-2 (13 smpl 2)	240b	44 37 05	68 58 30	67	00	10/84	11/85	Start of operation as co-located sampler to site 240a on 10/29/84.				
Maryland (24) NADP/NIN (01) White Rock (210360)	424a	39 24 32	76 59 43	172	00	10/84	5/85					
White Rock (210360)	424a	39 24 32	76 59 43	172	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
White Rock (210360)	424a	39 24 32	76 59 43	172	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 27

Maryland, NADP/NIN, Wye

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	ADS			OPERATING HISTORY
					rev	REV	REV	
Wye (211320)	350a	38 54 47	76 09 09		6 00	3/83	5/85	
Wye (211320)	350a	38 54 47	76 09 09		6 01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Wye (211320)	350a	38 54 47	76 09 09		6 02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
EPA-III (17) Rocky Gap (MDRGP)	470a	39 43 12	.78 38 13	378	00	7/84		Samples analyzed by Global Geochem
The Elms (MD3EC)	471a	38 12 03	76 22 30		2 00	8/84		Samples analyzed by Global Geochem
Massachusetts (25) NADP/NIN (01) East (221325)	277a	42 23 02	71 12 53	18	00	2/82	5/85	
East (221325)	277a	42 23 02	71 12 53		18 01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
East (221325)	277a	42 23 02	71 12 53		18 02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
NACL (220155)	251a	41 58 33	70 01 29	41	00	12/81	9/82	Collector located on rooftop.
NACL (220155)	251a	41 58 33	70 01 29		41 01	9/82	5/85	On 23 Sept 1982 site moved off rooftop to ground level. No change made to NET ident or ADS ident.
NACL (220155)	251a	41 58 33	70 01 29		41 02	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
NACL (220155)	251a	41 58 33	70 01 29		41 03	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
NACL (220155)	251a	41 58 33	70 01 29		41 04	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
NACL (220155)	251a	41 58 33	70 01 29		41 05	9/87		Sample analysis transferred back to CAL from EMSI.
Quabbin Reservoir (220815)	276a	42 23 33	72 20 40	283	00	3/82	11/84	
Quabbin Reservoir (220815)	276a	42 23 33	72 20 40		283 01	11/84	5/85	On 11/20/84 the collector and raingage were moved approximately 5 km northeast of previous location.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 28

Massachusetts, NADP/NTN, Quabbin Reservoir

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV START	REV END	OPERATING HISTORY	
Quabbin Reservoir (220815)	276a	42 23 33	72 20 40	283	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Quabbin Reservoir (220815)	276a	42 23 33	72 20 40	283	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
UAPSP (08) Montague (01)	149a	42 32 00	72 32 08	73	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Montague (01)	149a	42 32 00	72 32 08	73	01	1/79	7/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 149b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. Sampler moved to ADS location 150a on 1-Aug-80. Site 149a TERMINATED.	
Montague-2 (01 smpl 2)	149b	42 32 00	72 32 08	73	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Montague-2 (01 smpl 2)	149b	42 32 00	72 32 08	73	01	1/79	12/79	12/79 EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 149a. The second sampler was removed after one year, this ADS number DISCONTINUED.	
Turners Falls (01)	150a	42 35 50	72 32 55	98	00	8/80	10/81	EPRI/SURE site moved from 149a on 1-Aug-80	
Turners Falls (01)	150a	42 35 50	72 32 55	98	01	10/81	10/82	Transferred operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.	
Turners Falls (01)	150a	42 35 50	72 32 55	98	02	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. UAPSP officially changed to CEN.	
Turners Falls (01)	150a	42 35 50	72 32 55	98	03	12/87	1/88	This site terminated on 1/11/88.	
Michigan (26) NADP/NTN (01) Chassell (232241)	258a	47 06 17	88 33 05	277	00	2/83	5/85	This site was identified as NET ident 232240 and ADS ident 165a00 prior to 15 Feb 1983.	
Chassell (232241)	258a	47 06 17	88 33 05	277	01	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Chassell (232241)	258a	47 06 17	88 33 05	277	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 29

Michigan, NADP/NTN, Chassell

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Chassell (232241)	258a	47 06 17	88 33 05	277	03	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Chassell (232241)	258a	47 06 17	88 33 05	277	04	9/87		Sample analysis transferred back to CAL from EMSL.
Douglas Lake (230920)	031a	45 33 39	84 40 42	238	00	7/79	5/85	NADP comparison site with CANSAP network April 1981 - April 1984. See ADS ident 031b. Comparison involves the comparability of US and Canadian data.
Douglas Lake (230920)	031a	45 33 39	84 40 42	238	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Douglas Lake (230920)	031a	45 33 39	84 40 42	238	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Houghton (232240)	165a	47 13 37	88 37 51	193	00	10/80	2/83	On 15 Feb 1983, site moved 13 km SE. The NET ident was changed to 232241, the ADS ident to 258a00 and the SITE names to Chassell. This site was considered nonstandard by NADP because of discontinuous sampling. Collector was moved each year to 026a from May to November.
Isle Royal Park (232570)	026a	47 54 43	89 09 10	209	00	8/80	10/84	Site closed from Nov through April every year. The site is considered nonstandard. Collector moved annually to site 165a from Nov to May in 80, 81, & 82. Site terminated 10/22/84.
Isle Royale Nat'l (232571)	484a	48 03 27	88 38 03	201	00	5/85	4/87	
Isle Royale Nat'l (232571)	484a	48 03 27	88 38 03	201	01	4/87	7/87	Sample analysis transferred from CAL to EMSL. Data currently being reviewed.
Isle Royale Nat'l (232571)	484a	48 03 27	88 38 03	201	02	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Isle Royale Nat'l (232571)	484a	48 03 27	88 38 03	201	03	9/87		Sample analysis transferred back to CAL from EMSL.
Kellogg (232660)	032a	42 24 37	85 23 34	288	00	6/79	5/85	
Kellogg (232660)	032a	42 24 37	85 23 34	288	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Kellogg (232660)								

Wet Deposition Site History Inventory
Ordered by State and Province

, 25-Oct-1989
Page 30

Michigan, NADP/NIN, Kellogg

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV START	REV END	
Raco (230980)	032a	42	24	37	85	23	34	288	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Raco (230980)	351a	46	22	27	84	44	29	262	00	5/84	5/85	
Raco (230980)	351a	46	22	27	84	44	29	262	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Raco (230980)	351a	46	22	27	84	44	29	262	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Wellston (235340)	033a	44	13	26	85	49	05	292	00	10/78	9/83	
Wellston (235340)	033a	44	13	26	85	49	05	292	01	9/83	5/85	On 27 Sept 83 the collector was moved to about 10m from the rain gage. No change made to the NET ident or ADS ident.
Wellston (235340)	033a	44	13	26	85	49	05	292	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Wellston (235340)	033a	44	13	26	85	49	05	292	03	7/87	9/87	PO4 determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l.
Wellston (235340)	033a	44	13	26	85	49	05	292	04	9/87		Site was moved 33 meters N of the previous location on 9-29-87.
CANSAP (05) Pellston (13 020)	031a	45	33	40	84	40	42	233	00	7/79	1/80	This site is part of an International study using co-located samplers, see 031a. Collector: Sangamo model C.
Pellston (13 020)	031a	45	33	40	84	40	42	233	01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located NADP site 031a.
UAPSP (08) Gaylord (10)	241a	44	56	58	84	38	30	473	00	11/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.
Gaylord (10)	241a	44	56	58	84	38	30	473	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982.
Gaylord (10)	241a	44	56	58	84	38	30	473	02	12/87		UAPSP officially changed to CEN.
Gaylord-2 (10 smplr 2)	241b	44	56	58	84	38	30	473	00	2/87	12/87	Co-located sampler started on Feb 16, 1987. UAPSP officially changed to CEN on Dec 31, 1987.
Gaylord-2 (10 smplr 2)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 31

Michigan, UAPSP, Gaylord-2

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	REV num	REV num	START	END	
GLAD (14)													
Bay City (230420002)	241b	44	56	58	84	38	30	473	01	12/87	5/88	Site terminated on May 4, 1988.	
Beaver Island (230860001)	291a	43	39	30	83	53	45	187	00	3/81			
Benton Harbor (230460004)	292a	45	44	30	85	30	30	183	00	9/81			
Cooper Harbor (232740001)	293a	42	07	00	86	28	30	191	00	2/81			
Eagle Harbor (232740002)	294a	47	28	00	87	52	00	191	00	6/81	5/83	This GLAD network site TERMINATED on May 17, 1983. Sampler moved to Eagle Harbor (ADS site 295a).	
Empire (232940001)	295a	47	27	28	88	09	42	188	00	6/83			
Escanaba (231420008)	296a	44	51	16	86	02	08	233	00	6/81			
Grand Marais (230080001)	297a	45	44	30	87	03	30	196	00	6/81			
Mount Clemens (233660002)	298a	46	40	00	85	58	00	191	00	7/81			
Mount Clemens (233660002)	299a	42	34	00	82	50	40	176	00	4/82			
Muskegon (233760007)	300a	42	37	02	82	53	25	187	00	3/81	3/82		
Ontonagon (234060002)	301a	43	08	40	86	16	20	190	00	3/81			
Port Austin (232340002)	302a	46	49	20	89	38	00	194	00	7/81			
Port Sanilac (234800001)	303a	44	02	50	82	59	40	185	00	4/81			
Tawas Point (234110002)	304a	43	26	20	82	32	32	190	00	3/81			
305a	44	16	00	83	26	30	179	00	5/81				
Minnesota (27)													
NADP/NTN (01)													
Camp Ripley (242360)	352a	46	14	58	94	29	50	410	00	10/83	4/85		
Camp Ripley (242360)	352a	46	14	58	94	29	50	410	01	4/85	5/85	Geotech collector replaced with an Aerochem Metrics on 4/29/85.	
Camp Ripley (242360)	352a	46	14	58	94	29	50	410	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Camp Ripley (242360)	352a	46	14	58	94	29	50	410	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Fernberg (241840)	166a	47	56	45	91	29	43	524	00	11/80	3/81	This NADP site operated with collector at ground level within a clearing until March 1981.	
Fernberg (241840)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989,
Page 32

Minnesota, NADP/NNN, Farnberg

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Farnberg (241840)	166a	47 56 45	91 29 43	524	01	3/81	5/81	Collector and raingage (?) moved to a trailer rooftop within existing clearing.
Farnberg (241840)	166a	47 56 45	91 29 43	524	02	5/81	5/85	Collector and raingage returned to ground level about 30m from trailer roof top. Co-located with ADS-IDENT 166b.
Farnberg (241840)	166a	47 56 45	91 29 43	524	03	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Farnberg (241840)	166a	47 56 45	91 29 43	524	04	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Lamberton (242720)	035a	44 14 14	95 18 02	343	00	1/79	5/85	
Lamberton (242720)	035a	44 14 14	95 18 02	343	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Lamberton (242720)	035a	44 14 14	95 18 02	343	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Marcell (241660)	034a	47 31 52	93 28 07	431	00	7/78	7/84	
Marcell (241660)	034a	47 31 52	93 28 07	431	01	7/84	5/85	On 7/9/84 the event recorder was installed on the raingage and the raingage was moved farther from the collector to comply with site visit recommendations.
Marcell (241660)	034a	47 31 52	93 28 07	431	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Marcell (241660)	034a	47 31 52	93 28 07	431	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
APIOS-D (07) Farnberg (6051)	166a	47 56 51	91 29 26	506	00	10/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge. Co-located with ADS-IDENT 166a.
Farnberg (6051)	166a	47 56 51	91 29 26	506	01	5/82	12/84	Warm weather collector and gauge
Farnberg (6051)	166a	47 56 51	91 29 26	506	02	12/84		Method of measuring total acidity changed from CaCO3 to gran analysis on 12/15/84.
GLAD (14) Duluth (241040029)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 33

Minnesota, GLAD, Duluth

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END					
Gooseberry Falls (241840016)	306a	46 46 07	92 05 15	198	00	7/81						
Gull Lake (240900001)	307a	46 24 40	91 28 48	206	00	9/81						
Hovland (240800009)	308a	46 24 40	94 21 15	383	00	1/82						
Mississippi (28) NADP/NTN (01)	309a	47 50 50	89 57 45	224	00	7/81						
Clinton (251080)	242a	32 18 24	90 19 05	96	00	7/84	5/85	See co-located UAPSP site 242a.				
Clinton (251080)	242a	32 18 24	90 19 05	96	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Clinton (251080)	242a	32 18 24	90 19 05	96	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				
Coffeeville (253000)	425a	34 00 09	89 48 00	134	00	7/84	5/85					
Coffeeville (253000)	425a	34 00 09	89 48 00	134	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Coffeeville (253000)	425a	34 00 09	89 48 00	134	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				
Meridian (251460)	036a	32 20 04	88 44 42	89	00	4/80	5/85					
Meridian (251460)	036a	32 20 04	88 44 42	89	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Meridian (251460)	036a	32 20 04	88 44 42	89	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				
Newton (251960)	501a	32 20 05	89 09 57	115	00	11/86	7/87					
Newton (251960)	501a	32 20 05	89 09 57	115	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.				
UAPSP (08) Clinton (16)	242a	32 18 24	90 19 06	86	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981. See co-located NTN site 242b.				
Clinton (16)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 34

Mississippi, WAPSP, Clinton

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
	242a	32 18 24	90 19 06	86	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. See co-located NTN site 242b which began operations on July 11, 1984. This site terminated on Dec 19, 1987.
Clinton-2 (16 seplr 2)	242b	32 21 06	90 17 15	76	00	12/85	12/86	Operated under normal sampling protocol. See co-located WAPSP site 242a and co-located NTN site 242b.
Morton (33)	532a	32 17 30	89 38 00	124	00	12/87		Site began collecting wet precip data for EMEFS study on 12/19/87
EPA-IV (13) University (MSUNIVERSITY)	263a	34 22 48	89 32 08	116	00	5/82	9/83	Samples analyzed by RTI
University (MSUNI)	263a	34 22 48	89 32 08	116	01	9/83	7/86	Samples analyzed by Global Geochem after 9/27/83. Moved 5 miles east to meet siting criteria.
University (MSUNI)	263a	34 23 22	89 26 15	154	02	7/86		Samples analyzed by Global Geochem
Missouri (29) NADP/NTN (01) Ashland (260380)	252a	38 45 13	92 11 56	239	00	10/81	5/85	
Ashland (260380)	252a	38 45 13	92 11 56	239	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Ashland (260380)	252a	38 45 13	92 11 56	239	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Baker Observatory (265000)	502a	37 23 55	93 02 33	415	00	10/86	7/87	
Baker Observatory (265000)	502a	37 23 55	93 02 33	415	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
University Forest (260560)	253a	36 54 39	90 19 07	154	00	10/81	5/85	
University Forest (260560)	253a	36 54 39	90 19 07	154	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
University Forest (260560)	253a	36 54 39	90 19 07	154	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Montana (30) NADP/NTN (01) Clancy (270760)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 35

Montana, NADP/NTN, Clancy

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	ADS OPERATING HISTORY
Clancy (270760)	355a	46 29 07	112 04 03	1489	00	1/84	5/84	
Clancy (270760)	355a	46 29 07	112 04 03	1489	01	5/84	5/85	Leonard Mold & Die collector replaced with an Aerochem Metrics on 5/14/84.
Clancy (270760)	355a	46 29 07	112 04 03	1489	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Custer Battlefield (270060)	355a	46 29 07	112 04 03	1489	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Custer Battlefield (270060)	426a	45 34 07	107 25 15	957	00	7/84	5/85	
Custer Battlefield (270060)	426a	45 34 07	107 25 15	957	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Give Out Morgan (271340)	426a	45 34 07	107 25 15	957	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Give Out Morgan (271340)	278a	48 29 19	105 12 30	806	00	9/82	11/84	
Give Out Morgan (271340)	278a	48 29 19	105 12 30	806	01	11/84	5/85	On 11/27/84 the collector and raingage moved 97 m E-NE of previous location.
Give Out Morgan (271340)	278a	48 29 19	105 12 30	806	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Glacier Nat'l Park (270570)	278a	48 29 19	105 12 30	806	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Glacier Nat'l Park (270570)	037a	48 30 37	113 59 45	968	00	6/80	5/85	NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 037b. Comparison involves comparability of US and Canadian data.
Glacier Nat'l Park (270570)	037a	48 30 37	113 59 45	968	01	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Glacier Nat'l Park (270570)	037a	48 30 37	113 59 45	968	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Glacier Nat'l Park (270570)	037a	48 30 37	113 59 45	968	03	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 36

Montana, NADP/NIN, Glacier Nat'l Park

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	IDENT	LATITUDE	LONGITUDE	ELEV	REV	REV	IDENT	LATITUDE	LONGITUDE	ELEV	REV	REV	
	d m s	d m s	m	num	START	END		d m s	d m s	m	num	START	END
Glacier Nat'l Park (270560)	037a	48 30 37	113 59 45	968	04	9/87		Sample analysis transferred back to CAL from EMSL.					
Glacier Nat'l Park (270560)	354a	48 44 28	113 25 48	1391	00	1/83 5/85							
Havre Experiment S (270740)	354a	48 44 28	113 25 48	1391	01	5/85 9/86		Cl, SO ₄ , & NO ₃ analysis changed to ion chromatography at the CAL on 5/1/85. 1/14/86 site discontinued due to funding problems. Raingage data provided during the period. 3/25/86 sampling reinstated. 9/10/86 sampling discontinued.					
Havre Experiment S (270740)	485a	48 29 57	109 47 51	815	00	7/85 7/87							
CANSAP (05) Glacier Nat Park (13 010)	485a	48 29 57	109 47 51	815	01	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.					
Nebraska (31) NADP/NIN (01) Mead (281520)	038a	41 09 11	96 29 34	352	00	7/78 9/83							
Mead (281520)	038a	41 09 11	96 29 34	352	01	9/83 5/85		On 1 Sept 83 collector moved 10m W to maintain required 5m rain gage - collector separation. No change made to NET ident or ADS ident.					
Mead (281520)	038a	41 09 11	96 29 34	352	02	5/85 7/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.					
Mead (281520)	038a	41 09 11	96 29 34	352	03	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.					
North Platte Ag. E (281580)	486a	41 03 33	100 44 47	919	00	9/85 7/87							
North Platte Ag. E (281580)	486a	41 03 33	100 44 47	919	01	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.					
Nevada (32) NADP/NIN (01) Lehman Caves (290560)	445a	39 00 18	114 12 57	2067	00	1/85 5/85							
Lehman Caves (290560)	445a	39 00 18	114 12 57	2067	01	5/85 7/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.					
Lehman Caves (290560)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 37

Nevada, NADP/NTN, Lehman Caves

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY								
	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	IDENT	d	m		s	d	m	s	m	num	START	END
Red Rock Canyon (290080)	445a	39 00 18	114 12 57	2067	02	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Red Rock Canyon (290080)	444a	36 08 09	115 25 32	1137	00	1/85	5/85												
Red Rock Canyon (290080)	444a	36 08 09	115 25 32	1137	01	5/85	7/87												Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Red Rock Canyon (290080)	444a	36 08 09	115 25 32	1137	02	7/87													PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Saval Ranch (290140)	427a	41 16 59	115 49 36	1850	00	7/84	5/85												
Saval Ranch (290140)	427a	41 16 59	115 49 36	1850	01	5/85	7/87											Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Saval Ranch (290140)	427a	41 16 59	115 49 36	1850	02	7/87												PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Smith Valley (290360)	487a	38 47 57	119 15 24	1501	00	8/85	7/87												
Smith Valley (290360)	487a	38 47 57	119 15 24	1501	01	7/87												PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
New Hampshire (33) NADP/NTN (01) Hubbard Brook (300240)	039a	43 56 35	71 42 12	250	00	7/78	5/85												
Hubbard Brook (300240)	039a	43 56 35	71 42 12	250	01	5/85	7/87											Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Hubbard Brook (300240)	039a	43 56 35	71 42 12	250	02	7/87												PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
New Jersey (34) NADP/NTN (01) Princeton (312980)	167a	40 20 44	74 37 01	37	00	8/80	7/81											On 7 July 1981, site moved 40 km SW. The NET ident was changed to 312981, the ADS ident to 285a00 and the SITE names to Washington Crossing. This site was part of the WMO network. Data collected at Princeton was considered nonstandard by NADP because it did not follow siting guidelines.	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 38

New Jersey, NADP/NIN, Washington Xing

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV mm	REV START	REV END		
Washington Xing (312981)	285a	40	18	54	74	51	17	72	00	8/81	9/84	This NADP site was formerly located in the town of Princeton. This site was identified as NET ident 312980 and ADS ident 167a00 prior to 7 July 1981.	
Washington Xing (312981)	285a	40	18	54	74	51	17	72	01	9/84	5/85	On 9/12/84 the collector was moved 16 ft south of the previous location. It was also taken off its platform and lowered by approximately 1 ft.	
Washington Xing (312981)	285a	40	18	54	74	51	17	72	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Washington Xing (312981)	285a	40	18	54	74	51	17	72	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
New Mexico (35) NADP/NIN (01)													
Bandelier Nat'l (320720)	279a	35	46	54	106	16	03	1998	00	6/82	5/85		
Bandelier Nat'l (320720)	279a	35	46	54	106	16	03	1998	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Bandelier Nat'l (320720)	279a	35	46	54	106	16	03	1998	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Capulin Mountain (321280)	437a	36	46	44	103	58	53	2205	00	11/84	5/85		
Capulin Mountain (321280)	437a	36	46	44	103	58	53	2205	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Capulin Mountain (321280)	437a	36	46	44	103	58	53	2205	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Cuba (320980)	280a	36	02	27	106	58	17	2124	00	2/82	5/85		
Cuba (320980)	280a	36	02	27	106	58	17	2124	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Cuba (320980)	280a	36	02	27	106	58	17	2124	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Gila Cliff Dwelling (320180)	488a	33	13	13	108	14	05	1772	00	7/85	7/87		

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 39

New Mexico, NADP/NTN, Gila Cliff Dwelling

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV num	START	END	
Gila Cliff Dwelling (320180)	488a	33	13	13	108	14	05	1772	01	7/87			PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Mayhill (320840)	356a	32	54	34	105	28	14	2009	00	1/84	5/85		
Mayhill (320840)	356a	32	54	34	105	28	14	2009	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Mayhill (320840)	356a	32	54	34	105	28	14	2009	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
New York (36) NADP/NTN (01)													
Aurora (330860)	040a	42	44	02	76	39	35	249	00	4/79	5/85		
Aurora (330860)	040a	42	44	02	76	39	35	249	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Aurora (330860)	040a	42	44	02	76	39	35	249	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Bennett Bridge (335240)	046a	43	31	34	75	56	50	245	00	6/80	5/85		
Bennett Bridge (335240)	046a	43	31	34	75	56	50	245	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Bennett Bridge (335240)	046a	43	31	34	75	56	50	245	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Biscuit Brook (336840)	359a	41	59	39	74	30	13	634	00	10/83	6/84		
Biscuit Brook (336840)	359a	41	59	39	74	30	13	634	01	6/84	5/85	Geotech collector replaced with an Aerochem Metrics on 6/26/84.	
Biscuit Brook (336840)	359a	41	59	39	74	30	13	634	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Biscuit Brook (336840)	359a	41	59	39	74	30	13	634	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Chautauqua (331000)	041a	42	17	58	79	23	47	488	00	6/80	5/85		
Chautauqua (331000)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 40

New York, NADP/NIN, Chautauqua

STATE NETWORK SITE NAME	ADS SITE IDENT d m s	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
	041a	42 17 58	79 23 47	488	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Chautauqua (331000)	041a	42 17 58	79 23 47	488	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Buntington (332020)	168a	43 58 23	74 13 23	500	00	10/78	6/84	
Buntington (332020)	168a	43 58 23	74 13 23	500	01	6/84	5/85	On 6/15/84 site moved to new forest clearing. Collector and raingage moved approximately 300 m NE of previous location to comply with site review recommendations. No change to NET ident or ADS ident.
Buntington (332020)	168a	43 58 23	74 13 23	500	02	5/85	7/87	Cl, SO4, and NO3 analysis changed from automated wet chemistry to ion chromatography at the CAL on 5/1/85. Net site 33120 terminated on 9/6/85 & this site was designated as replacement.
Buntington (332020)	168a	43 58 23	74 13 23	500	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Jasper (336500)	047a	42 06 23	77 32 09	634	00	2/80	5/85	
Jasper (336500)	047a	42 06 23	77 32 09	634	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Jasper (336500)	047a	42 06 23	77 32 09	634	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Knobhit (331220)	042a	42 22 42	73 30 10	406	00	1/80	5/85	
Knobhit (331220)	042a	42 22 42	73 30 10	406	01	5/85	8/85	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on 5/1/85. Site terminated on 8/06/85.
Stilwell Lake (335140)	045a	41 21 00	74 02 22	186	00	6/79	10/84	Comparison site with NET ident 335141, ADS ident 358a from 6 Sept 1983 to 2 Oct 1984. Comparison involved impact on data of site relocation. On 2 Oct 1984 operations TERMINATED by sponsor and site replaced by NET ident 335141, ADS ident 358a.
West Point (335141)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 41

New York, NADP/NIN, West Point

STATE NETWORK SITE NAME	ADS SITE IDENT LATITUDE d m s LONGITUDE d m s ELEV m	ADS REV num START END	OPERATING HISTORY
West Point (335141)	358a 41 21 03 74 02 55 201 00	9/83 5/85	Comparison site with NET ident 335140, ADS ident 045a from 6 Sept 1983 to 2 Oct 1984. Comparison involved impact on date of site relocation. Note: dry side started 6 Sept 83, wet side started 13 Sept 83. This site was identified as NET ident 335140 and ADS ident 045a prior to 13 Sept 83.
West Point (335141)	358a 41 21 03 74 02 55 201 01	5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Whiteface (332021)	358a 41 21 03 74 02 55 201 02	7/87	Po4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Whiteface (332021)	043a 44 23 36 73 51 34 610 00	7/84 5/85	See co-located MAP3S site 043a.
Whiteface (332021)	043a 44 23 36 73 51 34 610 01	5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
MAP3S/PCN (06) Brookhaven (6)	043a 44 23 36 73 51 34 610 02	7/87	Po4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Brookhaven (6)	048a 40 52 00 72 53 00 25 00	2/81	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
Brookhaven (6)	048a 40 52 00 72 53 00 25 01	2/81	On 24-Feb-81 the sampler was changed to an Aerochem Metrics model 301-A2 with surface area = 640 sq cm.
Ithaca (2)	048a 40 52 00 72 53 00 25 02	8/83	Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES).
Ithaca (2)	044a 42 24 03 76 39 12 509 00	10/76	This MAP3S site started operation with the Battelle Northwest collector; surface area = 490 sq cm.
Ithaca (2)	044a 42 24 03 76 39 12 509 01	8/77	Analysis method changed. NH4 was colorimetry now Ion Chromatography. NA and K were Flame Emission Spectrography - now Ion Chromatography.
Ithaca (2)	044a 42 24 03 76 39 12 509 02	9/77	Analysis method changed. CA and MG were Flame Emission Spectrography - now Flame Atomic Absorption. SO3 was colorimetry - now Colorimetry with field fixation.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 42

New York, MAP3S/PCN, Ithaca

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV num	REV num	START	END			
Ithaca (2)	044a	42 24 03	76 39 12	610	03	11/79	7/83	Collector changed to HASL model with surface area = 640 sq cm.			
Ithaca (2)	044a	42 24 03	76 39 12	610	04	7/83		Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CR and MG were atomic absorption (AA), now plasma emission (PES).			
Whiteface (1)	043a	44 23 26	73 51 34	610	00	10/76	8/77	This MAP3s/PCN site started operation with the Battelle Northwest collector; surface area = 490 sq cm.			
Whiteface (1)	043a	44 23 26	73 51 34	610	01	8/77	9/77	Analysis method changed in August 1977. NH4 changed from colorimetry to Ion Chromatography. NA and K changed from Flame Emission Spectrometry to Ion Chromatography.			
Whiteface (1)	043a	44 23 26	73 51 34	610	02	9/77	12/79	Analysis method changed in mid September 1977. CR and MG changed from Flame Emission Spectrometry to Flame Atomic Absorption on 9/14/77. SO3 changed from colorimetry to colometry with field fixation on 9/6/77.			
Whiteface (1)	043a	44 23 26	73 51 34	610	03	12/79	8/83	Collection instrument changed to HASL with surface area = 640 sq cm in December 1979. See co-located NTN site 043b which started operations July 3, 1984.			
Whiteface (1)	043a	44 23 26	73 51 34	610	04	8/83		Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CR and MG were atomic absorption (AA), now plasma emission (PES).			
UAPSP (08) Big Moose (21)	243a	43 49 03	74 54 08	603	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981			
Big Moose (21)	243a	43 49 03	74 54 08	603	01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82			
Big Moose (21)	243a	43 49 03	74 54 08	603	02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.			
Big Moose (21)	243a	43 49 03	74 54 08	603	03	1/83	12/87	Discontinued analysis of NITRITE, otherwise no change in protocol			
Big Moose (21)	243a	43 49 03	74 54 08	603	04	12/87		UAPSP officially changed to CEN.			
Big Moose-2 (21 smplr 2)	243b	43 49 03	74 54 08	603	00	11/85	11/86	Start of operation as co-located sampler to site 243a on 11/22/85			
GLAD (14)											

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 43

New York, GLAD, Cape Vincent

STATE	ADS	ADS										
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	OPERATING HISTORY				
	SITE NAME	IDENT	d	m	s	d	m	s	m	mm	START	END
Cape Vincent (333340099)	310a	44 05 30	76 20 30	80	00	1/82						
Dunkirk (331600099)	311a	42 30 13	79 19 26	182	00	1/82	9/84					
Fair Haven (330860099)	312a	43 19 08	76 42 11	74	00	1/82	11/84					
Grand Island (332000099)	313a	43 03 30	78 58 00	173	00	1/82						
Olcott (334720099)	314a	43 20 27	78 41 35	84	00	1/82						
Rochester (335760099)	315a	43 13 48	77 34 45	81	00	1/82						
SILVER CREEK (336240099)	381a	42 34 49	79 08 02	199	00	10/84						
SODUS POINT (337240099)	380a	43 16 24	76 58 32	78	00	11/84						
North Carolina (37)												
NADE/NIN (01)												
Clingman's Peak (344500)	489a	35 44 07	82 17 10	1987	00	11/85	7/87					
Clingman's Peak (344500)	489a	35 44 07	82 17 10	1987	01	7/87						
Clinton Station (343560)	052a	35 01 33	78 16 42	41	00	10/78	7/84					
Clinton Station (343560)	052a	35 01 33	78 16 42	41	01	7/84	5/85					
Clinton Station (343560)	052a	35 01 33	78 16 42	41	02	5/85	5/85					
Clinton Station (343560)	052a	35 01 33	78 16 42	41	03	5/85	7/87					
Clinton Station (343560)	052a	35 01 33	78 16 42	41	04	7/87						
Coweeta (342500)	050a	35 03 38	83 25 50	686	00	7/78	9/84					
Coweeta (342500)	050a	35 03 38	83 25 50	686	01	9/84	5/85					
Coweeta (342500)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 44

North Carolina, NADP/NIN, Coweeta

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV num	REV num	START		END
Coweeta (342500)	050a	35	03	38	83	25	50	686	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Finley (A) (344160)	050a	35	03	38	83	25	50	686	03	7/87		PO4 now determined by chromatography at the CAL on 8/7/87 - detection limit raised to 0.02 from 0.01 mg/l.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	00	10/78	4/81	NADP intercomparison study, see co-located NET ident 344161, ADS ident 053b.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	01	4/81	7/81	On 21 April 1981 site moved approximately 100m. No change to NET ident or ADS ident.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	02	7/81	5/83	On 17 July 1981 site moved 125m. No change to NET ident or ADS ident.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	03	5/83	5/85	On 6 May 1983 site moved 10m N. No change to NET ident or ADS ident.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	04	5/85	9/85	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	05	9/85	7/87	On 9-27-85, collector was moved 31 meters to the SE. No change to NET ident or ADS ident.		
Finley (A) (344160)	053a	35	43	42	78	40	49	120	06	7/87		PO4 now determined by chromatography at the CAL on 8/7/87 - detection limit raised to 0.02 from 0.01 mg/l.		
Finley (B) (344161)	053b	35	43	42	78	40	46	116	00	10/78	4/80	NADP comparison site. See ADS ident 053a, NET ident 344160. Comparison involves single site collection variability. Collection operations TERMINATED on 4/1/80.		
Jordan Creek (343600)	360a	34	58	15	79	31	41	132	00	10/83	5/85			
Jordan Creek (343600)	360a	34	58	15	79	31	41	132	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Jordan Creek (343600)	360a	34	58	15	79	31	41	132	02	7/87		PO4 now determined by chromatography at the CAL on 8/7/87 - detection limit raised to 0.02 from 0.01 mg/l.		
Lewiston (340320)	049a	36	07	57	77	10	17	22	00	10/78	8/84			
Lewiston (340320)	049a	36	07	57	77	10	17	22	01	8/84	5/85	Field chemistry measurements discontinued on 8/7/84.		

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 45

North Carolina, NADP/NIN, Lewiston

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY
	SITE IDENT	LATITUDE d	m	s	LONGITUDE d	m	s	ELEV m	REV num	REV START	
Lewiston (340320)	049a	36	07	57	77	10	17	22	02	5/85	6/85 chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Lewiston (340320)	049a	36	07	57	77	10	17	22	03	6/85	7/87 Field chemistry measurement were reinitiated on 6/11/85. Belfort recording raingage installed 6/22/85.
Lewiston (340320)	049a	36	07	57	77	10	17	22	04	7/87	Po4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Piedmont Station (343460)	051a	35	41	49	80	37	21	219	00	10/78	8/84
Piedmont Station (343460)	051a	35	41	49	80	37	21	219	01	8/84	4/85 Field chemistry measurements discontinued on 8/7/84.
Piedmont Station (343460)	051a	35	41	49	80	37	21	219	02	4/85	5/85 On 4/26/85 collector and raingage were moved 28m NE of the previous location. No change to NET ident or ADS ident.
Piedmont Station (343460)	051a	35	41	49	80	37	21	219	03	5/85	5/85 chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Piedmont Station (343460)	051a	35	41	49	80	37	21	219	04	5/85	7/87 Field chemistry measurements were reinitiated on 5/15/85.
Piedmont Station (343460)	051a	35	41	49	80	37	21	219	05	7/87	Po4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
R Triangle Inst (341180)	174a	35	54	09	78	52	12	99	00	10/80	1/83 Operations TERMINATED on 4 Jan 83.
R Triangle Park (343310)	169a	35	53	47	78	51	38	94	00	4/80	3/83 Operations TERMINATED on 1 Mar 83.
UAPSP (08) Raleigh (08)	053a	35	43	43	78	40	48	128	00	9/78	1/79 start up phase for this EPRI/SURE site DO NOT USE DATA
Raleigh (08)	053a	35	43	43	78	40	48	128	01	1/79	10/81 EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 053d. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.
Raleigh (08)	053a	35	43	43	78	40	48	128	02	10/81	1/82 transferred operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol in last quarter of 1981.
Raleigh (08)	053a	35	43	43	78	40	48	128	03	1/82	10/82 UAPSPS one year effort to analyze NITRITE in 1982, otherwise protocol remained the same.
Raleigh (08)											

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 46

North Carolina, UAPSP, Raleigh

STATE	ADS	ADS	OPERATING HISTORY					
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	
SITE NAME	IDENT	d m s	d m s	m	num	START	END	
Raleigh (08)	053a	35 43 43	78 40 48	128	04	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.
Raleigh (08)	053a	35 43 43	78 40 48	128	05	1/83	12/87	Discontinued analysis of NITRITE, otherwise no change in protocol. UAPSP officially changed to CEN on Dec 31, 1987.
Raleigh-2 (08 smplr 2)	053a	35 43 43	78 40 48	128	06	12/87	1/88	UAPSP officially changed to CEN on Dec 31, 1987. Site terminated on Jan 19, 1988.
Raleigh-2 (08 smplr 2)	053b	35 43 43	78 40 48	128	00	9/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
North Dakota (38) NAEP/NIN (01)	053b	35 43 43	78 40 48	128	01	1/79	1/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 053c. The second sampler was removed after one year, this ADS number DISCONTINUED.
Icelandic (350880)	361a	48 46 57	97 45 15	306	00	10/83	5/85	
Icelandic (350880)	361a	48 46 57	97 45 15	306	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Icelandic (350880)	361a	48 46 57	97 45 15	306	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Teddy Roosevelt NP (350700)	062a	47 36 05	103 15 51	611	00	5/81	8/83	
Teddy Roosevelt NP (350700)	062a	47 36 05	103 15 51	611	01	8/83	5/85	On 27 Aug 83 site moved due to road construction. No change to NET ident or ADS ident.
Teddy Roosevelt NP (350700)	062a	47 36 05	103 15 51	611	02	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Teddy Roosevelt NP (350700)	062a	47 36 05	103 15 51	611	03	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Teddy Roosevelt NP (350700)	062a	47 36 05	103 15 51	611	04	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Teddy Roosevelt NP (350700)	062a	47 36 05	103 15 51	611	05	9/87		Sample analysis transferred back to CAL from EMSI.
Woodworth (351180)	362a	47 07 32	99 14 13	578	00	11/83	5/85	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 47

North Dakota, NADP/NTN, Woodworth

STATE	ADS	ADS	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	IDENT	d	m	s	d	m	s	m	mm	START	END	OPERATING HISTORY
NETWORK:																					
SITE NAME																					
Woodworth (351180)	362a	47 07 32	99 14 13	578	01	5/85	7/87														
Woodworth (351180)	362a	47 07 32	99 14 13	578	02	7/87															
Ohio (39)																					
NADP/NTN (01)																					
Caldwell (364900)	056a	39 47 34	81 31 52	276	00	9/78	5/85														
Caldwell (364900)	056a	39 47 34	81 31 52	276	01	5/85	7/87														
Caldwell (364900)	056a	39 47 34	81 31 52	276	02	7/87															
Delaware (361760)	055a	40 21 19	83 03 58	285	00	10/78	5/85														
Delaware (361760)	055a	40 21 19	83 03 58	285	01	5/85	7/87														
Delaware (361760)	055a	40 21 19	83 03 58	285	02	7/87															
Oxford (360900)	057a	39 31 53	84 43 27	284	00	8/84	5/85														
Oxford (360900)	057a	39 31 53	84 43 27	284	01	5/85	7/87														
Oxford (360900)	057a	39 31 53	84 43 27	284	02	7/87															
Wooster (367160)	058a	40 46 56	81 55 12	308	00	9/78	5/85														
Wooster (367160)	058a	40 46 56	81 55 12	308	01	5/85	7/87														
Wooster (367160)	058a	40 46 56	81 55 12	308	02	7/87															

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 48

Ohio, MAP3S/PCN, Oxford

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	REV	START	END				
MAP3S/PCN (06) Oxford (8)	057a	39 31 53	84 43 27	284	00	9/78	11/80	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.					
Oxford (8)	057a	39 31 53	84 43 27	284	01	11/80	8/83	On 24-Nov-80 the sampler was changed to the Aerobem Metrics model 301-A2 with surface area = 640 sq cm. Co-located with NADP/NTN site 057b starting 8/14/84.					
Oxford (8)	057a	39 31 53	84 43 27	284	02	8/83		Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES).					
UAPSP (08) McArthur (22)	244a	39 14 06	82 28 41	224	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.					
McArthur (22)	244a	39 14 06	82 28 41	224	01	10/82	5/84	Strong acid analysis discontinued on Sept 30, 1982. Site TERMINATED on 5/15/84.					
Zanesville (04)	153a	39 59 02	82 01 05	250	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA					
Zanesville (04)	153a	39 59 02	82 01 05	250	01	1/79	10/81	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 153b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site.					
Zanesville (04)	153a	39 59 02	82 01 05	250	02	10/81	10/82	Transferred operation from EPRI/SURE to UAPSPS and operated under normal UAPSPS protocol beginning in last quarter of 1981.					
Zanesville (04)	153a	39 59 02	82 01 05	250	03	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. Site terminated on Dec 29, 1987.					
Zanesville (27)	526a	40 01 52	82 04 04	291	00	12/87		Site began collecting wet precip data for EMEFS study on 12/29/87					
Zanesville-2 (04 smpl 2)	153b	39 59 02	82 01 05	250	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA					
Zanesville-2 (04 smpl 2)	153b	39 59 02	82 01 05	250	01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 153a. The second sampler was removed after one year, this ADS number DISCONTINUED.					
GLAD (14) Ashtabula (360200001)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 49

Ohio, GLAD, Ashtabula

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
CONNEAUT (361480001)	316a	41 54 30	80 46 30	179	00	1/82	9/84	
Fairport Harbor (362100001)	382a	41 57 36	80 34 23	201	00	10/84		Initial period of operation of this site in the Glad network
Lorain (363620014)	317a	41 45 17	81 16 25	203	00	1/81		
Put-in-Bay (365260001)	318a	41 28 20	82 08 30	192	00	2/81		
Toledo (365200007)	319a	41 39 29	82 49 40	177	00	2/81		
	320a	41 41 30	83 24 32	177	00	1/81		
Oklahoma (40) NADP/TIN (01)								
Clayton Lake (372580)	365a	34 31 47	95 21 11	349	00	2/83	5/85	
Clayton Lake (372580)	365a	34 31 47	95 21 11	349	01	5/85	8/86	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985. Site terminated August 12, 1986.
Goodwell Research (372920)	446a	36 35 27	101 37 03	999	00	1/85	5/85	
Goodwell Research (372920)	446a	36 35 27	101 37 03	999	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Goodwell Research (372920)	446a	36 35 27	101 37 03	999	02	7/87		P04 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Great Plains Apiar (371740)	364a	34 58 48	97 31 17	331	00	3/83	5/85	
Great Plains Apiar (371740)	364a	34 58 48	97 31 17	331	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Great Plains Apiar (371740)	364a	34 58 48	97 31 17	331	02	7/87		P04 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Salt Plains Nation (370060)	363a	36 48 19	98 12 02	345	00	12/83	5/85	
Salt Plains Nation (370060)	363a	36 48 19	98 12 02	345	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Salt Plains Nation (370060)	363a	36 48 19	98 12 02	345	02	7/87		P04 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Oregon (41)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 50

Oregon, NADP/NIN, Alsea

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	REV	START	END		
NADP/NIN (01) Alsea (380200)	059a	44 23 13	123 37 23	84	00	12/79	5/85				
Alsea (380200)	059a	44 23 13	123 37 23	84	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.			
Alsea (380200)	059a	44 23 13	123 37 23	84	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.			
Bull Run (380260)	281a	45 26 57	122 09 12	267	00	7/82	4/85				
Bull Run (380260)	281a	45 26 57	122 09 12	267	01	4/85	5/85	Leonard Mold & Die collector replaced with an Aerochem Metrics (that was placed approximately 7.5 meters south of previous location) on 4/9/85.			
Bull Run (380260)	281a	45 26 57	122 09 12	267	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.			
Bull Run (380260)	281a	45 26 57	122 09 12	267	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.			
H.J. Andrews (381020)	061a	44 12 48	122 15 12	436	00	5/80	6/84				
H.J. Andrews (381020)	061a	44 12 48	122 15 12	436	01	6/84	5/85	Raingage moved to a position 6 m from the collector on 6/15/84. It was previously 1.5 m from the collector.			
H.J. Andrews (381020)	061a	44 12 48	122 15 12	436	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.			
H.J. Andrews (381020)	061a	44 12 48	122 15 12	436	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.			
Hyslop Farm (380202)	366a	44 38 05	123 11 24	69	00	4/83	5/85	Site identified as NET ident 380201 and ADS ident 060a00 prior to 26 April 1983.			
Hyslop Farm (380202)	366a	44 38 05	123 11 24	69	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.			
Hyslop Farm (380202)	366a	44 38 05	123 11 24	69	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.			
Lost Creek Dam (380840)	170a	42 40 04	122 40 59	475	00	10/80	12/83	Operations TERMINATED on 12/6/83.			

