

APTD-1466

AIR QUALITY DATA
FOR NONMETALLIC
INORGANIC IONS
1969 AND 1970

from the National Air Surveillance Networks



U.S. ENVIRONMENTAL PROTECTION AGENCY

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**ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Water Programs
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711**

June 1973

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PREFACE

The Quality Assurance and Environmental Monitoring Laboratory of the National Environmental Research Center-Research Triangle Park, with the assistance and cooperation of state and local agencies, conducts a variety of air sampling activities to obtain information about the air quality in the United States. Data from independent state and local sampling networks that have contributed their results to the National Aerometric Data Bank are available from the Monitoring and Data Analysis Division, Office of Air and Water Programs. The data reported are for nonmetallic inorganic ions of particulate matter.

Updated listings for this notebook will be provided as more current data are available. Any subsequent changes in the introductory material (site descriptions, data table presentations, laboratory methodology, etc.) made by EPA will be forwarded on a routine basis.

LIST OF TABLES

<u>Table</u>	<u>Page</u>
1-1. Urban and Nonurban Detectable Concentrations for Nonmetallic Inorganic Ions	1-2
3-1. Ammonium, Urban Frequency Distributions, 1969	3-1
3-2. Ammonium, Nonurban Frequency Distributions, 1969	3-7
3-3. Ammonium, Urban Frequency Distributions, 1970	3-9
3-4. Ammonium, Nonurban Frequency Distributions, 1970	3-15
4-1. Fluoride, Urban Abbreviated Frequency Distributions, 1969.	4-1
4-2. Fluoride, Nonurban Abbreviated Frequency Distributions, 1969	4-7
4-3. Fluoride, Urban Abbreviated Frequency Distributions, 1970.	4-9
4-4. Fluoride, Nonurban Abbreviated Frequency Distributions, 1970	4-15
5-1. Nitrate, Urban Frequency Distributions, 1969	5-1
5-2. Nitrate, Nonurban Frequency Distributions, 1969.	5-7
5-3. Nitrate, Urban Frequency Distributions, 1970	5-9
5-4. Nitrate, Nonurban Frequency Distributions, 1970.	5-15
6-1. Sulfate, Urban Frequency Distributions, 1969	6-1
6-2. Sulfate, Nonurban Frequency Distributions, 1969.	6-7
6-3. Sulfate, Urban Frequency Distributions, 1970	6-9
6-4. Sulfate, Nonurban Frequency Distributions, 1970.	6-15

CONTENTS

LIST OF TABLES vi

ABSTRACT vii

SECTION 1. INTRODUCTION

 SAMPLING LOCATIONS 1-1

 SAMPLING SCHEDULES 1-2

 DESCRIPTION OF DATA TABLES 1-2

 REFERENCES 1-2

SECTION 2. LABORATORY METHODS

 SUSPENDED PARTICULATE MATTER 2-1

 NONMETALLIC INORGANIC IONS 2-1

 REFERENCE 2-2

SECTION 3. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: AMMONIUM

SECTION 4. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: FLUORIDE

SECTION 5. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: NITRATE

SECTION 6. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS IN SUSPENDED PARTICULATES: SULFATE

ACKNOWLEDGMENTS

The data reported in this publication could not have been gathered without the generous cooperation of the many state and local air pollution control agencies in the operation of the NASN stations. Gratitude is also due the agencies that have participated in this operation.

ABSTRACT

Particulate pollutant data gathered during 1969 and 1970 by the cooperating stations of the National Air Surveillance Networks provide the basis for listing the urban and nonurban concentrations of four nonmetallic inorganic ions, ammonium, fluoride, nitrate, and sulfate. Laboratory methodology for each nonmetallic inorganic constituent is described.

The data for ammonium, nitrate, and sulfate are presented as cumulative frequency distributions. Because there were no nonurban fluoride measurements above the detectable concentration, the table showing nonurban concentrations of fluoride is abbreviated.

A previous EPA publication, APTD-0978, lists nonmetallic inorganic constituents of suspended particulates for 1968.