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 51

Oregon, NADP/NTN, Pendleton

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	REV	START	END	OPERATING HISTORY
Pendleton (381780)	175a	45 41 24	118 50 16	542	00	4/80	9/81			
Pendleton (381780)	175a	45 41 24	118 50 16	542	01	9/81	6/82	On 30 Sept 81 site moved 50m NE off of a roof to ground level. No change made to NET ident or ADS ident. Operations TERMINATED on 6/15/82.		
Schmidt Farm (380201)	060a	44 37 35	123 12 50	69	00	12/79	4/83	Site moved on 26 April 1983. The NET ident changed to 380202, the ADS ident to 366a00 and the SITE names to Hyalop.		
Silver Lake Ranger (380980)	367a	43 07 18	121 03 28	1336	00	8/83	10/84			
Silver Lake Ranger (380980)	367a	43 07 18	121 03 28	1336	01	10/84	5/85	Geotech collector replaced with an Aerochem Metrics on 10/11/84.		
Silver Lake Ranger (380980)	367a	43 07 18	121 03 28	1336	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Silver Lake Ranger (380980)	367a	43 07 18	121 03 28	1336	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.		
Starkey Experiment (381800)	368a	45 13 28	118 30 41	1253	00	3/84	5/85			
Starkey Experiment (381800)	368a	45 13 28	118 30 41	1253	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Starkey Experiment (381800)	368a	45 13 28	118 30 41	1253	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.		
Vines Hill (381120)	027a	43 53 58	117 25 37	904	00	7/80	5/85	Most chemistry analysis values excluded (NS) 9/81 to 1/83		
Vines Hill (381120)	027a	43 53 58	117 25 37	904	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.		
Vines Hill (381120)	027a	43 53 58	117 25 37	904	02	7/87	9/87	PO4 determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l.		
Vines Hill (381120)	027a	43 53 58	117 25 37	904	03	9/87		Site was moved 15 meters N of the previous location 9-3-87.		
Pennsylvania (42) NADP/NTN (01) Kane (392940)	063a	41 35 52	78 46 03	618	00	7/78	5/85			
Kane (392940)										

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 52

Pennsylvania, NADP/NIN, Kane

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	LONGITUDE s	ELEV	rev	REV	REV	START	END	
	063a	41	35	52	78	46	03		618	01	5/85 7/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Kane (392940)	063a	41	35	52	78	46	03		618	02	7/87 PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Leading Ridge (394200)	064a	40	39	27	77	56	23		287	00	4/79 5/85
Leading Ridge (394200)	064a	40	39	27	77	56	23		287	01	5/85 7/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Leading Ridge (394200)	064a	40	39	27	77	56	23	-	287	02	7/87 PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Milford (397220)	371a	41	19	39	74	49	13		212	00	12/83 3/84
Milford (397220)	371a	41	19	39	74	49	13		212	01	3/84 5/85 Belfort recording raingage installed to replace an 8-inch stick gage on 3/20/84.
Milford (397220)	371a	41	19	39	74	49	13		212	02	5/85 7/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Milford (397220)	371a	41	19	39	74	49	13		212	03	7/87 PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Penn State (391520)	065a	40	47	18	77	56	47		393	00	6/83 5/85 See co-located MAP3S site 065a. NADP/NIN comparison site. See ADS ident 065c00. Comparison involves comparability of Leonard Mold and Die and Aerochem Metrics Wet/Dry collectors.
Penn State (391520)	065a	40	47	18	77	56	47		393	01	5/85 7/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Penn State (391520)	065a	40	47	18	77	56	47		393	02	7/87 PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Penn State (391521)	065b	40	47	18	77	56	47		393	00	10/83 10/84 See co-located MAP3S site 065a. NADP/NIN comparison site. See ADS ident 065b00. Comparison involves comparability of Leonard Mold and Die and Aerochem Metrics Wet/Dry collectors. TERMINATED on Oct 2, 1984.

CAPMoN (04)

Penn State (9051010)

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 53

Pennsylvania, CAPMoN, Penn State

STATE NETWORK SITE NAME	ADS SITE IDENT d m s	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
MAP3S/PCN (06) Penn State (3)	065a	40 47 00	77 57 00	393	00	1/86		co-located with MAP3S site 065a, and with NADP site 065b.
Penn State (3)	065a	40 47 18	77 56 45	393	00	9/76	8/77	Started operation using Battelle Northwest sampler with surface area = 490 sq cm.
Penn State (3)	065a	40 47 18	77 56 45	393	01	8/77	9/77	Analysis method changed. NH4 was colorimetry - now Ion Chromatography. NA and K were Flame Emission Spectrography - now Ion Chromatography.
Penn State (3)	065a	40 47 18	77 56 45	393	02	9/77	12/79	Analysis method changed. CA and MG were Flame Emission Spectrography - now Flame Atomic Absorption. SO3 was colorimetry - now Colorimetry with field fixation.
Penn State (3)	065a	40 47 18	77 56 45	393	03	12/79	3/81	Collection instrument changed. Was BNW - now HASL with surface area = 640 sq cm.
Penn State (3)	065a	40 47 18	77 56 45	393	04	3/81	8/83	Collection instrument changed. Was HASL - now Aerchem Metrics model 301-A2 with surface area = 640 sq cm. See co-located NIN site 065b which started June 7, 1983 and 065c which started October 4, 1983.
Penn State (3)	065a	40 47 18	77 56 45	393	05	8/83		Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES).
UAPSP (08) Scranton (02)	151a	41 34 30	75 59 40	335	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA
Scranton (02)	151a	41 34 30	75 59 40	335	01	1/79	1/81	Started operation as a co-located site. See 151b. On 1/1/80 continued operation in EPRI/SURE network with only one sampler in use.
Scranton (02)	151a	41 34 30	75 59 40	335	02	1/81	10/81	Station NOT IN USE.
Scranton (02)	151a	41 34 30	75 59 40	335	03	10/81	10/82	Started operation as UAPSP site.
Scranton (02)	151a	41 34 30	75 59 40	335	04	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982.
Scranton (02)	151a	41 34 30	75 59 40	335	05	12/87		UAPSP officially changed to OEN.
Scranton-2 (02 smplr 2)	151b	41 34 30	75 59 40	335	00	8/78	1/79	EPRI/SURE start up phase DO NOT USE DATA
Scranton-2 (02 smplr 2)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 54

Pennsylvania, UAPSP, Scranton-2

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev num	REV START		REV END
GLAD (14) Erie (393060099)	151b	41	34	30	75	59	40	335	01	1/79	12/79	One year operation with two samplers at this site, see 151a.
South Carolina (45) NADP/NIN (01) Clemson (421880)	321a	42	07	48	80	06	03	183	00	1/82		
Clemson (421880)	066a	34	37	26	82	44	03	256	00	3/79	5/85	Site is considered nonstandard by NADP because location of collector does not follow siting guidelines.
Clemson (421880)	066a	34	37	26	82	44	03	256	01	5/85	7/85	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Clemson (421880)	066a	34	37	26	82	44	03	256	02	7/85	6/86	On 7/16/85 collector and raingage were moved from rooftop location approximately 10 km to the SSE. No change to NET ident or ADS ident.
Santee National Wt (420680)	429a	33	32	22	80	26	06	24	00	7/84	7/84	
Santee National Wt (420680)	429a	33	32	22	80	26	06	24	01	7/84	9/84	Discontinued sampling because of equipment problems on 7/24/84. Geotech collector replaced with an Aerochem Metrics during the period 7/24/84 - 9/27/84.
Santee National Wt (420680)	429a	33	32	22	80	26	06	24	02	9/84	5/85	Re-initiated sampling on 9/28/84.
Santee National Wt (420680)	429a	33	32	22	80	26	06	24	03	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Santee National Wt (420680)	429a	33	32	22	80	26	06	24	04	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
EPA-IV (13)												
Cape Romain (SCCAPEROMA)	413a	32	55	59	79	39	27	5	00	8/83	9/83	Samples analyzed by RTI
Cape Romain (SCCAP)	413a	32	56	32	78	39	27	5	01	9/83		Samples analyzed by Global Geochem after 9/27/83.
Congaree Swamp (SCCON)	414a	33	48	56	80	49	38	32	00	9/83		Samples analyzed by Global Geochem
Delta (SCDELTACCO)	267a	34	32	22	81	33	40	113	00	12/82	9/83	Samples analyzed by RTI
Delta (SCDEL)	267a	34	32	21	81	33	40	113	01	9/83		Samples analyzed by Global Geochem after 9/27/83.
Long Creek (SCLONGCREE)	266a	34	48	19	83	14	17	602	00	11/82	9/83	Samples analyzed by RTI
Long Creek (SCLON)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 55

South Carolina, EPA-IV, Long Creek

STATE	ADS	ADS	OPERATING HISTORY						
NETWORK	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV mm	REV mm	START	END
SITE NAME									
	266a	34 48 19	83 14 17	602	01	9/83		Samples analyzed by Global Geochem after 9/27/83.	
South Dakota (46)									
NADP/NTN (01)									
Cottonwood (430880)	373a	43 56 57	101 51 30	733	00	10/83	5/85		
Cottonwood (430880)	373a	43 56 57	101 51 30	733	01	5/85	7/87	Cl, SO ₄ , & NO ₃ analysis changed from automated wet chemistry to ion chromatography at the CAL on 5/1/85. From 11/5/85 to 2/25/86 operations were temporarily discontinued due to heavy snow.	
Cottonwood (430880)	373a	43 56 57	101 51 30	733	02	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Buron (430060)	067a	44 23 03	98 13 14	390	00	4/80	9/83	Site moved to Buron Well Field on 20 Sept 83. The net ident changed to 430061 and the ADS ident changed to 372a.	
Buron Well Field (430061)	372a	44 21 18	98 17 27	398	00	11/83	5/85	Site identified as net ident 430060 and ADS ident 067a00 prior to 20 Sept 83.	
Buron Well Field (430061)	372a	44 21 18	98 17 27	398	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Buron Well Field (430061)	372a	44 21 18	98 17 27	398	02	7/87		PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
UAPSP (08)									
Brookings (19)	245a	44 19 54	96 49 45	499	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981. Co-located sampler 245b began operation on 11/19/81.	
Brookings (19)	245a	44 19 54	96 49 45	499	01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82	
Brookings (19)	245a	44 19 54	96 49 45	499	02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.	
Brookings (19)	245a	44 21 02	96 49 42	506	03	1/83	12/87	Discontinued analysis of NITRITE, otherwise no change in protocol. Co-located sampler 245b terminated on 2/23/83. This site terminated on Dec 30, 1987.	
Brookings (37)	535a	44 14 50	96 49 50	499	00	12/87		Site began collecting wet precip data for EMEFS study on 12/30/87	
Brookings-2 (19 amplr 2)									

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 56

South Dakota, UAPSP, Brookings-2

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	LONGITUDE s	ELEV	rev	REV	START	END				
Brookings-2 (19 smplr 2)	245b	44 19 54	96 49 45		499	00	11/81	1/82		Operated under normal UAPSP sampling protocol in last quarter of 1981.			
Brookings-2 (19 smplr 2)	245b	44 19 54	96 49 45		499	01	1/82	10/82		UAPSP sampling protocol expanded to include NITRITE in CY 82			
Brookings-2 (19 smplr 2)	245b	44 19 54	96 49 45		499	02	10/82	1/83		Strong acid analysis discontinued on Sept 30, 1982.			
Brookings-2 (19 smplr 2)	245b	44 19 54	96 49 45		499	03	1/83	2/83		Discontinued analysis of NITRITE on 1/1/83. Discontinued operation of co-located sampler on 2/23/83. This ADS ident TERMINATED.			
EPA-VIII (19)													
Buffalo Gap (SDBGP)	509a	43 32 58	103 24 39		1024	00	11/86	1/87		Site terminated 1/20/87.			
Custer Nat'l Park (SDCUS)	510a	00 00 00	00 00 00			0	00	9/87					
Pierre (SDAPR)	508a	44 20 38	100 14 42		434	00	10/86						
Pierre2 (SDPR)	508b	44 20 38	100 14 42		434	00	10/86						
Tennessee (47)													
NADE/NIN (01)													
Giles County (441140)	155a	35 17 05	86 54 12		57	00	10/84	5/85		Location is the same as UAPSP (EPRI/SURE) sites 155a and 155b. Co-located with TVA site 155c starting 10/2/84.			
Giles County (441140)	155a	35 17 05	86 54 12		57	01	5/85	7/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.			
Giles County (441140)	155a	35 17 05	86 54 12		57	02	7/87			PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.			
Great Smoky Mts (441190)	028a	35 39 52	83 35 25		640	00	8/80	5/85					
Great Smoky Mts (441190)	028a	35 39 52	83 35 25		640	01	5/85	4/87		Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.			
Great Smoky Mts (441190)	028a	35 39 52	83 35 25		640	02	4/87	7/87		Sample analysis transferred from CAL to EMSI. Data currently being reviewed.			
Great Smoky Mts (441190)	028a	35 39 52	83 35 25		640	03	7/87	9/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.			
Great Smoky Mts (441190)	028a	35 39 52	83 35 25		640	04	9/87			Sample analysis transferred back to CAL from EMSI.			
Hatchie National W (441400)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 57

Tennessee, NADP/NIN, Hatchie National W

STATE	ADS	ADS	OPERATING HISTORY										
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV						
SITE NAME	IDENT	d	m	s	d	m	s	m	mm	START	END		
	435a	35	28	04	89	09	31	107	00	10/84	5/85		
Hatchie National W (441400)	435a	35	28	04	89	09	31	107	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Hatchie National W (441400)	435a	35	28	04	89	09	31	107	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Walker Branch (440040)	171a	35	57	41	84	17	14	341	00	3/80	5/85	See co-located MAP3S site 171b.	
Walker Branch (440040)	171a	35	57	41	84	17	14	341	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Walker Branch (440040)	171a	35	57	41	84	17	14	341	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
MAP3S/PCN (06) Oak Ridge (9)	171a	35	57	41	84	17	14	341	00	1/81	7/83	See co-located NADP/NIN site 171a. This MAP3S site started operation with Aerochem Metrics model 301-A2 sampler; surface area = 640 sq cm.	
Oak Ridge (9)	171a	35	57	41	84	17	14	341	01	7/83		Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES).	
UAPSP (08) Alamo (12)	246a	35	47	32	89	08	03	112	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.	
Alamo (12)	246a	35	47	32	89	08	03	112	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. This site terminated on Dec 14, 1987.	
Alamo-2 (12 smplr 2)	246b	35	47	32	89	08	03	112	00	12/86	12/87	Co-Located sampler established on Dec 10, 1986. This Co-Located sampler terminated on Dec 14, 1987.	
Bells (31)	530a	35	44	30	89	07	03	120	00	12/87		Site began collecting wet precip data for EMEFS study on 12/14/87	
Giles County (06)	155a	35	17	05	86	54	11	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Giles County (06)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 58

Tennessee, UAPSP, Giles County

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev	REV	REV	START	
Giles County-2 (06 smplr 2)	155a	35	17	05	86	54	11	244	01	1/79	6/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 155b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. Station TERMINATED on June 30, 1980.	
Giles County-2 (06 smplr 2)	155b	35	17	05	86	54	11	244	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
EPA-IV (13)													
Carter Hill (INCENTERSH)	264a	36	02	20	85	43	59	305	00	8/82	9/83	Samples analyzed by RTI	
Carter Hill Res (INCEN)	264a	36	02	20	85	43	59	305	01	9/83		Samples analyzed by Global Geochem after 9/27/83.	
TVA (16)													
ALLEN 7 (ALLEN 7)	383a	35	05	49	90	04	56	73	00	11/78		Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
BULL RUN 8 (BULL RUN 8)	384a	35	58	52	84	13	32	250	00	11/78	8/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
CUMBERLAND 1 (CUMBERLA 1)	387a	36	26	23	87	36	17	180	00	6/77	12/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
CUMBERLAND 14 (CUMBERLA14)	391a	36	16	20	87	45	53	195	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
CUMBERLAND 16 (CUMBERLA16)	392a	36	31	14	87	33	48	174	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
CUMBERLAND 18 (CUMBERLA18)	393a	36	27	58	87	34	52	216	00	6/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
CUMBERLAND 21 (CUMBERLA21)	395a	36	10	13	87	50	50	115	00	7/77	9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
CUMBERLAND 22 (CUMBERLA22)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 59

Tennessee, TVA, CUMBERLAND 22

STATE NETWORK SITE NAME	ADS SITE IDENT LATITUDE d m s LONGITUDE d m s ELEV m	ADS REV num REV START END	OPERATING HISTORY
CUMBERLAND 3 (CUMBERLA 3)	396a 36 26 07 87 36 08	178 00 12/79	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 7 (CUMBERLA 7)	388a 36 36 05 87 27 03	165 00 6/77 9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
CUMBERLAND 8 (CUMBERLA 8)	389a 36 19 29 87 41 30	195 00 6/77 9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
GALLATIN 6 (GALLATIN 6)	390a 36 25 58 87 42 30	130 00 6/77 9/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
GILES COUNTY (GILES CNTY)	397a 36 17 21 86 23 11	158 00 11/78 3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
JOHN SEVIER 2 (JOHN SEVI2)	155a 35 17 05 86 54 11	244 00 5/78 11/84	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly). Co-located with NADP/NIN site 155d starting 10/2/84. Site terminated December 1, 1984.
JOHN SEVIER 4 (JOHN SEVI4)	479a 36 23 20 82 56 03	370 00 12/83	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
JOHNSONVILLE 11 (JOHNSONVII)	398a 36 26 02 85 58 40	347 00 11/78 12/83	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
KINGSTON 2 (KINGSTON 2)	399a 36 01 33 88 02 43	131 00 11/78 3/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
LOUDON (LOUDON)	400a 35 59 17 84 32 40	317 00 1/79 7/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).
WAITS BAR 2 (WATTS BAR2)	411a 35 38 30 84 18 45	271 00 5/78 10/80	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 60

Tennessee, TVA, WATTS BAR 2

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV num	REV num	START END	OPERATING HISTORY	
								ADS	ADS
	405a	35 37 46	84 46 29	238	00	1/79	7/81	Operated by TVA network using AEC wet/dry collector without rain gage Note that collection period is 2 weeks (Fortnightly).	
Texas (48) NADP/NIN (01)									
Attwater Prairie C (451040)	375a	29 39 41	96 15 34	54	00	7/84	5/85		
Attwater Prairie C (451040)	375a	29 39 41	96 15 34	54	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Attwater Prairie C (451040)	375a	29 39 41	96 15 34	54	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Beeville (450350)	374a	28 28 00	97 42 25	82	00	2/84	5/85		
Beeville (450350)	374a	28 28 00	97 42 25	82	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Beeville (450350)	374a	28 28 00	97 42 25	82	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Big Bend Nat'l Pk (450425)	070a	29 18 08	103 10 38	1056	00	4/80	5/85		
Big Bend Nat'l Pk (450425)	070a	29 18 08	103 10 38	1056	01	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Big Bend Nat'l Pk (450425)	070a	29 18 08	103 10 38	1056	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.	
Big Bend Nat'l Pk (450425)	070a	29 18 08	103 10 38	1056	03	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Big Bend Nat'l Pk (450425)	070a	29 18 08	103 10 38	1056	04	9/87		Sample analysis transferred back to CAL from EMSI.	
Forest Seed Ctr (453800)	254a	31 33 38	94 51 39	84	00	8/81	5/85		
Forest Seed Ctr (453800)	254a	31 33 38	94 51 39	84	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Forest Seed Ctr (453800)	254a	31 33 38	94 51 39	84	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 61

Texas, NADP/NTN, Guadalupe Mountain

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	ELEVATION m	REV START	REV END			
Guadalupe Mountain (452215)	438a	31	54	30	104	48	24	1734	00	6/84	5/85	
Guadalupe Mountain (452215)	438a	31	54	30	104	48	24	1734	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Guadalupe Mountain (452215)	438a	31	54	30	104	48	24	1734	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
IBJ National Grass (455640)	378a	33	23	30	97	38	23	312	00	9/83	10/84	
IBJ National Grass (455640)	378a	33	23	30	97	38	23	312	01	10/84	5/85	Geotek collector replaced with an Aerochem Metrics on 10/9/84.
IBJ National Grass (455640)	378a	33	23	30	97	38	23	312	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
IBJ National Grass (455640)	378a	33	23	30	97	38	23	312	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Longview (452180)	282a	32	22	53	94	42	49	107	00	6/82	5/85	
Longview (452180)	282a	32	22	53	94	42	49	107	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Longview (452180)	282a	32	22	53	94	42	49	107	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Mileshoe Nat'l Wil (450250)	490a	33	57	28	102	46	34	1143	00	6/85	7/87	
Mileshoe Nat'l Wil (450250)	490a	33	57	28	102	46	34	1143	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Sonora (451650)	376a	30	15	41	100	33	18	690	00	6/84	5/85	
Sonora (451650)	376a	30	15	41	100	33	18	690	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Sonora (451650)	376a	30	15	41	100	33	18	690	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Throckmorton (455180)	377a	33	16	24	99	12	55	425	00	5/84	5/85	
Throckmorton (455180)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 62

Texas, NADP/NTN, Throckmorton

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev	REV	REV	START	END			
Throckmorton (455180)	377a	33 16 24	99 12 55		425	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Victoria (455350)	377a	33 16 24	99 12 55		425	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.					
Victoria (455350)	071a	28 50 43	96 55 13		31	00	4/80	5/85					
Victoria (455350)	071a	28 50 43	96 55 13		31	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Victoria (455350)	071a	28 50 43	96 55 13		31	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.					
UAPSP (08) Marshall (17)	247a	32 39 58	94 25 06		81	00	10/81	1/82	Operated under normal UAPSP sampling protocol in last quarter of 1981				
Marshall (17)	247a	32 39 58	94 25 06		81	01	1/82	10/82	UAPSP sampling protocol expanded to include NITRITE in CY 82				
Marshall (17)	247a	32 39 58	94 25 06		81	02	10/82	1/83	Strong acid analysis discontinued on Sept 30, 1982.				
Marshall (17)	247a	32 39 58	94 25 06		81	03	1/83	12/87	Discontinued analysis of NITRITE, otherwise no change in protocol. Co-located sampler 247b began operations on 11/23/84.				
Marshall (17)	247a	32 39 58	94 25 06		81	04	12/87	UAPSP officially changed to OEN.					
Marshall-2 (17 suppl 2)	247b	32 39 58	94 25 06		81	00	11/84	11/85	Start of operation as co-located sampler to site 247a on 11/23/84.				
Utah (49) NADP/NTN (01) Bryce Canyon (460110)	448a	37 37 07	112 10 22		2477	00	1/85	5/85					
Bryce Canyon (460110)	448a	37 37 07	112 10 22		2477	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.				
Bryce Canyon (460110)	448a	37 37 07	112 10 22		2477	02	7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.					
Cedar Mt (460280)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 63

Utah, NADP/NTN, Cedar Mt

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s LONGITUDE d m s ELEV m	REV rev	REV num	START END	OPERATING HISTORY
	069a	39 10 16 110 37 06	2331	00	5/81 1/84	Considered nonstandard by NADP because insufficient field data was provided to determine if sampling protocols were followed. Operations TERMINATED on 1/17/84. This site was replaced by NADP/NTN site 449a (NET ident 460281, site name Green River) on 4/25/85.
Green River (460281)	449a	38 59 54 110 09 55	1244	00	4/85 5/85	This site replaced site 069a on 4/25/85.
Green River (460281)	449a	38 59 54 110 09 55	1244	01	5/85 7/87	Cl, SO ₄ , & NO ₃ analysis changed from automated wet chemistry to ion chromatography at the CAL on 5/1/85. From 6/25/85 to 10/30/85 operations were temporarily discontinued due to vandalism.
Green River (460281)	449a	38 59 54 110 09 55	1244	02	7/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Logan (460120)	357a	41 39 30 111 53 49	1370	00	12/83 5/85	
Logan (460120)	357a	41 39 30 111 53 49	1370	01	5/85 7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Logan (460120)	357a	41 39 30 111 53 49	1370	02	7/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Murphy Ridge (460820)	491a	41 21 27 111 02 55	2146	00	3/86 7/87	
Murphy Ridge (460820)	491a	41 21 27 111 02 55	2146	01	7/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Vermont (50) NADP/NTN (01)						
Bennington (470100)	249a	42 52 34 73 09 48	305	00	4/81 5/85	
Bennington (470100)	249a	42 52 34 73 09 48	305	01	5/85 7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Bennington (470100)	249a	42 52 34 73 09 48	305	02	7/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Underhill (470180)	248a	44 31 42 72 52 08	399	00	6/84 5/85	Co-located with UAPSP sites 248a and 248b starting 6/12/84. Co-located sampler 248b terminated on 10/10/84.
Underhill (470180)						

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 64

Vermont, NADP/NIN, Underhill

STATE	ADS	ADS												
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	REV	REV	REV	OPERATING HISTORY						
SITE NAME	IDENT	d m s	d m s	m	num	START	END							
	248a	44 31 42	72 52 08	399	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.						
Underhill (470180)	248a	44 31 42	72 52 08	399	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.						
UAPSP (08)														
Underhill Center (20)	248a	44 31 42	72 52 08	442	00	10/81	10/82	Operated under normal UAPSP sampling protocol beginning in last quarter of 1981.						
Underhill Center (20)	248a	44 31 42	72 52 08	442	01	10/82	12/87	Strong acid analysis discontinued on Sept 30, 1982. Co-located sampler 248b began operations on 10/9/83. Co-located with NADP/NIN site 248c starting 6/12/84. Co-located sampler 248b terminated on 10/10/84.						
Underhill Center (20)	248a	44 31 42	72 52 08	442	02	12/87		UAPSP officially changed to CEN.						
Underhill Center-2 (20 suppl 2)	248b	44 31 42	72 52 08	442	00	10/83	10/84	Start of operation as co-located sampler to site 248a on 10/9/83. Co-located with NADP/NIN site 248c starting 6/12/84. Co-located sampler operation discontinued on 10/10/84. This ADS ident TERMINATED.						
Virginia (51)														
NADP/NIN (01)														
Charlottesville (480060)	072a	38 02 23	78 32 31	172	00	10/84	5/85	Co-located with MAP3s site 072a starting 10/2/84.						
Charlottesville (480060)	072a	38 02 23	78 32 31	172	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.						
Charlottesville (480060)	072a	38 02 23	78 32 31	172	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.						
Horton's Station (481300)	073a	37 19 53	80 33 27	963	00	7/78	5/85	Site is considered nonstandard by NADP because location of collector does not follow siting guidelines.						
Horton's Station (481300)	073a	37 19 53	80 33 27	963	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.						
Horton's Station (481300)	073a	37 19 53	80 33 27	963	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.						

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 65

Virginia, NADP/NTN, Loves Mill

STATE NETWORK	SITE NAME	ADS			ADS			OPERATING HISTORY
		SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV mm	REV mm	
	Loves Mill (483300)	412a	36 44 12	81 41 13	663	00	10/84	5/85 Located at previous TVA site 412a.
	Loves Mill (483300)	412a	36 44 12	81 41 13	663	01	5/85	7/85 CL, SO ₄ , & NO ₃ analysis changed from automated wet chemistry to ion chromatography at the CAL on 5/1/85. Site terminated 7/2/85. This site will be replaced by NET ident 481300, Horton's Station.
	Shenandoah Nat'l (482890)	250a	38 31 21	78 26 09	1074	00	5/81	6/82
	Shenandoah Nat'l (482890)	250a	38 31 21	78 26 09	1074	01	6/82	5/85 On 15 June 82 site moved approximately 1.5km W to a more accessible location. No change made to NET ident or ADS ident.
	Shenandoah Nat'l (482890)	250a	38 31 21	78 26 09	1074	02	5/85	4/87 Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
	Shenandoah Nat'l (482890)	250a	38 31 21	78 26 09	1074	03	4/87	7/87 Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
	Shenandoah Nat'l (482890)	250a	38 31 21	78 26 09	1074	04	7/87	9/87 PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
	Shenandoah Nat'l (482890)	250a	38 31 21	78 26 09	1074	05	9/87	Sample analysis transferred back to CAL from EMSI.
	Whitetop Mountain (482900)	503a	36 38 20	81 36 21	1686	00	9/86	7/87
	Whitetop Mountain (482900)	503a	36 38 20	81 36 21	1686	01	7/87	PO ₄ now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
MAP3S/PCN (06)	Virginia (4)	072a	38 02 23	78 32 31	172	00	12/76	8/77 This MAP3S/PCN site started operation with the Battelle Northwest collector, surface area = 490 sq cm.
Virginia (4)		072a	38 02 23	78 32 31	172	01	8/77	9/77 Analysis method changed starting 4-aug-77. NH ₄ changed from Colorimetry to Ion Chromatography. NA and K changed from Flame Emission Spectroscopy to Ion Chromatography.
Virginia (4)		072a	38 02 23	78 32 31	172	02	9/77	4/81 Analysis method changed; new method in use after September 1977. CA and MG changed from Flame Emission Spectrometry to Flame Atomic Absorption on September 14, 1977. SO ₃ changed from Colorimetry to Colimetry with field fixation starting 9/6/77.
Virginia (4)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 66

Virginia, MAP3S/PCN, Virginia

STATE NETWORK SITE NAME	ADS SITE LATITUDE LONGITUDE ELEV rev REV REV IDENT d m s d m s m rain START END	ADS OPERATING HISTORY
	072a 38 02 23 78 32 31 172 03 4/81 8/83	Sample collection instrument changed from Battelle Northwest to Aerochem Metrics model 302-A2 with surface area = 640 sq cm.
Virginia (4)	072a 38 02 23 78 32 31 172 04 8/83	Analysis methods changed August, 1983. NH4 was ion chromatography (IC), now automated wet chemistry (AWC). CA and MG were atomic absorption (AA), now plasma emission (PES). Co-located with NADP/NTN site 072b starting 10/2/84.
TVA (16) LOVES MILL (LOVES MILL)	412a 36 44 12 81 41 13 663 00 5/78 6/79	Operated by TVA network using AEC wet/dry collector without rain gage. Note that collection period is 2 weeks (Fortnightly).
LOVES MILL (LOVES MILL)	412a 36 44 12 81 41 13 663 01 6/79 12/79	Site operation discontinued from 6/27/79 through 12/11/79.
LOVES MILL (LOVES MILL)	412a 36 44 12 81 41 13 663 02 12/79 9/84	Site converted to a NADP/NTN site on 10/01/84.
Washington (53) NADP/NTN (01) La Grande (492180)	353a 46 50 07 122 17 12 617 00 4/84 5/85	
La Grande (492180)	353a 46 50 07 122 17 12 617 01 5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
La Grande (492180)	353a 46 50 07 122 17 12 617 02 7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Marblemount (491940)	369a 48 32 32 121 26 45 120 00 2/84 5/85	
Marblemount (491940)	369a 48 32 32 121 26 45 120 01 5/85 7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Marblemount (491940)	369a 48 32 32 121 26 45 120 02 7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Olympic Nat. Park (491410)	074a 47 51 36 123 55 55 176 00 5/80 7/84	
Olympic Nat. Park (491410)	074a 47 51 36 123 55 55 176 01 7/84 5/85	During the week of 7/31/84 - 8/7/84 the raingage was moved to a position approximately 3 m east of collector to increase collector-raingage separation.
Olympic Nat. Park (491410)		

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989,
Page 67

Washington, NADE/NIN, Olympic Nat. Park

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Olympic Nat. Park (491410)	074a	47 51 36	123 55 55	176	02	5/85	4/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Olympic Nat. Park (491410)	074a	47 51 36	123 55 55	176	03	4/87	7/87	sample analysis transferred from CAL to EMSL. Data currently being reviewed.
Olympic Nat. Park (491410)	074a	47 51 36	123 55 55	176	04	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Palouse Conservati (492420)	074a	47 51 36	123 55 55	176	05	9/87		sample analysis transferred back to CAL from EMSL.
Palouse Conservati (492420)	492a	46 45 38	117 11 05	766	00	8/85	7/87	
Sullivan Lake (491540)	492a	46 45 38	117 11 05	766	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Sullivan Lake (491540)	370a	48 50 36	117 17 02	796	00	5/84	5/85	
Sullivan Lake (491540)	370a	48 50 36	117 17 02	796	01	5/85	7/87	CL, SO4, & NO3 analysis changed from automated wet chemistry to ion chromatography at the CAL on 5-1-85.
Sullivan Lake (491540)	370a	48 50 36	117 17 02	796	02	7/87	11/87	PO4 determined by chromatography at the CAL on 7-13-87. Detection limit raised to 0.02 from 0.01 mg/l. Site discontinued operations on 11-24-87.
West Virginia (54) NADE/NIN (01)								
Babcock State Park (500460)	379a	37 58 48	80 57 00	753	00	9/83	4/85	
Babcock State Park (500460)	379a	37 58 48	80 57 00	753	01	4/85	5/85	geotech collector replaced with an Aerotech Metrics on 4/16/85.
Babcock State Park (500460)	379a	37 58 48	80 57 00	753	02	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Babcock State Park (500460)	379a	37 58 48	80 57 00	753	03	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Parsons (501860)	075a	39 05 23	79 39 44	505	00	7/78	5/85	
Parsons (501860)	075a	39 05 23	79 39 44	505	01	5/85	7/87	chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Parsons (501860)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 68

West Virginia, NADE/NTN, Parsons

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV START	REV END		
WAPSE (08) Lewisburg (09)	075a	39	05	23	79	39	44	505	02	7/87		PO4 now determined by chromatography at the CAL on 8/7/83 - detection limit raised to 0.02 from 0.01 mg/l.	
Lewisburg (09)	158a	37	50	50	80	25	00	701	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
Lewisburg-2 (09 smplr 2)	158a	37	50	50	80	25	00	701	01	1/79	12/80	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 158b. Starting 1/1/80 only one sampler in operation at this EPRI/SURE site. Station TERMINATED on December 31, 1980.	
Lewisburg-2 (09 smplr 2)	158b	37	50	50	80	25	00	701	00	8/78	1/79	Start up phase for this EPRI/SURE site DO NOT USE DATA	
EPA-III (17) Charleston APC (WVAPC)	158b	37	50	50	80	25	00	701	01	1/79	12/79	EPRI/SURE operation in CY 1979 with co-located samplers at this site. See 158a. The second sampler was removed after one year, this ADS number DISCONTINUED.	
Greenbrier (WVGRN)	472a	38	20	31	81	37	11	183	00	8/84	2/87	Samples analyzed by Global Geochem. Site temporarily terminated 2/4/87.	
New Manchester (WVNEW)	473a	37	48	39	80	30	46	823	00	8/84	1/87	Samples analyzed by Global Geochem. Site temporarily terminated on 1/27/87	
Hairwood Ave (WVWAR)	474a	40	31	42	80	34	32	366	00	7/85	3/87	Samples analyzed by Global Geochem. Site temporarily terminated 3/4/87.	
Wisconsin (55) NADE/NTN (01) Lake Dubay (512800)	475a	40	07	14	80	41	59	212	00	10/84	3/87	Samples analyzed by Global Geochem. Site terminated 3/4/87.	
Lake Dubay (512800)	283a	44	39	52	89	39	08	338	00	6/82	8/84		
Lake Dubay (512800)	283a	44	39	52	89	39	08	338	01	8/84	5/85	During the week of 8/28/84 - 9/4/84 the collector and雨gauge were relocated to comply with site visit recommendations. The collector was repositioned on 8/28/84 so that the wet side faces directly west. The雨gauge was moved from a position approximately 1 m from the collector to approximately 2 m from the collector on 9/4/84.	
Lake Dubay (512800)	283a	44	39	52	89	39	08	338	02	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
Lake Dubay (512800)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 69

Wisconsin, NADP/NIN, Lake Dubay

STATE	ADS	ADS	OPERATING HISTORY																
NETWORK	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV mm	REV mm	START	END										
SITE NAME																			
	283a	44 39 52	89 39 08	338	03	7/87				PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.									
Lake Geneva (513680)	328a	42 34 49	88 30 01	288	00	6/84	5/85	This NADP/NIN site was formerly operated by WISC on a daily sampling protocol. See ADS ident 328a.											
Lake Geneva (513680)	328a	42 34 49	88 30 01	288	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.											
Lake Geneva (513680)	328a	42 34 49	88 30 01	288	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.											
Popple River (510960)	504a	45 47 47	88 23 58	421	00	12/86	7/87												
Popple River (510960)	504a	45 47 47	88 23 58	421	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.											
Popple River Inter (510961)	504b	45 47 47	88 23 58	421	00	12/86	7/87												
Popple River Inter (510961)	504b	45 47 47	88 23 58	421	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.											
Spooner (513700)	077a	45 49 22	91 52 28	331	00	6/80	5/85												
Spooner (513700)	077a	45 49 22	91 52 28	331	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.											
Spooner (513700)	077a	45 49 22	91 52 28	331	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.											
Suring-NADP (512500)	440a	45 03 12	88 22 22	247	00	1/85	5/85												
Suring-NADP (512500)	440a	45 03 12	88 22 22	247	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.											
Suring-NADP (512500)	440a	45 03 12	88 22 22	247	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.											
Trout Lake (513640)	076a	46 03 10	89 39 11	501	00	1/80	5/85												
Trout Lake (513640)	076a	46 03 10	89 39 11	501	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.											

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 70

Wisconsin, NADP/NIN, Trout Lake

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV mm	REV mm	START	END	OPERATING HISTORY
Trout Lake (513640)	076a	46 03 10	89 39 11	501	02	7/87				PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
UAPSP (08) Round Lake (25)	326a	46 14 09	91 55 40	829	00	6/84	12/87	Previous WISC site 326a. UAPSP operations began June 1, 1984.		
Round Lake (25)	326a	46 14 09	91 55 40	829	01	12/87		UAPSP officially changed to CEN.		
Round Lake-2 (25 sampler 2)	326b	46 13 24	91 56 10	320	00	1/86	1/87	Previous WISC site 326a. Start of operation as co-located sampler to site 326b on 1/11/86. Site terminated as co-located sampler on January 10, 1987.		
Shawano (24)	451a	44 42 30	88 37 28	255	00	10/84	12/87	Approximately 13 miles from terminated WISC site 327a. UAPSP operations began October 13, 1984.		
Shawano (24)	451a	44 42 30	88 37 28	255	01	12/87		UAPSP officially changed to CEN.		
GLAD (14) Cornucopia (510180001)	322a	46 51 44	91 08 13	195	00	2/81				
Green Bay (510360001)	323a	44 31 47	87 55 11	201	00	3/81				
Manitowoc (513600001)	324a	44 03 56	87 39 23	189	00	7/81				
Milwaukee (512200035)	325a	43 04 31	87 53 02	205	00	3/81				
WISC (15) Geneva Lake (GENEVA)	328a	42 34 48	88 30 03	290	00	3/82	4/83	Aluminum analysis on precipitation samples was performed.		
Geneva Lake (GENEVA)	328a	42 34 48	88 30 03	290	01	4/83	9/83	Aluminum analysis on precipitation samples discontinued.		
Geneva Lake (GENEVA)	328a	42 34 48	88 30 03	290	02	9/83	1/84	Markson Model 4503 SelectroMark pH and conductivity meter replaced with a Fisher Accutest pH meter and YSI Model 35 conductivity meter.		
Geneva Lake (GENEVA)	328a	42 34 48	88 30 03	290	03	1/84	5/84	Atomic absorption analysis discontinued; plasma emission spectroscopy used for calcium and magnesium analysis. Operation as WISC site ended 5/31/84. See follow-on operation as site 328b under NADP/NIN weekly sampling protocol.		
Legend Lake (LEGEND)	327a	44 53 30	88 37 47	270	00	4/82	4/83	Aluminum analysis on precipitation samples were performed.		
Legend Lake (LEGEND)	327a	44 53 30	88 37 47	270	01	4/83	11/83	Aluminum analysis on precipitation samples were discontinued.		
Legend Lake (LEGEND)	327a	44 53 30	88 37 47	270	02	11/83	12/83	Bulk sample collection through 12-28-83.		

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 71

Wisconsin, WISC, Legend Lake

STATE	ADS	ADS	OPERATING HISTORY															
NETWORK	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END											
SITE NAME																		
Legend Lake (LEGEND)	327a	44 53 30	88 37 47	270	03	12/83	5/84	Site was repeatedly vandalized. New collectors and rain gauges were installed. Atomic absorption analysis discontinued; plasma emission spectroscopy used for calcium and magnesium analysis. Site down between 2-27-84 and 3-16-84. However, no events were recorded during this period. Site TERMINATED on 5/31/84.										
Round Lake (ROUND)	326a	46 13 24	91 56 10	320	00	8/82	4/83	Aluminum analysis on precipitation samples was performed.										
Round Lake (ROUND)	326a	46 13 24	91 56 10	320	01	4/83	7/83	Aluminum analysis on precipitation samples was discontinued.										
Round Lake (ROUND)	326a	46 13 24	91 56 10	320	02	7/83	11/83	Markson Model 4503 SelectMark pH meter replaced with Corning Model 125 pH meter.										
Round Lake (ROUND)	326a	46 13 24	91 56 10	320	03	11/83	1/84	Markson conductivity bridge replaced with YSI Model 35 conductivity meter.										
Round Lake (ROUND)	326a	46 13 24	91 56 10	320	04	1/84	5/84	Atomic absorption analysis discontinued; plasma emission spectroscopy analysis used for calcium and magnesium analysis. Site TERMINATED on 5/31/84.										
Wyoming (56)																		
NADP/MTN (01)																		
Gypsum Creek (520681)	442a	43 13 22	109 59 28	2428	00	12/84	5/85											
Gypsum Creek (520681)	442a	43 13 22	109 59 28	2428	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.										
Gypsum Creek (520681)	442a	43 13 22	109 59 28	2428	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.										
Nash Fork (520021)	505a	40 20 25	106 11 20	2856	00	11/86	7/87											
Nash Fork (520021)	505a	40 20 25	106 11 20	2856	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.										
Newcastle (520820)	255a	43 52 24	104 11 32	1466	00	8/81	5/85											
Newcastle (520820)	255a	43 52 24	104 11 32	1466	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.										
Newcastle (520820)																		

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 72

Wyoming, NADP/NIN, Newcastle

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Pinedale (520680)	255a	43 52 24	104 11 32	1466	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Pinedale (520680)	284a	42 55 44	109 47 12	2388	00	1/82	5/85	
Pinedale (520680)	284a	42 55 44	109 47 12	2388	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Sinks Canyon (520260)	284a	42 55 44	109 47 12	2388	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Sinks Canyon (520260)	431a	42 44 02	108 51 00	2164	00	8/84	5/85	
Sinks Canyon (520260)	431a	42 44 02	108 51 00	2164	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Sinks Canyon (520260)	431a	42 44 02	108 51 00	2164	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Snowy Range (520020)	493a	41 22 34	106 15 34	3286	00	4/86	7/87	
Snowy Range (520020)	493a	41 22 34	106 15 34	3286	01	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
South Pass City (520261)	450a	42 29 41	108 49 45	2511	00	4/85	5/85	
South Pass City (520261)	450a	42 29 41	108 49 45	2511	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
South Pass City (520261)	450a	42 29 41	108 49 45	2511	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Yellowstone (520860)	078a	44 55 02	110 25 13	1912	00	6/80	5/85	
Yellowstone (520860)	078a	44 55 02	110 25 13	1912	01	5/85	4/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.
Yellowstone (520860)	078a	44 55 02	110 25 13	1912	02	4/87	7/87	Sample analysis transferred from CAL to EMSI. Data currently being reviewed.
Yellowstone (520860)	078a	44 55 02	110 25 13	1912	03	7/87	9/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
Yellowstone (520860)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 73

Wyoming, NADP/NIN, Yellowstone

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY	
								ADS	
	078a	44 55 02	110 25 13	1912	04	9/87		Sample analysis transferred back to CAL from EMSI.	
American Samoa (60) NADP/NIN (01) American Samoa (530190)	172a	-14 15 09	170 33 48	82	00	5/80	5/85	Note that location is SOUTH Latitude, WEST Longitude. Considered nonstandard by NADP prior to 12 Jan 1982 because the collection equipment was nonstandard.	
American Samoa (530190)	172a	-14 15 09	170 33 48	82	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
American Samoa (530190)	172a	-14 15 09	170 33 48	82	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Puerto Rico (72) NADP/NIN (01) El Verde (402020)	447a	18 19 28	65 48 53	430	00	2/85	5/85		
El Verde (402020)	447a	18 19 28	65 48 53	430	01	5/85	7/87	Chloride, sulfate, and nitrate analysis changed from automated wet chemistry to ion chromatography at the CAL on May 1, 1985.	
El Verde (402020)	447a	18 19 28	65 48 53	430	02	7/87		PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.	
Alberta (80) NADP/NIN (01) Lethbridge (b) (775070)	107a	49 38 13	112 47 16	913	00	4/81	4/84	NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 107a. Comparison involved the comparability of U.S. and Canadian data. Operations TERMINATED on 4/3/84.	
CAPMoN (04) Esther (3012459)	498a	51 40 00	110 12 00	714	00	1/86			
CANSAP (05) Coronation (04 030)	084a	52 04 00	111 27 00	791	00	5/77	3/79	Sampler is either Sangamo model A or B	
Coronation (04 030)	084a	52 04 00	111 27 00	791	01	3/79	1/80	Collector: Sangamo model C	
Coronation (04 030)	084a	52 04 00	111 27 00	791	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Edson (04 010)	088a	53 35 00	116 27 00	925	00	1/74	3/79	Sampler is either Sangamo model A or B	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 74

Alberta, CANSAP, Edson

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	ELEV s	REV rev	REV mm	START	END					
Edson (04 010)	088a	53 35 00	116 27 00	925	01	3/79	1/80	Collector: Sangamo model C					
Edson (04 010)	088a	53 35 00	116 27 00	925	02	1/80							On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort McMurray (04 000)	092a	56 39 00	111 13 00	369	00	4/77	3/79	Sampler is either Sangamo model A or B					
Fort McMurray (04 000)	092a	56 39 00	111 13 00	369	01	3/79	1/80	Collector: Sangamo model C					
Fort McMurray (04 000)	092a	56 39 00	111 13 00	369	02	1/80							On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Lethbridge (a) (04 040)	107a	49 38 13	112 47 16	913	00	7/77	3/79	Sampler is either Sangamo model A or B					
Lethbridge (a) (04 040)	107a	49 38 13	112 47 16	913	01	3/79	1/80	Collector: Sangamo model C	CANSAP site 107a is co-located with NADP site 107b.				
Lethbridge (a) (04 040)	107a	49 38 13	112 47 16	913	02	1/80							On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. CANSAP site 107a is co-located with NADP site 107b.
Rocky Mtn House (04 020)	134a	52 23 00	114 55 00	988	00	5/77	3/79	Sampler is either Sangamo model A or B					
Rocky Mtn House (04 020)	134a	52 23 00	114 55 00	988	01	3/79	1/80	Collector: Sangamo model C					
Rocky Mtn House (04 020)	134a	52 23 00	114 55 00	988	02	1/80							On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
British Columbia (81) CANSAP (05)													
Fort Nelson (03 000)	093a	58 50 00	122 36 00	383	00	6/77	3/79	Sampler is either Sangamo model A or B					
Fort Nelson (03 000)	093a	58 50 00	122 36 00	383	01	3/79	1/80	Collector: Sangamo model C					
Fort Nelson (03 000)	093a	58 50 00	122 36 00	383	02	1/80							On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Fort St. John (03 010)	096a	56 14 00	120 44 00	695	00	6/77	3/79	Sampler is either Sangamo model A or B					
Fort St. John (03 010)	096a	56 14 00	120 44 00	695	01	3/79	1/80	Collector: Sangamo model C					
Fort St. John (03 010)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 75

British Columbia, CANSAP, Fort St. John

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY	
	096a	56 14 00	120 44 00	695	02	1/80		On 1/3/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Kelowna (03 070)	104a	49 58 00	119 23 00	430	00	4/77	3/79	Sampler is either Sangamo model A or B	
Kelowna (03 070)	104a	49 58 00	119 23 00	430	01	3/79	1/80	Collector: Sangamo model C	
Kelowna (03 070)	104a	49 58 00	119 23 00	430	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Port Hardy (03 040)	114a	50 41 00	127 22 00	22	00	5/77	3/79	Sampler is either Sangamo model A or B	
Port Hardy (03 040)	114a	50 41 00	127 22 00	22	01	3/79	1/80	Collector: Sangamo model C	
Port Hardy (03 040)	114a	50 41 00	127 22 00	22	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Prince George (03 030)	115a	53 53 00	122 40 00	691	00	4/77	3/79	Sampler is either Sangamo model A or B	
Prince George (03 030)	115a	53 53 00	122 40 00	691	01	3/79	1/80	Collector: Sangamo model C	
Prince George (03 030)	115a	53 53 00	122 40 00	691	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Puntzi Mountain (03 080)	286a	52 07 00	124 05 00	911	00	4/74	1/77	Site operations TERMINATED on 1/1/77.	
Revelstoke (03 050)	133a	50 58 00	118 11 00	443	00	9/79	1/80	Collector: Sangamo model C	
Revelstoke (03 050)	133a	50 58 00	118 11 00	443	01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Terrace (03 020)	124a	54 28 00	128 35 00	217	00	4/77	3/79	Sampler is either Sangamo model A or B	
Terrace (03 020)	124a	54 28 00	128 35 00	217	01	3/79	1/80	Collector: Sangamo model C	
Terrace (03 020)	124a	54 28 00	128 35 00	217	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Vancouver (03 060)	128a	49 11 00	123 10 00	2	00	8/77	3/79	Sampler is either Sangamo model A or B	
Vancouver (03 060)	128a	49 11 00	123 10 00	2	01	3/79	1/80	Collector: Sangamo model C	
Vancouver (03 060)									

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 76

British Columbia, CANSAP, Vancouver

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV num	REV num	START END	
	128a	49	11	00	123	10	00		2	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Manitoba (82)													
CAPMoN (04)													
Island Lake (5061376)	453a	53	52	00	94	40	00	245	00	9/83	2/84		
Island Lake (5061376)	453a	53	52	00	94	40	00	245	01	2/84		Laboratory began diluting low volume samples for this site on 4-Feb-1984. Prior to this date low volume samples were analyzed on a priority basis.	
McCreary (5041706)	454a	50	43	00	99	32	00	335	00	9/83	2/84		
McCreary (5041706)	454a	50	43	00	99	32	00	335	01	2/84		Laboratory began diluting low volume samples for this site on 16-Feb-1984. Prior to this date low volume samples were analyzed on a priority basis.	
CANSAP (05)													
Bisnett (06 030)	080a	51	02	00	95	40	00	258	00	5/77	3/79	Sampler is either Sangamo model A or B	
Bisnett (06 030)	080a	51	02	00	95	40	00	258	01	3/79	1/80	Collector: Sangamo model C	
Bisnett (06 030)	080a	51	02	00	95	40	00	258	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.	
Churchill (06 000)	083a	58	45	00	94	04	00	29	00	6/77	3/79	Sampler is either Sangamo model A or B	
Churchill (06 000)	083a	58	45	00	94	04	00	29	01	3/79	1/80	Collector: Sangamo model C	
Churchill (06 000)	083a	58	45	00	94	04	00	29	02	1/80	10/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 10/31/82.	
Dauphin (06 020)	086a	51	06	00	100	03	00	305	00	4/77	3/79	Sampler is either Sangamo model A or B	
Dauphin (06 020)	086a	51	06	00	100	03	00	305	01	3/79	1/80	Collector: Sangamo model C	
Dauphin (06 020)	086a	51	06	00	100	03	00	305	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.	
The Pas (06 010)	125a	53	58	00	101	06	00	273	00	5/77	3/79	Sampler is either Sangamo model A or B	
The Pas (06 010)	125a	53	58	00	101	06	00	273	01	3/79	1/80	Collector: Sangamo model C	
The Pas (06 010)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 77

Manitoba, CRNSAP, The Pas

STATE NETWORK SITE NAME	ADS						OPERATING HISTORY	
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV num	REV START		REV END
	125a	53 58 00	101 06 00	273	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
New Brunswick (83) CAPMoN (04)								
Harcourt (8102151)	457a	46 29 00	65 15 00	45	00	8/83	3/84	
Harcourt (8102151)	457a	46 29 00	65 15 00	45	01	3/84		Laboratory began diluting low volume samples for this site on 22-Mar-1984. Prior to this date low volume samples were analyzed on a priority basis.
Harcourt QC (8102149)	457b	46 29 00	65 15 00	45	00	1/86	10/87	Site is collocated with CAPMoN site 457a. Site was terminated October 1, 1987.
CANSAP (05)								
Acadia Fes (09 010)	090a	46 00 00	66 22 00	61	00	11/79	1/80	Collector: Sangamo model C
Acadia Fes (09 010)	090a	46 00 00	66 22 00	61	01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Charlo (09 000)	081a	48 00 00	66 20 00	38	00	5/77	3/79	Sampler is either Sangamo model A or B
Charlo (09 000)	081a	48 00 00	66 20 00	38	01	3/79	1/80	Collector: Sangamo model C
Charlo (09 000)	081a	48 00 00	66 20 00	38	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
St. John (09 020)	119a	45 19 00	65 53 00	109	00	5/77	3/79	Sampler is either Sangamo model A or B
St. John (09 020)	119a	45 19 00	65 53 00	109	01	3/79	1/80	Collector: Sangamo model C
St. John (09 020)	119a	45 19 00	65 53 00	109	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Newfoundland (84) CAPMoN (04)								
Bay d'Espoir (8400406)	145a	47 59 00	55 49 00	190	00	11/81	7/83	This APN site started operation with the Sangamo model C collector. Site operation began under CAPMoN Network on July 6, 1983.
Bay d'Espoir (8400405)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 78

Newfoundland, CAPMoN, Bay d'Espoir

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	ELEVATION m	REV num	REV START	REV END		
	145a	47	59	00	55	49	00	190	01	7/83	3/84	Site operation began under CAPMoN Network on July 6, 1983. Site is located at a former APN site.
Bay d'Espoir (8400405)	145a	47	59	00	55	49	00	190	02	3/84		Laboratory began diluting low volume samples for this site on 12-Mar-1984. Prior to this date low volume samples were analyzed on a priority basis.
Cormack (8401289)	459a	49	16	00	57	28	00	120	00	8/83	2/84	Site was moved. New ADS id is 460a.
Cormack (8401289)	459a	49	16	00	57	28	00	120	01	2/84	7/85	Laboratory began diluting low volume samples for this site on 22-Feb-1984. Prior to this date low volume samples were analyzed on a priority basis.
Cormack-B (8401291)	460a	49	19	00	57	24	00	168	00	6/85	4/86	Site was moved from ADS site 459a location. Site terminated 4-30-86.
Goose Bay (8501896)	098a	53	19	00	60	21	00	30	00	9/83	2/84	Site operation began under CAPMoN Network on September 30, 1983. Site is located at a former CANSAP site.
Goose Bay (8501896)	098a	53	19	00	60	21	00	30	01	2/84	10/88	Laboratory began diluting low volume sample for this site on 9-Feb-1984. Prior to this date low volume samples were analyzed on a priority basis. Site closed on October 5, 1988.
CANSAP (05) Gander (12 010)	097a	48	57	00	54	34	00	151	00	5/77	3/79	Sampler is either Sangamo model A or B
Gander (12 010)	097a	48	57	00	54	34	00	151	01	3/79	1/80	Collector: Sangamo model C
Gander (12 010)	097a	48	57	00	54	34	00	151	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Goose (12 000)	098a	53	19	00	60	25	00	36	00	7/77	3/79	Sampler is either Sangamo model A or B
Goose (12 000)	098a	53	19	00	60	25	00	36	01	3/79	1/80	Collector: Sangamo model C
Goose (12 000)	098a	53	19	00	60	25	00	36	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Stephenville (12 020)	123a	48	32	00	58	33	00	26	00	5/77	3/79	Sampler is either Sangamo model A or B
Stephenville (12 020)	123a	48	32	00	58	33	00	26	01	3/79	1/80	Collector: Sangamo model C
Stephenville (12 020)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 79

Newfoundland, CANSAP, Stephenville

STATE NETWORK SITE NAME	ADS SITE IDENT LATITUDE d m s LONGITUDE d m s ELEV m	ADS REV mm REV mm START END	OPERATING HISTORY
	123a 48 32 00 58 33 00	26 02 1/80	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09) Bay d'Espoir (8400406)	145a 47 59 00 55 49 00	190 00 11/81 7/83	This APN site started operation with the Sangamo model C collector. Site operation began under CAPMoN Network on July 6, 1983.
Northwest Territories (85) CANSAP (05)			
Fort Reliance (01 020)	094a 62 43 00 109 10 00	164 00 7/77 3/79	Sampler is either Sangamo model A or B
Fort Reliance (01 020)	094a 62 43 00 109 10 00	164 01 3/79 1/80	Collector: Sangamo model C
Fort Reliance (01 020)	094a 62 43 00 109 10 00	164 02 1/80 4/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Site terminated on Apr. 1, 1983.
Fort Simpson (01 030)	095a 61 45 00 121 14 00	169 00 12/73 8/78	NOT SURE OF HISTORY IN THIS TIME PERIOD
Hay River (01 040)	099a 60 50 00 115 47 00	166 00 2/80	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
Inuvik (01 010)	101a 68 18 00 133 29 00	68 00 6/77 3/79	Sampler is either Sangamo model A or B
Inuvik (01 010)	101a 68 18 00 133 29 00	68 01 3/79 1/80	Collector: Sangamo model C
Inuvik (01 010)	101a 68 18 00 133 29 00	68 02 1/80 1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Mould Bay (01 000)	089a 76 14 00 119 20 00	15 00 8/77 3/79	Sampler is either Sangamo model A or B
Mould Bay (01 000)	089a 76 14 00 119 20 00	15 01 3/79 1/80	Collector: Sangamo model C
Mould Bay (01 000)	089a 76 14 00 119 20 00	15 02 1/80 1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Nova Scotia (86) NADEP/NTN (01) Kejimkujik (c) (775048)			

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 80

Nova Scotia, NADP/NIN, Kejimkujik (c)

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY	
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV START	REV END	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	REV START	REV END		
CAPMoN (04) Jackson (8202562)	103a	44 25 58	65 12 20	152	00	5/81	4/84	Co-located with APN site 103b. NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 103a. Comparison involved the comparability of U.S. and Canadian data. Operations TERMINATED on 4/3/84.						
Jackson (8202562)	458a	45 36 00	63 50 00	91	00	8/83	3/84							
Kejimkujik (b) (8202590)	458a	45 36 00	63 50 00	91	01	3/84		Laboratory began diluting low volume samples for this site on 20-Mar-1984. Prior to this date low volume samples were analyzed on a priority basis.						
Kejimkujik (b) (8202586)	103a	44 26 00	65 12 00	127	00	5/79	6/83	This APN site started operation with the Sangamo model C collector. See co-located CANSAP monthly sampler, site 103a. See also the co-located NADP weekly collector at site 103c. Site operation began under CAPMoN Network on June 16, 1983.						
Kejimkujik (b) (8202586)	103a	44 26 00	65 12 00	127	01	6/83	1/84	Site operation began under CAPMoN Network on Jun 16, 1983. Site is located at former collocated CANSAP and APN sites.						
Kejimkujik 2 (8202593)	103a	44 26 00	65 12 00	127	02	1/84		Laboratory began diluting low volume samples for this site on 23-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.						
CANSAP (05) Kejimkujik (a) (10 020)	103b	44 26 00	65 12 00	127	00	1/86	6/88	Site is collocated with CAPMoN site 103b. Site was terminated on June 1, 1988.						
Kejimkujik (a) (10 020)	103a	44 25 58	65 12 20	127	00	6/78	3/79	Sampler is either Sangamo model A or B. See co-located APN daily sampler, site 103b Sampler is either Sangamo model A or B. See co-located APN daily sampler, site 103b See also the co-located NADP weekly collector at site 103c.						
Kejimkujik (a) (10 020)	103a	44 25 58	65 12 20	127	01	3/79	1/80	Collector: Sangamo model C. See co-located APN daily sampler, site 103b See also the co-located NADP weekly collector at site 103c.						

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 81

Nova Scotia, CANSAP, Kejimkujik (a)

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
	103a	44 25 58	65 12 20	127	02	1/80	4/84	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located APN daily sampler, site 103b. Sample collection operations TERMINATED 4/1/84. See also the co-located NADP weekly collector at site 103c.
Sable Island (10 010)	117a	43 56 00	60 01 00	4	00	3/75	3/79	Sampler is either Sangamo model A or B
Sable Island (10 010)	117a	43 56 00	60 01 00	4	01	3/79	1/80	Collector: Sangamo model C
Sable Island (10 010)	117a	43 56 00	60 01 00	4	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Shelburne (10 030)	121a	43 43 00	65 15 00	30	00	1/76	3/79	Sampler is either Sangamo model A or B
Shelburne (10 030)	121a	43 43 00	65 15 00	30	01	3/79	1/80	Collector: Sangamo model C
Shelburne (10 030)	121a	43 43 00	65 15 00	30	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Tuuro (10 000)	127a	45 22 00	63 16 00	40	00	5/77	3/79	Sampler is either Sangamo model A or B
Tuuro (10 000)	127a	45 22 00	63 16 00	40	01	3/79	1/80	Collector: Sangamo model C
Tuuro (10 000)	127a	45 22 00	63 16 00	40	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.
APN (09) Kejimkujik (b) (8202590)	103a	44 26 00	65 12 00	127	00	5/79	6/83	This APN site started operation with the Sangamo model C collector. See co-located CANSAP monthly sampler, site 103a. See also the co-located NADP weekly collector at site 103c. Site operation began under CAPMoN Network on June 16, 1983.
Ontario (87) NADP/NIN (01) Mount Forest (b) (776000)	110a	43 59 29	80 44 46	410	00	5/81	3/84	NADP comparison site with CANSAP network, April 1981 - April 1984. See ADS ident 110a. Comparison involved the comparability of U.S. and Canadian data. Operations TERMINATED on 3/20/84.
CAPMoN (04) AES HQ (6158361)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 82

Ontario, CAPMoN, AES HQ

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LONGITUDE m	ELEV s	rev	REV	START	END					
Algoma (6050179)	462a	43 47 00	79 28 00	191	00	4/85							
Bonner Lake (6070QK6)	461a	49 23 00	82 07 00	245	00	6/85							
Chalk River (6101328)	141a	46 04 00	77 24 00	122	02	9/83	1/84						Site operation began under CAPMoN Network on January 24, 1985. Site is located at a former APN site.
Chalk River (6101328)	141a	46 04 00	77 24 00	122	03	1/84							Laboratory began diluting low volume samples for this site on 17-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.
Dorset (6112068)	087a	45 13 00	78 56 00	320	00	11/83	1/84						Site operation began under CAPMoN Network on November 1, 1983. Site is located at a former CANSAP site. Sampler is collocated with APIOSC site 087b and APIOSC site 087c.
Dorset (6112068)	087a	45 13 00	78 56 00	320	01	1/84	6/86						Lab began diluting low volume samples on 1-28-84. Prior to this date low volume samples were analyzed on a priority basis. Site terminated 5-31-86.
ELA (b) (6032253)	135a	49 40 00	93 43 00	369	00	11/78	3/79						Sampler is either Sangamo model A or B See co-located CANSAP monthly sampler, site 135a.
ELA (b) (6032253)	135a	49 40 00	93 43 00	369	01	3/79	8/83						Collector: Sangamo model C See co-located CANSAP monthly sampler, site 135a. Site operation began under CAPMoN Network on August 17, 1983.
ELA (b) (603KKNB)	135a	49 40 00	93 43 00	369	02	8/83	1/84						Site operation began under CAPMoN Network on August 17, 1983. Site is located at former collocated CANSAP and APN sites.
ELA (b) (603KKNB)	135a	49 40 00	93 43 00	369	03	1/84							Laboratory began diluting low volume samples for this site on 30-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.
Long Point (6134608)	142a	42 36 00	80 30 00	175	00	11/78	11/82						This APN site started operation with the Sangamo model C collector. Site moved to ADS ident 143a on 11/30/82.
Longwoods (a) (6144586)	143a	42 53 00	81 29 00	278	00	12/82	9/83						This APN site started operation with the Sangamo model C collector. See co-located APIOS daily sampler, site 143b. Site operation began under CAPMoN Network on September 20, 1983.
Longwoods (a) (6144585)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 83

Ontario, CAPMoN, Longwoods (a)

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	rev	START	END	OPERATING HISTORY
Longwoods (a) (6144585)	143a	42 53 00	81 29 00	278	01	9/83	1/84	Site operation began under CAPMoN Network on September 20, 1983. Site is located at a former APN site.		
Pickle Lake (6016523)	143a	42 53 00	81 29 00	278	02	1/84		Laboratory began diluting low volume samples for this site on 11-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.		
Pickle Lake (6016523)	113a	51 28 00	90 12 00	370	00	9/83	2/84	Site operation began under CAPMoN Network on September 1, 1983. Site is located at a former CANSAP site.		
Priceville (6116716)	113a	51 28 00	90 12 00	370	01	2/84	3/86	Lab began diluting low vol samples on 2/4/84. Prior to this date low volume samples were analyzed on a priority basis. Site terminated 3/31/86.		
Priceville 2 (6116719)	455a	44 10 00	80 40 00	475	00	7/84		Collocated with CAPMoN site 455b starting April 14, 1985.		
Warsaw Caves (6169291)	455b	44 10 00	80 40 00	475	00	4/85	11/87	Collocated with CAPMoN site 455a starting April 14, 1985. Site terminated November 12, 1987.		
CANSAP (05) Armstrong (07 140)	463a	44 28 00	78 08 00	230	00	3/85				
Atikokan (07 050)	287a	50 17 00	88 54 00	323	00	2/74	11/76			
Atikokan (07 050)	079a	48 45 00	91 37 00	393	00	4/77	3/79	Sampler is either Sangamo model A or B		
Atikokan (07 050)	079a	48 45 00	91 37 00	393	01	3/79	1/80	Collector: Sangamo model C		
Dorset (a) (07 060)	079a	48 45 00	91 37 00	393	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.		
Dorset (a) (07 060)	087a	45 13 00	78 56 00	319	00	7/79	1/80	Collector: Sangamo model C See co-located APIOS daily sampler, site 087b. See co-located APIOS monthly sampler, site 087c.		
ELA (a) (07 023)	087a	45 13 00	78 56 00	319	01	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. See co-located APIOS daily sampler, site 087b. See collocated APIOSC site 087c.		
ELA (a) (07 023)	135a	49 40 00	93 43 00	368	00	8/79	1/80	Collector: Sangamo model C See co-located APN daily sampler, site 135b.		

**Wet Deposition Site History Inventory
Ordered by State and Province**

25-Oct-1989
Page 84

Ontario, CANSAP, ELA (a)

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 85

Ontario, CANSAF, Peterborough

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Pickle Lake (07 020)	112a	44 14 00	78 21 00	191	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Pickle Lake (07 020)	113a	51 28 00	90 12 00	369	00	2/77	3/79	Sampler is either Sangamo model A or B
Pickle Lake (07 020)	113a	51 28 00	90 12 00	369	01	3/79	1/80	Collector: Sangamo model C
Simcoe (07 110)	113a	51 28 00	90 12 00	369	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Simcoe (07 110)	122a	42 51 00	80 16 00	241	00	6/77	3/79	Sampler is either Sangamo model A or B
Simcoe (07 110)	122a	42 51 00	80 16 00	241	01	3/79	1/80	Collector: Sangamo model C
Simcoe (07 110)	122a	42 51 00	80 16 00	241	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Trout Lake (07 000)	126a	53 50 00	89 52 00	220	00	5/77	3/79	Sampler is either Sangamo model A or B
Trout Lake (07 000)	126a	53 50 00	89 52 00	220	01	3/79	1/80	Collector: Sangamo model C
Trout Lake (07 000)	126a	53 50 00	89 52 00	220	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.
Wawa (07 130)	129a	47 58 00	84 47 00	287	00	5/77	3/79	Sampler is either Sangamo model A or B
Wawa (07 130)	129a	47 58 00	84 47 00	287	01	3/79	9/79	NOT SURE OF HISTORY IN THIS TIME PERIOD
Windsor (07 150)	131a	42 16 00	82 58 00	190	00	6/77	3/79	Sampler is either Sangamo model A or B
Windsor (07 150)	131a	42 16 00	82 58 00	190	01	3/79	11/79	NOT SURE OF HISTORY IN THIS TIME PERIOD
APIOS-D (07)								
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	00	11/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	01	2/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Balsam Lake (3031)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 86

Ontario, APIOS-D, Balsam Lake

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY						
	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	IDENT	d	m		s	d	m	s	m	mm
Balsam Lake (3031)	225a	44 37 35	78 51 22	259	04	5/82	12/84	Warm weather collector and gauge									
	225a	44 37 35	78 51 22	259	05	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.									
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	00	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge									
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.									
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	02	11/81	4/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge									
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	03	4/82	12/84	Warm weather collector and gauge									
Charleston Lake (4011)	227a	44 29 54	76 02 30	92	04	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.									
Dawson Creek (6131)	507a	48 33 38	89 38 60	381	00	10/86											
Dorset (b) (3011)	087a	45 13 23	78 55 49	320	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.									
Dorset (b) (3011)	087a	45 13 23	78 55 49	320	01	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.									
Dorset (b) (3011)	087a	45 13 23	78 55 49	320	02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.									
Dorset (b) (3011)	087a	45 13 23	78 55 49	320	03	11/81	4/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.									
Dorset (b) (3011)	087a	45 13 23	78 55 49	320	04	4/82	12/84	Warm weather collector and gauge. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS monthly sampler, site 087c.									
Dorset (b) (3011)	087a	45 13 23	78 55 49	320	05	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.									
Forbes Twp. (6081)																	

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 87

Ontario, APIOS-D, Forbes Twp.

STATE	ADS	ADS	OPERATING HISTORY					
NETWORK	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV START	REV END	
SITE NAME								
Forbes Twp. (6081)	234a	48 34 58	89 38 56	324	00	9/81	10/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Forbes Twp. (6081)	234a	48 34 58	89 38 56	324	01	10/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Forbes Twp. (6081)	234a	48 34 58	89 38 56	324	02	5/82	12/84	Warm weather collector and gauge
Graham Lake (4031)	234a	48 34 58	89 38 56	324	03	12/84	10/86	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84. Site terminated 10/16/86.
Graham Lake (4031)	229a	44 35 22	75 51 44	130	00	10/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Graham Lake (4031)	229a	44 35 22	75 51 44	130	01	2/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Graham Lake (4031)	229a	44 35 22	75 51 44	130	02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Graham Lake (4031)	229a	44 35 22	75 51 44	130	03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Graham Lake (4031)	229a	44 35 22	75 51 44	130	04	5/82	12/84	Warm weather collector and gauge
Lac Le Croix (b) (6061)	229a	44 35 22	75 51 44	130	05	12/84	11/86	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84. Site terminated 11/08/86.
Lac Le Croix (b) (6061)	208a	48 21 14	92 12 32	368	00	9/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located APIOS monthly sampler, site 208a.
Lac Le Croix (b) (6061)	208a	48 21 14	92 12 32	368	01	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge See co-located APIOS monthly sampler, site 208a.
Longwoods (b) (1011)	208a	48 21 14	92 12 32	368	02	5/82	3/84	Warm weather collector and gauge See co-located APIOS monthly sampler, site 208a. Site operations TERMINATED on March 15, 1984.
Longwoods (b) (1011)	143a	42 53 02	81 28 50	239	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located APN daily sampler, site 143a.
Longwoods (b) (1011)	143a	42 53 02	81 28 50	239	01	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge See co-located APN daily sampler, site 143a.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 88

Ontario, APIOS-D, Longwoods (b)

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV num	REV START		REV END
	143a	42	53	02	81	28	50	239	02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge. See co-located APN daily sampler, site 143a.
Longwoods (b) (1011)	143a	42	53	02	81	28	50	239	03	5/82	11/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge See co-located APN daily sampler, site 143a.
Longwoods (b) (1011)	143a	42	53	02	81	28	50	239	04	5/82	12/84	Warm weather collector and gauge See co-located APN daily sampler, site 143a.
Longwoods (b) (1011)	143a	42	53	02	81	28	50	239	05	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Melbourne (1021)	221a	42	47	15	81	33	23	213	00	11/80	2/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Melbourne (1021)	221a	42	47	15	81	33	23	213	01	2/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Melbourne (1021)	221a	42	47	15	81	33	23	213	02	5/81	12/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Melbourne (1021)	221a	42	47	15	81	33	23	213	03	12/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Melbourne (1021)	221a	42	47	15	81	33	23	213	04	5/82	12/84	Warm weather collector and gauge
Melbourne (1021)	221a	42	47	15	81	33	23	213	05	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Nithgrove (3021)	224a	45	12	01	79	04	14	335	00	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Nithgrove (3021)	224a	45	12	01	79	04	14	335	01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
Nithgrove (3021)	224a	45	12	01	79	04	14	335	02	11/81	4/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge
Nithgrove (3021)	224a	45	12	01	79	04	14	335	03	4/82	12/84	Warm weather collector and gauge
Nithgrove (3021)	224a	45	12	01	79	04	14	335	04	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
North Easthope (1031)	222a	43	24	21	80	53	35	375	00	11/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.
North Easthope (1031)	222a	43	24	21	80	53	35	375	01	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge
North Easthope (1031)	222a	43	24	21	80	53	35	375	02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 89

Ontario, APIOS-D, North Easthope

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV	REV	ADS		START	END	OPERATING HISTORY
								d	m	s	d	m
North Easthope (1031)	222a	43 24 21	80 53 35	375	03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge				
North Easthope (1031)	222a	43 24 21	80 53 35	375	04	5/82	12/84	Warm weather collector and gauge				
North Easthope (1031)	222a	43 24 21	80 53 35	375	05	12/84		Method of measuring total acidity changed from CaCO3 to gran analysis on 12/15/84.				
Otter Island (6111)	452a	48 06 50	86 04 25	204	00	6/84	11/84	Site is collocated with APIOSC site 452a. Site operated only during the summer months (Jun. 23, 1984 - Nov. 16, 1984).				
Quetico Centre (6071)	233a	48 24 44	91 12 08	420	00	10/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge				
Quetico Centre (6071)	233a	48 24 44	91 12 08	420	01	5/82	12/84	Warm weather collector and gauge				
Quetico Centre (6071)	233a	48 24 44	91 12 08	420	02	12/84		Method of measuring total acidity changed from CaCO3 to gran analysis on 12/15/84.				
Railton (4021)	228a	44 22 34	76 35 33	137	00	7/80	1/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.				
Railton (4021)	228a	44 22 34	76 35 33	137	01	1/81	4/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge				
Railton (4021)	228a	44 22 34	76 35 33	137	02	4/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.				
Railton (4021)	228a	44 22 34	76 35 33	137	03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge				
Railton (4021)	228a	44 22 34	76 35 33	137	04	5/82	12/84	Warm weather collector and gauge				
Railton (4021)	228a	44 22 34	76 35 33	137	05	12/84		Method of measuring total acidity changed from CaCO3 to gran analysis on 12/15/84.				
Raven Lake (3041)	226a	44 36 40	78 54 43	274	00	2/81	5/81	cold weather collector = SES BULK sampler and Nepher shielded gauge				
Raven Lake (3041)	226a	44 36 40	78 54 43	274	01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.				
Raven Lake (3041)	226a	44 36 40	78 54 43	274	02	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge				
Raven Lake (3041)	226a	44 36 40	78 54 43	274	03	5/82	12/84	Warm weather collector and gauge				
Raven Lake (3041)	226a	44 36 40	78 54 43	274	04	12/84		Method of measuring total acidity changed from CaCO3 to gran analysis on 12/15/84.				
Wellesley (2011)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 90

Ontario, APIOS-D, Wellesley

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev num	REV START	REV END		
Wellesley (2011)	223a	43	28	13	80	45	35	344	00	1/81	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge	
Wellesley (2011)	223a	43	28	13	80	45	35	344	01	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.	
Wellesley (2011)	223a	43	28	13	80	45	35	344	02	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge	
Wellesley (2011)	223a	43	28	13	80	45	35	344	03	5/82	12/84	Warm weather collector and gauge	
Whitman Creek (4041)	223a	43	28	13	80	45	35	344	04	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Whitman Creek (4041)	230a	44	29	07	76	49	19	137	00	10/80	11/80	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.	
Whitman Creek (4041)	230a	44	29	07	76	49	19	137	01	11/80	5/81	Cold weather collector = SES BULK sampler and Nepher shielded gauge	
Whitman Creek (4041)	230a	44	29	07	76	49	19	137	02	5/81	11/81	Warm weather collector = Aerochem Metrics 301 with standard rain gauge.	
Whitman Creek (4041)	230a	44	29	07	76	49	19	137	03	11/81	5/82	Cold weather collector = SES BULK sampler and Nepher shielded gauge	
Whitman Creek (4041)	230a	44	29	07	76	49	19	137	04	5/82	10/84	Warm weather collector and gauge. Site operations TERMINATED on October 29, 1984.	
Wilmar (4101)	496a	44	26	15	76	31	45	155	00	10/85			
APN (09) Algoma (6050180)	140a	47	06	00	84	06	00	369	00	9/80	3/84	This APN site started operation with the Sangamo model C collector.	
Algoma (6050180)	140a	47	06	00	84	06	00	369	01	3/84	1/85	Laboratory began diluting low volume samples for this site on 5-Mar-1984. Prior to this date low volume samples were analyzed on a priority basis. Site operations began under CAPMoN Network on January 24, 1985.	
Chalk River (6101329)	141a	46	04	00	77	24	00	122	00	11/78	3/79	Sampler is either Sangamo model A or B	
Chalk River (6101329)	141a	46	04	00	77	24	00	122	01	3/79	9/83	Collector: Sangamo model C. Site operation began under CAPMoN Network on September 1, 1983.	
ELA (b) (6032253)	135a	49	40	00	93	43	00	369	00	11/78	3/79	Sampler is either Sangamo model A or B See co-located CANSAP monthly sampler, site 135a.	
ELA (b) (6032253)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 91

Ontario, APN, ELA (b)

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY	
Long Point (6134608)	135a	49 40 00	93 43 00	369	01	3/79	8/83	Collector: Sangamo model C. See co-located CANSAP monthly sampler, site 135a. Site operation began under CAPMoN Network on August 17, 1983.	
Longwoods (a) (6144586)	142a	42 36 00	80 30 00	175	00	11/78	11/82	This APN site started operation with the Sangamo model C collector. Site moved to ADS ident 143a on 11/30/82.	
APIOS-C (12) Alvinston (1081)	143a	42 53 00	81 29 00	278	00	12/82	9/83	This APN site started operation with the Sangamo model C collector. See co-located APIOS daily sampler, site 143b. Site operation began under CAPMoN Network on September 20, 1983.	
Alvinston (1081)	180a	42 49 36	81 50 04	221	00	9/80	1/82	Sample collected on last working day of each month.	
Alvinston (1081)	180a	42 49 36	81 50 04	221	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Alvinston (1081)	180a	42 49 36	81 50 04	221	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Alvinston (1081)	180a	42 49 36	81 50 04	221	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Attawapiskat (5081)	202a	52 56 00	82 24 00	9	00	9/80	1/82	sample collected on last working day of each month.	
Attawapiskat (5081)	202a	52 56 00	82 24 00	9	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Attawapiskat (5081)	202a	52 56 00	82 24 00	9	02	11/82	2/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982. Site operations TERMINATED on February 28, 1984.	
Azure Lake (5151)	417a	47 28 12	81 52 30	244	00	7/83	12/84	Site replaced ADS site 199a in July, 1983.	
Azure Lake (5151)	417a	47 28 12	81 52 30	244	01	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Bear Island (5041)	198a	46 58 22	80 04 40	305	00	5/80	1/82	sample collected on last working day of each month.	
Bear Island (5041)	198a	46 58 22	80 04 40	305	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Bear Island (5041)									