AIR QUALITY DATA FOR NONMETALLIC INORGANIC IONS 1969 AND 1970

SECTION 1. INTRODUCTION

The Environmental Protection Agency (EPA), with the assistance and cooperation of state and local agencies, conducts a variety of air sampling activities to obtain information about the air quality in the United States. EPA generally provides the equipment, supplies, and laboratory analytical services; the cooperating agency provides the sampling site and the manpower. In addition to assisting in the operation of the EPA sampling network, many state and local air pollution control agencies operate their own air pollution control programs. Many such agencies contribute their data to EPA's aerometric data bank, and these data are included in other EPA publications. Data on the concentrations of four nonmetallic inorganic ions, ammonium, fluoride, nitrate, and sulfate, present in suspended particulate matter collected at urban and nonurban sampling sites during 1969 and 1970 are included in this publication.

SAMPLING LOCATIONS

The monitoring sites are divided into two groups, urban sites located within a city or town or its suburban environs and nonurban sites located in rural or remote areas, in order to provide an indication of background levels of nonmetallic inorganic ions. Within each section the data are arranged by year, then by urban and nonurban sites for that specific year.

Each monitoring site is assigned a unique code number. Details of site coding and a list of codes already assigned are found in the SAROAD Station Coding Manual.¹ Briefly, each twelve-digit site identification number is assigned as follows: the first two digits identify the state; the next four digits identify a city of at least 2500 persons, or a county (in some states, the corresponding jurisdiction is a parish, election district, or regional planning district); and the next three digits designate a specific address where the sampling equipment is operated. For example, 010380001 A01 refers to state 01 (Alabama), city 0380 (Birmingham), and site 001 (619 South 19th Street). The final three characters (A01) designate the agency project code. Some of the principal agency project codes are:

- A01 EPA, population-oriented surveillance
- A03 EPA, background surveillance
- F01 State agency, population-oriented surveillance
- G01 County agency, population-oriented surveillance
- H01 City agency, population-oriented surveillance

A list of sampling site addresses is available in a separate publication.²

SAMPLING SCHEDULES

National Air Surveillance Networks (NASN) data originate from a bi-weekly (26 samples per year) modified random sampling schedule. The schedule is modified to ensure equal representation of each day of the week.

DESCRIPTION OF DATA TABLES

The format of data presentation is the cumulative frequency distribution table. For each site, these tables list the year of sampling and the number of valid samples taken. The minimum value, the nine decile values, the arithmetic mean, and the geometric mean are expressed in micrograms per cubic meter. The standard deviation is also given. Standard temperature was 25° Centigrade and standard pressure was 760 mm mercury. The cumulative frequency distribution for nonurban fluoride concentrations is abbreviated because there were few measurements above the minimum detectable concentration. Fluoride analysis, however, is conducted on every nonurban particulate sample.

Table 1-1 lists the minimum detectable concentrations, urban and nonurban, for the four nonmetallic inorganic ions.

Table 1-1. URBAN AND NONURBAN DETECTABLE CONCENTRATIONS
FOR NONMETALLIC INORGANIC IONS,^a $\mu\text{g}/\text{m}^3$

Ion	Detectable concentration	
	Urban	Nonurban
Ammonium	0.06	0.06
Fluoride	0.05	0.05
Nitrate	0.06	0.06
Sulfate	0.60	0.60

^a Because nonurban particulate levels are lower, the extracts of the filters used for analysis may be prepared in more concentrated form for increased sensitivity. These limits of detectability are subject to change as analytical methods improve.

REFERENCES

1. Fair, D.H. SAROAD Station Coding Manual. U.S. Environmental Protection Agency, Office of Air Programs, Research Triangle Park, North Carolina. Publication No. APTD-0907. February 1972.
2. Directory of Air Quality Monitoring Sites, 1971. U.S. Environmental Protection Agency, Office of Air Programs. Research Triangle Park, North Carolina. Publication No. APTD-0979. April 1972.