Net Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 92

Ontario, APIOS-C, Bear Island

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	REV mm	REV mm	START	END	
Bear Island (5041)	198a	46	58	22	80	04	40	305	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Campbellford (3081)	198a	46	58	22	80	04	40	305	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Campbellford (3081)	189a	44	17	28	77	47	33	175	00	9/80	1/82	Sample collected on last working day of each month.	
Campbellford (3081)	189a	44	17	28	77	47	33	175	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Campbellford (3081)	189a	44	17	28	77	47	33	175	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Clyne (4091)	418a	44	49	09	77	11	45	259	00	12/84	12/84	Site replaced ADS site 191a in December, 1984.	
Clyne (4091)	418a	44	49	09	77	11	45	259	01	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Colchester (1041)	176a	41	59	15	82	55	41	183	00	9/80	1/82	Sample collected on last working day of each month.	
Colchester (1041)	176a	41	59	15	82	55	41	183	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Colchester (1041)	176a	41	59	15	82	55	41	183	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Colchester (1041)	176a	41	59	15	82	55	41	183	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Coldwater (3101)	190a	44	37	31	79	32	08	280	00	8/81	1/82	Sample collected on last working day of each month.	
Coldwater (3101)	190a	44	37	31	79	32	08	280	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Coldwater (3101)	190a	44	37	31	79	32	08	280	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Coldwater (3101)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 93

Ontario, APIOS-C, Coldwater

STATE NETWORK SITE NAME	ADS SITE IDENT	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	REV	START	END	OPERATING HISTORY
Dalhousie Mills (4071)	190a	44 37 31	79 32 08	280	03	12/84				Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Dalhousie Mills (4071)	193a	45 19 00	74 28 13	69	00	9/80	1/82			Sample collected on last working day of each month.
Dalhousie Mills (4071)	193a	45 19 00	74 28 13	69	01	1/82	11/82			Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Dalhousie Mills (4071)	193a	45 19 00	74 28 13	69	02	11/82	12/84			food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dorion (6011)	193a	45 19 00	74 28 13	69	03	12/84				Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Dorion (6011)	204a	48 50 33	88 36 45	244	00	9/80	1/82			Sample collected on last working day of each month.
Dorion (6011)	204a	48 50 33	88 36 45	244	01	1/82	11/82			Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Dorion (6011)	204a	48 50 33	88 36 45	244	02	11/82	12/84			food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Dorion (6011)	204a	48 50 33	88 36 45	244	03	12/84				Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Dorset (c) (3011)	087a	45 13 26	78 55 52	320	00	5/80	1/82			Sample collected on last working day of each month. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS daily sampler, site 087b.
Dorset (c) (3011)	087a	45 13 26	78 55 52	320	01	1/82	11/82			Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time. See co-located CANSAP monthly sampler, site 087a. See co-located APIOS daily sampler, site 087b.
Dorset (c) (3011)	087a	45 13 26	78 55 52	320	02	11/82	12/84			food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982 See co-located CANSAP monthly sampler, site 087a. See co-located APIOS daily sampler, site 087b.
Ear Falls (6031)	087a	45 13 26	78 55 52	320	03	12/84				Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 94

Ontario, APIOS-C, Bar Falls

STATE NETWORK SITE NAME	ADS						ADS						OPERATING HISTORY
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev num	REV START	REV END		
Bar Falls (6031)	206a	50	38	31	93	13	13	350	00	9/80	1/82	Sample collected on last working day of each month.	
Bar Falls (6031)	206a	50	38	31	93	13	13	350	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Bar Falls (6031)	206a	50	38	31	93	13	13	350	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Expt. Lake Area (6091)	206a	50	38	31	93	13	13	350	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Expt. Lake Area (6091)	210a	49	39	22	93	43	28	123	00	10/81	1/82	Sample collected on last working day of each month.	
Expt. Lake Area (6091)	210a	49	39	22	93	43	28	123	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Expt. Lake Area (6091)	210a	49	39	22	93	43	28	123	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Expt. Lake Area (6091)	210a	49	39	22	93	43	28	123	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Geraldton (6121)	416a	49	48	05	86	46	00	351	00	8/83	12/84	Site replaced ADS site 205a in August, 1983.	
Geraldton (6121)	416a	49	48	05	86	46	00	351	01	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Golden Lake (4081)	194a	45	36	48	77	12	03	160	00	9/80	1/82	Sample collected on last working day of each month.	
Golden Lake (4081)	194a	45	36	48	77	12	03	160	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.	
Golden Lake (4081)	194a	45	36	48	77	12	03	160	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982	
Golden Lake (4081)	194a	45	36	48	77	12	03	160	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.	
Gowganda (5061)	200a	47	39	04	80	46	32	343	00	7/80	1/82	Sample collected on last working day of each month.	
Gowganda (5061)													

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 95

Ontario, APIOS-C, Gowganda

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	LONGITUDE s	ELEV m	rev	REV		REV
Gowganda (5061)	200a	47	39	04	80	46	32	343	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Gowganda (5061)	200a	47	39	04	80	46	32	343	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Huron Park (1191)	200a	47	39	04	80	46	32	343	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Huron Park (1191)	183a	43	17	28	81	30	03	250	00	10/81	1/82	Sample collected on last working day of each month.
Huron Park (1191)	183a	43	17	28	81	30	03	250	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Huron Park (1191)	183a	43	17	28	81	30	03	250	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Huron Park (1191)	183a	43	17	28	81	30	03	250	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Kaledar (4051)	191a	44	41	31	77	09	18	244	00	9/80	1/82	Sample collected on last working day of each month.
Kaledar (4051)	191a	44	41	31	77	09	18	244	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Kaledar (4051)	191a	44	41	31	77	09	18	244	02	11/82	11/82	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982. Site operations terminated on November 9, 1982. Site was replaced by ADS site 418a in December, 1984.
Killarney (5021)	196a	45	59	26	81	29	18	183	00	5/80	1/82	Sample collected on last working day of each month.
Killarney (5021)	196a	45	59	26	81	29	18	183	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Killarney (5021)	196a	45	59	26	81	29	18	183	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Killarney (5021)	196a	45	59	26	81	29	18	183	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Lac Le Croix (a) (6061)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 96

Ontario, APIOS-C, Lac Le Croix (a)

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY	
	SITE IDENT	LATITUDE d	LATITUDE m	LATITUDE s	LONGITUDE d	LONGITUDE m	ELEV m	REV num	REV START	REV END		
Lac Le Croix (a) (6061)	208a	48	21	14	92	12	32	368	00	12/81	1/82	Sample collected on last working day of each month. See co-located APIOS daily sampler, site 208b.
Lac Le Croix (a) (6061)	208a	48	21	14	92	12	32	368	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time. See co-located APIOS daily sampler, site 208b.
Lac Le Croix (a) (6061)	208a	48	21	14	92	12	32	368	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982. See co-located APIOS daily sampler, site 208b.
Lac Le Croix (a) (6061)	208a	48	21	14	92	12	32	368	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Mattawa (5031)	197a	46	16	45	78	49	19	198	00	8/80	1/82	Sample collected on last working day of each month.
Mattawa (5031)	197a	46	16	45	78	49	19	198	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Mattawa (5031)	197a	46	16	45	78	49	19	198	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Mattawa (5031)	197a	46	16	45	78	49	19	198	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
McKellar (5011)	195a	45	30	57	79	55	19	244	00	8/80	1/82	Sample collected on last working day of each month.
McKellar (5011)	195a	45	30	57	79	55	19	244	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
McKellar (5011)	195a	45	30	57	79	55	19	244	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
McKellar (5011)	195a	45	30	57	79	55	19	244	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Marlin (1051)	177a	42	14	47	82	13	30	191	00	9/80	1/82	Sample collected on last working day of each month.
Marlin (1051)	177a	42	14	47	82	13	30	191	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Marlin (1051)												

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 97

Ontario, APIOS-C, Marlin

STATE NETWORK SITE NAME	ADS SITE LATITUDE LONGITUDE ELEV rev REV REV IDENT d m s d m s m num START END	ADS OPERATING HISTORY
Marlin (1051)	177a 42 14 47 82 13 30 191 02 11/82 12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Milton (3051)	177a 42 14 47 82 13 30 191 03 12/84	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Milton (3051)	186a 43 31 05 79 55 54 221 00 9/80 1/82	Sample collected on last working day of each month.
Milton (3051)	186a 43 31 05 79 55 54 221 01 1/82 11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Moonbeam (5071)	186a 43 31 05 79 55 54 221 02 11/82 3/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982. Site operations TERMINATED on March 27, 1984.
Moonbeam (5071)	201a 49 19 16 82 08 46 244 00 9/80 1/82	Sample collected on last working day of each month.
Moonbeam (5071)	201a 49 19 16 82 08 46 244 01 1/82 11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Moonbeam (5071)	201a 49 19 16 82 08 46 244 02 11/82 12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Moosonee (5161)	201a 49 19 16 82 08 46 244 03 12/84	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Nakina (6021)	495a 51 12 35 80 42 20 10 00 10/85	
Nakina (6021)	205a 50 10 38 86 42 40 320 00 9/80 1/82	Sample collected on last working day of each month.
Nakina (6021)	205a 50 10 38 86 42 40 320 01 1/82 11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Palmerston (1101)	205a 50 10 38 86 42 40 320 02 11/82 7/83	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982. Site operations terminated on July 20, 1983. Site was replaced by ADS site 416a in August, 1983.
Palmerston (1101)	182a 43 48 19 80 54 12 389 00 9/80 1/82	Sample collected on last working day of each month.
Palmerston (1101)	182a 43 48 19 80 54 12 389 01 1/82 11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 98

Ontario, APIOS-C, Palmerston

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END	OPERATING HISTORY
Palmerston (1101)	182a	43 48 19	80 54 12	389	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Palmerston (1101)	182a	43 48 19	80 54 12	389	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Pickle Lake (6041)	207a	51 27 41	90 12 04	360	00	7/80	1/82	Sample collected on last working day of each month.
Pickle Lake (6041)	207a	51 27 41	90 12 04	360	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Pickle Lake (6041)	207a	51 27 41	90 12 04	360	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Pickle Lake (6041)	207a	51 27 41	90 12 04	360	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Port Stanley (1061)	178a	42 40 22	81 09 55	213	00	9/80	1/82	Sample collected on last working day of each month.
Port Stanley (1061)	178a	42 40 22	81 09 55	213	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Port Stanley (1061)	178a	42 40 22	81 09 55	213	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Port Stanley (1061)	178a	42 40 22	81 09 55	213	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Quetico Centre (6071)	209a	48 44 24	91 12 08	420	00	11/81	1/82	Sample collected on last working day of each month.
Quetico Centre (6071)	209a	48 44 24	91 12 08	420	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Quetico Centre (6071)	209a	48 44 24	91 12 08	420	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Quetico Centre (6071)	209a	48 44 24	91 12 08	420	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Ramsey (5051)	199a	47 26 33	82 20 14	427	00	5/80	1/82	Sample collected on last working day of each month.
Ramsey (5051)								

Wet Deposition Site History Inventory
Ordered by State and Province

Ontario, APIOS-C, Ramsey

25-Oct-1989
Page 99

STATE NETWORK SITE NAME	ADS	ADS	OPERATING HISTORY														
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev num	REV START	REV END										
Ramsey (5051)	199a	47 26 33	82 20 14	427	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.									
Shallow Lake (1091)	199a	47 26 33	82 20 14	427	02	11/82	7/83	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982. Site operations terminated on July 24, 1983. Site was replaced by ADS site 417a in July, 1983.									
Shallow Lake (1091)	181a	44 34 54	81 05 24	229	00	9/80	1/82	Sample collected on last working day of each month.									
Shallow Lake (1091)	181a	44 34 54	81 05 24	229	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.									
Shallow Lake (1091)	181a	44 34 54	81 05 24	229	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982									
Smith's Falls (4061)	181a	44 34 54	81 05 24	229	03	12/84	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.										
Smith's Falls (4061)	192a	44 56 41	75 57 48	122	00	9/80	1/82	Sample collected on last working day of each month.									
Smith's Falls (4061)	192a	44 56 41	75 57 48	122	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.									
Smith's Falls (4061)	192a	44 56 41	75 57 48	122	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982									
Turkey Lake (5141)	192a	44 56 41	75 57 48	122	03	12/84	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.										
Turkey Lake (5141)	415a	47 03 15	84 24 00	472	00	9/83	12/84										
Uxbridge (3061)	415a	47 03 15	84 24 00	472	01	12/84	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.										
Uxbridge (3061)	187a	44 12 46	79 12 38	244	00	9/80	1/82	Sample collected on last working day of each month.									
Uxbridge (3061)	187a	44 12 46	79 12 38	244	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.									
Uxbridge (3061)	187a	44 12 46	79 12 38	244	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982									

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 100

Ontario, APIOS-C, Uxbridge

STATE NETWORK SITE NAME	ADS SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV START	REV END	OPERATING HISTORY
	187a	44 12 46	79 12 38	244	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Waterloo (2021)	184a	43 28 39	80 35 09	343	00	9/80	1/82	Sample collected on last working day of each month.
Waterloo (2021)	184a	43 28 39	80 35 09	343	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Waterloo (2021)	184a	43 28 39	80 35 09	343	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Waterloo (2021)	184a	43 28 39	80 35 09	343	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Whitney (5091)	203a	45 32 21	78 15 35	412	00	9/80	1/82	Sample collected on last working day of each month.
Whitney (5091)	203a	45 32 21	78 15 35	412	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Whitney (5091)	203a	45 32 21	78 15 35	412	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Whitney (5091)	203a	45 32 21	78 15 35	412	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Wilberforce (3071)	188a	45 00 54	78 12 58	396	00	9/80	1/82	Sample collected on last working day of each month.
Wilberforce (3071)	188a	45 00 54	78 12 58	396	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Wilberforce (3071)	188a	45 00 54	78 12 58	396	02	11/82	12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982
Wilberforce (3071)	188a	45 00 54	78 12 58	396	03	12/84		Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Wilkesport (1071)	179a	42 42 11	82 21 13	183	00	9/80	1/82	Sample collected on last working day of each month.
Wilkesport (1071)	179a	42 42 11	82 21 13	183	01	1/82	11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
Wilkesport (1071)								

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 101

Ontario, APIOS-C, Wilkesport

STATE NETWORK SITE NAME	ADS SITE IDENT LATITUDE d m s LONGITUDE d m s ELEV m	ADS REV START REV END	OPERATING HISTORY
Wilkesport (1071)	179a 42 42 11 82 21 13	183 02 11/82 12/84	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982.
Winisk (6101)	179a 42 42 11 82 21 13	183 03 12/84	Method of measuring total acidity changed from CaCO ₃ to gran analysis on 12/15/84.
Winisk (6101)	211a 55 12 00 85 08 00	9 00 7/82 11/82	Samples collected every 28 days (tuesday to tuesday) starting 1/5/82 at 8AM local time.
	211a 55 12 00 85 08 00	9 01 11/82	food grade polyethylene/nylon laminate collection bags replaced polyethylene bags in November, 1982.
Quebec (89) NAEP/NIN (01) Sutton (777570)	456a 45 04 35 72 40 35	290 00 9/86 7/87	Data is sequestered by NADP. Collocated with CAPMoN sites 456a and 456b starting 9/16/86.
Sutton (777570)	456a 45 04 35 72 40 35	290 01 7/87	PO4 now determined by chromatography at the CAL on 870713 - detection limit raised to 0.02 from 0.01 mg/l.
CAPMoN (04) Chapais (7091294)	506a 49 49 00 74 58 00	381 00 10/87	
Montmorency (7042388)	144a 47 19 00 71 09 00	640 00 12/80 7/83	This APN site started operation with the Sangamo model C collector. Site operation began under CAPMoN Network on July 19, 1983.
Montmorency (7045216)	144a 47 19 00 71 09 00	640 01 7/83 1/84	Site operation began under CAPMoN Network on July 19, 1983. Site is located at a former APN site.
Montmorency (7045216)	144a 47 19 00 71 09 00	640 02 1/84	Laboratory began diluting low volume samples for this site on 2-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.
Nitchequon (7095478)	111a 53 12 00 70 54 00	550 00 8/83 1/84	Site operation began under CAPMoN Network on August 1, 1983. Site is located at a former CANSAP site. Site terminated on October 31, 1985.
Nitchequon (7095478)	111a 53 12 00 70 54 00	550 01 1/84 11/85	Laboratory began diluting low volume samples for this site on 3-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.
Port Cartier (7046086)	497a 50 08 00 67 07 00	180 00 12/85	
Sutton (7028292)			

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 102

Quebec, CAPMoN, Sutton

STATE	ADS	ADS							
NETWORK	SITE	LATITUDE	LONGITUDE	ELEV	rev	REV	REV	OPERATING HISTORY	
SITE NAME	IDENT	d m s	d m s	m	num	START	END		
	456a	45 05 00	72 41 00	243	00	9/83	1/84	Collocated with CAPMoN site 456b starting January 8, 1985.	
Sutton (7028292)	456a	45 05 00	72 41 00	243	01	1/84		Laboratory began diluting low volume samples for this site on 18-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.	
Sutton 2 (7028293)	456b	45 05 00	72 41 00	243	00	1/85		Collocated with CAPMoN site 456a starting January 8, 1985.	
CANSAP (05)									
Chibougamau (08 030)	082a	49 49 00	74 25 00	402	00	4/77	3/79	Sampler is either Sangamo model A or B	
Chibougamau (08 030)	082a	49 49 00	74 25 00	402	01	3/79	1/80	Collector: Sangamo model C	
Chibougamau (08 030)	082a	49 49 00	74 25 00	402	02	1/80	6/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 6/30/82.	
Fort Chimo (08 000)	091a	58 06 00	68 25 00	36	00	5/77	3/79	Sampler is either Sangamo model A or B	
Fort Chimo (08 000)	091a	58 06 00	68 25 00	36	01	3/79	1/80	Collector: Sangamo model C	
Fort Chimo (08 000)	091a	58 06 00	68 25 00	36	02	1/80	11/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 11/12/82.	
Maniwaki (08 050)	108a	46 23 00	75 58 00	170	00	5/75	3/79	Sampler is either Sangamo model A or B	
Maniwaki (08 050)	108a	46 23 00	75 58 00	170	01	3/79	1/80	Collector: Sangamo model C	
Maniwaki (08 050)	108a	46 23 00	75 58 00	170	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.	
Mitchequon (08 010)	111a	53 12 00	70 54 00	536	00	4/77	3/79	Sampler is either Sangamo model A or B	
Mitchequon (08 010)	111a	53 12 00	70 54 00	536	01	3/79	1/80	Collector: Sangamo model C	
Mitchequon (08 010)	111a	53 12 00	70 54 00	536	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.	
Quebec City (08 040)	116a	46 48 00	71 24 00	73	00	5/77	3/79	Sampler is either Sangamo model A or B	
Quebec City (08 040)	116a	46 48 00	71 24 00	73	01	3/79	1/80	Collector: Sangamo model C	
Quebec City (08 040)									

Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 103

Quebec, CANSAP, Quebec City

STATE NETWORK SITE NAME	ADS SITE IDENT d m s	ADS LATITUDE d m s	LONGITUDE d m s	ELEV m	rev mm	REV mm	REV mm	START	END	OPERATING HISTORY
	116a	46 48 00	71 24 00	73	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.		
Sept Isles (08 020)	120a	50 13 00	66 15 00	55	00	4/77	3/79	Sampler is either Sangamo model A or B		
Sept Isles (08 020)	120a	50 13 00	66 15 00	55	01	3/79	1/80	Collector: Sangamo model C		
Sept Isles (08 020)	120a	50 13 00	66 15 00	55	02	1/80	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.			
St. Hubert (08 060)	118a	45 31 00	73 25 00	27	00	5/77	3/79	Sampler is either Sangamo model A or B		
St. Hubert (08 060)	118a	45 31 00	73 25 00	27	01	3/79	1/80	Collector: Sangamo model C		
St. Hubert (08 060)	118a	45 31 00	73 25 00	27	02	1/80	11/82	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 11/30/82.		
APIOS-D (07) Sutton (7011)	456a	45 04 35	72 40 35	290	00	10/86				
APN (09) Montmorency (7042388)	144a	47 19 00	71 09 00	640	00	12/80	7/83	This APN site started operation with the Sangamo model C collector. Site operation began under CAPMoN Network on July 19, 1983.		
APIOS-C (12) Sutton (7011)	456a	45 04 35	72 40 35	290	00	10/86	Intercomparison site with 456a(CAPMoN), 456b(CAPMoN), and 456c(NADP).			
Saskatchewan (90) CAPMoN (04) Cree Lake (406JQF0)	085a	57 21 00	107 08 00	497	00	7/82	8/83	Collector: Sangamo model C. Site operation began under CAPMoN Network on August 11, 1983.		
Cree Lake (406JQ60)	085a	57 21 00	107 08 00	499	01	8/83	1/84	Site operation began under CAPMoN Network on August 11, 1983. Site is located at former collocated CANSAP and APN sites.		
Cree Lake (406JQ60)	085a	57 21 00	107 08 00	499	02	1/84	Laboratory began diluting low volume samples for this site on 25-Jan-1984. Prior to this date low volume samples were analyzed on a priority basis.			
CANSAP (05) Cree Lake (05 000)	085a	57 21 00	107 08 00	499	00	5/77	3/79	Sampler is either Sangamo model A or B		

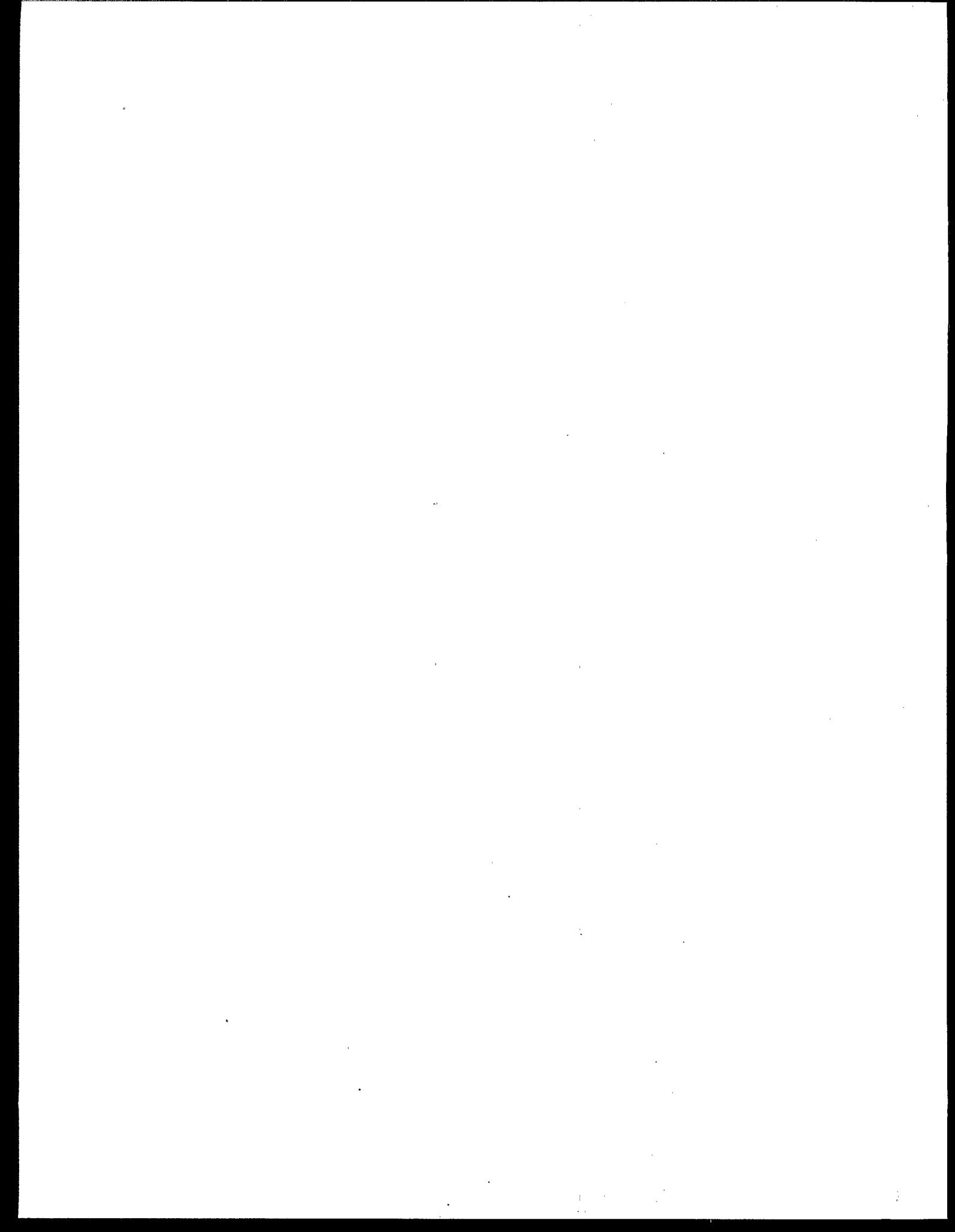
Wet Deposition Site History Inventory
Ordered by State and Province

25-Oct-1989
Page 104

Saskatchewan, CANSAP, Cree Lake

STATE NETWORK SITE NAME	ADS										OPERATING HISTORY
	SITE IDENT	LATITUDE d m s	LONGITUDE d m s	ELEV m	rev	REV	REV	START	END		
Cree Lake (05 000)	085a	57 21 00	107 08 00	499	01	3/79	1/80	Collector: Sangamo model C			
Cree Lake (05 000)	085a	57 21 00	107 08 00	499	02	1/80	1/83	On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field. Sample collection operations TERMINATED 1/1/83.			
Kindersley (05 010)	105a	51 28 00	109 10 00	683	00	5/77	3/79	Sampler is either Sangamo model A or B			
Kindersley (05 010)	105a	51 28 00	109 10 00	683	01	3/79	1/80	Collector: Sangamo model C			
Kindersley (05 010)	105a	51 28 00	109 10 00	683	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.			
Mynyard (05 020)	132a	51 46 00	104 12 00	561	00	3/74	3/79	Sampler is either Sangamo model A or B			
Mynyard (05 020)	132a	51 46 00	104 12 00	561	01	3/79	1/80	Collector: Sangamo model C			
Mynyard (05 020)	132a	51 46 00	104 12 00	561	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.			
APN (09) Cree Lake (406JQF0)	085a	57 21 00	107 08 00	497	00	7/82	8/83	Collector: Sangamo model C. Site operation began under CAPMoN Network on August 11, 1983.			
Yukon Territory (91) CANSAP (05) Whitehorse (02 000)	130a	60 43 00	135 04 00	703	00	7/77	3/79	Sampler is either Sangamo model A or B			
Whitehorse (02 000)	130a	60 43 00	135 04 00	703	01	3/79	1/80	Collector: Sangamo model C			
Whitehorse (02 000)	130a	60 43 00	135 04 00	703	02	1/80		On 1/1/80, the use of a single bucket for entire month was DISCONTINUED. Subsequent samples are composited in the field.			

APPENDIX D
ANNUAL SUMMARIES FOR 1987



1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

pH (Lab)

State	Network	Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Total Precip cm	
			First Date	Last Date	Rating	Rep Comp									
Alabama	NADP/NIN	Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	79	75	99	33	4.63	95.9
	UAPSP	Selma	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	92	100	65	4.58	77.3
Arizona	NADP/NIN	Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	92	89	98	33	4.72	22.5
Arkansas	NADP/NIN	Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42	4.88	136.7
California	NADP/NIN	Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	81	77	89	27	5.08	42.2
	Davis	Dec 30 86	Dec 29 87	2	2A	2	100	100	90	80	98	20	6.13	36.1	
	Palomar Mountain	Dec 30 86	Dec 29 87	3	2A	3	100	71	75	67	98	22	5.22	65.4	
Colorado	NADP/NIN	Dry Lake	Dec 30 86	Jan 5 88			3	100	79	77	84	83	38	4.77	73.1
	Las Animas	Dec 30 86	Dec 29 87	2	1	2	100	98	82	80	95	36	5.71	30.6	
	Mesa Verde	Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36	4.80	48.7	
	Sand Spring	Dec 30 86	Jan 5 88	3	2A	3	100	87	89	89	87	42	5.06	32.4	
	Sugarloaf	Dec 30 86	Dec 29 87			2	100	93	87	88	89	43	4.97	56.7	
	UAPSP	Yampa	Jan 1 87	Jan 1 88	2	1	2	100	93	98	88	88	73	4.86	32.3
Delaware	MAP3S/PCN	Lewes	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59	4.35	95.0
Florida	NADP/NIN	Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	4.72	140.4
	Kennedy Space Cent	Dec 30 86	Dec 29 87	2	2A	1	100	96	85	83	101	40	4.75	158.4	
	Quincy	Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39	4.76	113.6	
Georgia	NADP/NTN	Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37	4.54	113.4
	UAPSP	Uvalda	Jan 1 87	Jan 1 88	2	2A	2	100	93	96	82	94	61	4.61	97.8
Hawaii	NADP/NTN	Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	88	83	77	29	5.02	72.6
Idaho	NADP/MTN	Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	71	68	97	28	5.40	68.3
	Reynolds Creek	Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	5.66	22.4	
	Smiths Ferry	Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29	5.49	53.2	
Illinois	NADP/NTN	Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	75	76	97	38	4.33	102.9
	Bondville	Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45	4.27	87.3	
	Dixon Springs	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40	4.36	95.4	
	Mormouth	Dec 30 86	Dec 29 87			1	100	95	90	89	93	42	4.47	65.5	
	Salem	Dec 30 86	Dec 29 87	2	1	2	100	93	82	80	97	41	4.35	90.4	
	Shabbona	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	92	44	4.44	113.6	

Note: The annual data completeness level also depends on the quarterly data completeness levels

1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

pH (lab)

State Network Site Name	Period Summarized			Overall Site Data			% Rep	% Comp	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Total Precip cm
	First Date	Last Date	Rating													
Illinois																
NADP/NIN Southern Ill U	Dec 30 86	Dec 29 87	2	2B	1	100	99	94	93	100	39			4.34		100.3
MAPS/PCN Illinois	Jan 1 87	Jan 1 88	3	2A	3	99	98	89	68	103	77			4.35		88.9
Indiana																
NADP/NIN Huntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48			4.31		84.5
Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47			4.31		91.4
Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35			4.31		97.2
MAPSP																
Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	98	97	93	92	90			4.36		82.3
Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	68			4.20		63.2
Iowa																
NADP/NIN McNay Research Sta	Dec 30 86	Dec 29 87	2	1	2	100	99	87	85	97	41			4.68		101.8
Kansas																
NADP/NIN Farlington	Dec 30 86	Dec 29 87	1	1	1	100	94	87	85	97	39			4.71		114.1
Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	90	89	95	42			4.81		89.0
Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	85	81	95	34			5.72		54.5
Kentucky																
NADP/NIN Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41			4.39		97.3
Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43			4.43		103.1
Parryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39			4.29		94.3
MAPSP																
Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	100	100	99	100	109			4.27		91.2
Louisiana																
NADP/NIN Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39			4.68		142.2
Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41			4.66		156.1
Maine																
NADP/NIN Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44			4.56		85.8
Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	100	94	94	83	48			4.71		101.1
MAPSP																
Winterport	Jan 1 87	Jan 1 88	2	2A	2	100	99	98	93	90	97			4.56		94.2
Maryland																
NADP/NIN White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	79	78	100	39			4.28		103.1
Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37			4.28		67.7
Massachusetts																
NADP/NIN East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41			4.33		102.8
Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42			4.38		98.3
MAPSP																
Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	92	99	78			4.35		104.7
Michigan																
NADP/NIN Kellogg	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39			4.28		82.0
Racco	Dec 30 86	Dec 29 87	1	1	1	100	88	88	88	94	42			4.55		79.6
Wallston	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	46			4.45		93.0

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

pH (lab)																	Total Precip cm
State	Network	Site Name	Period Summarized	Overall Site Data	% PCL	% TP	% VSL	% VSMP	% Col Eff	% N	Wtd Mean						
			First Date Last Date	Rating Rep Comp													
Michigan																	
	UAPSP																
	Gaylord		Jan 1 87 Jan 1 88	2 2A 1	100 83 98 91 99 87						4.39					73.0	
Minnesota	NADP/NIN																
	Farmberg		Dec 30 86 Dec 29 87	3 1 3	100 86 88 88 92 42						5.13					62.4	
	Lamberton		Dec 30 86 Dec 29 87	3 1 3	100 94 87 83 97 33						5.02					51.5	
	Marcell		Dec 30 86 Dec 29 87	2 2B 2	100 99 87 85 92 41						4.97					78.5	
Mississippi	NADP/NIN																
	Coffeesville		Dec 30 86 Dec 29 87	3 2A 3	100 88 79 77 86 33						4.68					147.9	
	Meridian		Dec 30 86 Dec 29 87	3 3 2	100 99 85 83 89 38						4.63					139.6	
	URPSP																
	Clinton		Jan 1 87 Jan 1 88	2 2A 1	100 100 100 100 101 86						4.62					118.4	
Montana	NADP/NIN																
	Custer Battlefield		Dec 30 86 Dec 29 87	1 1 1	100 99 90 89 98 39						5.19					33.0	
Nebraska	NADP/NIN																
	Mead		Dec 30 86 Dec 29 87	2 2A 2	100 100 93 91 98 40						5.24					76.1	
	North Platte Ag. E		Dec 30 86 Dec 29 87	2 2	100 92 83 80 92 35						5.54					50.0	
Nevada	NADP/NIN																
	Smith Valley		Dec 30 86 Dec 29 87	3	100 91 88 80 96 24						5.60					19.3	
New Hampshire	NADP/NIN																
	Hubbard Brook		Dec 30 86 Dec 29 87	2 1 2	100 98 94 94 91 45						4.43					110.5	
New Jersey	NADP/NIN																
	Washington King		Dec 30 86 Dec 29 87	2 2B 2	100 96 86 86 92 44						4.20					118.1	
New Mexico	NADP/NIN																
	Bandalier Nat'l		Dec 30 86 Jan 5 88	1 1 1	100 89 87 85 97 35						4.90					38.2	
	Cuba		Dec 30 86 Dec 29 87	2 2A 2	100 93 88 85 95 34						4.92					24.9	
New York	NADP/NIN																
	Aurora		Dec 30 86 Dec 29 87	2 2A 2	100 99 94 94 93 48						4.19					77.2	
	Bennett Bridge		Dec 30 86 Dec 29 87	2 2A 1	100 98 88 88 95 45						4.20					117.4	
	Biscuit Brook		Dec 30 86 Dec 29 87	3 1 3	100 85 85 83 99 43						4.28					135.2	
	Huntington		Dec 30 86 Dec 29 87	1 1 1	100 99 92 92 100 47						4.36					91.5	
	Jasper		Dec 30 86 Dec 29 87	2 2A 1	100 98 92 92 98 46						4.24					77.8	
	West Point		Dec 30 86 Dec 29 87	2 2A 2	100 90 88 88 91 46						4.27					128.3	
	MAP3S/PCN																
	Brookhaven		Jan 1 87 Jan 1 88	2 2B 1	100 100 98 93 99 62						4.36					103.0	
	Ithaca		Jan 1 87 Jan 1 88	2 2A 1	100 100 98 94 97 94						4.27					95.0	
	Whiteface		Jan 1 87 Jan 1 88	2 1 2	99 90 93 79 100 85						4.43					103.3	
	UAPSP																
	Big Moose		Jan 1 87 Jan 1 88	2 1 2	100 99 97 93 90 163						4.30					129.3	
North Carolina	NADP/NIN																
	Clinton Station		Dec 30 86 Dec 29 87	3 2A 3	100 69 63 60 101 29						4.57					92.7	
	Coweta		Dec 30 86 Dec 29 87	3 1 3	100 87 83 87 95 41						4.50					145.9	
	Finley (A)		Dec 30 86 Dec 29 87	2 2A 1	100 96 83 82 98 42						4.50					113.8	
	Lewiston		Dec 30 86 Dec 29 87	2 2A 1	100 99 90 90 97 45						4.52					116.6	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

pH (Lab)

State Network Site Name	Period Summarized			Overall Site Data			%	%	%	%	%	%	Col	Total Precip cm
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Eff	N			Wtd Mean	
North Carolina														
NADP/NIN														
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45	4.44		113.6
UAPSP														
Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73	4.49		112.6
Ohio														
NADP/NIN														
Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	31	4.20		57.9
Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	79	78	99	40	4.21		70.3
Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	4.22		73.9
MAP3S/PCN														
Oxford														
UAPSP														
Zanesville	Jan 1 87	Jan 1 88	2	2B	2	99	98	91	71	102	80	4.25		72.1
Oklahoma														
NADP/NIN														
Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	94	93	91	38	5.73		51.9
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	5.03		91.2
Oregon														
NADP/NIN														
Bull Run	Dec 30 86	Dec 29 87	1	1	1	100	93	87	84	100	38	5.26		137.3
H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	5.35		148.5
Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	87	82	85	31	5.31		36.3
Pennsylvania														
NADP/NIN														
Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	4.15		133.8
Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	4.08		99.3
Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	4.24		110.6
Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	90	90	98	45	4.10		91.3
MAP3S/PCN														
Penn State														
South Carolina														
NADP/NIN														
Santee National Wi	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	4.58		108.9
South Dakota														
UAPSP														
Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	73	102	38	5.16		56.7
Tennessee														
NADP/NIN														
Giles County	Dec 30 86	Dec 29 87	2	2A	2	100	88	75	73	102	36	4.51		101.7
Walker Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	4.26		90.5
MAP3S/PCN														
Oak Ridge														
Texas														
NADP/NIN														
Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	92	89	95	34	5.07		49.1
IBJ National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	90	89	96	40	4.93		98.9
Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39	4.65		135.1
UAPSP														
Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	100	100	99	105	81	4.63		125.2
Utah														
NADP/NIN														
Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	5.07		43.8

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

pH (lab)

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	Col	Wtd Mean	Total Precip cm	
	First Date	Last Date	Rating	Rep Comp	PCL	IP	VSL	VSMP	Eff			
Vermont												
NADP/NIN Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	92	92	84	47	4.38
UAPSP Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	97	91	86	117	4.41
Virginia												
NADP/NIN Horton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36	4.49
MAP3S/PCN Virginia	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	75	114	53	4.42
Washington												
NADP/NIN La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37	5.00
Palouse Conservati	Dec 30 86	Dec 29 87			2	100	97	85	79	86	30	5.52
West Virginia												
NADP/NIN Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45	4.22
Wisconsin												
NADP/NIN Lake Dubay	Dec 30 86	Dec 29 87	2	2B	2	100	95	81	80	97	40	4.65
Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42	4.42
Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	87	86	98	42	5.10
Suring-NADP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45	4.55
Trout Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	92	92	95	46	4.71
UAPSP												
Round Lake	Jan 1 87	Jan 1 88			1	100	97	97	85	99	72	4.84
Shawano	Jan 1 87	Jan 1 88			1	100	99	98	92	98	99	4.54
Wyoming												
NADP/NIN Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39	5.23
Puerto Rico												
NADP/NIN El Verde	Dec 30 86	Dec 29 87			3	100	74	77	77	100	40	5.29
New Brunswick												
CAPMoN Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	99	88	75	85	133	4.65
Newfoundland												
CAPMoN Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	95	87	75	88	140	4.93
Nova Scotia												
CAPMoN Jackson	Jan 1 87	Jan 1 88	2	1	2	100	97	84	71	85	146	4.68
Kejimkujik (b)	Jan 1 87	Jan 1 88	3	2A	3	100	91	83	68	87	130	4.58
Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	86	73	88	139	4.56
Ontario												
CAPMoN Bonner Lake	Jan 1 87	Jan 1 88			3	100	94	80	65	93	136	4.63
Chalk River	Jan 1 87	Jan 1 88	2	2A	2	100	97	88	73	96	119	4.22
Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	96	88	73	91	124	4.27
Priceville	Jan 1 87	Jan 1 88	1	1	1	100	97	93	86	91	155	4.32
Priceville 2	Jan 1 87	Jan 1 88	1	1	1	100	96	92	81	93	118	4.29
APIOS-D												
Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	99	98	95	87	121	4.34
Charleston Lake	Jan 1 87	Jan 1 88	2	2A	2	100	87	95	85	93	98	4.20

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

pH (lab)

State Network Site Name	Period Summarized			Overall Site Data		%	%	%	%	%	Col	Wtd Mean	Total Precip cm
	First Date	Last Date	Rating	Rep	Comp	PCL	TP	VSL	VSMF	Eff	N		
Ontario													
APIOS-D													
Dorset (b)	Jan 1 87	Jan 1 88	1	1	1	99	99	93	86	88	144	4.26	79.6
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	2	100	91	97	91	91	105	4.35	70.9
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	97	94	84	88	113	4.20	68.9
Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	99	94	89	88	125	4.29	79.4
North Easthope	Jan 1 87	Jan 1 88	2	2A	1	100	94	94	87	87	131	4.31	88.2
Quetico Centre	Jan 1 87	Jan 1 88	3	1	3	99	90	95	82	100	65	4.93	53.9
Railton	Jan 1 87	Jan 1 88	1	1	1	100	95	92	88	89	71	4.25	88.6
Wallaceley	Jan 1 87	Jan 1 88	2	2B	2	100	95	95	87	88	121	4.31	87.8
Wilmar	Jan 1 87	Jan 1 88			2	97	92	87	75	85	114	4.25	96.9
APIOS-C													
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12	4.21	62.1
Azire Lake	Jan 5 87	Dec 30 87	2	1	2	100	100	100	100	79	13	4.45	55.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13	4.22	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13	4.24	89.8
Coldwater	Dec 30 86	Dec 30 87	2	1	2	100	91	92	92	76	12	4.45	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13	4.72	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13	4.25	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	99	92	92	79	12	4.96	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13	4.34	71.5
Burton Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13	4.27	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	100	100	100	62	13	4.26	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	100	100	100	83	13	4.35	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13	4.28	79.6
Moosbeam	Dec 29 86	Dec 30 87	3	2A	3	100	100	100	100	72	13	4.66	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12	4.27	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	90	77	77	82	10	5.18	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13	4.31	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13	4.83	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13	4.52	96.9
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10	4.39	71.4
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13	4.23	90.2
Quebec													
CPMOn													
Port Cartier	Jan 1 87	Jan 1 88	3	1	3	100	98	85	70	99	129	4.56	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	75	60	96	141	4.33	109.4

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

H⁺ (derived from pH)

State	Network	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	% N	Wtd Mean ug/l	H ⁺ Dep mg/m ²	Total Precip cm	
		First Date	Last Date	Rating	Rep Comp										
Alabama															
	NADP/NIN														
	Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	79	75	99	33	23.30	22.35	95.9
	UAPSP														
	Salma	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	92	100	65	26.38	20.39	77.3
Arizona															
	NADP/NIN														
	Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	92	89	98	33	18.91	4.26	22.5
Arkansas															
	NADP/NIN														
	Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42	13.12	17.93	136.7
California															
	NADP/NIN														
	Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	81	77	89	27	8.30	3.51	42.2
	Davis	Dec 30 86	Dec 29 87	2	2A	2	100	100	90	80	98	20	0.74	0.27	36.1
	Palmar Mountain	Dec 30 86	Dec 29 87	3	2A	3	100	71	75	67	98	22	6.00	3.93	65.4
Colorado															
	NADP/NIN														
	Dry Lake	Dec 30 86	Jan 5 88			3	100	79	77	84	83	38	16.79	12.28	73.1
	Las Animas	Dec 30 86	Dec 29 87	2	1	2	100	98	82	80	95	36	1.94	0.59	30.6
	Mesa Verde	Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36	15.99	7.78	48.7
	Sand Spring	Dec 30 86	Jan 5 88	3	2A	3	100	87	89	89	87	42	8.78	2.84	32.4
	Sugarloaf	Dec 30 86	Dec 29 87			2	100	93	87	88	89	43	10.77	6.11	56.7
UAPSP															
	Yampa	Jan 1 87	Jan 1 88	2	1	2	100	93	98	88	88	73	13.78	4.45	32.3
Delaware															
	MAP3S/PCN														
	Iowes	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59	44.82	42.57	95.0
Florida															
	NADP/NIN														
	Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	19.22	26.98	140.4
	Kennedy Space Cent	Dec 30 86	Dec 29 87	2	2A	1	100	96	85	83	101	40	17.94	28.42	158.4
	Quincy	Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39	17.44	19.82	113.6
Georgia															
	NADP/NIN														
	Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37	28.89	32.78	113.4
UAPSP															
	Uvalda	Jan 1 87	Jan 1 88	2	2A	2	100	93	96	82	94	61	24.58	24.03	97.8
Hawaii															
	NADP/NIN														
	Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	88	83	77	29	9.54	6.93	72.6
Idaho															
	NADP/NIN														
	Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	71	68	97	28	3.96	2.70	68.3
	Reynolds Creek	Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	2.16	0.48	22.4
	Smiths Ferry	Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29	3.21	1.71	53.2
Illinois															
	NADP/NIN														
	Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	75	76	97	38	46.33	47.68	102.9
	Bondville	Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45	54.07	47.20	87.3
	Dixon Springs	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40	43.85	41.85	95.4
	Mormouth	Dec 30 86	Dec 29 87			1	100	95	90	89	93	42	33.67	22.05	65.5
	Salem	Dec 30 86	Dec 29 87	2	1	2	100	93	82	80	97	41	44.29	40.05	90.4
	Shabbona	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	92	44	36.15	41.06	113.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

H⁺ (derived from pH)

State Network Site Name	Period Summarized		Overall Rating	Site Data Comp	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean ug/l	H ⁺ Dep mg/m ²	Total Precip cm	
	First Date	Last Date												
Illinois														
NADP/NIN Southern Ill U	Dec 30 86	Dec 29 87	2	2B	1	100	99	94	93	100	39	45.54	45.67	100.3
MAPS/PCN Illinois	Jan 1 87	Jan 1 88	3	2A	3	99	98	89	68	103	77	44.78	39.82	88.9
Indiana														
NADP/NIN Huntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48	49.40	41.73	84.5
Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47	48.70	44.51	91.4
Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35	48.51	47.17	97.2
UAPSP														
Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	98	97	93	92	90	43.83	36.07	82.3
Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	68	63.26	39.96	63.2
Iowa														
NADP/NIN McNay Research Sta	Dec 30 86	Dec 29 87	2	1	2	100	99	87	85	97	41	20.79	21.17	101.8
Kansas														
NADP/NIN Farlington	Dec 30 86	Dec 29 87	1	1	1	100	94	87	85	97	39	19.31	22.03	114.1
Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	90	89	95	42	15.58	13.87	89.0
Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	85	81	95	34	1.92	1.04	54.5
Kentucky														
NADP/NIN Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	40.44	39.33	97.3
Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43	36.95	38.08	103.1
Perryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39	51.56	48.61	94.3
UAPSP														
Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	100	100	99	100	109	53.32	48.60	91.2
Louisiana														
NADP/NIN Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39	20.76	29.53	142.2
Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41	21.69	33.87	156.1
Maine														
NADP/NIN Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44	27.51	23.60	85.8
Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	100	94	94	83	48	19.32	19.53	101.1
Maryland														
NADP/NIN White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	79	78	100	39	52.23	53.85	103.1
Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37	52.54	35.58	67.7
Massachusetts														
NADP/NIN East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41	46.70	48.01	102.8
Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42	41.79	41.06	98.3
UAPSP														
Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	92	99	78	45.12	47.23	104.7
Michigan														
NADP/NIN Kellogg	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39	52.22	42.81	82.0
Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	88	88	94	42	28.50	22.68	79.6
Wallston	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	46	35.85	33.33	93.0

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

H⁺ (derived from pH)

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Col	Wtd Mean ug/l	H ⁺ Dep mg/m ²	Total Precip cm		
	First Date	Last Date	Rating	Rep	PCL	TP	VSL	VSMP	Eff	N					
Michigan															
UAPSP															
Gaylord	Jan 1 87	Jan 1 88	2	2A	1	100	83	98	91	99	87	40.92	29.89	73.0	
Minnesota															
NADP/NIN															
Fernberg	Dec 30 86	Dec 29 87	3	1	3	100	86	88	88	92	42	7.36	4.59	62.4	
Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	87	83	97	33	9.52	4.90	51.5	
Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	87	85	92	41	10.68	8.39	78.5	
Mississippi															
NADP/NIN															
Coffeeville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33	20.88	30.88	147.9	
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38	23.37	32.61	139.6	
UAPSP															
Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	100	100	100	101	86	24.23	28.68	118.4	
Montana															
NADP/NIN															
Custer Battlefield	Dec 30 86	Dec 29 87	1	1	1	100	99	90	89	98	39	6.46	2.13	33.0	
Nebraska															
NADP/NIN															
Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	93	91	98	40	5.81	4.42	76.1	
North Platte Ag. E	Dec 30 86	Dec 29 87	2	2	100	92	83	80	92	35		2.88	1.44	50.0	
Nevada															
NADP/NIN															
Smith Valley	Dec 30 86	Dec 29 87				3	100	91	88	80	96	24	2.49	0.48	19.3
New Hampshire															
NADP/NIN															
Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	37.11	41.02	110.5	
New Jersey															
NADP/NIN															
Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	63.31	74.74	118.1	
New Mexico															
NADP/NIN															
Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	12.45	4.76	38.2	
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	88	85	95	34	11.93	2.97	24.9	
New York															
NADP/NIN															
Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	94	94	93	48	64.80	49.99	77.2	
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	63.66	74.70	117.4	
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	52.20	70.55	135.2	
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47	44.00	40.26	91.5	
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	57.64	44.83	77.8	
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	88	88	91	46	53.98	69.27	128.3	
MAP3S/PCN															
Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	93	99	62	44.12	45.45	103.0	
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	94	97	94	53.80	51.10	95.0	
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	79	100	85	37.03	38.26	103.3	
UAPSP															
Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	99	97	93	90	163	50.35	65.09	129.3	
North Carolina															
NADP/NIN															
Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29	27.05	25.08	92.7	
Cowesta	Dec 30 86	Dec 29 87	3	1	3	100	87	83	87	95	41	31.46	45.89	145.9	
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	83	82	98	42	31.81	36.21	113.8	
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	90	90	97	45	29.94	34.90	116.6	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

H⁺ (derived from pH)

State Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMF	% Col Eff	N	Wtd Mean ug/l	H ⁺ Dep mg/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep Comp									
North Carolina													
NADP/NIN Piedmont Station	Dec 30 86	Dec 29 87	2	2A 1	100	99	94	94	101	45	36.39	41.33	113.6
UAPSP Raleigh	Jan 1 87	Jan 1 88	2	2A 1	100	99	98	95	100	73	32.66	36.76	112.6
Ohio													
NADP/NIN Delaware	Dec 30 86	Dec 29 87	3	2A 3	100	88	71	69	102	31	63.29	36.64	57.9
Oxford	Dec 31 86	Dec 29 87	2	2B 2	100	89	79	78	99	40	62.11	43.65	70.3
Wooster	Dec 30 86	Dec 29 87	3	3 1	100	97	88	88	93	42	60.90	45.02	73.9
MAP3S/PCN Oxford	Jan 1 87	Jan 1 88	2	2B 2	99	98	91	71	102	80	55.63	40.08	72.1
UAPSP Zanesville	Jan 1 87	Jan 1 88	3	3 1	100	99	98	98	100	112	71.27	55.48	77.8
Oklahoma													
NADP/NIN Goodwell Research	Dec 30 86	Dec 29 87	2	2A 2	100	99	94	93	91	38	1.84	0.96	51.9
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1 3	100	79	85	84	96	36	9.35	8.53	91.2
Oregon													
NADP/NIN Bull Run	Dec 30 86	Dec 29 87	1	1 1	100	93	87	84	100	38	5.44	7.47	137.3
H.J. Andrews	Dec 30 86	Dec 29 87	1	1 1	100	90	96	95	97	39	4.49	6.66	148.5
Starkey Experiment	Dec 30 86	Dec 29 87	2	1 2	100	86	87	82	85	31	4.94	1.80	36.3
Pennsylvania													
NADP/NIN Kane	Dec 30 86	Dec 29 87	3	2A 3	100	90	83	82	91	42	70.61	94.49	133.8
Leading Ridge	Dec 30 86	Dec 29 87	2	2A 1	100	92	86	86	89	44	83.98	83.41	99.3
Milford	Dec 30 86	Dec 30 87	1	1 1	100	91	85	84	95	42	58.15	64.33	110.6
Penn State	Dec 30 86	Dec 29 87	2	2B 2	100	85	90	90	98	45	79.17	72.26	91.3
MAP3S/PCN Penn State	Jan 1 87	Jan 1 88	2	2B 1	100	100	98	91	109	70	67.77	56.78	83.8
South Carolina													
NADP/NIN Santee National Wi	Dec 30 86	Dec 29 87	3	2A 3	100	94	77	74	98	35	26.30	28.65	108.9
South Dakota													
UAPSP Brookings	Jan 1 87	Jan 1 88	3	2A 3	100	93	95	73	102	38	6.85	3.89	56.7
Tennessee													
NADP/NIN Giles County	Dec 30 86	Dec 29 87	2	2A 2	100	88	75	73	102	36	30.82	31.36	101.7
Walker Branch	Dec 30 86	Dec 29 87	2	2B 2	100	97	83	82	100	40	54.59	49.38	90.5
MAP3S/PCN Oak Ridge	Jan 1 87	Jan 1 88	2	2B 1	100	100	100	100	108	63	49.19	44.07	89.6
Texas													
NADP/NIN Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1 1	100	97	92	89	95	34	8.55	4.20	49.1
IBJ National Grass	Dec 30 86	Dec 29 87	2	2 1	100	100	90	89	96	40	11.77	11.64	98.9
Longview	Dec 30 86	Dec 29 87	2	2B 2	100	88	92	91	95	39	22.62	30.56	135.1
UAPSP Marshall	Jan 1 87	Jan 1 88	2	2A 1	100	100	100	99	105	81	23.36	29.24	125.2
Utah													
NADP/NIN Bryce Canyon	Dec 30 86	Dec 29 87	2	1 2	100	95	82	80	93	35	8.50	3.72	43.8

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

H⁺ (derived from pH)

State	Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean ug/l	H ⁺ Dep mg/m ²	Total Precip cm	
		First Date	Last Date	Rating	Rep Comp										
Vermont															
NADE/NTN															
Underhill	UAPSP	Dec 30 86	Dec 29 87	3	1	3	100	89	92	92	84	47	41.94	44.33	105.7
Underhill Center		Jan 1 87	Jan 1 88	2	2A	2	100	98	97	91	86	117	38.64	40.18	104.0
Virginia	NADE/NTN														
Horton's Station	MAP3S/PCN	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36	32.31	27.11	83.9
Virginia		Jan 1 87	Jan 1 88	2	2A	2	100	98	95	75	114	53	38.33	51.17	133.5
Washington	NADE/NTN														
La Grande		Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37	10.05	7.34	73.0
Palouse Conservati		Dec 30 86	Dec 29 87		2		100	97	85	79	86	30	2.99	1.17	39.3
West Virginia	NADE/NTN														
Parsons		Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45	60.92	60.48	99.3
Wisconsin	NADE/NTN														
Lake Dubay		Dec 30 86	Dec 29 87	2	2B	2	100	95	81	80	97	40	22.59	12.37	54.8
Lake Geneva		Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42	38.14	30.54	80.1
Scooper		Dec 30 86	Dec 29 87	2	1	2	100	99	87	86	98	42	8.02	5.02	62.6
Suring-NADE		Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45	27.88	17.08	61.3
Trout Lake		Dec 30 86	Dec 29 87	2	1	2	100	90	92	92	95	46	19.65	13.41	68.3
UAPSP															
Round Lake		Jan 1 87	Jan 1 88			1	100	97	97	85	99	72	14.57	7.94	54.5
Shawano		Jan 1 87	Jan 1 88			1	100	99	98	92	98	99	28.97	19.51	67.4
Wyoming	NADE/NTN														
Newcastle		Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39	5.83	1.73	29.7
Puerto Rico	NADE/NTN														
El Verde		Dec 30 86	Dec 29 87			3	100	74	77	77	100	40	5.16	20.09	389.3
New Brunswick	CAPMoN														
Harcourt		Jan 1 87	Jan 1 88	2	1	2	100	99	88	75	85	133	22.24	24.32	109.4
Newfoundland	CAPMoN														
Bay d'Espoir		Jan 1 87	Jan 1 88	3	1	3	100	95	87	75	88	140	11.87	16.19	136.4
Nova Scotia	CAPMoN														
Jackson		Jan 1 87	Jan 1 88	2	1	2	100	97	84	71	85	146	20.74	27.59	133.0
Kejimkujik (b)		Jan 1 87	Jan 1 88	3	2A	3	100	91	83	68	87	130	26.38	32.66	123.8
Kejimkujik 2		Jan 1 87	Jan 1 88	2	1	2	100	92	86	73	88	139	27.84	34.60	124.3
Ontario	CAPMoN														
Bonner Lake		Jan 1 87	Jan 1 88			3	100	94	80	65	93	136	23.48	17.98	76.6
Chalk River		Jan 1 87	Jan 1 88	2	2A	2	100	97	88	73	96	119	59.66	46.43	77.8
Longwoods (a)		Jan 1 87	Jan 1 88	2	2B	2	100	96	88	73	91	124	54.31	43.10	79.4
Priceville		Jan 1 87	Jan 1 88	1	1	1	100	97	93	86	91	155	48.02	50.32	104.8
Priceville 2		Jan 1 87	Jan 1 88	1	1	1	100	96	92	81	93	118	50.97	43.15	84.7
APIOS-D															
Balsam Lake		Jan 1 87	Jan 1 88	2	1	2	100	99	98	95	87	121	45.75	33.73	73.7
Charleston Lake		Jan 1 87	Jan 1 88	2	2A	2	100	87	95	85	93	98	63.80	59.71	93.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

H⁺ (derived from pH)

State Network Site Name	Period Summarized		Overall Site Data First Date Last Date Rating	Rep Comp	PCL	% Col				Wtd Mean ug/l	H ⁺ Dep mg/m ²	Total Precip cm		
						% TP	% VSL	% VSMP	% Eff					
Ontario														
APIOS-D														
Dorset (b)	Jan 1 87	Jan 1 88	1	1	1	99	99	93	86	88	144	54.50	43.40	79.6
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	2	100	91	97	91	91	105	44.29	31.40	70.9
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	97	94	84	88	113	62.70	43.21	68.9
Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	99	94	89	88	125	51.26	40.72	79.4
North Easthope	Jan 1 87	Jan 1 88	2	2A	1	100	94	94	87	87	131	49.12	43.31	88.2
Quetico Centre	Jan 1 87	Jan 1 88	3	1	3	99	90	95	82	100	65	11.77	6.34	53.9
Railton	Jan 1 87	Jan 1 88	1	1	1	100	95	92	88	89	71	56.15	49.76	88.6
Wellseeley	Jan 1 87	Jan 1 88	2	2B	2	100	95	95	87	88	121	49.25	43.24	87.8
Wilmar	Jan 1 87	Jan 1 88			2	97	92	87	75	85	114	56.74	54.99	96.9
APIOS-C														
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12	61.33	38.07	62.1
Anure Lake	Jan 5 87	Dec 30 87	2	1	2	100	100	100	100	79	13	35.14	19.37	55.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13	60.49	45.60	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13	57.44	51.61	89.8
Coldwater	Dec 30 86	Dec 30 87	2	1	2	100	91	92	92	76	12	35.78	29.62	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13	18.91	10.22	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13	56.63	42.02	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	99	92	92	79	12	11.06	5.06	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13	45.71	32.68	71.5
Burton Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13	54.24	40.68	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	100	100	100	62	13	54.36	36.08	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	100	100	100	83	13	45.05	31.97	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13	52.25	41.58	79.6
Moorebeam	Dec 29 86	Dec 30 87	3	2A	3	100	100	100	100	72	13	21.99	14.58	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12	54.16	38.93	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	90	77	77	82	10	6.56	3.78	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13	49.19	37.05	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13	14.92	8.60	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13	30.41	29.47	96.9
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10	40.87	29.19	71.4
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13	58.24	52.54	90.2
Quebec														
CAPMon														
Port Cartier	Jan 1 87	Jan 1 88	3	1	3	100	98	85	70	99	129	27.27	26.15	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	75	60	96	141	46.86	51.24	109.4

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Sulfate

State	Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col	Wtd N	SO4 Dep g/m ²	% Sea Salt Corr.	Total cm			
		First Date	Last Date	Rating	Rep Comp												
Alabama	NADP/NIN																
	Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	77	73	99	32	1.35	1.29	95.9		
Arizona	NADP/NIN																
	Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	90	86	98	32	1.59	0.36	22.5		
Arkansas	NADP/NIN																
	Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42	1.12	1.54	136.7		
California	NADP/NIN																
	Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	74	66	89	23	1	0.53	0.22	42.2	
	Palmar Mountain	Dec 30 86	Dec 29 87	3	2A	3	100	71	73	64	98	21	0.43	0.28	65.4		
Colorado	NADP/NIN																
	Dry Lake	Dec 30 86	Jan 5 88			3	100	79	75	82	83	37	1	1.04	0.76	73.1	
	Las Animas	Dec 30 86	Dec 29 87	2	1	2	100	98	77	73	95	33	1	0.90	0.28	30.6	
	Mesa Verde	Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36		1.08	0.53	48.7	
	Sand Spring	Dec 30 86	Jan 5 88	3	2A	3	100	87	83	83	87	39		0.83	0.27	32.4	
	Sugarloaf	Dec 30 86	Dec 29 87			2	100	93	87	88	89	43	1	0.71	0.40	56.7	
Delaware	MAP3S/PCN																
	Lewes	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59	2.51	2.38	95.0		
													2.07	1.97	17		
Florida	NADP/NIN																
	Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	1.06	1.49		140.4	
	Kennedy Space Cent	Dec 30 86	Dec 29 87	2	2A	2	100	96	81	79	101	38	1.00	1.40	6	158.4	
	Quincy	Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39	1.02	1.61		113.6	
Georgia	NADP/NIN																
	Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37	1.45	1.65		113.4	
Hawaii	NADP/NIN																
	Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	86	80	77	28	0.45	0.33		72.6	
Idaho	NADP/NIN																
	Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	69	66	97	27	0.28	0.19		68.3	
	Reynolds Creek	Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	0.51	0.11		22.4	
	Smiths Ferry	Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29	0.30	0.16		53.2	
Illinois	NADP/NIN																
	Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	73	74	97	37	3.20	3.29		102.9	
	Bondville	Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45	3.21	2.80		87.3	
	Dixon Springs	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40	2.60	2.48		95.4	
	Mormouth	Dec 30 86	Dec 29 87			1	100	95	88	87	93	41	1	2.51	1.64		65.5
	Salem	Dec 30 86	Dec 29 87	3	1	3	100	93	79	76	97	39		2.41	2.18		90.4
	Shabbona	Dec 30 86	Dec 29 87	1	1	1	100	98	88	88	92	43		2.54	2.89		113.6
	Southern Ill U	Dec 30 86	Dec 29 87	2	2B	1	100	99	92	90	100	38		2.50	2.51		100.3
	MAP3S/PCN																
	Illinois	Jan 1 87	Jan 1 88	3	2A	3	99	98	89	68	103	77	2.83	2.52		88.9	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Sulfate

State Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col	Eff N	N BDL	Wtd Mean	SO4 Dep g/m ²	% Sea Salt Corr.	Total Precip cm
	First Date	Last Date	Rating	Rep Comp											
Indiana															
NADP/NIN															
Buntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48		2.95	2.49	84.5
Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47		3.19	2.91	91.4
Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35		3.14	3.06	97.2
Iowa															
NADP/NIN															
McNay Research Sta	Dec 30 86	Dec 29 87	3	1	3	100	99	85	83	97	40		1.88	1.92	101.8
Kansas															
NADP/NIN															
Farlington	Dec 30 86	Dec 29 87	2	1	2	100	94	85	83	97	38		1.38	1.57	114.1
Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	87	85	95	40		1.45	1.29	89.0
Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	83	79	95	33		0.94	0.51	54.5
Kentucky															
NADP/NIN															
Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	1	2.04	1.98	97.3
Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43		1.96	2.02	103.1
Parryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39		2.67	2.52	94.3
Louisiana															
NADP/NIN															
Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39		1.29	1.83	7
Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41		1.36	2.13	156.1
Maine															
NADP/NIN															
Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44		1.27	1.09	85.8
Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	99	87	86	84	44		0.86	0.87	101.1
Maryland															
NADP/NIN															
White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	77	76	100	38		2.54	2.62	103.1
Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37		2.63	1.78	67.7
Massachusetts															
NADP/NIN															
East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41		2.17	2.23	102.8
Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42		1.86	1.83	98.3
Michigan															
NADP/NIN															
Kellogg	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39		3.15	2.59	82.0
Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	85	83	94	40		1.72	1.37	79.6
Wellsston	Dec 30 86	Dec 29 87	2	1	2	100	99	88	88	91	45		2.07	1.93	93.0
Minnesota															
NADP/NIN															
Fernberg	Dec 30 86	Dec 29 87	3	1	3	100	86	87	85	92	41		1.00	0.62	62.4
Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	85	80	97	32		1.72	0.88	51.5
Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	1	1.10	0.87	78.5
Mississippi															
NADP/NIN															
Coffeeville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33		1.25	1.85	147.9
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38		1.36	1.89	139.6
Montana															
NADP/NIN															
Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37	1	0.75	0.25	33.0

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

State Network Site Name	Period Summarized		Overall Site Data		% Col		Wtd SO4		% Sea Salt		Total Precip		
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Eff	N	Mean mg/l	Dep g/m ²	Corr. cm
Nebraska													
NADP/NIN													
Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38	1	1.56
North Platte Ag. E	Dec 30 86	Dec 29 87			2	100	92	77	73	92	32	0.90	0.45
Nevada													
NADP/NIN													
Smith Valley	Dec 30 86	Dec 29 87			3	100	91	88	80	96	24	0.47	0.09
New Hampshire													
NADP/NIN													
Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	1.63	1.80
New Jersey													
NADP/NIN													
Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	2.82	3.33
New Mexico													
NADP/NIN													
Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	1.00	0.38
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33	0.94	0.23
New York													
NADP/NIN													
Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	1	3.25
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	2.85	3.35
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	2.33	3.14
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47	1.95	1.78
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	2.70	2.10
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44	2.28	2.93
MAP3S/PCN													
Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	93	99	62	2.04	2.10
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	99	95	97	95	1.87	1.93
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	80	100	86	2.47	2.34
North Carolina													
NADP/NIN													
Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29	1.55	1.43
Coweta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	1.55	2.26
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41	1.70	1.94
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44	1.60	1.87
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45	1.53	1.79
Ohio												4	113.6
NADP/NIN													
Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30	3.58	2.07
Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39	3.14	2.21
Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	3.62	2.67
MAP3S/PCN													
Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	91	73	102	82	2.99	2.16
Oklahoma													
NADP/NIN													
Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	1	1.18
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	1.15	1.04
Oregon													
NADP/NIN													
Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35	0.36	0.49
H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	0.21	0.31
Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	0.23	0.08

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Sulfate

State Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean mg/l	SO4 Dep g/m ²	% Sea Salt Precip	Total Corr. cm
	First Date	Last Date	Rating	Rep Comp						BDL				
Pennsylvania														
NADP/NIN														
Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	3.29	4.40	133.8
Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	3.78	3.75	99.3
Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	2.43	2.69	110.6
Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44	3.53	3.22	91.3
MAP3S/PCN														
Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	90	109	69	3.22	2.70	83.8
South Carolina														
NADP/NIN														
Santee National Wt	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	1.34	1.46	
												1.27	1.38	5
Tennessee														
NADP/NIN														
Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34	1.59	1.61	101.7
Walker Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	2.72	2.46	90.5
MAP3S/PCN														
Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	100	108	63	2.52	2.25	89.6
Texas														
NADP/NIN														
Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33	1.20	0.59	49.1
IBJ National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39	1.22	1.20	98.9
Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39	1.42	1.92	135.1
Utah														
NADP/NIN														
Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	0.70	0.31	43.8
Vermont														
NADP/NIN														
Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45	2.00	2.12	105.7
Virginia														
NADP/NIN														
Horton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36	1.64	1.37	83.9
MAP3S/PCN														
Virginia	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	75	114	53	1.82	2.43	133.5
Washington														
NADP/NIN														
La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37	0.62	0.45	73.0
Falcons Conservati	Dec 30 86	Dec 29 87	2	2	100	96	83	76	86	29	1	0.44	0.17	39.3
West Virginia														
NADP/NIN														
Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45	3.06	3.04	99.3
Wisconsin														
NADP/NIN														
Lake Dubay	Dec 30 86	Dec 29 87	3	2B	3	100	95	77	76	97	38	1.71	0.94	54.8
Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42	2.68	2.15	80.1
Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	85	84	98	41	1.30	0.81	62.6
Surry-NADP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45	1.83	1.12	61.3
Trot Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	90	90	95	45	1	1.59	1.08
Wyoming														
NADP/NIN														
Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39	1	0.77	0.23
Puerto Rico														
NADP/NIN														
El Verde	Dec 30 86	Dec 29 87	3	100	74	77	77	100	40			0.67	2.59	389.3
												0.38	1.48	43

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Sulfate

State Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd N	SO4 Dep g/m ²	% Sea Salt Corr.	Total Precip cm	
	First Date	Last Date	Rating	Rep Comp											
New Brunswick CAPMoN Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	99	89	77	85	137	2	0.95 0.88	1.04 0.96	109.4 8
Newfoundland CAPMoN Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	95	91	82	88	154	14	0.64 0.47	0.87 0.64	136.4 27
Nova Scotia CAPMoN Jackson	Jan 1 87	Jan 1 88	2	1	2	100	96	83	70	85	145	5	0.90 0.82	1.20 1.09	133.0 9
Kejimkujik (b)	Jan 1 87	Jan 1 88	3	+ 2A	3	100	91	84	69	87	133	2	1.10 1.00	1.36 1.23	123.8 10
Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	85	72	88	138	2	1.13 1.03	1.41 1.28	124.3 9
Ontario CAPMoN Bonner Lake	Jan 1 87	Jan 1 88			2	100	97	84	72	93	151	17	1.16	0.89	76.6
Chalk River	Jan 1 87	Jan 1 88	2	2A	2	100	98	88	75	96	122	2	2.58	2.00	77.8
Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	97	89	77	91	130		2.82	2.24	79.4
Priceville	Jan 1 87	Jan 1 88	1	1	1	100	97	93	87	91	158	2	2.61	2.73	104.8
Priceville 2	Jan 1 87	Jan 1 88	1	1	1	100	97	94	86	92	125	2	2.97	2.51	84.7
APIOS-D															
Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	99	98	95	87	121	1	2.77	2.04	73.7
Charleston Lake	Jan 1 87	Jan 1 88	2	2A	2	100	85	94	80	94	92	1	2.88	2.70	93.6
Dorset (b)	Jan 1 87	Jan 1 88	1	1	1	99	99	94	89	88	148	2	2.66	2.12	79.6
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	2	100	81	95	84	94	97		3.32	2.35	70.9
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	94	92	79	88	106		3.40	2.34	68.9
Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	98	95	89	88	125		2.55	2.03	79.4
North Easthope	Jan 1 87	Jan 1 88	2	2A	1	100	93	93	84	88	127	1	3.21	2.83	88.2
Railton	Jan 1 87	Jan 1 88	1	1	1	100	93	91	85	90	69		2.91	2.58	88.6
Wellesley	Jan 1 87	Jan 1 88	2	2B	1	100	91	93	83	90	115	5	3.33	2.92	87.8
Wilmar	Jan 1 87	Jan 1 88			3	97	84	84	70	86	106	1	3.11	3.01	96.9
APIOS-C															
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12		3.63	2.26	62.1
Azure Lake	Jan 5 87	Dec 30 87	2	1	2	100	100	100	100	79	13		1.84	1.02	55.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13		3.24	2.44	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13		4.52	4.06	89.8
Coldwater	Dec 30 86	Dec 30 87	2	1	2	100	91	92	92	76	12		2.67	2.21	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13		1.39	0.75	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13		2.81	2.09	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	100	100	100	79	13		1.14	0.52	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13		2.54	1.82	71.5
Huron Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13		3.64	2.73	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	87	84	85	69	11		2.88	1.91	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	100	100	100	83	13		2.37	1.69	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13		4.10	3.26	79.6
Moonbeam	Dec 29 86	Dec 30 87	3	2A	3	100	79	92	92	67	12		1.81	1.20	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12		4.18	3.00	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	80	70	69	77	9		0.74	0.43	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13		4.77	3.60	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13		1.21	0.70	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13		1.88	1.82	96.9

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Sulfate

State Network Site Name	Period Summarized	Overall Site Data				% Col	N	Mean	Wtd Dep	SO4 g/m ²	Sea Salt Precip	Total Corr. cm
		First Date	Last Date	Rating	Rep Comp							
Ontario												
APIOS-C												
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10	2.48
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13	2.79
Quebec												
CAPMON												
Port Cartier	Jan 1 87	Jan 1 88	2	1	2	100	98	88	77	99	142	9
												1.27
												1.23
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	76	63	96	147	1
Sutton 2	Jan 1 87	Jan 1 88	3	1	3	100	97	76	63	94	147	2
												2.13
												2.33
												109.4
												109.3
												3

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Nitrate

State Network Site Name	Period Summarized		Overall Site Data				% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd N BDL	NO3 Mean mg/l	NO3 Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep	Comp											
Alabama																
NADP/NIN																
Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	77	73	99	32		0.75	0.72	95.9	
UAPSP																
Selma	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	90	100	64		0.76	0.59	77.3	
Arizona																
NADP/NIN																
Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	90	86	98	32		0.84	0.19	22.5	
Arkansas																
NADP/NIN																
Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42		0.78	1.07	136.7	
California																
NADP/NIN																
Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	74	66	89	23	1	0.92	0.39	42.2	
Palomar Mountain	Dec 30 86	Dec 29 87	3	2A	3	100	71	73	64	98	21	1	0.39	0.25	65.4	
Colorado																
NADP/NIN																
Dry Lake	Dec 30 86	Jan 5 88			3	100	79	75	82	83	37		0.81	0.59	73.1	
Las Animas	Dec 30 86	Dec 29 87	2	1	2	100	98	77	73	95	33	3	1.45	0.44	30.6	
Mesa Verde	Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36		0.95	0.46	48.7	
Sand Spring	Dec 30 86	Jan 5 88	3	2A	3	100	87	83	83	87	39		0.87	0.28	32.4	
Sugarloaf	Dec 30 86	Dec 29 87			2	100	93	87	88	89	43	2	0.99	0.56	56.7	
UAPSP																
Yampa	Jan 1 87	Jan 1 88	2	1	2	100	93	97	87	88	72		0.78	0.25	32.3	
Delaware																
MAP3S/PCN																
Lowes	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59		1.53	1.46	95.0	
Florida																
NADP/NIN																
Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	1	0.65	0.91	140.4	
Kennedy Space Cent	Dec 30 86	Dec 29 87	2	2A	2	100	96	81	79	101	38	3	0.60	0.95	158.4	
Quincy	Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39		0.55	0.62	113.6	
Georgia																
NADP/NIN																
Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37		0.87	0.99	113.4	
Hawaii																
NADP/NIN																
Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	86	80	77	28	10	0.04	0.03	72.6	
Idaho																
NADP/NIN																
Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	69	66	97	27	2	0.35	0.24	68.3	
Reynolds Creek	Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	1	0.69	0.15	22.4	
Smiths Ferry	Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29		0.40	0.21	53.2	
Illinois																
NADP/NIN																
Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	73	74	97	37		1.79	1.84	102.9	
Bondville	Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45		1.60	1.40	87.3	
Dixon Springs	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40		1.32	1.26	95.4	
Mormouth	Dec 30 86	Dec 29 87		1	100	95	88	87	93	41	1		1.54	1.01	65.5	
Salem	Dec 30 86	Dec 29 87	3	1	3	100	93	79	76	97	39	1	1.14	1.03	90.4	
Shabbona	Dec 30 86	Dec 29 87	1	1	1	100	98	88	88	92	43		1.61	1.83	113.6	
Southern Ill U	Dec 30 86	Dec 29 87	2	2B	1	100	99	92	90	100	38		1.31	1.31	100.3	
MAP3S/PCN																
Illinois	Jan 1 87	Jan 1 88	3	2A	3	99	98	89	68	103	77		1.55	1.38	88.9	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Nitrate

State Network Site Name	Period Summarized First Date Last Date	Overall Site Data Rating Rep Comp	% PCL	% IP	% VSL	% VSMP	% Col Eff	% N	Wtd N Mean mg/l	NO3 Dep g/m ²	Total Precip cm
Indiana											
NADE/NIN											
Benton	Dec 30 86 Dec 29 87	2 2A 2	100 100	94 94	94 96	48	1.83	1.55	84.5		
Indiana Dunes	Dec 30 86 Dec 29 87	3 3 2	100 98	94 94	94 91	47	1.79	1.63	91.4		
Purdue U Ag Farm	Dec 30 86 Dec 29 87	3 2A 3	98 72	69 73	92 92	35	1.68	1.63	97.2		
UAPSP											
Fort Wayne	Jan 1 87 Jan 1 88	3 3 2	100 97	97 97	92 93	89	1.62	1.34	82.3		
Rockport	Jan 1 87 Jan 1 88	3 3 1	100 99	99 94	94 96	68	1.69	1.06	63.2		
Iowa											
NADE/NIN											
McNay Research Sta	Dec 30 86 Dec 29 87	3 1 3	100 99	85 83	97 97	40 1	1.35	1.37	101.8		
Kansas											
NADE/NTN											
Farlington	Dec 30 86 Dec 29 87	2 1 2	100 94	85 83	97 97	38 1	0.98	1.12	114.1		
Konza Prairie	Dec 30 86 Dec 29 87	2 2A 1	100 98	87 85	95 95	40	1.21	1.08	89.0		
Scott Lake	Dec 30 86 Dec 29 87	2 1 2	100 100	83 79	95 95	33	1.21	0.66	54.5		
Kentucky											
NADE/MN											
Land Between the L	Dec 30 86 Dec 29 87	1 1 1	100 97	92 91	99 99	41	1.10	1.07	97.3		
Lilley Cornett Woo	Dec 30 86 Dec 29 87	2 2A 1	100 93	87 86	96 96	43	1.24	1.28	103.1		
Perryville	Dec 30 86 Dec 29 87	2 2A 2	100 93	83 83	99 99	39	1.30	1.23	94.3		
UAPSP											
Clearfield	Jan 1 87 Jan 1 88	2 2A 1	100 100	99 97	100 100	107 1	1.49	1.36	91.2		
Louisiana											
NADE/NIN											
Iberia	Jan 6 87 Dec 29 87	2 2A 1	100 99	92 91	96 96	39	0.89	1.27	142.2		
Southeast	Jan 6 87 Dec 30 87	1 1 1	100 100	96 95	97 97	41 1	0.87	1.36	156.1		
Maine											
NADE/MN											
Bridgton	Dec 30 86 Dec 29 87	2 1 2	100 99	90 90	91 91	44 1	0.75	0.64	85.8		
Greenville Station	Dec 30 86 Dec 29 87	3 2A 3	100 99	87 86	84 84	44	0.58	0.58	101.1		
UAPSP											
Winterport	Jan 1 87 Jan 1 88	2 2A 2	100 100	99 95	89 89	99	0.76	0.72	94.2		
Maryland											
NADE/MTN											
White Rock	Dec 30 86 Dec 29 87	2 2A 2	100 90	77 76	100 100	38	1.57	1.62	103.1		
Wye	Dec 30 86 Dec 29 87	3 2A 3	100 89	73 73	95 95	37	1.64	1.11	67.7		
Massachusetts											
NADE/MN											
East	Dec 30 86 Dec 29 87	3 3 1	100 96	87 85	97 97	41	1.05	1.08	102.8		
Quabbin Reservoir	Dec 30 86 Dec 29 87	2 2A 1	98 99	88 89	97 97	42	1.20	1.17	98.3		
UAPSP											
Turners Falls	Jan 1 87 Jan 1 88	2 2A 1	100 99	98 89	99 99	76	1.60	1.67	104.7		
Michigan											
NADE/MN											
Kalloggy	Dec 30 86 Dec 29 87	2 2A 2	100 84	77 83	87 87	39 1	2.18	1.79	82.0		
Raco	Dec 30 86 Dec 29 87	1 1 1	100 88	85 83	83 84	40 1	1.51	1.20	79.6		
Hallston	Dec 30 86 Dec 29 87	2 1 2	100 99	88 88	88 91	45	1.58	1.47	93.0		
UAPSP											
Gaylord	Jan 1 87 Jan 1 88	2 2A 1	100 82	98 90	99 99	86	1.84	1.35	73.0		
Minnesota											
NADE/NTN											
Fernberg	Dec 30 86 Dec 29 87	3 1 3	100 86	87 85	92 92	41 3	0.95	0.59	62.4		
Lamberton	Dec 30 86 Dec 29 87	3 1 3	100 94	85 80	97 97	32	1.55	0.80	51.5		

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

Nitrate																	
State	Network	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	Wtd N	N03 Mean	Dep g/m ²	Total Precip cm			
	Site Name	First Date	Last Date	Rating	Rep Comp						EOL	mg/l					
Minnesota	NADP/NIN																
	Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	2	1.02	0.80	78.5	
Mississippi	NADP/NIN																
	Coffeeville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33		0.75	1.11	147.9	
	Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38		0.76	1.06	139.6	
Montana	UAPSP																
	Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	99	100	99	101	85		0.80	0.95	118.4	
Nebraska	NADP/NIN																
	Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37	1	0.71	0.23	33.0	
Nevada	NADP/NIN																
	Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38	1	1.41	1.07	76.1	
	North Platte Ag. E	Dec 30 86	Dec 29 87		2		100	92	77	73	92	32		1.14	0.57	50.0	
New Hampshire	NADP/NIN																
	Smith Valley	Dec 30 86	Dec 29 87				3	100	91	88	80	96	24	1	0.66	0.13	19.3
New Jersey	NADP/NIN																
	Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45		1.17	1.29	110.5	
New Mexico	NADP/NIN																
	Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	1	1.93	2.28	118.1	
New York	NADP/NIN																
	Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	1	2.07	1.59	77.2	
	Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45		2.49	2.93	117.4	
	Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	1	1.48	2.00	135.2	
	Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47		1.54	1.41	91.5	
	Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	1	1.71	1.33	77.8	
	West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44		1.51	1.94	128.3	
	MAP3S/PCN																
	Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	93	99	62		1.43	1.48	103.0	
	Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	99	95	97	95		2.01	1.91	95.0	
	Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	80	100	86		1.34	1.38	103.3	
	UAPSP																
	Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	98	95	89	90	156		1.83	2.37	129.3	
North Carolina	NADP/NIN																
	Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29		0.87	0.81	92.7	
	Coweta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	2	0.77	1.12	145.9	
	Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41		0.98	1.12	113.8	
	Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44	2	0.93	1.08	116.6	
	Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45		1.05	1.20	113.6	
	Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73		0.92	1.04	112.6	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Nitrate