SECTION 2. LABORATORY METHODS

SUSPENDED PARTICULATE MATTER

The mass of particulate matter per volume of air is usually determined by drawing air through a pre-weighed glass filter with a high-volume (Hi-Vol) air sampler and then weighing the soiled filter. A calibrated rotameter is read at the start and finish of the sampling period, and the averaged value is used with a calibration table for that rotameter to obtain the flow rate. The known sampling period (24 hours) and the measured flow rate allow for calculation of the volume of air sampled. The following procedure is used by EPA for all sampling conducted by NASN.

The Hi-Vol samplers, operating at approximately 1.5 cubic meters per minute, collect particulate matter from about 2200 cubic meters of air during the 24-hour sampling period. The filters used are 8- by 10-inch flash-fired glass-fiber filters selected for low and uniform background concentrations of those substances to be measured.

To eliminate any filters having pinholes or other flaws that could affect air flow, the filters are screened for imperfections on a light table and numbered. Prior to weighing, they are equilibrated for a minimum of 24 hours at a temperature of 24° Centigrade and a relative humidity of 50 percent or less. Because any crease in a filter can seriously affect the air flow, filters are weighed with a balance that permits weighing without bending.

The filters are then distributed unfolded to the cooperating local agencies. After sampling, the filters are folded in half with the collected particulate matter inside and returned to the laboratory. The filter with the collected particulates is again equilibrated for at least 24 hours at a temperature of 24° Centigrade and a relative humidity of 50 percent or less, and then weighed to determine the amount of particulate matter that was collected.

NONMETALLIC INORGANIC IONS

Analyses for ammonium, nitrate, and sulfate ions are conducted with Auto-Analyzers^{*} on an aqueous extract of an 8.3 percent aliquot of the particulate sample. The sample aliquot is washed twice in preparing the extract, which has a final volume of 50 milliliters. This solution is used for the three analyses.

Ammonium ion in the filtrate is determined by reaction with sodium hypochlorite solutions to produce a blue complex. The color intensity of this complex is measured spectrophotometrically at 626 nanometers.

Nitrate ion in the filtrate is reduced to nitrite by alkaline hydrazine (pH11). Sulfanilamide is added to form a diazo compound that subsequently combines with N-(1-naphthyl) ethylenediamine. The resulting compound is measured spectrophotometrically at 535 nanometers. This method offers distinct advantages in avoiding interferences from other water-soluble compounds found in atmospheric particulates.

* Mention of a specific commercial product or company name does not constitute endorsement by the Environmental Protection Agency.

Sulfate ion in the filtrate is determined by the methylthymol blue method, which is appropriate only with the closed system techniques because the methylthymol blue dye is oxidized by atmospheric oxygen. The filtrate is reacted with a reagent consisting of equal parts of methylthymol blue dye and barium chloride kept at a pH of 2.8 to prevent the formation of a chelate complex from the dye and the barium ion. Any sulfate ion in the sample reacts with the barium ion, leaving an excess of methylthymol blue dye that is proportional to the amount of sulfate present. The pH is then raised to 12.4. At this point the barium ion that was not removed by the sulfate forms a chelate complex with the methylthymol blue dye, and the excess dye turns yellow. The intensity of the yellow dye is then determined colorimetrically at 480 nanometers.

Measurement of the fluoride ion concentration in NASN samples of suspended particulate matter became practical with the adaption of a fluoride-selective electrode technique.¹ The analysis is conducted on an aliquot of the same water extract that was prepared for the ammonium, nitrate, and sulfate analyses. A sodium citrate-carbonate buffer solution is added to adjust the ionic strength and the pH to the control interferences from the metal ions. The fluoride-selective electrode generates a potential in proportion to the fluoride activity in the sample; this potential is measured against the potential of a standard reference electrode. The fluoride content is then determined by comparing this potential to that obtained, under the same conditions, from standard solutions of known fluoride content.

REFERENCE

1. Frant, M.C. and J.W. Ross, Jr. Electrode for Sensing Fluoride Ion Activity in Solution. *Science*, 145: 1533-1544, 1966.