State	Network	Site Name	Period Summarized	Overall Site Data	% PCL	% TP	% VSL	% VSMF	% Col Eff	% N	Wtd N	NO3 Mean	Dep g/m ²	Total Precip cm	
			First Date Last Date	Rating	Rep Comp										
Ohio															
	NADP/NIN														
	Delaware		Dec 30 86 Dec 29 87	3	2A 3	100	88	69	67	102	30	1.94	1.12	57.9	
	Oxford		Dec 31 86 Dec 29 87	2	2B 2	100	89	77	76	99	39	1.65	1.16	70.3	
	Wooster		Dec 30 86 Dec 29 87	3	3 1	100	97	88	88	93	42	2.10	1.55	73.9	
	MAP3S/PCN														
	Oxford		Jan 1 87 Jan 1 88	2	2B 2	99	98	91	73	102	82	1.67	1.20	72.1	
	URPSP														
	Zanesville		Jan 1 87 Jan 1 88	3	3 1	100	99	98	98	100	112	2.07	1.61	77.8	
Oklahoma															
	NADP/NIN														
	Goodwell Research		Dec 30 86 Dec 29 87	2	2A 2	100	99	90	88	91	36	3	1.26	0.65	51.9
	Salt Plains Nation		Jan 6 87 Jan 5 88	3	1 3	100	79	85	84	96	36	1.11	1.02	91.2	
Oregon															
	NADP/NIN														
	Bull Run		Dec 30 86 Dec 29 87	2	1 2	100	93	81	78	100	35	0.32	0.44	137.3	
	H.J. Andrews		Dec 30 86 Dec 29 87	1	1 1	100	90	96	95	97	39	0.15	0.22	148.5	
	Starkey Experiment		Dec 30 86 Dec 29 87	2	1 2	100	86	85	79	85	30	3	0.36	0.13	36.3
Pennsylvania															
	NADP/NIN														
	Kane		Dec 30 86 Dec 29 87	3	2A 3	100	90	83	82	91	42	1.78	2.38	133.8	
	Leading Ridge		Dec 30 86 Dec 29 87	2	2A 1	100	92	86	86	89	44	2.44	2.43	99.3	
	Milford		Dec 30 86 Dec 30 87	1	1 1	100	91	85	84	95	42	1.82	2.01	110.6	
	Penn State		Dec 30 86 Dec 29 87	2	2B 2	100	85	88	88	98	44	2.19	2.00	91.3	
	MAP3S/PCN														
	Penn State		Jan 1 87 Jan 1 88	2	2B 1	100	100	98	90	109	69	2.12	1.78	83.8	
South Carolina															
	NADP/NIN														
	Santee National Wi		Dec 30 86 Dec 29 87	3	2A 3	100	94	77	74	98	35	0.74	0.81	108.9	
South Dakota															
	URPSP														
	Brookings		Jan 1 87 Jan 1 88	3	2A 3	100	93	95	71	102	37	1.28	0.73	56.7	
Tennessee															
	NADP/NIN														
	Giles County		Dec 30 86 Dec 29 87	3	2A 3	100	88	71	69	102	34	0.88	0.90	101.7	
	Walker Branch		Dec 30 86 Dec 29 87	2	2B 2	100	97	83	82	100	40	1.27	1.15	90.5	
	MAP3S/PCN														
	Oak Ridge		Jan 1 87 Jan 1 88	2	2B 1	100	100	100	100	108	63	1.22	1.10	89.6	
Texas															
	NADP/NIN														
	Guadalupe Mountain		Dec 30 86 Dec 29 87	1	1 1	100	97	90	87	95	33	2	0.71	0.35	49.1
	IBJ National Grass		Dec 30 86 Dec 29 87	2	2 1	100	100	88	87	96	39	1	0.91	0.90	98.9
	Longview		Dec 30 86 Dec 29 87	2	2B 2	100	88	92	91	95	39	2	0.73	0.98	135.1
	URPSP														
	Marshall		Jan 1 87 Jan 1 88	2	2A 1	100	99	99	98	105	80	0.79	0.99	125.2	
Utah															
	NADP/NIN														
	Bryce Canyon		Dec 30 86 Dec 29 87	2	1 2	100	95	82	80	93	35	0.67	0.29	43.8	
Vermont															
	NADP/NIN														
	Underhill		Dec 30 86 Dec 29 87	3	1 3	100	89	88	88	84	45	1	1.59	1.68	105.7
	URPSP														
	Underhill Center		Jan 1 87 Jan 1 88	2	2A 2	100	98	97	91	86	116	1.44	1.49	104.0	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Nitrate

State Network Site Name	Period Summarized			Overall Site Data			%	%	%	%	%	%	Col	N	Wtd Mean mg/l	Total Precip cm
	First Date	Last Date	Rating	Rep	Comp	PCL	TP	VSL	VSM	Eff	N	EDL				
Virginia NAEP/NIN																
Horton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36		1.04	0.87	83.9	
MAP3S/PCN																
Virginia Washington NAEP/NIN	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	75	114	53		1.27	1.69	133.5	
La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37		0.32	0.23	73.0	
Palouse Conservati	Dec 30 86	Dec 29 87		2	100	96	83	76	86	29	1		0.48	0.19	39.3	
West Virginia NAEP/NIN																
Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45		1.82	1.80	99.3	
Wisconsin NAEP/NIN																
Lake Dubay	Dec 30 86	Dec 29 87	3	2B	3	100	95	77	76	97	38	1	1.39	0.76	54.8	
Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42		1.94	1.55	80.1	
Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	85	84	98	41		1.23	0.77	62.6	
Suring-NAEP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45		1.44	0.88	61.3	
Trout Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	90	90	95	45	1	1.28	0.88	68.3	
UAPSP																
Round Lake	Jan 1 87	Jan 1 88			1	100	97	96	82	99	70		1.30	0.71	54.5	
Shawano	Jan 1 87	Jan 1 88			1	100	98	96	86	98	93		1.56	1.05	67.4	
Wyoming NAEP/NIN																
Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39	3	0.80	0.24	29.7	
Puerto Rico NAEP/NIN																
El Verde	Dec 30 86	Dec 29 87			3	100	74	77	77	100	40	3	0.20	0.77	389.3	
New Brunswick CPMn																
Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	99	89	77	85	137	7	0.58	0.63	109.4	
Newfoundland CPMn																
Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	95	91	82	88	154	26	0.29	0.39	136.4	
Nova Scotia CPMn																
Jackson	Jan 1 87	Jan 1 88	2	1	2	100	96	83	70	85	145	11	0.53	0.70	133.0	
Kejimkujik (b)	Jan 1 87	Jan 1 88	3	2A	3	100	91	84	69	87	132	2	0.76	0.94	123.8	
Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	85	72	88	138	4	0.82	1.02	124.3	
Ontario CPMn																
Bonner Lake	Jan 1 87	Jan 1 88		2	100	97	84	72	93	151	20		0.98	0.75	76.6	
Chalk River	Jan 1 87	Jan 1 88	2	2A	2	100	98	88	75	96	122	3	2.05	1.60	77.8	
Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	97	89	77	91	130	2	2.25	1.79	79.4	
Priceville	Jan 1 87	Jan 1 88	1	1	1	100	97	94	88	91	159	1	2.36	2.48	104.8	
Priceville 2	Jan 1 87	Jan 1 88	1	1	1	100	97	94	86	92	125	1	2.62	2.22	84.7	
APICS-D																
Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	96	97	92	86	118	3	2.66	1.96	73.7	
Charleston Lake	Jan 1 87	Jan 1 88	2	2A	2	100	80	94	81	92	93	3	2.43	2.27	93.6	
Dorset (b)	Jan 1 87	Jan 1 88	1	1	1	99	94	93	86	89	144	4	2.70	2.15	79.6	
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	2	100	80	94	81	95	93	1	2.53	1.79	70.9	
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	95	93	81	89	110	3	2.60	1.79	68.9	
Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	98	94	87	88	122	1	2.37	1.88	79.4	
North Easthope	Jan 1 87	Jan 1 88	2	2A	1	100	92	92	83	88	125	2	2.35	2.08	88.2	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Nitrate

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Col	%	Wtd	NO3	Total	
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Eff	N	N	Mean	Dep	Precip	
										EDL	mg/l	g/m ²	cm		
Ontario															
APIOS-D															
Quetico Centre	Jan 1 87	Jan 1 88	3	1	3	99	90	95	84	100	66	5	1.07	0.58	53.9
Railton	Jan 1 87	Jan 1 88	1	1	1	100	89	91	86	88	70	1	2.58	2.29	88.6
Wellesley	Jan 1 87	Jan 1 88	2	2B	2	100	83	92	79	91	110	4	2.52	2.21	87.8
Wilmar	Jan 1 87	Jan 1 88			3	97	76	84	70	87	106	1	2.73	2.65	96.9
APIOS-C															
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12		2.97	1.84	62.1
Anure Lake	Jan 5 87	Dec 30 87	2	1	2	100	92	92	92	81	12		1.52	0.84	55.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13		2.66	2.00	75.4
Colchester	Dec 30 86	Dec 29 87	3	2A	3	100	90	92	92	77	12		2.95	2.65	89.8
Coldwater	Dec 30 86	Dec 30 87	2	1	2	100	91	92	92	76	12		2.35	1.94	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	98	92	92	84	12		1.36	0.73	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13		2.62	1.94	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	100	100	100	79	13		1.35	0.62	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	86	92	92	81	12		2.28	1.63	71.5
Gowganda	Dec 30 86	Dec 29 87	3	2A	3	100	85	87	85	73	11		1.61	0.99	61.3
Huron Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13		2.75	2.06	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	87	84	85	69	11		2.64	1.75	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	86	85	85	87	11		2.13	1.51	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13		2.81	2.24	79.6
Moorsbeam	Dec 29 86	Dec 30 87	3	2A	3	100	97	92	92	74	12		1.25	0.83	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12		2.96	2.13	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	66	62	62	78	8		0.81	0.47	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13		3.27	2.47	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13		1.18	0.68	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13		1.73	1.68	96.9
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10		2.21	1.58	71.4
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13		2.45	2.21	90.2
Quebec															
CPMN															
Port Cartier	Jan 1 87	Jan 1 88	2	1	2	100	98	88	77	99	142	18	0.58	0.56	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	76	63	96	147	1	1.88	2.06	109.4
Sutton 2	Jan 1 87	Jan 1 88	3	1	3	100	97	76	63	94	147	2	1.85	2.02	109.3

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Ammonium

State Network Site Name	Period Summarized		Overall Site Data			% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N	Wtd Mean	NH4 Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep Comp							BDL	mg/l			
Alabama															
NADP/NTN															
Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	77	73	99	32	4	0.16	0.16	95.9
UAPSP															
Selma	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	90	100	64	8	0.17	0.13	77.3
Arizona															
NADP/NIN															
Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	90	86	98	32	5	0.15	0.03	22.5
Arkansas															
NADP/NIN															
Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42	3	0.24	0.33	136.7
California															
NADP/NIN															
Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	74	66	89	23	9	0.18	0.07	42.2
Palomar Mountain	Dec 30 86	Dec 29 87	3	2A	3	100	71	73	64	98	21	4	0.07	0.05	65.4
Colorado															
NADP/NIN															
Dry Lake	Dec 30 86	Jan 5 88	3		100	79	75	82	83	37	8	0.11	0.08	73.1	
Las Animas	Dec 30 86	Dec 29 87	2	1	2	100	98	77	73	95	33	6	0.52	0.16	30.6
Mesa Verde	Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36	8	0.13	0.06	48.7
Sand Spring	Dec 30 86	Jan 5 88	3	2A	3	100	87	83	83	87	39	7	0.12	0.04	32.4
Sugarloaf	Dec 30 86	Dec 29 87			2	100	93	87	88	89	43	9	0.21	0.12	56.7
Delaware															
MAP3S/PCN															
Lewes	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59		0.28	0.27	95.0
Florida															
NADP/NIN															
Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	8	0.10	0.15	140.4
Kennedy Space Cent	Dec 30 86	Dec 29 87	2	2A	2	100	96	81	79	101	38	13	0.08	0.12	158.4
Quincy	Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39	10	0.08	0.09	113.6
Georgia															
NADP/NIN															
Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37	6	0.14	0.16	113.4
Hawaii															
NADP/NIN															
Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	86	80	77	28	20	0.01	0.01	72.6
Idaho															
NADP/NIN															
Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	69	66	97	27	9	0.06	0.04	68.3
Reynolds Creek	Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	5	0.25	0.06	22.4
Smiths Ferry	Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29	4	0.09	0.05	53.2
Illinois															
NADP/NIN															
Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	73	74	97	37		0.45	0.47	102.9
Bondville	Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45		0.37	0.33	87.3
Dixon Springs	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40	2	0.26	0.25	95.4
Monmouth	Dec 30 86	Dec 29 87			1	100	95	88	87	93	41	3	0.43	0.28	65.5
Salem	Dec 30 86	Dec 29 87	3	1	3	100	93	79	76	97	39	2	0.22	0.20	90.4
Shabbona	Dec 30 86	Dec 29 87	1	1	1	100	98	88	88	92	43		0.40	0.46	113.6
Southern Ill U	Dec 30 86	Dec 29 87	2	2B	1	100	99	92	90	100	38		0.26	0.26	100.3
MAP3S/PCN															
Illinois	Jan 1 87	Jan 1 88	3	2A	3	99	98	89	69	103	78	3	0.43	0.38	88.9

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Ammonium													NH4 Dep g/m ²	Total Precip cm		
State	Network Site Name	Period Summarized		Overall Site Data	% PCL	% TP	% VSL	% VSMP	% Col Eff	% N	Wtd N Mean	EDL mg/l				
		First Date	Last Date	Rating	Rep Comp					N						
Indiana																
	NADP/NIN															
	Huntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48	3	0.42	0.35	84.5
	Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47	1	0.41	0.37	91.4
	Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35	1	0.40	0.39	97.2
	UAPSP															
	Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	98	97	93	92	90	1	0.37	0.30	82.3
	Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	68	1	0.53	0.33	63.2
Iowa																
	NADP/NIN															
	McNay Research Sta	Dec 30 86	Dec 29 87	3	1	3	100	99	85	83	97	40	8	0.38	0.39	101.8
Kansas																
	NADP/NIN															
	Farlington	Dec 30 86	Dec 29 87	2	1	2	100	94	85	83	97	38	3	0.24	0.27	114.1
	Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	87	85	95	40	2	0.33	0.29	89.0
	Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	83	79	95	33	1	0.54	0.30	54.5
Kentucky																
	NADP/NIN															
	Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	4	0.18	0.17	97.3
	Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43	5	0.17	0.18	103.1
	Perryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39	3	0.22	0.20	94.3
	UAPSP															
	Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	94	100	103	6	0.28	0.26	91.2
Louisiana																
	NADP/NIN															
	Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39		0.24	0.34	142.2
	Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41	6	0.21	0.33	156.1
Maine																
	NADP/NIN															
	Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44	12	0.08	0.07	85.8
	Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	99	87	86	84	44	18	0.07	0.07	101.1
	UAPSP															
	Winterport	Jan 1 87	Jan 1 88	2	2A	2	100	99	98	92	89	96	21	0.11	0.10	94.2
Maryland																
	NADP/NIN															
	White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	77	76	100	38	2	0.25	0.25	103.1
	Nye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37	1	0.26	0.18	67.7
Massachusetts																
	NADP/NIN															
	East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41	6	0.11	0.11	102.8
	Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42	5	0.14	0.14	98.3
	UAPSP															
	Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	89	99	76	8	0.16	0.17	104.7
Michigan																
	NADP/NIN															
	Kellogg	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39	1	0.46	0.38	82.0
	Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	85	83	94	40	3	0.32	0.25	79.6
	Wellston	Dec 30 86	Dec 29 87	2	1	2	100	99	88	88	91	45	1	0.33	0.30	93.0
	UAPSP															
	Gaylord	Jan 1 87	Jan 1 88	2	2A	1	100	82	97	89	99	85	1	0.40	0.29	73.0
Minnesota																
	NADP/NIN															
	Fernberg	Dec 30 86	Dec 29 87	3	1	3	100	86	87	85	92	41	12	0.34	0.21	62.4
	Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	85	80	97	32	1	0.64	0.33	51.5

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

Ammonium

State Network Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N	Wtd Mean	NH4 Dep	Total Precip	
	First Date	Last Date	Rating	Rep Comp						EDL	EDL	ng/l	g/m ²	cm	
Minnesota NAQP/NIN Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	6	0.34	0.27	78.5
Mississippi NAQP/NIN Coffeyville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33	2	0.19	0.28	147.9
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38	5	0.16	0.23	139.6
UAPSP Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	98	99	94	102	81	4	0.32	0.38	118.4
Montana NAQP/NIN Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37	4	0.15	0.05	33.0
Nebraska NAQP/NIN Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38	4	0.61	0.46	76.1
North Platte Ag. E	Dec 30 86	Dec 29 87			2	100	92	77	73	92	32	4	0.39	0.19	50.0
Nevada NAQP/NIN Smith Valley	Dec 30 86	Dec 29 87			3	100	91	88	80	96	24	1	0.25	0.05	19.3
New Hampshire NAQP/NIN Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	9	0.15	0.17	110.5
New Jersey NAQP/NIN Washington Xing	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	4	0.28	0.33	118.1
New Mexico NAQP/NIN Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	3	0.16	0.06	38.2
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33	3	0.14	0.04	24.9
New York NAQP/NIN Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	2	0.37	0.29	77.2
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	2	0.41	0.49	117.4
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	14	0.19	0.25	135.2
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47	6	0.22	0.20	91.5
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	3	0.28	0.22	77.8
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44	6	0.15	0.20	128.3
MAP3S/PCN Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	93	99	62	1	0.21	0.22	103.0
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	93	97	93	3	0.34	0.32	95.0
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	79	100	85	4	0.28	0.29	103.3
UAPSP Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	97	93	84	91	147	9	0.33	0.42	129.3
North Carolina NAQP/NIN Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29	1	0.19	0.18	92.7
Cowesta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	8	0.13	0.19	145.9
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41	4	0.23	0.26	113.8
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44	6	0.18	0.21	116.6
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45	2	0.22	0.25	113.6
UAPSP Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	94	100	72		0.21	0.23	112.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Ammonium

State Network Site Name	Period Summarized		Overall Site Data			% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean mg/l	NE4 Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep Comp							N	EDL		
Ohio														
NADP/NIN														
Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30	0.43	0.25	57.9
Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39	3	0.28	0.19
Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	1	0.50	0.37
MAP3S/PCN														
Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	91	73	102	82	1	0.37	0.27
UAPSP														
Zanesville	Jan 1 87	Jan 1 88	3	3	1	100	99	98	97	100	111		0.54	0.42
Oklahoma														
NADP/NIN														
Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	4	0.64	0.33
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	2	0.33	0.30
Oregon														
NADP/NIN														
Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35	12	0.06	0.08
H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	26	0.02	0.03
Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	15	0.06	0.02
Pennsylvania														
NADP/NIN														
Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	4	0.28	0.37
Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	2	0.33	0.33
Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	5	0.18	0.20
Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44	4	0.28	0.26
MAP3S/PCN														
Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	91	109	70		0.43	0.36
South Carolina														
NADP/NIN														
Santee National Wt	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	12	0.08	0.09
South Dakota														
UAPSP														
Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	71	102	37		0.67	0.38
Tennessee														
NADP/NIN														
Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34	5	0.14	0.14
Walker Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	4	0.19	0.17
MAP3S/PCN														
Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	100	108	63	3	0.25	0.23
Texas														
NADP/NIN														
Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33	3	0.21	0.10
IAB National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39	3	0.24	0.23
Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39	6	0.14	0.19
UAPSP														
Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	96	105	79		0.21	0.27
Utah														
NADP/NIN														
Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	6	0.09	0.04
Vermont														
NADP/NIN														
Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45	4	0.27	0.29
UAPSP														
Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	96	89	86	114	9	0.31	0.32

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Ammunium

State	Network	Period Summarized	Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	NH4 Dep	Total Precip		
	Site Name	First Date Last Date	Rating	Rep Comp						EDL	mg/l	g/m ²	cm		
Virginia															
	NADP/NIN														
Horton's Station	MAP3S/PCN	Dec 30 86 Dec 29 87	3	3	2	100	89	79	80	97	36	6	0.16	0.14	83.9
Virginia		Jan 1 87 Jan 1 88	2	2A	2	100	98	95	75	114	53		0.24	0.32	133.5
Washington															
	NADP/NIN														
La Grande		Dec 30 86 Dec 29 87	2	2A	2	100	94	81	79	83	37	14	0.05	0.04	73.0
Palouse Conservati		Dec 30 86 Dec 29 87			2	100	96	83	76	86	29	3	0.17	0.07	39.3
West Virginia															
	NADP/NIN														
Parsons		Dec 30 86 Dec 29 87	2	2B	1	100	96	90	90	88	45	4	0.28	0.28	99.3
Wisconsin															
	NADP/NIN														
Lake Dubay		Dec 30 86 Dec 29 87	3	2B	3	100	95	77	76	97	38	1	0.31	0.17	54.8
Lake Geneva		Dec 30 86 Dec 29 87	3	2A	3	98	98	85	86	100	42	1	0.50	0.40	80.1
Spokane		Dec 30 86 Dec 29 87	2	1	2	100	99	85	84	98	41	6	0.44	0.28	62.6
Suring-NADP		Dec 30 86 Dec 29 87	1	1	1	100	98	90	90	97	45	1	0.36	0.22	61.3
Trout Lake		Dec 30 86 Dec 29 87	2	1	2	100	90	90	90	95	45	10	0.29	0.20	68.3
UAPSP															
Round Lake		Jan 1 87 Jan 1 88			2	100	97	96	81	99	69	7	0.47	0.25	54.5
Shawano		Jan 1 87 Jan 1 88			2	100	98	95	83	98	90	1	0.49	0.33	67.4
Wyoming															
	NADP/NIN														
Newcastle		Dec 30 86 Dec 29 87	2	2A	1	100	93	88	87	89	39	9	0.14	0.04	29.7
Puerto Rico															
	NADP/NIN														
El Verde		Dec 30 86 Dec 29 87			3	100	74	77	77	100	40	26	0.02	0.07	389.3
New Brunswick															
CAPMoN															
Harcourt		Jan 1 87 Jan 1 88	1	1	1	100	99	91	81	85	144	5	0.10	0.11	109.4
Newfoundland															
CAPMoN															
Bay d'Espoir		Jan 1 87 Jan 1 88	3	1	3	100	97	93	86	87	161	5	0.04	0.06	136.4
Goose Bay		Jan 1 87 Jan 1 88	3	2B	3	100	95	74	62	89	158	6	0.06	0.05	84.1
Nova Scotia															
CAPMoN															
Jackson		Jan 1 87 Jan 1 88	2	1	2	100	97	87	78	85	160	1	0.09	0.12	133.0
Kejimkujik (b)		Jan 1 87 Jan 1 88	2	2A	2	100	91	85	72	87	139	5	0.10	0.12	123.8
Kejimkujik 2		Jan 1 87 Jan 1 88	2	1	2	100	92	88	77	88	148	10	0.10	0.12	124.3
Ontario															
CAPMoN															
Bonner Lake		Jan 1 87 Jan 1 88			2	100	98	87	77	93	162	3	0.19	0.15	76.6
Chalk River		Jan 1 87 Jan 1 88	2	2A	1	100	98	91	81	96	132		0.38	0.30	77.8
Longwoods (a)		Jan 1 87 Jan 1 88	2	2B	1	100	98	92	82	91	138		0.52	0.41	79.4
Pricerville		Jan 1 87 Jan 1 88	1	1	1	100	99	96	92	91	166		0.56	0.59	104.8
Pricerville 2		Jan 1 87 Jan 1 88	1	1	1	100	98	95	88	92	128	1	0.63	0.54	84.7
APIOS-D															
Balsam Lake		Jan 1 87 Jan 1 88	2	1	2	100	98	98	93	87	119	11	0.47	0.35	73.7
Charleston Lake		Jan 1 87 Jan 1 88	3	2A	3	100	73	91	70	92	81	14	0.31	0.29	93.6
Dorset (b)		Jan 1 87 Jan 1 88	1	1	1	99	95	91	82	88	137	15	0.46	0.36	79.6
Longwoods (b)		Jan 1 87 Jan 1 88	2	2B	2	100	81	93	78	92	90		0.59	0.42	70.9
Melbourne		Jan 1 87 Jan 1 88	2	2A	2	100	94	93	81	88	109	1	0.55	0.38	68.9
Nithgrove		Jan 1 87 Jan 1 88	1	1	1	99	98	94	87	88	122	6	0.46	0.37	79.4

Note: The annual data completeness level also depends on the quarterly data completeness levels

1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Ammonium

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Col	%	Wtd	NH4	Total	
	First Date	Last Date	Rating	Rep Comp	PCL	IP	VSL	VSMP	Eff	Eff	N	Mean	Dep	Precip	
										EDL	mg/l	g/m ²	cm		
Ontario															
APIOS-D															
North Easthope	Jan 1 87	Jan 1 88	2	2A	2	100	87	92	83	88	125	3	0.60	0.53	88.2
Quetico Centre	Jan 1 87	Jan 1 88	3	1	3	99	87	94	78	100	62	7	0.31	0.17	53.9
Railton	Jan 1 87	Jan 1 88	1	1	1	100	95	92	88	89	71	2	0.48	0.42	88.6
Wellesley	Jan 1 87	Jan 1 88	2	2B	2	100	89	92	80	90	111		0.61	0.54	87.8
Wilmer	Jan 1 87	Jan 1 88			2	97	85	86	74	85	112	7	0.48	0.46	96.9
APIOS-C															
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12		0.55	0.34	62.1
Azure Lake	Jan 5 87	Dec 30 87	2	1	2	100	100	100	100	79	13		0.26	0.14	55.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	96	92	92	81	12		0.48	0.36	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13		0.71	0.64	89.8
Coldwater	Dec 30 86	Dec 30 87	2	1	2	100	82	77	77	75	10		0.82	0.68	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13	2	0.33	0.18	54.0
Dorset (c)	Dec 30 86	Dec 29 87	2	1	2	100	97	92	92	87	12		0.50	0.37	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	97	85	85	80	11		0.37	0.17	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	86	92	92	81	12		0.44	0.31	71.5
Burton Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13		0.67	0.50	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	80	77	77	67	10		0.54	0.36	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	100	100	100	83	13	1	0.39	0.28	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13		0.77	0.62	79.6
Moorsbeam	Dec 29 86	Dec 30 87	3	2A	3	100	75	84	85	69	11		0.27	0.18	66.3
Palmarston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12		0.89	0.64	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	80	70	69	77	9	1	0.16	0.09	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13		0.66	0.50	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13	1	0.28	0.16	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13		0.41	0.40	96.9
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10		0.62	0.44	71.4
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13	1	0.44	0.40	90.2
Quebec															
CAPMcN															
Port Cartier	Jan 1 87	Jan 1 88	1	1	1	100	99	90	80	99	148	5	0.13	0.13	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	79	67	95	156		0.40	0.44	109.4
Sutton 2	Jan 1 87	Jan 1 88	3	1	3	100	98	78	65	94	152		0.39	0.43	109.3

Note: The annual data completeness level also depends on the quarterly data completeness levels

1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Calcium

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Wtd N	Ca Dep g/m ²	Total Precip cm			
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMF	Col Eff						
Alabama															
NADP/NIN															
Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	77	73	99	32	0.08	0.07	95.9	
UAPSP															
Selma	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	90	100	64	19	0.05	0.04	77.3
Arizona															
NADP/NIN															
Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	90	86	98	32	0.23	0.05	22.5	
Arkansas															
NADP/NIN															
Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42	0.13	0.18	136.7	
California															
NADP/NIN															
Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	74	66	89	23	1	0.10	0.04	42.2
Palmar Mountain	Dec 30 86	Dec 29 87	3	2A	3	100	71	73	64	98	21	0.06	0.04	65.4	
Colorado															
NADP/NIN															
Dry Lake	Dec 30 86	Jan 5 88			3	100	79	75	82	83	37	0.14	0.10	73.1	
Las Animas	Dec 30 86	Dec 29 87	2	1	2	100	98	77	73	95	33	0.40	0.12	30.6	
Mesa Verde	Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36	0.23	0.11	48.7	
Sand Spring	Dec 30 86	Jan 5 88	3	2A	3	100	87	83	83	87	39	0.22	0.07	32.4	
Sugarloaf	Dec 30 86	Dec 29 87			2	100	93	87	88	89	43	0.16	0.09	56.7	
UAPSP															
Yampa	Jan 1 87	Jan 1 88	3	1	3	100	92	97	86	89	71	4	0.13	0.04	32.3
Delaware															
MAP3S/PCN															
Leaves	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59	1	0.13	0.12	95.0
Florida															
NADP/NIN															
Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	0.08	0.11	140.4	
Kennedy Space Cent	Dec 30 86	Dec 29 87	2	2A	2	100	96	81	79	101	38	0.09	0.14	158.4	
Quincy	Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39	0.06	0.07	113.6	
Georgia															
NADP/NIN															
Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37	0.06	0.07	113.4	
UAPSP															
Uvalda	Jan 1 87	Jan 1 88	2	2A	2	100	93	96	82	94	61	11	0.08	0.08	97.8
Hawaii															
NADP/NIN															
Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	86	80	77	28	4	0.01	0.01	72.6
Idaho															
NADP/NIN															
Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	69	66	97	27	0.08	0.06	68.3	
Reynolds Creek	Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	0.22	0.05	22.4	
Smiths Ferry	Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29	1	0.13	0.07	53.2
Illinois															
NADP/NIN															
Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	73	74	97	37	0.29	0.30	102.9	
Bondville	Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45	0.24	0.21	87.3	
Dixon Springs	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40	0.18	0.18	95.4	
Mormouth	Dec 30 86	Dec 29 87			1	100	95	88	87	93	41	1	0.29	0.19	65.5
Salem	Dec 30 86	Dec 29 87	3	1	3	100	93	79	76	97	39	0.16	0.15	90.4	
Shabbona	Dec 30 86	Dec 29 87	1	1	1	100	98	88	88	92	43	0.25	0.28	113.6	
Southern Ill U	Dec 30 86	Dec 29 87	2	2B	1	100	99	92	90	100	38	1	0.17	0.17	100.3

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Calcium

State Network Site Name	Period Summarized			Overall Site Data			% Rep Comp	PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd N	Ca Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep Comp	PCL	VSL	VSMP	N	EDL	Mean mg/l						
Indiana																
NADP/MIN																
Huntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48	0.21	0.17	84.5		
Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47	0.31	0.29	91.4		
Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35	0.29	0.28	97.2		
WAPSP																
Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	98	97	93	92	90	9	0.20	0.17	82.3	
Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	68	4	0.22	0.14	63.2	
Iowa																
NADP/MIN																
McNay Research Sta	Dec 30 86	Dec 29 87	3	1	3	100	99	85	83	97	40	0.32	0.32	101.8		
Kansas																
NADP/MIN																
Farlington	Dec 30 86	Dec 29 87	2	1	2	100	94	85	83	97	38	0.19	0.22	114.1		
Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	87	85	95	40	0.23	0.20	89.0		
Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	83	79	95	33	0.36	0.19	54.5		
Kentucky																
NADP/MIN																
Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	2	0.10	0.09	97.3	
Iddiley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43		0.18	0.19	103.1	
Perryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39		0.13	0.12	94.3	
WAPSP																
Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	95	100	105	14	0.14	0.12	91.2	
Louisiana																
NADP/MIN																
Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39		0.10	0.14	142.2	
Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41		0.08	0.13	156.1	
Maine																
NADP/MIN																
Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44		0.04	0.04	85.8	
Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	99	87	86	84	44	2	0.03	0.03	101.1	
WAPSP																
Winterport	Jan 1 87	Jan 1 88	2	2A	2	100	98	98	93	90	97	52	0.03	0.03	94.2	
Maryland																
NADP/MIN																
White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	77	76	100	38		0.11	0.12	103.1	
Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37		0.10	0.07	67.7	
Massachusetts																
NADP/MIN																
East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41		0.06	0.06	102.8	
Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42		0.04	0.04	98.3	
WAPSP																
Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	92	99	78	26	0.04	0.04	104.7	
Michigan																
NADP/MIN																
Kalloggy	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39		0.22	0.18	82.0	
Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	85	83	94	40		0.17	0.13	79.6	
Wellston	Dec 30 86	Dec 29 87	2	1	2	100	99	88	88	91	45	1	0.19	0.17	93.0	
WAPSP																
Gaylord	Jan 1 87	Jan 1 88	2	2A	1	100	83	98	91	99	87	13	0.19	0.14	73.0	
Minnesota																
NADP/MIN																
Fernberg	Dec 30 86	Dec 29 87	3	1	3	100	86	87	85	92	41	1	0.19	0.12	62.4	
Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	85	80	97	32		0.35	0.18	51.5	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

Calcium

State Network Site Name	Period Summarized		Overall Site Data		Rep Comp	PCL	TP	VSL	VSMP	% Col Eff	N	EDL	Wtd Mean mg/l	Ca Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	%							N				
Minnesota NADP/NIN Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	1	0.15	0.12	78.5
Mississippi NADP/NIN Coffeesville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33		0.07	0.10	147.9
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38		0.08	0.12	139.6
UAPSP Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	97	102	83	16	0.07	0.08	118.4
Montana NADP/NIN Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37		0.19	0.06	33.0
Nebraska NADP/NIN Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38		0.30	0.23	76.1
North Platte Ag. E	Dec 30 86	Dec 29 87	2	2	100	92	77	73	92	32			0.23	0.11	50.0
Nevada NADP/NIN Smith Valley	Dec 30 86	Dec 29 87		3	100	91	88	80	96	24			0.09	0.02	19.3
New Hampshire NADP/NIN Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45		0.05	0.05	110.5
New Jersey NADP/NIN Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44		0.09	0.11	118.1
New Mexico NADP/NIN Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35		0.27	0.10	38.2
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33		0.16	0.04	24.9
New York NADP/NIN Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	1	0.14	0.11	77.2
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45		0.14	0.16	117.4
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43		0.06	0.08	135.2
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47		0.09	0.08	91.5
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46		0.08	0.07	77.8
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44		0.07	0.09	128.3
MAP3S/PCN Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	91	99	61	5	0.08	0.08	103.0
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	92	97	92	5	0.13	0.12	95.0
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	79	100	85	21	0.08	0.08	103.3
UAPSP Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	97	93	85	90	149	11	0.14	0.18	129.3
North Carolina NADP/NIN Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29		0.06	0.06	92.7
Coweta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	2	0.05	0.07	145.9
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41		0.05	0.06	113.8
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44		0.07	0.08	116.6
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45		0.06	0.07	113.6
UAPSP Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73	25	0.04	0.04	112.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Calcium

State Network Site Name	Period Summarized		Overall Site Data				% PCL	% TP	% VSL	% VSMP	% Col Eff	Wtd N	Ca Mean Dep g/m ²	Total Precip cm	
	First Date	Last Date	Rating	Rep Comp	N	EDL									
Ohio															
NADP/NIN															
Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30	0.17	0.10	57.9	
Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39	0.15	0.11	70.3	
Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	0.21	0.16	73.9	
MAP3S/PCN															
Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	90	71	102	79	1	0.16	0.11	72.1
UAPSP															
Zanesville	Jan 1 87	Jan 1 88	3	3	1	100	99	98	97	100	111	7	0.25	0.20	77.8
Oklahoma															
NADP/NIN															
Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	1	0.34	0.17	51.9
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	0.24	0.22	91.2	
Oregon															
NADP/NIN															
Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35	0.04	0.06	137.3	
H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	1	0.04	0.06	148.5
Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	0.06	0.02	36.3	
Pennsylvania															
NADP/NIN															
Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	0.10	0.13	133.8	
Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	0.13	0.13	99.3	
Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	0.08	0.09	110.6	
Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44	0.12	0.11	91.3	
MAP3S/PCN															
Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	97	87	109	67	2	0.11	0.09	83.8
South Carolina															
NADP/NIN															
Santee National Wt	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	0.08	0.08	108.9	
South Dakota															
UAPSP															
Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	73	102	38	1	0.27	0.16	56.7
Tennessee															
NADP/NIN															
Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34	0.09	0.09	101.7	
Wallbar Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	0.12	0.11	90.5	
MAP3S/PCN															
Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	98	108	62	3	0.11	0.10	89.6
Texas															
NADP/NIN															
Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33	0.30	0.15	49.1	
LBJ National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39	0.27	0.27	98.9	
Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39	0.13	0.18	135.1	
UAPSP															
Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	100	100	99	105	81	10	0.11	0.14	125.2
Utah															
NADP/NIN															
Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	0.17	0.08	43.8	
Vermont															
NADP/NIN															
Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45	1	0.09	0.09	105.7
UAPSP															
Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	97	91	86	116	31	0.07	0.08	104.0

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Calcium

State Network Site Name	Period Summarized		Overall Site Data		Rep	Comp	PCL	% TP	% VSL	% VSMP	% Col	Eff	N	Wtd Mean	Ca Dep g/m ²	Total Precip cm	
	First Date	Last Date	Rating														
Virginia																	
NADP/NIN																	
Barton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36		0.11	0.09	83.9		
MAP3S/PCN																	
Virginia Washington	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	73	114	52	6	0.06	0.08	133.5		
NADP/NIN																	
La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37		0.04	0.03	73.0		
Palouse Conservati	Dec 30 86	Dec 29 87		2	100	96	83	76	86	29	1	0.08	0.03	39.3			
West Virginia																	
NADP/NIN																	
Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45	1	0.17	0.17	99.3		
Wisconsin																	
NADP/NIN																	
Lake Dubay	Dec 30 86	Dec 29 87	3	2B	3	100	95	77	76	97	38		0.22	0.12	54.8		
Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42		0.27	0.22	80.1		
Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	85	84	98	41		0.24	0.15	62.6		
Suring-NADP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45		0.20	0.12	61.3		
Trout Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	90	90	95	45		0.19	0.13	68.3		
UPSP																	
Round Lake	Jan 1 87	Jan 1 88		1	100	97	97	85	99	72	4	0.26	0.14	54.5			
Shawano	Jan 1 87	Jan 1 88		2	100	98	96	84	98	91	6	0.20	0.13	67.4			
Wyoming																	
NADP/NIN																	
Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39		0.24	0.07	29.7		
Puerto Rico																	
NADP/NIN																	
El Verde	Dec 30 86	Dec 29 87		3	100	74	77	77	100	40			0.15	0.58	389.3		
New Brunswick																	
CRPMON																	
Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	98	88	75	85	134	12	0.04	0.04	109.4		
Newfoundland																	
CRPMON																	
Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	95	90	80	88	149	21	0.04	0.06	136.4		
Nova Scotia																	
CRPMON																	
Jackson	Jan 1 87	Jan 1 88	2	1	2	100	97	84	71	85	147	19	0.04	0.05	133.0		
Kejimkujik (b)	Jan 1 87	Jan 1 88	3	2A	3	100	91	83	68	87	131	17	0.05	0.06	123.8		
Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	86	73	88	139	20	0.05	0.06	124.3		
Ontario																	
CRPMON																	
Bonner Lake	Jan 1 87	Jan 1 88		3	100	94	82	68	93	143	2	0.12	0.10	76.6			
Chalk River	Jan 1 87	Jan 1 88	3	2A	3	100	97	87	71	96	116	6	0.13	0.10	77.8		
Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	96	87	73	91	123		0.30	0.24	79.4		
Pricesville	Jan 1 87	Jan 1 88	1	1	1	100	97	92	85	91	153	1	0.28	0.30	104.8		
Pricesville 2	Jan 1 87	Jan 1 88	1	1	1	100	96	92	80	93	117	1	0.30	0.26	84.7		
APIOS-D																	
Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	99	98	93	86	119	17	0.40	0.30	73.7		
Charleston Lake	Jan 1 87	Jan 1 88	2	2A	2	100	83	93	79	93	91	17	0.27	0.25	93.6		
Dorset (b)	Jan 1 87	Jan 1 88	1	1	1	99	89	90	81	90	135	36	0.26	0.21	79.6		
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	1	100	85	95	86	94	99	5	0.47	0.33	70.9		
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	92	92	78	87	105	14	0.31	0.22	68.9		
Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	98	94	87	89	123	37	0.22	0.17	79.4		
North Easthope	Jan 1 87	Jan 1 88	2	2A	1	100	93	92	82	88	124	13	0.44	0.39	88.2		

Note: The annual data completeness level also depends on the quarterly data completeness levels

1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Calcium

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	Col	%	Wtd	Ca	Total		
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMF	Eff	N	N	Mean	Dep	Precip	
											mg/l	g/m ²	cm		
Ontario															
APIOS-D															
Railton	Jan 1 87	Jan 1 88	1	1	1	100	91	90	83	89	67	17	0.22	0.20	88.6
Wellasley	Jan 1 87	Jan 1 88	2	2B	2	100	83	91	77	89	107	15	0.40	0.36	87.8
Wilmar	Jan 1 87	Jan 1 88			3	97	77	84	70	86	106	20	0.26	0.25	96.9
APIOS-C															
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12		0.50	0.31	62.1
Azur Lake	Jan 5 87	Dec 30 87	2	1	2	100	100	100	100	79	13	3	0.19	0.10	55.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13	1	0.30	0.23	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13	2	0.60	0.54	89.8
Coldwater	Dec 30 86	Dec 30 87	2	1	2	100	91	92	92	76	12	2	0.32	0.26	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13	1	0.19	0.10	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13	2	0.29	0.22	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	99	92	92	79	12	1	0.19	0.09	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13	3	0.18	0.13	71.5
Huron Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13		0.50	0.38	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	91	92	92	68	12	3	0.23	0.15	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	100	100	100	83	13	5	0.16	0.11	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13		0.54	0.43	79.6
Moonbeam	Dec 29 86	Dec 30 87	3	2A	3	100	100	100	100	72	13	3	0.47	0.31	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12		0.46	0.33	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	90	77	77	82	10	3	0.15	0.09	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13		1.16	0.87	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13		0.23	0.13	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13	2	0.18	0.18	96.9
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10	3	0.17	0.12	71.4
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13	2	0.22	0.19	90.2
Quebec															
CAPMon															
Port Cartier	Jan 1 87	Jan 1 88	2	1	2	100	98	87	74	99	137	24	0.04	0.04	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	97	75	61	96	143	8	0.18	0.20	109.4

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Magnesium

State	Network	Site Name	Period Summarized		Overall Site Data		% PCL	% IP	% VSL	% VSMP	% Col Eff	N	Wtd N	Mg Mean	Total Dep g/m ²	Total Precip cm	
			First Date	Last Date	Rating	Rep Comp						HDL	mg/l				
Alabama	NADP/NIN	Blackbelt	Dec 30 86	Dec 29 87	2	1	2	100	95	77	73	99	32	0.03	0.03	95.9	
	UAPSP	Selma	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	92	100	65	6	0.02	0.02	77.3
Arizona	NADP/NIN	Oliver Knoll	Dec 30 86	Dec 29 87	2	2A	1	100	99	90	86	98	32	0.03	0.01	22.5	
Arkansas	NADP/NIN	Fayetteville	Dec 30 86	Dec 29 87	2	2B	1	100	100	92	91	95	42	0.02	0.02	136.7	
California	NADP/NIN	Chuchupate	Dec 30 86	Jan 5 88	3	1	3	100	89	74	66	89	23	1	0.02	0.01	42.2
	Palomar Mountain		Dec 30 86	Dec 29 87	3	2A	3	100	71	73	64	98	21	0.07	0.05	65.4	
Colorado	NADP/NIN	Dry Lake	Dec 30 86	Jan 5 88		3		100	79	75	82	83	37	0.02	0.02	73.1	
	Las Animas		Dec 30 86	Dec 29 87	2	1	2	100	98	77	73	95	33	0.04	0.01	30.6	
	Mesa Verde		Dec 30 86	Dec 29 87	2	1	2	100	98	83	80	97	36	0.03	0.01	48.7	
	Sand Spring		Dec 30 86	Jan 5 88	3	2A	3	100	87	83	83	87	39	1	0.03	0.01	32.4
	Sugarloaf		Dec 30 86	Dec 29 87		2		100	93	97	98	89	43	0.02	0.01	56.7	
	UAPSP	Yampa	Jan 1 87	Jan 1 88	3	1	3	100	92	97	86	89	71	6	0.02	0.01	32.3
Delaware	MAP3S/PCN	Lewes	Jan 1 87	Jan 1 88	2	2A	2	100	99	97	83	101	59	1	0.22	0.21	95.0
Florida	NADP/NIN	Bradford Forest	Dec 30 86	Dec 29 87	2	2A	1	100	90	83	81	98	38	0.03	0.05	140.4	
	Kennedy Space Cent		Dec 30 86	Dec 29 87	2	2A	2	100	96	81	79	101	38	0.09	0.15	158.4	
	Quincy		Dec 30 86	Dec 29 87	2	1	2	96	97	83	85	95	39	0.03	0.04	113.6	
Georgia	NADP/NIN	Bellville	Dec 30 86	Dec 29 87	1	1	1	100	89	83	80	99	37	0.03	0.03	113.4	
	UAPSP	Ovalda	Jan 1 87	Jan 1 88	2	2A	2	100	93	96	82	94	61	9	0.04	0.04	97.8
Hawaii	NADP/NIN	Mauna Loa	Dec 30 86	Dec 30 87	2	2	2	100	100	86	80	77	28	3	0.00	0.00	72.6
Idaho	NADP/NIN	Headquarters	Dec 30 86	Dec 29 87	3	1	3	98	73	69	66	97	27	0.01	0.01	68.3	
	Reynolds Creek		Dec 30 86	Dec 29 87	3	1	3	100	91	81	76	90	29	0.03	0.01	22.4	
	Smiths Ferry		Dec 30 86	Dec 29 87	3	1	3	100	82	81	74	94	29	0.02	0.01	53.2	
Illinois	NADP/NIN	Argonne	Jan 6 87	Jan 5 88	3	3	2	100	85	73	74	97	37	0.06	0.06	102.9	
	Bondville		Dec 30 86	Dec 29 87	2	2A	2	100	100	87	87	98	45	0.03	0.03	87.3	
	Dixon Springs		Dec 30 86	Dec 29 87	2	2B	1	100	96	90	89	102	40	0.03	0.03	95.4	
	Mormouth		Dec 30 86	Dec 29 87		1		100	95	88	87	93	41	1	0.04	0.02	65.5
	Salem		Dec 30 86	Dec 29 87	3	1	3	100	93	79	76	97	39	0.02	0.02	90.4	
	Shabbona		Dec 30 86	Dec 29 87	1	1	1	100	98	88	88	92	43	0.05	0.06	113.6	
	Southern Ill U		Dec 30 86	Dec 29 87	2	2B	1	100	99	92	90	100	38	1	0.03	0.03	100.3

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Magnesium

State	Network	Site Name	Period Summarized	Overall Site Data	% PCL	% IP	% VSL	% VSMP	% Col Eff	% N	Wtd N	Mg Mean	Mg Dep	Total Precip
			First Date Last Date	Rating Rep Comp								mg/l	g/m ²	cm
Indiana														
	NADP/NIN	Burlington	Dec 30 86 Dec 29 87	2 2A 2	100 100	94 94	96 48	0.04	0.04	0.04	0.04	84.5		
		Indiana Dunes	Dec 30 86 Dec 29 87	3 3 2	100 98	94 94	91 47	1	0.06	0.06	0.05	0.05	91.4	
		Purdue U Ag Farm	Dec 30 86 Dec 29 87	3 2A 3	98 72	69 73	92 35		0.05	0.05	0.05	0.05	97.2	
	UAPSP	Fort Wayne	Jan 1 87 Jan 1 88	3 3 2	100 98	97 93	92 90	4	0.04	0.04	0.03	0.03	82.3	
		Rockport	Jan 1 87 Jan 1 88	3 3 1	100 99	99 94	96 68	4	0.03	0.03	0.02	0.02	63.2	
Iowa														
	NADP/NIN	McNay Research Sta	Dec 30 86 Dec 29 87	3 1 3	100 99	85 83	97 40		0.03	0.03	0.03	0.03	101.8	
Kansas														
	NADP/NIN	Farlington	Dec 30 86 Dec 29 87	2 1 2	100 94	85 83	97 38		0.02	0.02	0.02	0.02	114.1	
		Konza Prairie	Dec 30 86 Dec 29 87	2 2A 1	100 98	87 85	95 40		0.02	0.02	0.02	0.02	89.0	
		Scott Lake	Dec 30 86 Dec 29 87	2 1 2	100 100	83 79	95 33		0.03	0.03	0.02	0.02	54.5	
Kentucky														
	NADP/NIN	Land Between the L	Dec 30 86 Dec 29 87	1 1 1	100 97	92 91	99 41	1	0.02	0.02	0.02	0.02	97.3	
		Lilley Cornett Woo	Dec 30 86 Dec 29 87	2 2A 1	100 93	87 86	96 43		0.02	0.02	0.02	0.02	103.1	
		Perryville	Dec 30 86 Dec 29 87	2 2A 2	100 93	83 83	99 39		0.02	0.02	0.02	0.02	94.3	
	UAPSP	Clearfield	Jan 1 87 Jan 1 88	2 2A 1	100 99	99 95	100 105	18	0.02	0.02	0.02	0.02	91.2	
Louisiana														
	NADP/NIN	Iberia	Jan 6 87 Dec 29 87	2 2A 1	100 99	92 91	96 39		0.04	0.06	0.06	0.06	142.2	
		Southeast	Jan 6 87 Dec 30 87	1 1 1	100 100	96 95	97 41		0.03	0.05	0.05	0.05	156.1	
Maine														
	NADP/NIN	Bridgton	Dec 30 86 Dec 29 87	2 1 2	100 99	90 90	91 44		0.02	0.02	0.02	0.02	85.8	
		Greenville Station	Dec 30 86 Dec 29 87	3 2A 3	100 99	87 86	84 44	1	0.01	0.01	0.01	0.01	101.1	
	UAPSP	Winterport	Jan 1 87 Jan 1 88	2 2A 2	100 98	98 93	90 97	23	0.05	0.04	0.04	0.04	94.2	
Maryland														
	NADP/NIN	White Rock	Dec 30 86 Dec 29 87	2 2A 2	100 90	77 76	100 38		0.03	0.03	0.03	0.03	103.1	
		Wye	Dec 30 86 Dec 29 87	3 2A 3	100 89	73 73	95 37		0.04	0.03	0.03	0.03	67.7	
Massachusetts														
	NADP/NIN	East	Dec 30 86 Dec 29 87	3 3 1	100 96	87 85	97 41		0.05	0.05	0.05	0.05	102.8	
		Quabbin Reservoir	Dec 30 86 Dec 29 87	2 2A 1	98 99	88 89	97 42		0.02	0.02	0.02	0.02	98.3	
	UAPSP	Turners Falls	Jan 1 87 Jan 1 88	2 2A 1	100 100	98 92	99 78	15	0.02	0.02	0.02	0.02	104.7	
Michigan														
	NADP/NIN	Kellogg	Dec 30 86 Dec 29 87	2 2A 2	100 84	77 83	87 39		0.04	0.04	0.04	0.04	82.0	
		Raco	Dec 30 86 Dec 29 87	1 1 1	100 88	85 83	94 40		0.03	0.03	0.03	0.03	79.6	
		Wellston	Dec 30 86 Dec 29 87	2 1 2	100 99	88 88	91 45		0.05	0.05	0.05	0.05	93.0	
	UAPSP	Gaylord	Jan 1 87 Jan 1 88	2 2A 1	100 83	98 92	99 88	7	0.04	0.03	0.03	0.03	73.0	
Minnesota														
	NADP/NIN	Farnberg	Dec 30 86 Dec 29 87	3 1 3	100 86	87 85	92 41	1	0.03	0.02	0.02	0.02	62.4	
		Lamberton	Dec 30 86 Dec 29 87	3 1 3	100 94	85 80	97 32		0.07	0.03	0.03	0.03	51.5	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989

Page 3

Magnesium

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Col	N	Wtd Mean mg/l	Mg Dep g/m ²	Total Precip cm	
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Eff	BDL					
Minnesota															
NADP/NTN Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	1	0.03	0.02	78.5
Mississippi															
NADP/NTN Coffeyville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33	0.02	0.03	147.9	
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38	0.03	0.04	139.6	
MAPSP Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	97	102	83	18	0.03	0.03	118.4
Montana															
NADP/NTN Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37	0.03	0.01	33.0	
Nebraska															
NADP/NTN Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38	0.03	0.02	76.1	
North Platte Ag. E	Dec 30 86	Dec 29 87	2	2	100	92	77	73	92	32	0.02	0.01	50.0		
Nevada															
NADP/NTN Smith Valley	Dec 30 86	Dec 29 87	3	100	91	88	80	96	24	0.02	0.00	19.3			
New Hampshire															
NADP/NTN Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	0.02	0.02	110.5	
New Jersey															
NADP/NTN Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	0.03	0.04	118.1	
New Mexico															
NADP/NTN Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	0.03	0.01	38.2	
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33	0.02	0.01	24.9	
New York															
NADP/NTN Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	1	0.03	0.02	77.2
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	0.03	0.03	117.4	
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	0.02	0.02	135.2	
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47	0.02	0.02	91.5	
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	0.02	0.01	77.8	
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44	0.03	0.04	128.3	
MAPS/PCN															
Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	91	99	61	2	0.09	0.09	103.0
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	92	97	92	23	0.02	0.02	95.0
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	79	100	85	43	0.01	0.01	103.3
MAPSP Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	97	93	85	90	149	11	0.02	0.03	129.3
North Carolina															
NADP/NTN Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29	0.05	0.04	92.7	
Coweta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	1	0.01	0.02	145.9
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41	0.03	0.03	113.8	
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44	0.04	0.05	116.6	
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45	0.02	0.03	113.6	
MAPSP Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73	8	0.02	0.02	112.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Magnesium

State Network Site Name	Period Summarized		Overall Site Data			%	%	%	%	%	Col	N	Wtd N	Mg Dep g/m ²	Total Precip cm	
	First Date	Last Date	Rating	Rep	Comp	PCL	TP	VSL	VSMP	Eff	BDL					
Ohio																
NADP/NIN																
Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30	0.04	0.02	57.9		
Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39	0.03	0.02	70.3		
Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	0.04	0.03	73.9		
MAP3S/PCN																
Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	90	71	102	79	11	0.02	0.02	72.1	
UAPSP																
Zanesville	Jan 1 87	Jan 1 88	3	3	1	100	99	98	97	100	111	10	0.04	0.03	77.8	
Oklahoma																
NADP/NIN																
Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	2	0.03	0.02	51.9	
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	0.03	0.03	91.2		
Oregon																
NADP/NIN																
Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35	0.04	0.06	137.3		
H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	0.02	0.04	148.5		
Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	0.01	0.00	36.3		
Pennsylvania																
NADP/NIN																
Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	0.02	0.03	133.8		
Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	0.03	0.03	99.3		
Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	0.03	0.03	110.6		
Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44	0.02	0.02	91.3		
MAP3S/PCN																
Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	97	87	109	67	17	0.02	0.02	83.8	
South Carolina																
NADP/NIN																
Santee National Wt	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	0.04	0.04	108.9		
South Dakota																
UAPSP																
Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	73	102	38	0.05	0.03	56.7		
Tennessee																
NADP/NIN																
Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34	0.02	0.02	101.7		
Walker Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	0.02	0.02	90.5		
MAP3S/PCN																
Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	98	108	62	11	0.02	0.02	89.6	
Texas																
NADP/NIN																
Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33	0.03	0.01	49.1		
IBJ National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39	0.03	0.03	98.9		
Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39	0.03	0.04	135.1		
UAPSP																
Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	100	99	98	105	80	6	0.03	0.03	125.2	
Utah																
NADP/NIN																
Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	0.04	0.02	43.8		
Vermont																
NADP/NIN																
Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45	0.02	0.02	105.7		
UAPSP																
Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	97	90	86	115	30	0.01	0.01	104.0	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Magnesium

State	Network	Site Name	Period Summarized		Overall Site Data		% PCL	% TP	% VSL	% VSMP	% Col Eff	% N	Wtd N	Mg Mean	Total Mg Dep	Total Precip	
			First Date	Last Date	Rating	Rep Comp								BDL mg/l	g/m ²	cm	
Virginia	NADP/NIN	Borton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36	1	0.02	0.02	83.9
	MAP3S/PCN	Virginia Washington	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	73	114	52	15	0.02	0.03	133.5
	NADP/NIN	La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37		0.06	0.04	73.0
		Palouse Conservati	Dec 30 86	Dec 29 87		2		100	96	83	76	86	29	1	0.02	0.01	39.3
West Virginia	NADP/NIN	Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45	1	0.02	0.02	99.3
	Wisconsin	Lake Dubay	Dec 30 86	Dec 29 87	3	2B	3	100	95	77	76	97	38		0.04	0.02	54.8
		Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42		0.06	0.04	80.1
		Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	85	84	98	41		0.05	0.03	62.6
		Suring-NADP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45		0.04	0.02	61.3
		Trout Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	90	90	95	45		0.03	0.02	68.3
	UAPSP	Round Lake	Jan 1 87	Jan 1 88			1	100	97	97	85	99	72	7	0.04	0.02	54.5
		Shawano	Jan 1 87	Jan 1 88			2	100	98	96	84	98	91	5	0.04	0.03	67.4
Wyoming	NADP/NIN	Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39	1	0.03	0.01	29.7
Puerto Rico	NADP/NIN	El Verde	Dec 30 86	Dec 29 87		3		100	74	77	77	100	40		0.14	0.53	389.3
New Brunswick	CAPMoN	Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	98	88	75	85	134	54	0.03	0.03	109.4
Newfoundland	CAPMoN	Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	95	90	80	88	149	40	0.08	0.11	136.4
	Nova Scotia	Jackson	Jan 1 87	Jan 1 88	2	1	2	100	97	84	71	85	147	43	0.04	0.05	133.0
		Kejimkujik (b)	Jan 1 87	Jan 1 88	3	2A	3	100	91	83	68	87	130	37	0.05	0.06	123.8
		Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	85	72	88	137	40	0.05	0.06	124.3
Ontario	CAPMoN	Bonner Lake	Jan 1 87	Jan 1 88			3	100	94	82	68	93	143	54	0.02	0.01	76.6
		Chalk River	Jan 1 87	Jan 1 88	3	2A	3	100	97	87	72	96	117	43	0.02	0.02	77.8
		Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	96	87	73	91	123	10	0.05	0.04	79.4
		Priceville	Jan 1 87	Jan 1 88	1	1	1	100	97	92	85	91	153	18	0.06	0.06	104.8
		Priceville 2	Jan 1 87	Jan 1 88	1	1	1	100	96	92	80	93	117	13	0.06	0.05	84.7
APIOS-D		Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	81	96	88	91	112	40	0.06	0.05	73.7
		Charleston Lake	Jan 1 87	Jan 1 88	2	2A	2	100	75	93	77	92	88	43	0.03	0.03	93.6
		Dorset (b)	Jan 1 87	Jan 1 88	3	1	3	99	78	89	78	94	131	62	0.04	0.03	79.6
		Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	1	100	85	95	86	94	99	7	0.08	0.06	70.9
		Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	93	91	77	88	104	27	0.05	0.04	68.9
		Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	91	92	82	90	116	57	0.03	0.03	79.4
		North Easthope	Jan 1 87	Jan 1 88	2	2A	2	100	87	91	81	87	122	19	0.08	0.07	88.2

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Magnesium

State Network Site Name	Period Summarized	Overall Site Data			PCL	IP	VSL	VSMP	Eff	% Col		N	Wtd Mean mg/l	Mg Dep g/m ²	Total Precip cm
		First Date	Last Date	Rating						Rep	Comp				
Ontario															
APIOS-D															
Railton	Jan 1 87	Jan 1 88	3	1	3	100	80	89	79	88	64	24	0.03	0.03	88.6
Welllesley	Jan 1 87	Jan 1 88	2	2B	2	100	85	92	78	88	109	31	0.07	0.06	87.8
Wilmar	Jan 1 87	Jan 1 88			3	97	74	84	69	87	104	44	0.03	0.03	96.9
APIOS-C															
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12		0.07	0.05	62.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13	5	0.04	0.03	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13		0.11	0.10	89.8
Coldwatner	Dec 30 86	Dec 30 87	2	1	2	100	91	92	92	76	12	5	0.05	0.04	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13	5	0.03	0.01	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13	6	0.04	0.03	74.2
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	99	92	92	79	12	3	0.03	0.01	45.7
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13	6	0.03	0.02	71.5
Buron Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13	1	0.07	0.06	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	91	92	92	68	12	4	0.03	0.02	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	100	100	100	83	13	8	0.03	0.02	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13	1	0.10	0.08	79.6
Moorbeam	Dec 29 86	Dec 30 87	3	2A	3	100	100	100	100	72	13	5	0.09	0.06	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12	1	0.09	0.07	71.9
Pickle Lake	Dec 30 86	Dec 29 87	3	2A	3	100	90	77	77	82	10	3	0.03	0.02	57.7
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13		0.18	0.14	75.3
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	87	13	3	0.04	0.02	57.6
Turkey Lake	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	87	13	4	0.02	0.02	96.9
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10	4	0.02	0.02	71.4
Wilbarforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13	7	0.03	0.02	90.2
Quebec															
CAPMON															
Port Cartier	Jan 1 87	Jan 1 88	2	1	2	100	98	87	74	99	137	75	0.02	0.02	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	97	75	61	96	143	59	0.02	0.02	109.4

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Potassium

State	Network	Site Name	Period Summarized	Overall Site Data	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd N	K Mean	Dep g/m ²	Total Precip cm
			First Date Last Date	Rating Rep Comp						EDL				
Alabama	NADP/NTN													
	Blackbelt		Dec 30 86 Dec 29 87	2 1	2 100	95	77	73	99	32	0.03	0.03		95.9
	UAPSP	Salma	Jan 1 87 Jan 1 88	2 2A 1	100	99	99	92	100	65	37	0.02	0.02	77.3
Arizona	NADP/NTN													
	Oliver Knoll		Dec 30 86 Dec 29 87	2 2A 1	100	99	90	86	98	32	1	0.02	0.01	22.5
Arkansas	NADP/NTN													
	Fayetteville		Dec 30 86 Dec 29 87	2 2B 1	100	100	92	91	95	42	3	0.02	0.03	136.7
California	NADP/NTN													
	Chuchupate		Dec 30 86 Jan 5 88	3 1 3	100	89	74	66	89	23	5	0.01	0.01	42.2
	Palmar Mountain		Dec 30 86 Dec 29 87	3 2A 3	100	71	73	64	98	21	1	0.03	0.02	65.4
Colorado	NADP/NTN													
	Dry Lake		Dec 30 86 Jan 5 88		3 100	79	75	82	83	37	2	0.02	0.01	73.1
	Las Animas		Dec 30 86 Dec 29 87	2 1 2	100	98	77	73	95	33	2	0.06	0.02	30.6
	Mesa Verde		Dec 30 86 Dec 29 87	2 1 2	100	98	83	80	97	36	2	0.02	0.01	48.7
	Sand Spring		Dec 30 86 Jan 5 88	3 2A 3	100	87	83	83	87	39	3	0.03	0.01	32.4
	Sugarloaf		Dec 30 86 Dec 29 87		2 100	93	87	88	89	43		0.02	0.01	56.7
	UAPSP	Yampa	Jan 1 87 Jan 1 88	3 1 3	100	92	97	86	89	71	37	0.02	0.01	32.3
Delaware	MAP3S/PCN	Lewes	Jan 1 87 Jan 1 88	2 2A 2	100	99	97	83	101	59	29	0.13	0.12	95.0
Florida	NADP/NTN													
	Bradford Forest		Dec 30 86 Dec 29 87	2 2A 1	100	90	83	81	98	38	1	0.02	0.03	140.4
	Kennedy Space Cent		Dec 30 86 Dec 29 87	2 2A 2	100	96	81	79	101	38	1	0.03	0.05	158.4
	Quincy		Dec 30 86 Dec 29 87	2 1 2	96	97	83	85	95	39		0.02	0.03	113.6
Georgia	NADP/NTN													
	Bellville		Dec 30 86 Dec 29 87	1 1 1	100	89	83	80	99	37	2	0.04	0.05	113.4
	UAPSP	Uvalda	Jan 1 87 Jan 1 88	2 2A 2	100	93	96	82	94	61	20	0.05	0.05	97.8
Hawaii	NADP/NTN													
	Mauna Loa		Dec 30 86 Dec 30 87	2 2 2	100	100	86	80	77	28	16	0.00	0.00	72.6
Idaho	NADP/NTN													
	Headquarters		Dec 30 86 Dec 29 87	3 1 3	98	73	69	66	97	27		0.03	0.02	68.3
	Reynolds Creek		Dec 30 86 Dec 29 87	3 1 3	100	91	81	76	90	29	1	0.03	0.01	22.4
	Smiths Ferry		Dec 30 86 Dec 29 87	3 1 3	100	82	81	74	94	29	4	0.02	0.01	53.2
Illinois	NADP/NTN													
	Argonne		Jan 6 87 Jan 5 88	3 3 2	100	85	73	74	97	37	1	0.02	0.02	102.9
	Bondville		Dec 30 86 Dec 29 87	2 2A 2	100	100	87	87	98	45	2	0.02	0.01	87.3
	Dixon Springs		Dec 30 86 Dec 29 87	2 2B 1	100	96	90	89	102	40		0.05	0.05	95.4
	Mormouth		Dec 30 86 Dec 29 87		1 100	95	88	87	93	41	4	0.02	0.01	65.5
	Salem		Dec 30 86 Dec 29 87	3 1 3	100	93	79	76	97	39	4	0.01	0.01	90.4
	Shabbona		Dec 30 86 Dec 29 87	1 1 1	100	98	88	88	92	43	2	0.02	0.03	113.6
	Southern Ill U		Dec 30 86 Dec 29 87	2 2B 1	100	99	92	90	100	38	1	0.02	0.02	100.3

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Potassium

State Network Site Name	Period Summarized			Overall Site Data			%	%	%	%	%	Col	Wtd	K	Total
	First Date	Last Date	Rating	Rap Comp	PCL	TP	VSL	VSMP	Eff	N	BDL	N	Mean	Dep	Precip
													mg/l	g/m ²	cm
Indiana															
NAEP/NIN															
Huntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48	1	0.02	0.02	84.5
Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47	1	0.02	0.02	91.4
Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35	3	0.02	0.02	97.2
UAPSP															
Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	98	97	93	92	90	52	0.02	0.02	82.3
Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	68	27	0.09	0.06	63.2
Iowa															
NAEP/NIN															
McNay Research Sta	Dec 30 86	Dec 29 87	3	1	3	100	99	85	83	97	40	3	0.02	0.02	101.8
Kansas															
NAEP/NIN															
Farlington	Dec 30 86	Dec 29 87	2	1	2	100	94	85	83	97	38	2	0.03	0.03	114.1
Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	87	85	95	40	2	0.02	0.02	89.0
Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	83	79	95	33		0.04	0.02	54.5
Kentucky															
NAEP/NIN															
Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	2	0.03	0.02	97.3
Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43	2	0.02	0.02	103.1
Parryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39	3	0.02	0.01	94.3
UAPSP															
Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	95	100	105	54	0.03	0.02	91.2
Louisiana															
NAEP/NIN															
Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39		0.03	0.04	142.2
southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41	2	0.02	0.04	156.1
Maine															
NAEP/NIN															
Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44	7	0.01	0.01	85.8
Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	99	87	86	84	44	6	0.01	0.01	101.1
UAPSP															
Winterport	Jan 1 87	Jan 1 88	2	2A	2	100	98	98	93	90	97	66	0.02	0.02	94.2
Maryland															
NAEP/NIN															
White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	77	76	100	38	2	0.02	0.02	103.1
Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37	1	0.03	0.02	67.7
Massachusetts															
NAEP/NIN															
East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41		0.02	0.02	102.8
Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42	3	0.01	0.01	98.3
UAPSP															
Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	91	99	77	53	0.01	0.01	104.7
Michigan															
NAEP/NIN															
Kellogg	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39	1	0.02	0.02	82.0
Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	85	83	94	40	1	0.02	0.01	79.6
Wellston	Dec 30 86	Dec 29 87	2	1	2	100	99	88	88	91	45	1	0.02	0.02	93.0
UAPSP															
Gaylord	Jan 1 87	Jan 1 88	2	2A	1	100	83	98	92	99	88	56	0.02	0.02	73.0
Minnesota															
NAEP/NIN															
Farnberg	Dec 30 86	Dec 29 87	3	1	3	100	86	87	85	92	41	3	0.03	0.02	62.4
Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	85	80	97	32		0.03	0.02	51.5

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

Potassium

State	Network	Site Name	Period Summarized		Overall Site Data		% PCL	% IP	% VSL	% VSMP	% Col Eff	% N	Wtd N	K Mean	Dep g/m ²	Total Precip cm	
			First Date	Last Date	Rating	Rep Comp											
Minnesota	NADP/MIN	Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	3	0.03	0.02	78.5
Mississippi	NADP/MIN	Coffeeville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33	1	0.04	0.06	147.9
	Meridian	Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38	1	0.03	0.05	139.6
	UAPSP	Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	97	102	83	46	0.04	0.05	118.4
Montana	NADP/MIN	Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37	2	0.03	0.01	33.0
Nebraska	NADP/MIN	Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38	2	0.03	0.02	76.1
	North Platte Ag. E	North Platte Ag. E	Dec 30 86	Dec 29 87		2	100	92	77	73	92	32	1	0.03	0.02	50.0	
Nevada	NADP/MIN	Smith Valley	Dec 30 86	Dec 29 87		3	100	91	88	80	96	24	3	0.03	0.01	19.3	
New Hampshire	NADP/MIN	Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	5	0.01	0.01	110.5
New Jersey	NADP/MIN	Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	3	0.02	0.02	118.1
New Mexico	NADP/MIN	Bandalier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	4	0.03	0.01	38.2
	Cuba	Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33	4	0.02	0.01	24.9
New York	NADP/MIN	Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	5	0.01	0.01	77.2
	Bennett Bridge	Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	1	0.03	0.03	117.4
	Biscuit Brook	Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	5	0.01	0.02	135.2
	Huntington	Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47	4	0.01	0.01	91.5
	Jasper	Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	2	0.02	0.01	77.8
	West Point	West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44	1	0.02	0.02	128.3
	MAP3S/PCN	Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	91	99	61	26	0.10	0.11	103.0
	Ithaca	Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	91	97	91	43	0.13	0.12	95.0
	Whiteface	Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	79	100	85	40	0.12	0.12	103.3
	UAPSP	Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	97	93	85	90	149	90	0.02	0.02	129.3
North Carolina	NADP/MIN	Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29		0.03	0.02	92.7
	Cowesta	Cowesta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	4	0.01	0.02	145.9
	Finley (A)	Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41		0.03	0.03	113.8
	Lewiston	Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44	1	0.03	0.03	116.6
	Piedmont Station	Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45	2	0.03	0.04	113.6
	UAPSP	Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73	45	0.01	0.02	112.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Potassium

State	Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Wtd	K	Total		
		First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Col Eff	N	BDL	Mean mg/1	Dep g/m ²	Precip cm
Ohio															
	NADP/NIN														
	Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30	1	0.03	0.02
	Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39	3	0.02	0.01
	Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	1	0.02	0.02
	MAP3S/PCN														
	Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	90	71	102	79	36	0.17	0.12
	UAPSP														
	Zanesville	Jan 1 87	Jan 1 88	3	3	1	100	99	98	97	100	111	58	0.04	0.03
Oklahoma															
	NADP/NIN														
	Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	2	0.05	0.03
	Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	0.03	0.03	91.2
Oregon															
	NADP/NIN														
	Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35		0.02	0.03
	H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	3	0.01	0.02
	Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	3	0.01	0.01
Pennsylvania															
	NADP/NIN														
	Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	1	0.02	0.02
	Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	1	0.02	0.02
	Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	1	0.02	0.02
	Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44	3	0.02	0.02
	MAP3S/PCN														
	Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	97	87	109	67	40	0.09	0.07
South Carolina															
	NADP/NIN														
	Santee National Wt	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	1	0.04	0.04
South Dakota															
	UAPSP														
	Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	73	102	38	9	0.06	0.03
Tennessee															
	NADP/NIN														
	Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34	1	0.02	0.02
	Walker Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	1	0.02	0.02
	MAP3S/PCN														
	Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	98	108	62	31	0.13	0.11
Texas															
	NADP/NIN														
	Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33		0.03	0.01
	LBJ National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39		0.05	98.9
	Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39		0.02	0.03
	UAPSP														
	Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	100	100	99	105	81	29	0.03	0.03
Utah															
	NADP/NIN														
	Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	4	0.03	0.01
Vermont															
	NADP/NIN														
	Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45	2	0.02	0.02
	UAPSP														
	Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	97	91	86	116	85	0.02	0.02

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Potassium

State Network Site Name	Period Summarized		Overall Site Data		% Rep	% Comp	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	N	Wtd Mean mg/l	K Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep	Comp	PCL	TP	VSL	VSMP	Col Eff	N	BDL				
Virginia																
NADP/NIN																
Horton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36	2	0.02	0.02	83.9	
MAP3S/PCN																
Virginia	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	73	114	52	23	0.12	0.16	133.5	
Washington																
NADP/NIN																
La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37	1	0.02	0.02	73.0	
Falcons Conservati	Dec 30 86	Dec 29 87			2	100	96	83	76	86	29		0.04	0.01	39.3	
West Virginia																
NADP/NIN																
Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45	2	0.02	0.02	99.3	
Wisconsin																
NADP/NIN																
Lake Dubay	Dec 30 86	Dec 29 87	3	2B	3	100	95	77	76	97	38		0.03	0.02	54.8	
Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42	1	0.02	0.02	80.1	
Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	85	84	98	41	2	0.02	0.01	62.6	
Suring-NADP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45		0.02	0.01	61.3	
Trout Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	90	90	95	45	3	0.02	0.01	68.3	
UAPSP																
Round Lake	Jan 1 87	Jan 1 88			1	100	97	97	85	99	72	48	0.02	0.01	54.5	
Shawano	Jan 1 87	Jan 1 88			2	100	98	96	84	98	91	46	0.02	0.01	67.4	
Wyoming																
NADP/NIN																
Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39	4	0.03	0.01	29.7	
Puerto Rico																
NADP/NIN																
El Verde	Dec 30 86	Dec 29 87			3	100	74	77	77	100	40		0.05	0.19	389.3	
New Brunswick																
CAPMoN																
Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	99	88	76	85	135	37	0.02	0.02	109.4	
Newfoundland																
CAPMoN																
Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	96	91	82	87	153	26	0.04	0.05	136.4	
Nova Scotia																
CAPMoN																
Jackson	Jan 1 87	Jan 1 88	2	1	2	100	97	86	75	85	154	40	0.02	0.03	133.0	
Kejimkujik (b)	Jan 1 87	Jan 1 88	3	2A	3	100	91	84	69	87	132	33	0.03	0.03	123.8	
Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	86	73	88	140	32	0.03	0.03	124.3	
Ontario																
CAPMoN																
Borner Lake	Jan 1 87	Jan 1 88			3	100	95	82	70	93	146	31	0.03	0.02	76.6	
Chalk River	Jan 1 87	Jan 1 88	2	2A	2	100	98	89	75	96	123	25	0.02	0.02	77.8	
Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	97	89	76	91	128	13	0.03	0.03	79.4	
Priceville	Jan 1 87	Jan 1 88	1	1	1	100	98	93	87	91	157	17	0.03	0.03	104.8	
Priceville 2	Jan 1 87	Jan 1 88	1	1	1	100	97	93	82	92	119	8	0.03	0.03	84.7	
APIOS-D																
Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	84	95	87	90	111	49	0.03	0.02	73.7	
Charleston Lake	Jan 1 87	Jan 1 88	3	2A	3	100	73	90	68	97	78	36	0.03	0.02	93.6	
Dorset (b)	Jan 1 87	Jan 1 88	2	1	2	99	86	88	78	92	130	44	0.04	0.03	79.6	
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	2	100	84	95	85	93	98	8	0.12	0.09	70.9	
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	83	90	73	86	99	23	0.04	0.03	68.9	
Nithgrove	Jan 1 87	Jan 1 88	1	1	1	99	96	94	87	89	123	33	0.04	0.03	79.4	
North Easthope	Jan 1 87	Jan 1 88	2	2A	2	100	86	91	80	88	121	38	0.03	0.03	88.2	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Potassium

State Network Site Name	Period Summarized First Date	Last Date	Overall Rating	Site Data			PCL	TP	VSL	VSMP	Col Eff	N	Wtd N	K Mean	Dep g/m ²	Total Precip cm
				% Rep	% Comp	%										
Ontario																
APIOS-D																
Railton	Jan 1 87	Jan 1 88	3	1	3	100	85	89	77	89	62	19	0.05	0.04	88.6	
Wellesley	Jan 1 87	Jan 1 88	2	2B	2	100	78	90	75	90	104	49	0.02	0.02	87.8	
Wilmar	Jan 1 87	Jan 1 88		3	97	87	85	73	86	110	42	0.03	0.03	96.9		
APIOS-C																
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12	2	0.07	0.04	62.1	
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13	3	0.08	0.07	89.8	
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	83	13	6	0.03	0.02	54.0	
Dorset (c)	Dec 30 86	Dec 29 87	2	1	2	100	87	92	92	89	12	7	0.02	0.02	74.2	
Expt. Lake Area	Jan 1 87	Dec 29 87	2	2A	2	100	99	92	92	79	12	6	0.03	0.02	45.7	
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13	9	0.02	0.01	71.5	
Killarney	Jan 4 87	Dec 29 87	2	2A	2	100	77	76	77	71	10	5	0.05	0.03	66.4	
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	92	92	92	84	12	6	0.05	0.03	71.0	
Merlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13	4	0.10	0.08	79.6	
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12	3	0.04	0.03	71.9	
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13	3	0.04	0.03	75.3	
Quetico Centre	Dec 30 86	Dec 29 87	2	1	2	100	97	92	92	88	12	5	0.03	0.02	57.6	
Turkey Lake	Dec 30 86	Dec 29 87	2	1	2	100	82	77	77	87	10	5	0.04	0.04	96.9	
Wilberforce	Dec 30 86	Dec 29 87	2	1	2	100	98	92	92	66	12	8	0.02	0.01	90.2	
Quebec																
CAPMON																
Port Cartier	Jan 1 87	Jan 1 88	2	1	2	100	98	87	75	99	139	50	0.02	0.02	95.9	
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	76	62	96	145	34	0.02	0.02	109.4	
Sutton 2	Jan 1 87	Jan 1 88	3	1	3	100	98	76	62	94	146	40	0.02	0.02	109.3	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 1

Sodium

State	Network	Site Name	Period Summarized	Overall Site Data	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd N	Na Dep	Total Precip
			First Date Last Date	Rating Rep Comp						EDL	Mean mg/l	g/m ²	cm
Alabama	NADP/NTN	Blackbelt	Dec 30 86 Dec 29 87	2 1 2	100 95	77	73	99	32	0.18	0.18	95.9	
	UAPSP	Selma	Jan 1 87 Jan 1 88	2 2A 1	100 99	99	92	100	65 13	0.13	0.10	77.3	
Arizona	NADP/NTN	Oliver Knoll	Dec 30 86 Dec 29 87	2 2A 1	100 99	90	86	98	32	0.13	0.03	22.5	
Arkansas	NADP/NTN	Fayetteville	Dec 30 86 Dec 29 87	2 2B 1	100 100	92	91	95	42	0.09	0.12	136.7	
California	NADP/NTN	Chuchupate	Dec 30 86 Jan 5 88	3 1 3	100 89	74	66	89	23	0.07	0.03	42.2	
	Palomar Mountain		Dec 30 86 Dec 29 87	3 2A 3	100 71	73	64	98	21	0.58	0.38	65.4	
Colorado	NADP/NTN	Dry Lake	Dec 30 86 Jan 5 88		3 100	79	75	82	37	0.06	0.04	73.1	
		Las Animas	Dec 30 86 Dec 29 87	2 1 2	100 98	77	73	95	33	0.08	0.03	30.6	
		Mesa Verde	Dec 30 86 Dec 29 87	2 1 2	100 98	83	80	97	36	0.07	0.03	48.7	
		Sand Spring	Dec 30 86 Jan 5 88	3 2A 3	100 87	83	83	87	39	0.09	0.03	32.4	
		Sugarloaf	Dec 30 86 Dec 29 87		2 100	93	87	88	43	0.06	0.03	56.7	
	UAPSP	Yampa	Jan 1 87 Jan 1 88	3 1 3	100 92	97	86	89	71 35	0.03	0.01	32.3	
Delaware	MAP3S/PCN	Lowes	Jan 1 87 Jan 1 88	2 2A 2	100 99	96	82	101	58	1.65	1.57	95.0	
Florida	NADP/NTN	Bradford Forest	Dec 30 86 Dec 29 87	2 2A 1	100 90	83	81	98	38	0.24	0.33	140.4	
	Kennedy Space Cent		Dec 30 86 Dec 29 87	2 2A 2	100 96	81	79	101	38	0.74	1.17	158.4	
	Quincy		Dec 30 86 Dec 29 87	2 1 2	96 97	83	85	95	39	0.23	0.27	113.6	
Georgia	NADP/NTN	Bellville	Dec 30 86 Dec 29 87	1 1 1	100 89	83	80	99	37	0.20	0.22	113.4	
	UAPSP	Uvalda	Jan 1 87 Jan 1 88	2 2A 2	100 93	96	82	94	61 8	0.24	0.23	97.8	
Hawaii	NADP/NTN	Mauna Loa	Dec 30 86 Dec 30 87	2 2 2	100 100	86	80	77	28	0.03	0.02	72.6	
Idaho	NADP/NTN	Headquarters	Dec 30 86 Dec 29 87	3 1 3	98 73	69	66	97	27	0.10	0.07	68.3	
	Reynolds Creek		Dec 30 86 Dec 29 87	3 1 3	100 91	81	76	90	29	0.18	0.04	22.4	
	Smiths Ferry		Dec 30 86 Dec 29 87	3 1 3	100 82	81	74	94	29	0.09	0.05	53.2	
Illinois	NADP/NTN	Argonne	Jan 6 87 Jan 5 88	3 3 2	100 85	73	74	97	37	0.06	0.06	102.9	
	Bondville		Dec 30 86 Dec 29 87	2 2A 2	100 100	87	87	98	45	0.05	0.04	87.3	
	Dixon Springs		Dec 30 86 Dec 29 87	2 2B 1	100 96	90	89	102	40	0.08	0.08	95.4	
	Monmouth		Dec 30 86 Dec 29 87	1 100	95	88	87	93	41 1	0.07	0.04	65.5	
	Salem		Dec 30 86 Dec 29 87	3 1 3	100 93	79	76	97	39	0.07	0.07	90.4	
	Shabbona		Dec 30 86 Dec 29 87	1 1 1	100 98	88	88	92	43	0.06	0.06	113.6	
	Southern Ill U		Dec 30 86 Dec 29 87	2 2B 1	100 99	92	90	100	38	0.08	0.08	100.3	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Sodium