**SECTION 3. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS
IN SUSPENDED PARTICULATES: AMMONIUM**

Table 3-1. AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC GEOMETRIC			
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN 011480001 A01	26	0.0	0.0	0.0	0.10	0.20	0.20	0.20	0.40	0.60	0.80	2.40	0.39	0.52	0.19	3.83
HUNTSVILLE 011860001 A01	26	0.0	0.0	0.20	0.20	0.30	0.40	0.40	0.60	0.90	1.10	5.50	0.66	1.06	0.32	3.87
MOBILE 012380001 A01	22	0.0	0.0	0.10	0.20	0.20	0.20	0.20	0.20	0.30	0.50	1.00	0.25	0.22	0.16	2.83
MONTGOMERY 012460001 A01	26	0.0	0.10	0.20	0.20	0.30	0.30	0.40	0.50	0.90	1.20	5.30	0.63	1.02	0.34	2.88
ALASKA																
ANCHORAGE 020040003 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	2.00	0.18	0.38	0.10	2.55
FAIRBANKS 020160001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.50	0.15	0.13	0.11	2.49
ARIZONA																
PHOENIX 030600002 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	0.60	1.30	2.00	0.42	0.54	0.18	4.09
TUCSON 030860001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.60	2.90	0.35	0.60	0.16	3.49
ARKANSAS																
LITTLE ROCK 041440001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.80	0.90	1.50	1.80	0.50	0.54	0.26	3.63
TEXARKANA 042560001 A01	26	0.0	0.10	0.10	0.10	0.10	0.20	0.40	1.40	1.50	2.00	2.80	0.70	0.82	0.31	3.88
CALIFORNIA																
ANAHEIM 050230001 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	0.50	3.40	8.10	1.06	2.22	0.22	5.89
BURBANK 050900001 A01	24	0.0	0.10	0.10	0.20	0.30	0.30	0.40	0.50	1.30	2.20	9.20	1.04	1.99	0.38	4.13
FRESNO 052800001 A01	25	0.0	0.10	0.10	0.10	0.20	0.40	0.40	0.70	0.70	0.80	5.60	0.61	1.09	0.28	3.51
GLENDALE 052940001 A01	26	0.0	0.10	0.10	0.10	0.30	0.30	0.30	1.00	1.40	2.30	8.80	1.01	1.87	0.35	4.37
LONG BEACH 054100001 A01	24	0.0	0.10	0.10	0.10	0.20	0.30	0.80	1.30	1.90	2.60	10.20	1.28	2.18	0.41	5.19
LOS ANGELES 054180001 A01	24	0.0	0.10	0.20	0.20	0.30	0.40	0.50	0.60	0.80	1.50	2.80	0.60	0.68	0.36	2.91
OAKLAND 055300001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.70	1.70				
ONTARIO 055380001 A01	25	0.0	0.0	0.10	0.20	0.20	0.30	0.40	1.40	1.50	2.70	6.90	1.05	1.57	0.37	4.96
RIVERSIDE 056400001 A01	26	0.0	0.0	0.20	0.20	0.40	0.70	1.00	1.40	1.70	3.10	5.80	1.20	1.47	0.52	4.72
SACRAMENTO 056580001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.40	0.15	0.09	0.12	2.21
SAN BERNARDINO 056680001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.70	1.30	1.70	2.30	0.57	0.67	0.24	4.42
SAN DIEGO 056800001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	1.20	3.10				
SAN FRANCISCO 056860001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	1.30	3.10				
SAN JOSE 056980001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	2.00	0.20	0.38	0.11	2.70
SANTA ANA 057180001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.60	2.00	6.40	0.67	1.36	0.19	4.84
TORRANCE 058260001 A01	25	0.0	0.0	0.0	0.10	0.10	0.30	0.30	0.70	1.40	5.90	7.40	1.15	2.11	0.27	6.01
COLORADO																
DENVER 060580001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.40				
CONNECTICUT																
BRIDGEPORT 070060001 A01	25	0.20	0.30	0.40	0.70	0.70	1.00	1.10	1.40	1.90	2.40	2.80	1.14	0.77	0.88	2.17
HARTFORD 070420001 A01	25	0.10	0.60	0.80	0.90	1.10	1.20	1.30	1.70	1.90	2.40	3.90	1.40	0.87	1.12	2.18
NEW HAVEN 070700001 A01	26	0.10	0.20	1.00	1.40	2.00	2.10	2.10	2.70	2.90	4.20	6.00	2.15	1.43	1.54	2.79

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
CONNECTICUT WATERBURY 071240001 A01	26	0.10	0.30	0.70	0.90	1.10	1.10	1.20	1.40	2.20	3.10	4.80	1.44	1.10	1.07	2.36	
DELAWARE WILMINGTON 080260001 A01	24	0.40	0.90	1.10	1.40	2.60	2.70	3.00	3.30	4.20	6.70	12.60	3.31	2.92	2.43	2.26	
DIST COLUMBIA WASHINGTON 090020001 A01	26	0.10	0.20	0.50	0.80	1.10	1.60	1.90	2.30	2.50	4.00	9.70	1.89	1.92	1.21	2.87	
FLORIDA JACKSONVILLE 101960002 A01	24	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.30	1.80	0.23	0.35	0.15	2.35	
MIAMI 102700001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.50				
ST PETERSBURG 103980002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	1.50					
TAMPA 104360002 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	13.10	0.64	2.55	0.12	3.52	
GEORGIA ATLANTA 110200001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.50	0.90	1.50	2.00	0.48	0.59	0.22	3.82	
COLUMBUS 111280001 A01	24	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.50	0.90	1.40	4.90	0.59	1.02	0.25	3.88	
SAVANNAH 114500001 A01	25	0.0	0.10	0.20	0.20	0.20	0.20	0.30	1.70	3.10	6.40	7.50	1.56	2.35	0.48	4.95	
HAWAII HONOLULU 120120001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.20				
IDAHO BOISE CITY 130220001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.50					
ILLINOIS CHICAGO 141220001 A01	26	0.20	0.20	0.50	0.80	1.20	1.40	1.60	2.00	2.90	3.60	4.80	1.71	1.33	1.20	2.56	
EAST ST LOUIS 142120001 A01	25	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.50	0.90	1.80	6.10	0.75	1.30	0.37	2.95	
JOLIET 143760001 A01	23	0.0	0.10	0.10	0.20	0.40	0.50	0.90	1.30	1.90	2.90	4.40	1.07	1.17	0.52	3.99	
NORTH CHICAGO 145620002 A01	26	0.10	0.10	0.20	0.20	0.20	0.50	0.70	1.40	1.70	2.60	6.20	1.05	1.35	0.53	3.42	
PEORIA 146080001 A01	26	0.10	0.10	0.20	0.20	0.60	0.70	1.40	1.70	1.90	2.50	3.60	1.15	0.99	0.67	3.31	
ROCKFORD 146680001 A01	24	0.10	0.10	0.10	0.10	0.30	0.30	0.70	0.90	1.50	1.90	6.10	0.95	1.43	0.43	3.62	
SPRINGFIELD 147280001 A01	25	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.80	0.90	1.70	12.50	1.21	2.66	0.48	3.23	
INDIANA EAST CHICAGO 151180001 A01	25	0.10	0.10	0.40	0.50	0.70	0.90	1.00	1.30	1.50	2.80	4.70	1.19	1.11	0.77	2.84	
EVANSVILLE 151300001 A01	26	0.0	0.10	0.10	0.20	0.20	0.40	0.50	0.60	1.00	2.60	6.80	0.89	1.45	0.36	4.06	
FCRY WAYNE 151380001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.90	2.10	2.60	0.64	0.75	0.33	3.54	
GARY 151520001 A01	23	0.10	0.10	0.20	0.20	0.20	0.50	0.50	0.90	1.60	2.50	3.70	0.85	1.00	0.45	3.23	
HAMMOND 151780001 A01	25	0.10	0.20	0.30	0.40	0.70	1.00	1.00	1.30	1.90	2.80	5.00	1.19	1.15	0.78	2.69	
INDIANAPOLIS 152040001 A01	25	0.10	0.10	0.30	0.40	0.50	0.70	0.90	1.10	2.20	2.70	4.00	1.12	1.08	0.69	2.94	
NEW ALBANY 152980002 A01	23	0.10	0.20	0.30	0.40	0.40	0.60	0.60	0.70	0.90	1.20	2.00	0.63	0.45	0.49	2.16	
SOUTH BEND 153880002 A01	25	0.10	0.20	0.20	0.30	0.40	0.50	0.60	0.90	2.20	2.60	4.80	1.01	1.15	0.59	2.81	
TERRE HAUTE 154080001 A01	23	0.0	0.20	0.30	0.40	0.50	1.00	1.20	1.80	2.30	3.00	6.00	1.41	1.45	0.80	3.47	
IOWA DAVENPORT 161040001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.90	2.50	0.32	0.54	0.14	3.55	