State Network Site Name	Period Summarized		Overall Site Data		% PCL	% IP	% VSL	% VSMP	% Col Eff	Wtd N	Na Mean	Dep g/m ²	Total Precip cm		
	First Date	Last Date	Rating	Rep Comp											
Indiana															
NADP/MIN															
Buntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48	0.06	0.05	84.5	
Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47	0.05	0.05	91.4	
Purdue U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35	0.06	0.05	97.2	
URPSP															
Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	98	97	93	92	45	0.03	0.03	82.3	
Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	23	0.08	0.05	63.2	
Iowa															
NADP/MIN															
McNay Research Sta	Dec 30 86	Dec 29 87	3	1	3	100	99	85	83	97	40	0.06	0.06	101.8	
Kansas															
NADP/MIN															
Farlington	Dec 30 86	Dec 29 87	2	1	2	100	94	85	83	97	38	0.07	0.08	114.1	
Konza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	87	85	95	40	0.07	0.06	89.0	
Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	83	79	95	33	0.06	0.03	54.5	
Kentucky															
NADP/MIN															
Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	1	0.09	0.09	97.3
Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43	0.06	0.06	103.1	
Perryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39	0.08	0.07	94.3	
URPSP															
Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	95	100	105	47	0.04	0.03	91.2
Louisiana															
NADP/MIN															
Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39	0.31	0.45	142.2	
Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41	0.23	0.36	156.1	
Maine															
NADP/MIN															
Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44	0.13	0.11	85.8	
Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	99	87	86	84	44	0.07	0.07	101.1	
URPSP															
Winterport	Jan 1 87	Jan 1 88	2	2A	2	100	98	98	93	90	97	30	0.26	0.25	94.2
Maryland															
NADP/MIN															
White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	77	76	100	38	0.10	0.10	103.1	
Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37	0.24	0.16	67.7	
Massachusetts															
NADP/MIN															
East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41	0.39	0.40	102.8	
Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42	0.14	0.14	98.3	
URPSP															
Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	100	98	91	99	77	20	0.10	0.10	104.7
Michigan															
NADP/MIN															
Kallogy	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39	0.08	0.06	82.0	
Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	85	83	94	40	0.05	0.04	79.6	
Wallston	Dec 30 86	Dec 29 87	2	1	2	100	99	88	88	91	45	0.05	0.05	93.0	
URPSP															
Gaylord	Jan 1 87	Jan 1 88	2	2A	1	100	83	98	92	99	88	63	0.02	0.02	73.0
Minnesota															
NADP/MIN															
Farmery	Dec 30 86	Dec 29 87	3	1	3	100	86	87	85	92	41	0.05	0.03	62.4	
Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	85	80	97	32	0.07	0.03	51.5	

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

Sodium

State Network Site Name	Period Summarized		Overall Site Data		% Rep	% Comp	% PCL	% IP	% VSL	% VSMP	% Col Eff	N	Wtd N	Na Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating												
Minnesota NADP/NIN Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	0.05	0.04	78.5	
Mississippi NADP/NIN Coffeyville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33	0.11	0.16	147.9	
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38	0.17	0.23	139.6	
URPSP Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	97	102	83	0.16	0.18	118.4	
Montana NADP/NIN Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37	0.08	0.03	33.0	
Nebraska NADP/NIN Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38	0.07	0.05	76.1	
North Platte Ag. E	Dec 30 86	Dec 29 87			2	100	92	77	73	92	32	0.07	0.03	50.0	
Nevada NADP/NIN Smith Valley	Dec 30 86	Dec 29 87			3	100	91	88	80	96	24	0.09	0.02	19.3	
New Hampshire NADP/NIN Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	0.08	0.09	110.5	
New Jersey NADP/NIN Washington King	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44	0.15	0.18	118.1	
New Mexico NADP/NIN Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	0.08	0.03	38.2	
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33	0.07	0.02	24.9	
New York NADP/NIN Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	0.05	0.04	77.2	
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	0.06	0.08	117.4	
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43	0.07	0.09	135.2	
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47	0.05	0.05	91.5	
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46	0.06	0.04	77.8	
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44	0.17	0.22	128.3	
MAP3S/PCN Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	91	99	61	1	0.59	0.61	103.0
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	91	97	91	22	0.03	0.03	95.0
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	79	100	85	33	0.03	0.03	103.3
URPSP Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	97	93	85	90	149	55	0.03	0.04	129.3
North Carolina NADP/NIN Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29		0.31	0.28	92.7
Coweta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	1	0.08	0.12	145.9
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41		0.17	0.19	113.8
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44		0.28	0.33	116.6
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45		0.12	0.13	113.6
URPSP Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73	19	0.11	0.13	112.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Sodium

State Network Site Name	Period Summarized			Overall Site Data			% PCL	% IP	% VSL	% VSMP	% Col Eff	N Wtd Mean mg/l	Na Dep g/m ²	Total Precip cm	
	First Date	Last Date	Rating	Rep Comp	N	BDL									
Ohio															
NADP/NIN															
Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30	0.06	0.03	57.9	
Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39	0.07	0.05	70.3	
Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	0.05	0.04	73.9	
MAP3S/PCN															
Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	90	71	102	79	9	0.04	0.03	72.1
UAPSP															
Zanesville	Jan 1 87	Jan 1 88	3	3	1	100	99	98	97	100	111	37	0.06	0.04	77.8
Oklahoma															
NADP/NIN															
Goodwill Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	0.09	0.05	51.9	
Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36	0.10	0.09	91.2	
Oregon															
NADP/NIN															
Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35	0.33	0.46	137.3	
H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	0.18	0.27	148.5	
Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	0.08	0.03	36.3	
Pennsylvania															
NADP/NIN															
Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42	0.04	0.06	133.8	
Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44	0.06	0.06	99.3	
Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42	0.12	0.13	110.6	
Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44	0.05	0.05	91.3	
MAP3S/PCN															
Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	97	87	109	67	14	0.03	0.02	83.8
South Carolina															
NADP/NIN															
Santee National Wi	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35	0.28	0.30	108.9	
South Dakota															
UAPSP															
Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	73	102	38	12	0.04	0.02	56.7
Tennessee															
NADP/NIN															
Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34	0.10	0.10	101.7	
Walker Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40	0.09	0.08	90.5	
MAP3S/PCN															
Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	98	108	62	8	0.06	0.05	89.6
Texas															
NADP/NIN															
Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33	0.07	0.04	49.1	
IJB National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39	0.16	0.16	98.9	
Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39	0.21	0.28	135.1	
UAPSP															
Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	100	99	98	105	80	11	0.17	0.21	125.2
Utah															
NADP/NIN															
Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	0.08	0.03	43.8	
Vermont															
NADP/NIN															
Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45	0.05	0.05	105.7	
UAPSP															
Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	97	91	86	116	71	0.02	0.02	104.0

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Sodium

State Network Site Name	Period Summarized		Overall Site Data		Rep Comp	PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd N	Na Mean	Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating												
Virginia															
NADP/NIN															
Horton's Station	Dec 30 86	Dec 29 87	3	3	2	100	89	79	80	97	36		0.07	0.06	83.9
MAP3S/PCN															
Virginia	Jan 1 87	Jan 1 88	2	2A	2	100	98	95	73	114	52	9	0.09	0.12	133.5
Washington															
NADP/NIN															
La Grande	Dec 30 86	Dec 29 87	2	2A	2	100	94	81	79	83	37		0.44	0.32	73.0
Palouse Conservati	Dec 30 86	Dec 29 87		2		100	96	83	76	86	29		0.07	0.03	39.3
West Virginia															
NADP/NIN															
Parsons	Dec 30 86	Dec 29 87	2	2B	1	100	96	90	90	88	45		0.06	0.06	99.3
Wisconsin															
NADP/NIN															
Lake Dubay	Dec 30 86	Dec 29 87	3	2B	3	100	95	77	76	97	38		0.07	0.04	54.8
Lake Geneva	Dec 30 86	Dec 29 87	3	2A	3	98	98	85	86	100	42		0.06	0.05	80.1
Spooner	Dec 30 86	Dec 29 87	2	1	2	100	99	85	84	98	41		0.07	0.05	62.6
Suring-NADP	Dec 30 86	Dec 29 87	1	1	1	100	98	90	90	97	45		0.06	0.04	61.3
Trout Lake	Dec 30 86	Dec 29 87	2	1	2	100	90	90	90	95	45		0.06	0.04	68.3
UAPSP															
Round Lake	Jan 1 87	Jan 1 88			1	100	97	97	85	99	72	43	0.03	0.02	54.5
Shawano	Jan 1 87	Jan 1 88			2	100	98	96	84	98	91	51	0.03	0.02	67.4
Wyoming															
NADP/NIN															
Newcastle	Dec 30 86	Dec 29 87	2	2A	1	100	93	88	87	89	39		0.09	0.03	29.7
Puerto Rico															
NADP/NIN															
El Verde	Dec 30 86	Dec 29 87			3	100	74	77	77	100	40		1.07	4.16	389.3
New Brunswick															
CAPMoN															
Harcourt	Jan 1 87	Jan 1 88	2	1	2	100	99	88	76	85	135	7	0.25	0.28	109.4
Newfoundland															
CAPMoN															
Bay d'Espoir	Jan 1 87	Jan 1 88	3	1	3	100	96	91	82	87	153	3	0.69	0.94	136.4
Nova Scotia															
CAPMoN															
Jackson	Jan 1 87	Jan 1 88	2	1	2	100	97	86	75	85	154	6	0.33	0.43	133.0
Kejimkujik (b)	Jan 1 87	Jan 1 88	3	2A	3	100	91	83	68	87	131	3	0.41	0.51	123.8
Kejimkujik 2	Jan 1 87	Jan 1 88	2	1	2	100	92	86	73	88	139	4	0.42	0.53	124.3
Ontario															
CAPMoN															
Bonner Lake	Jan 1 87	Jan 1 88			3	100	95	82	70	93	146	35	0.03	0.02	76.6
Chalk River	Jan 1 87	Jan 1 88	2	2A	2	100	98	89	75	96	123	20	0.03	0.02	77.8
Longwoods (a)	Jan 1 87	Jan 1 88	2	2B	2	100	97	89	76	91	128	8	0.04	0.03	79.4
Pricesville	Jan 1 87	Jan 1 88	1	1	1	100	98	93	87	91	157	22	0.05	0.05	104.8
Pricesville 2	Jan 1 87	Jan 1 88	1	1	1	100	97	93	82	92	119	17	0.05	0.04	84.7
APIOS-D															
Balsam Lake	Jan 1 87	Jan 1 88	2	1	2	100	94	97	91	87	116	45	0.03	0.02	73.7
Charleston Lake	Jan 1 87	Jan 1 88	3	2A	3	100	82	93	77	93	88	33	0.03	0.03	93.6
Dorset (b)	Jan 1 87	Jan 1 88	1	1	1	99	94	92	83	87	139	28	0.08	0.06	79.6
Longwoods (b)	Jan 1 87	Jan 1 88	2	2B	1	100	87	96	88	93	101	8	0.09	0.06	70.9
Melbourne	Jan 1 87	Jan 1 88	2	2A	2	100	94	92	78	88	105	19	0.04	0.03	68.9
Mithgrove	Jan 1 87	Jan 1 88	1	1	1	99	95	94	87	89	123	29	0.03	0.03	79.4
North Easthope	Jan 1 87	Jan 1 88	2	2A	1	100	93	92	83	88	125	26	0.04	0.04	88.2

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Sodium

State Network Site Name	Period Summarized First Date Last Date	Overall Site Data Rating	% PCL TP VSL VSMP				Col Eff N	Wtd N Dep mg/l	Na Mean	Total Precip cm	
			%	%	%	%					
Ontario											
APIOS-D											
Railton	Jan 1 87 Jan 1 88	2	1	2	100	82	90	79	88	64	17
Mallesley	Jan 1 87 Jan 1 88	2	2B	2	100	86	92	79	88	110	26
Wilmar	Jan 1 87 Jan 1 88		3	97	88	85	71	86	107	31	0.04
APIOS-C											
Alvinston	Dec 30 86 Dec 29 87	2	2A	2	100	91	92	92	87	12	0.09
Anure Lake	Jan 5 87 Dec 30 87	2	1	2	100	100	100	100	79	13	6
Campbellford	Dec 30 86 Dec 31 87	2	2A	2	99	100	99	100	80	13	1
Colchester	Dec 30 86 Dec 29 87	2	2A	2	100	100	100	100	77	13	1
Coldwater	Dec 30 86 Dec 30 87	2	1	2	100	91	92	92	76	12	1
Dorion	Dec 30 86 Dec 29 87	2	1	2	100	100	100	100	83	13	1
Dorset (c)	Dec 30 86 Dec 29 87	1	1	1	100	100	100	100	86	13	5
Expt. Lake Area	Jan 1 87 Dec 29 87	2	2A	2	100	99	92	92	79	12	3
Golden Lake	Dec 30 86 Dec 29 87	2	1	2	100	100	100	100	80	13	4
Burton Park	Dec 30 86 Dec 29 87	3	2A	3	100	100	100	100	75	13	2
Killarney	Jan 4 87 Dec 29 87	3	2A	3	100	91	92	92	68	12	2
Mattawa	Dec 30 86 Dec 30 87	2	2A	2	100	100	100	100	83	13	2
Marlin	Dec 30 86 Dec 29 87	2	2A	2	100	100	100	100	80	13	1
Moonbeam	Dec 29 86 Dec 30 87	3	2A	3	100	100	100	100	72	13	3
Palmerston	Dec 30 86 Dec 29 87	3	2A	3	100	95	92	92	73	12	3
Pickle Lake	Dec 30 86 Dec 29 87	3	2A	3	100	90	77	77	82	10	3
Port Stanley	Dec 30 86 Dec 29 87	2	2B	2	100	100	100	100	82	13	0.07
Quetico Centre	Dec 30 86 Dec 29 87	3	1	3	100	77	92	92	81	12	2
Turkey Lake	Dec 30 86 Dec 29 87	1	1	1	100	100	100	100	87	13	4
Whitney	Dec 30 86 Dec 29 87	2	1	2	100	81	79	77	87	10	4
Wihlarforce	Dec 30 86 Dec 29 87	2	1	2	100	100	100	100	66	13	4
Quebec											
CAPMoN											
Port Cartier	Jan 1 87 Jan 1 88	2	1	2	100	98	87	75	99	139	18
Sutton	Jan 1 87 Jan 1 88	3	1	3	100	98	76	62	96	146	18
Sutton 2	Jan 1 87 Jan 1 88	3	1	3	100	98	76	62	94	146	26

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989

Page 1

Chloride

State	Network	Site Name	Period Summarized	Overall Site Data	% Rep	% PCL	% TP	% VSL	% VSMP	% Col	% Eff	N	Wtd Mean	Cl Dep	Total Precip	
			First Date Last Date	Rating	Rep Comp	PCL						N	EOL	mg/l	g/m ²	cm
Alabama	NADP/NIN															
	URPSP	Blackbelt	Dec 30 86 Dec 29 87	2	1	2	100	95	77	73	99	32	0.33	0.31	95.9	
	URPSP	Salma	Jan 1 87 Jan 1 88	2	2A	1	100	99	98	90	100	64	0.26	0.20	77.3	
Arizona	NADP/NIN	Oliver Knoll	Dec 30 86 Dec 29 87	2	2A	1	100	99	90	86	98	32	0.17	0.04	22.5	
Arkansas	NADP/NIN	Fayetteville	Dec 30 86 Dec 29 87	2	2B	1	100	100	92	91	95	42	0.13	0.17	136.7	
California	NADP/NIN	Chuchupate	Dec 30 86 Jan 5 88	3	1	3	100	89	74	66	89	23	1	0.13	0.05	42.2
	URPSP	Palomar Mountain	Dec 30 86 Dec 29 87	3	2A	3	100	71	73	64	98	21	1.10	0.72	65.4	
Colorado	NADP/NIN	Dry Lake	Dec 30 86 Jan 5 88			3	100	79	75	82	83	37	2	0.08	0.06	73.1
	URPSP	Las Animas	Dec 30 86 Dec 29 87	2	1	2	100	98	77	73	95	33	3	0.12	0.04	30.6
	URPSP	Mesa Verde	Dec 30 86 Dec 29 87	2	1	2	100	98	83	80	97	36		0.09	0.04	48.7
	URPSP	Sand Spring	Dec 30 86 Jan 5 88	3	2A	3	100	87	83	83	87	39	2	0.12	0.04	32.4
	URPSP	Sugarloaf	Dec 30 86 Dec 29 87			2	100	93	87	88	89	43	5	0.08	0.04	56.7
	URPSP	Yampa	Jan 1 87 Jan 1 88	2	1	2	100	93	97	87	88	72		0.05	0.02	32.3
Delaware	MAP3S/PCN	Lowes	Jan 1 87 Jan 1 88	2	2A	2	100	99	97	83	101	59	2.62	2.49	95.0	
Florida	NADP/NIN	Bradford Forest	Dec 30 86 Dec 29 87	2	2A	1	100	90	83	81	98	38	0.43	0.60	140.4	
	NADP/NIN	Kennedy Space Cent	Dec 30 86 Dec 29 87	2	2A	2	100	96	81	79	101	38	1.36	2.15	158.4	
	NADP/NIN	Quincy	Dec 30 86 Dec 29 87	2	1	2	96	97	83	85	95	39	0.41	0.46	113.6	
Georgia	NADP/NIN	Bellville	Dec 30 86 Dec 29 87	1	1	1	100	89	83	80	99	37	0.35	0.40	113.4	
Hawaii	NADP/NIN	Mauna Loa	Dec 30 86 Dec 30 87	2	2	2	100	100	86	80	77	28	3	0.05	0.03	72.6
Idaho	NADP/NIN	Headquarters	Dec 30 86 Dec 29 87	3	1	3	98	73	69	66	97	27		0.10	0.07	68.3
	NADP/NIN	Reynolds Creek	Dec 30 86 Dec 29 87	3	1	3	100	91	81	76	90	29	1	0.17	0.04	22.4
	NADP/NIN	Smiths Ferry	Dec 30 86 Dec 29 87	3	1	3	100	82	81	74	94	29	4	0.09	0.05	53.2
Illinois	NADP/NIN	Argonne	Jan 6 87 Jan 5 88	3	3	2	100	85	73	74	97	37	0.14	0.15	102.9	
	NADP/NIN	Bondville	Dec 30 86 Dec 29 87	2	2A	2	100	100	87	87	98	45		0.14	0.13	87.3
	NADP/NIN	Dixon Springs	Dec 30 86 Dec 29 87	2	2B	1	100	96	90	89	102	40		0.18	0.17	95.4
	NADP/NIN	Mormouth	Dec 30 86 Dec 29 87			1	100	95	88	87	93	41	3	0.12	0.08	65.5
	NADP/NIN	Salem	Dec 30 86 Dec 29 87	3	1	3	100	93	79	76	97	39		0.14	0.13	90.4
	NADP/NIN	Shabbona	Dec 30 86 Dec 29 87	1	1	1	100	98	88	88	92	43		0.12	0.14	113.6
	NADP/NIN	Southern Ill U	Dec 30 86 Dec 29 87	2	2B	1	100	99	92	90	100	38		0.17	0.17	100.3
	MAP3S/PCN	Illinois	Jan 1 87 Jan 1 88	3	2A	3	99	98	89	68	103	77		0.24	0.21	88.9

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 2

Chloride																
State	Network	Period Summarized		Overall Site Data			% PCL	% TP	% VSL	% VSMP	% Col Eff	% N	Wtd Mean	Cl Dep	Total Precip	
	Site Name	First Date	Last Date	Rating	Rep Comp	PCL						N	EDL	mg/l	g/m ²	cm
Indiana																
	NADP/NIN															
	Buntington	Dec 30 86	Dec 29 87	2	2A	2	100	100	94	94	96	48	0.14	0.12	84.5	
	Indiana Dunes	Dec 30 86	Dec 29 87	3	3	2	100	98	94	94	91	47	1	0.17	0.16	91.4
	Purche U Ag Farm	Dec 30 86	Dec 29 87	3	2A	3	98	72	69	73	92	35	1	0.13	0.13	97.2
	UAPSP															
	Fort Wayne	Jan 1 87	Jan 1 88	3	3	2	100	97	97	92	93	89	0.10	0.08	82.3	
	Rockport	Jan 1 87	Jan 1 88	3	3	1	100	99	99	94	96	68	0.20	0.13	63.2	
Iowa																
	NADP/NIN															
	McNay Research Sta	Dec 30 86	Dec 29 87	3	1	3	100	99	85	83	97	40	2	0.10	0.10	101.8
Kansas																
	NADP/NIN															
	Farlington	Dec 30 86	Dec 29 87	2	1	2	100	94	85	83	97	38	2	0.12	0.14	114.1
	Kanza Prairie	Dec 30 86	Dec 29 87	2	2A	1	100	98	87	85	95	40	2	0.11	0.10	89.0
	Scott Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	83	79	95	33	1	0.09	0.05	54.5
Kentucky																
	NADP/NIN															
	Land Between the L	Dec 30 86	Dec 29 87	1	1	1	100	97	92	91	99	41	1	0.16	0.15	97.3
	Lilley Cornett Woo	Dec 30 86	Dec 29 87	2	2A	1	100	93	87	86	96	43	1	0.12	0.12	103.1
	Parryville	Dec 30 86	Dec 29 87	2	2A	2	100	93	83	83	99	39		0.15	0.14	94.3
	UAPSP															
	Clearfield	Jan 1 87	Jan 1 88	2	2A	1	100	100	99	97	100	107	2	0.11	0.10	91.2
Louisiana																
	NADP/NIN															
	Iberia	Jan 6 87	Dec 29 87	2	2A	1	100	99	92	91	96	39		0.62	0.88	142.2
	Southeast	Jan 6 87	Dec 30 87	1	1	1	100	100	96	95	97	41		0.42	0.65	156.1
Maine																
	NADP/NIN															
	Bridgton	Dec 30 86	Dec 29 87	2	1	2	100	99	90	90	91	44	1	0.23	0.20	85.8
	Greenville Station	Dec 30 86	Dec 29 87	3	2A	3	100	99	87	86	84	44	5	0.12	0.12	101.1
	UAPSP															
	Winterport	Jan 1 87	Jan 1 88	2	2A	2	100	100	99	95	89	99		0.63	0.60	94.2
Maryland																
	NADP/NIN															
	White Rock	Dec 30 86	Dec 29 87	2	2A	2	100	90	77	76	100	38		0.23	0.24	103.1
	Wye	Dec 30 86	Dec 29 87	3	2A	3	100	89	73	73	95	37		0.47	0.32	67.7
Massachusetts																
	NADP/NIN															
	East	Dec 30 86	Dec 29 87	3	3	1	100	96	87	85	97	41		0.76	0.78	102.8
	Quabbin Reservoir	Dec 30 86	Dec 29 87	2	2A	1	98	99	88	89	97	42		0.26	0.25	98.3
	UAPSP															
	Turners Falls	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	89	99	76		0.22	0.23	104.7
Michigan																
	NADP/NIN															
	Kellogg	Dec 30 86	Dec 29 87	2	2A	2	100	84	77	83	87	39		0.15	0.12	82.0
	Raco	Dec 30 86	Dec 29 87	1	1	1	100	88	85	83	94	40		0.10	0.08	79.6
	Wellston	Dec 30 86	Dec 29 87	2	1	2	100	99	88	88	91	45		0.11	0.10	93.0
	UAPSP															
	Gaylord	Jan 1 87	Jan 1 88	2	2A	1	100	82	98	90	99	86	2	0.08	0.06	73.0
Minnesota																
	NADP/NIN															
	Farmberg	Dec 30 86	Dec 29 87	3	1	3	100	86	87	85	92	41	4	0.07	0.04	62.4
	Lamberton	Dec 30 86	Dec 29 87	3	1	3	100	94	85	80	97	32		0.10	0.05	51.5

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 3

Chloride

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Col	Wtd N	Cl Dep g/m ²	Total Precip cm		
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Eff						
Minnesota NADP/NTN Marcell	Dec 30 86	Dec 29 87	2	2B	2	100	99	85	83	92	40	6	0.07	0.06	78.5
Mississippi NADP/NTN Coffeyville	Dec 30 86	Dec 29 87	3	2A	3	100	88	79	77	86	33	1	0.19	0.28	147.9
Meridian	Dec 30 86	Dec 29 87	3	3	2	100	99	85	83	89	38		0.31	0.43	139.6
UAPSP Clinton	Jan 1 87	Jan 1 88	2	2A	1	100	99	100	99	101	85	1	0.31	0.37	118.4
Montana NADP/NTN Custer Battlefield	Dec 30 86	Dec 29 87	2	1	2	100	99	87	84	98	37		0.10	0.03	33.0
Nebraska NADP/NTN Mead	Dec 30 86	Dec 29 87	2	2A	2	100	100	89	86	98	38		0.11	0.08	76.1
North Platte Ag. E	Dec 30 86	Dec 29 87		2	100	92	77	73	92	32			0.09	0.04	50.0
Nevada NADP/NTN Smith Valley	Dec 30 86	Dec 29 87		3	100	91	88	80	96	24	2	0.11	0.02	19.3	
New Hampshire NADP/NTN Hubbard Brook	Dec 30 86	Dec 29 87	2	1	2	100	98	94	94	91	45	1	0.16	0.18	110.5
New Jersey NADP/NTN Washington Xing	Dec 30 86	Dec 29 87	2	2B	2	100	96	86	86	92	44		0.32	0.38	118.1
New Mexico NADP/NTN Bandelier Nat'l	Dec 30 86	Jan 5 88	1	1	1	100	89	87	85	97	35	1	0.11	0.04	38.2
Cuba	Dec 30 86	Dec 29 87	2	2A	2	100	93	87	83	96	33	2	0.10	0.02	24.9
New York NADP/NTN Aurora	Dec 30 86	Dec 29 87	2	2A	2	100	99	92	92	93	47	1	0.14	0.11	77.2
Bennett Bridge	Dec 30 86	Dec 29 87	2	2A	1	100	98	88	88	95	45	1	0.16	0.19	117.4
Biscuit Brook	Dec 30 86	Dec 29 87	3	1	3	100	85	85	83	99	43		0.15	0.20	135.2
Huntington	Dec 30 86	Dec 29 87	1	1	1	100	99	92	92	100	47		0.10	0.09	91.5
Jasper	Dec 30 86	Dec 29 87	2	2A	1	100	98	92	92	98	46		0.12	0.10	77.8
West Point	Dec 30 86	Dec 29 87	2	2A	2	100	90	85	85	91	44		0.38	0.49	128.3
MAP3S/PCN Brookhaven	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	93	99	62		1.18	1.21	103.0
Ithaca	Jan 1 87	Jan 1 88	2	2A	1	100	100	99	95	97	95		0.26	0.25	95.0
Whiteface	Jan 1 87	Jan 1 88	2	1	2	99	90	93	80	100	86	10	0.22	0.22	103.3
UAPSP Big Moose	Jan 1 87	Jan 1 88	2	1	2	100	98	95	89	90	156	3	0.11	0.14	129.3
North Carolina NADP/NTN Clinton Station	Dec 30 86	Dec 29 87	3	2A	3	100	69	63	60	101	29		0.59	0.55	92.7
Coweeeta	Dec 30 86	Dec 29 87	3	1	3	100	87	79	83	95	39	1	0.15	0.22	145.9
Finley (A)	Dec 30 86	Dec 29 87	2	2A	1	100	96	81	80	98	41		0.31	0.35	113.8
Lewiston	Dec 30 86	Dec 29 87	2	2A	1	100	99	88	88	97	44		0.52	0.60	116.6
Piedmont Station	Dec 30 86	Dec 29 87	2	2A	1	100	99	94	94	101	45		0.21	0.24	113.6
UAPSP Raleigh	Jan 1 87	Jan 1 88	2	2A	1	100	99	98	95	100	73		0.24	0.27	112.6

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 4

Chloride														Wtd Col N	Cl Dep g/m ²	Total Precip cm
State	Network	Period Summarized		Overall Site Data			% Rep	% Comp	% PCL	% TP	% VSL	% VSMP	% Eff	N	EOL	Mean mg/l
	Site Name	First Date	Last Date	Rating												
Ohio																
	NADP/MIN															
	Delaware	Dec 30 86	Dec 29 87	3	2A	3	100	88	69	67	102	30		0.15	0.09	57.9
	Oxford	Dec 31 86	Dec 29 87	2	2B	2	100	89	77	76	99	39		0.16	0.12	70.3
	Wooster	Dec 30 86	Dec 29 87	3	3	1	100	97	88	88	93	42	1	0.14	0.10	73.9
	MAP3S/PCN															
	Oxford	Jan 1 87	Jan 1 88	2	2B	2	99	98	91	73	102	82	3	0.27	0.19	72.1
	UAPSP															
	Zanesville	Jan 1 87	Jan 1 88	3	3	1	100	99	98	98	100	112		0.17	0.13	77.8
Oklahoma																
	NADP/MIN															
	Goodwell Research	Dec 30 86	Dec 29 87	2	2A	2	100	99	90	88	91	36	3	0.13	0.07	51.9
	Salt Plains Nation	Jan 6 87	Jan 5 88	3	1	3	100	79	85	84	96	36		0.16	0.15	91.2
Oregon																
	NADP/MIN															
	Bull Run	Dec 30 86	Dec 29 87	2	1	2	100	93	81	78	100	35		0.60	0.82	137.3
	H.J. Andrews	Dec 30 86	Dec 29 87	1	1	1	100	90	96	95	97	39	1	0.32	0.47	148.5
	Starkey Experiment	Dec 30 86	Dec 29 87	2	1	2	100	86	85	79	85	30	1	0.09	0.03	36.3
Pennsylvania																
	NADP/MIN															
	Kane	Dec 30 86	Dec 29 87	3	2A	3	100	90	83	82	91	42		0.14	0.19	133.8
	Leading Ridge	Dec 30 86	Dec 29 87	2	2A	1	100	92	86	86	89	44		0.19	0.19	99.3
	Milford	Dec 30 86	Dec 30 87	1	1	1	100	91	85	84	95	42		0.25	0.27	110.6
	Penn State	Dec 30 86	Dec 29 87	2	2B	2	100	85	88	88	98	44		0.17	0.16	91.3
	MAP3S/PCN															
	Penn State	Jan 1 87	Jan 1 88	2	2B	1	100	100	98	90	109	69	1	0.31	0.26	83.8
South Carolina																
	NADP/MIN															
	Santee National Wt	Dec 30 86	Dec 29 87	3	2A	3	100	94	77	74	98	35		0.51	0.55	108.9
South Dakota																
	UAPSP															
	Brookings	Jan 1 87	Jan 1 88	3	2A	3	100	93	95	71	102	37		0.09	0.05	56.7
Tennessee																
	NADP/MIN															
	Giles County	Dec 30 86	Dec 29 87	3	2A	3	100	88	71	69	102	34		0.18	0.18	101.7
	Walbar Branch	Dec 30 86	Dec 29 87	2	2B	2	100	97	83	82	100	40		0.23	0.20	90.5
	MAP3S/PCN															
	Oak Ridge	Jan 1 87	Jan 1 88	2	2B	1	100	100	100	100	108	63		0.29	0.26	89.6
Texas																
	NADP/MIN															
	Guadalupe Mountain	Dec 30 86	Dec 29 87	1	1	1	100	97	90	87	95	33		0.11	0.05	49.1
	LBJ National Grass	Dec 30 86	Dec 29 87	2	2	1	100	100	88	87	96	39		0.25	0.25	98.9
	Longview	Dec 30 86	Dec 29 87	2	2B	2	100	88	92	91	95	39		0.36	0.48	135.1
	UAPSP															
	Marshall	Jan 1 87	Jan 1 88	2	2A	1	100	99	99	98	105	80		0.29	0.36	125.2
Utah																
	NADP/MIN															
	Bryce Canyon	Dec 30 86	Dec 29 87	2	1	2	100	95	82	80	93	35	1	0.11	0.05	43.8
Vermont																
	NADP/MIN															
	Underhill	Dec 30 86	Dec 29 87	3	1	3	100	89	88	88	84	45		0.09	0.10	105.7
	UAPSP															
	Underhill Center	Jan 1 87	Jan 1 88	2	2A	2	100	98	97	91	86	116	4	0.06	0.07	104.0

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 5

Chloride

State	Network	Period Summarized	Overall Site Data	% PCL	% TP	% VSL	% VSMP	% Col Eff	N	Wtd Mean	Cl Dep	Total Precip			
	Site Name	First Date Last Date	Rating	Rep Comp					EDL	mg/l	g/m ²	cm			
Virginia															
	NADP/NTN														
	Horton's Station	Dec 30 86 Dec 29 87	3	3	2	100	89	79	80	97	36	0.13	0.11	83.9	
	MAP3S/PCN														
	Virginia	Jan 1 87 Jan 1 88	2	2A	2	100	98	95	75	114	53	2	0.28	0.38	133.5
	Washington														
	NADP/NTN														
	La Grande	Dec 30 86 Dec 29 87	2	2A	2	100	94	81	79	83	37	0.80	0.58	73.0	
	Palouse Conservati	Dec 30 86 Dec 29 87			2	100	96	83	76	86	29	2	0.10	0.04	39.3
West Virginia															
	NADP/NTN														
	Parsons	Dec 30 86 Dec 29 87	2	2B	1	100	96	90	90	88	45	0.14	0.14	99.3	
Wisconsin															
	NADP/NTN														
	Lake Dubay	Dec 30 86 Dec 29 87	3	2B	3	100	95	77	76	97	38	0.12	0.06	54.8	
	Lake Geneva	Dec 30 86 Dec 29 87	3	2A	3	98	98	85	86	100	42	0.13	0.10	80.1	
	Spooner	Dec 30 86 Dec 29 87	2	1	2	100	99	85	84	98	41	2	0.10	0.06	62.6
	Suring-NADP	Dec 30 86 Dec 29 87	1	1	1	100	98	90	90	97	45	2	0.10	0.06	61.3
	Trout Lake	Dec 30 86 Dec 29 87	2	1	2	100	90	90	90	95	45	1	0.13	0.09	68.3
	WAPSE														
	Round Lake	Jan 1 87 Jan 1 88			1	100	97	96	82	99	70	1	0.05	0.03	54.5
	Shawano	Jan 1 87 Jan 1 88			1	100	98	96	86	98	93	2	0.07	0.05	67.4
Wyoming															
	NADP/NTN														
	Newcastle	Dec 30 86 Dec 29 87	2	2A	1	100	93	88	87	89	39	6	0.08	0.03	29.7
Puerto Rico															
	NADP/NTN														
	El Verde	Dec 30 86 Dec 29 87			3	100	74	77	77	100	40	1.98	7.72	389.3	
New Brunswick															
	CAPMoN														
	Harcourt	Jan 1 87 Jan 1 88	2	1	2	100	99	89	77	85	137	3	0.43	0.47	109.4
Newfoundland															
	CAPMoN														
	Bay d'Espoir	Jan 1 87 Jan 1 88	3	1	3	100	95	91	82	88	154	6	1.21	1.65	136.4
Nova Scotia															
	CAPMoN														
	Jackson	Jan 1 87 Jan 1 88	2	1	2	100	96	83	70	85	145	7	0.56	0.75	133.0
	Kejimkujik (b)	Jan 1 87 Jan 1 88	3	2A	3	100	91	84	69	87	133	4	0.78	0.97	123.8
	Kejimkujik 2	Jan 1 87 Jan 1 88	2	1	2	100	92	85	72	88	138	6	0.78	0.96	124.3
Ontario															
	CAPMoN														
	Bonner Lake	Jan 1 87 Jan 1 88			2	100	97	84	72	93	151	42	0.06	0.04	76.6
	Chalk River	Jan 1 87 Jan 1 88	2	2A	2	100	98	88	75	96	122	16	0.09	0.07	77.8
	Longwoods (a)	Jan 1 87 Jan 1 88	2	2B	2	100	97	89	77	91	130	1	0.15	0.12	79.4
	Priceville	Jan 1 87 Jan 1 88	1	1	1	100	97	94	88	91	159	12	0.13	0.14	104.8
	Priceville 2	Jan 1 87 Jan 1 88	1	1	1	100	97	94	86	92	125	7	0.14	0.12	84.7
APIOS-D															
	Balsam Lake	Jan 1 87 Jan 1 88	2	1	2	100	89	96	88	87	113	23	0.14	0.10	73.7
	Charleston Lake	Jan 1 87 Jan 1 88	3	2A	3	100	75	93	78	92	90	9	0.21	0.20	93.6
	Dorset (b)	Jan 1 87 Jan 1 88	2	1	2	99	91	93	86	89	143	23	0.19	0.15	79.6
	Longwoods (b)	Jan 1 87 Jan 1 88	2	2B	1	100	88	96	90	93	103	1	0.27	0.19	70.9
	Melbourne	Jan 1 87 Jan 1 88	2	2A	2	100	96	94	84	88	113	7	0.19	0.13	68.9
	Nithgrove	Jan 1 87 Jan 1 88	1	1	1	99	83	92	82	89	115	18	0.15	0.12	79.4
	North Easthope	Jan 1 87 Jan 1 88	2	2A	1	100	94	94	87	87	132	10	0.16	0.14	88.2

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1987 Annual Data Summary
Derived from the Acid Deposition System (ADS) Data Base

10-Oct-1989
Page 6

Chloride

State Network Site Name	Period Summarized		Overall Site Data		%	%	%	%	%	Col	N N	Wtd BDL	Cl Mean mg/l	Dep g/m ²	Total Precip cm
	First Date	Last Date	Rating	Rep Comp	PCL	TP	VSL	VSMP	Eff						
Ontario															
APIOS-D															
Quetico Centre	Jan 1 87	Jan 1 88	3	1	3	99	87	94	78	100	62	11	0.07	0.04	53.9
Railton	Jan 1 87	Jan 1 88	1	1	1	100	94	91	86	89	70	6	0.30	0.27	88.6
Wellesley	Jan 1 87	Jan 1 88	2	2B	2	100	90	94	85	87	118	11	0.18	0.16	87.8
Wilmar	Jan 1 87	Jan 1 88		3	97	78	85	71	86	107	17	0.17	0.17	96.9	
APIOS-C															
Alvinston	Dec 30 86	Dec 29 87	2	2A	2	100	91	92	92	87	12		0.26	0.16	62.1
Campbellford	Dec 30 86	Dec 31 87	2	2A	2	99	100	99	100	80	13		0.19	0.14	75.4
Colchester	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	77	13		0.25	0.23	89.8
Caldwater	Dec 30 86	Dec 30 87	2	1	2	100	87	85	85	76	11	2	0.15	0.12	82.8
Dorion	Dec 30 86	Dec 29 87	2	1	2	100	82	85	85	80	11	1	0.17	0.09	54.0
Dorset (c)	Dec 30 86	Dec 29 87	1	1	1	100	100	100	100	86	13	1	0.13	0.10	74.2
Golden Lake	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	80	13		0.14	0.10	71.5
Buron Park	Dec 30 86	Dec 29 87	3	2A	3	100	100	100	100	75	13		0.19	0.14	75.0
Killarney	Jan 4 87	Dec 29 87	3	2A	3	100	85	84	85	66	11		0.16	0.11	66.4
Mattawa	Dec 30 86	Dec 30 87	2	2A	2	100	93	92	92	82	12	1	0.13	0.10	71.0
Marlin	Dec 30 86	Dec 29 87	2	2A	2	100	100	100	100	80	13		0.27	0.22	79.6
Moorbeam	Dec 29 86	Dec 30 87	3	2A	3	100	83	85	85	68	11	2	0.13	0.08	66.3
Palmerston	Dec 30 86	Dec 29 87	3	2A	3	100	95	92	92	73	12		0.19	0.14	71.9
Port Stanley	Dec 30 86	Dec 29 87	2	2B	2	100	100	100	100	82	13		0.23	0.17	75.3
Quetico Centre	Dec 30 86	Dec 29 87	3	1	3	100	70	85	85	89	11	2	0.08	0.05	57.6
Whitney	Dec 30 86	Dec 29 87	2	1	2	100	81	79	77	87	10	3	0.08	0.05	71.4
Wilbarforce	Dec 30 86	Dec 29 87	2	1	2	100	100	100	100	66	13		0.14	0.13	90.2
Quebec															
CAPIoN															
Port Cartier	Jan 1 87	Jan 1 88	2	1	2	100	98	88	77	99	142	27	0.27	0.26	95.9
Sutton	Jan 1 87	Jan 1 88	3	1	3	100	98	76	63	96	147	9	0.09	0.10	109.4
Sutton 2	Jan 1 87	Jan 1 88	3	1	3	100	97	76	63	94	147	17	0.09	0.10	109.3

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