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
IOWA DES MOINES 161180001 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30	1.10	3.00	0.39	0.66	0.16	3.72	
DUBUQUE 161260001 A01	24	0.0	0.10	0.20	0.50	0.50	0.60	0.90	1.10	1.30	1.40	9.80	1.10	1.91	0.57	3.30	
KANSAS KANSAS CITY 171800002 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.14	0.10	0.11	2.21	
TOPEKA 173560001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.70	2.00					
WICHITA 173740001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	0.90					
KENTUCKY ASHLAND 180080002 A01	24	0.10	0.20	0.30	0.40	0.50	0.70	1.10	3.10	5.70	8.10	25.30	3.29	5.55	1.15	4.43	
COVINGTON 180800001 A01	26	0.10	0.20	0.30	0.40	0.40	0.50	1.10	1.40	1.60	2.30	3.70	1.04	0.95	0.69	2.61	
LOUISVILLE 182380001 A01	25	0.10	0.10	0.20	0.20	0.30	0.30	0.50	0.70	1.20	1.80	2.20	0.64	0.63	0.40	2.68	
LOUISIANA BATON ROUGE 190280001 A01	22	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.60	0.60	1.80	0.32	0.43	0.17	2.96	
NEW ORLEANS 192020002 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.70					
SHREVEPORT 192740001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.90	1.00	1.40	1.70	0.49	0.56	0.24	3.78	
MARYLAND BALTIMORE 210120001 A01	23	0.10	0.20	0.20	0.50	1.00	1.30	1.90	2.10	2.70	3.30	5.40	1.63	1.41	1.00	3.17	
MASSACHUSETTS BOSTON 220240001 A01	24	0.10	0.10	0.20	0.40	0.70	1.30	1.40	1.80	2.80	3.10	3.60	1.38	1.17	0.81	3.34	
FALL RIVER 220980002 A01	25	0.10	0.30	0.30	0.40	0.70	0.90	1.20	2.20	2.30	3.00	4.20	1.38	1.16	0.90	2.77	
SPRINGFIELD 222160001 A01	26	0.10	0.20	0.50	0.50	0.70	0.90	1.20	1.30	1.60	1.70	2.20	0.98	0.61	0.74	2.42	
WORCHESTER 222640001 A01	26	0.10	0.30	0.50	0.90	1.20	1.40	1.80	2.10	2.20	2.40	5.20	1.52	1.07	1.12	2.50	
MICHIGAN DEARBORN 231140001 A01	25	0.10	0.10	0.10	0.20	0.20	0.30	0.50	0.60	0.80	2.70	3.70	0.78	1.05	0.39	3.27	
DETROIT 231180001 A01	25	0.0	0.10	0.10	0.10	0.10	0.30	0.30	0.50	0.90	1.80	2.30	0.53	0.65	0.26	3.55	
FLINT 231580001 A01	23	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	1.10	1.90					
GRAND RAPIDS 231820001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.60	0.70	1.70	3.80					
LANSING 232840001 A01	26	0.0	0.0	0.0	0.0	0.10	0.20	0.30	0.80	1.00	1.40	1.60					
SAGINAW 234760001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.50	0.80	1.00	1.80	4.40	0.66	0.95	0.27	4.12	
TRENTON 235120001 A01	23	0.0	0.0	0.10	0.10	0.10	0.30	0.50	0.80	1.10	2.30	3.70	0.79	1.10	0.29	4.73	
MINNESOTA DULUTH 241040001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.90	0.18	0.19	0.12	2.51	
MINNEAPOLIS 242260001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.60	1.00	1.80	2.30	0.55	0.68	0.24	4.22	
MOORHEAD 242320001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.70	1.00	0.18	0.25	0.10	2.76	
ST PAUL 243300001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.60	0.90	1.80	2.40	0.56	0.76	0.21	4.35	
MISSOURI KANSAS CITY 262380002 A01	24	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.50	0.70	2.70	0.37	0.61	0.17	3.48	
ST LOUIS 264280001 A01	23	0.0	0.10	0.10	0.30	0.50	0.50	0.90	1.00	1.10	1.30	7.00	0.96	1.45	0.46	3.95	

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
MONTANA HELENA 270720001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	2.10	4.60					
NEBRASKA JMAHA 281880001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	2.80					
NEVADA LAS VEGAS 290320001 A01	22	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20					
RENO 290480001 A01	26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.50	0.18	0.13	0.15	1.78	
NEW HAMPSHIRE CONCORD 300120001 A01	24	0.10	0.10	0.20	0.30	0.40	0.50	0.90	1.10	1.50	1.60	3.30	0.88	0.89	0.53	2.98	
NEW JERSEY BURLINGTON CO 310660002 A01	26	0.10	0.10	0.30	0.40	0.70	0.90	1.20	1.30	1.70	2.40	2.70	1.03	0.77	0.71	2.74	
CAMDEN 310720001 A01	24	0.30	0.80	1.20	1.60	2.10	2.60	3.10	3.80	4.00	4.40	5.60	2.72	1.50	2.22	2.08	
ELIZABETH 311300001 A01	25	0.20	0.30	0.70	0.90	1.20	1.70	1.80	2.00	2.00	2.60	6.10	1.67	1.20	1.30	2.19	
GLASSBORO 311700001 A01	25	0.0	0.20	0.30	0.50	0.60	1.50	1.60	2.60	3.30	5.30	5.90	1.94	1.91	1.00	4.01	
HAMILTON 311940001 A01	23	0.0	0.20	0.30	0.60	0.80	0.90	1.10	1.50	1.90	2.30	4.00	1.18	0.98	0.77	3.10	
JERSEY CITY 312320001 A01	26	0.20	0.30	1.00	1.00	1.30	1.50	1.80	2.00	2.20	4.10	5.50	1.78	1.24	1.37	2.26	
NEWARK 313480001 A01	25	0.20	0.60	0.90	1.00	1.20	1.50	1.70	2.10	2.40	4.00	5.20	1.76	1.22	1.38	2.14	
PATERSON 314140001 A01	25	0.50	0.70	1.00	1.20	1.30	1.70	1.90	2.10	2.50	3.20	4.20	1.82	0.98	1.58	1.76	
PERTH AMBOY 314220001 A01	24	0.0	0.10	0.40	1.40	1.70	1.80	2.20	2.50	2.80	3.00	4.20	1.80	1.12	1.15	3.69	
TRENTON 315400001 A01	24	0.10	0.10	0.20	0.40	0.60	0.70	1.10	1.30	2.70	4.80	8.80	1.63	2.20	0.73	3.85	
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.30				
NEW YORK ALBANY 330040001 A01	25	0.0	0.0	0.0	0.10	0.20	0.40	0.60	1.10	1.50	1.80	2.40	0.71	0.72	0.30	4.90	
BUFFALO 330660001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.60	0.80	1.10	2.20					
NEW YORK CITY 334680001 A01	24	0.10	0.10	0.40	1.10	1.40	1.50	2.10	2.40	3.10	5.40	10.20	2.31	2.39	1.28	3.61	
NIAGARA FALLS 334740001 A01	26	0.0	0.10	0.20	0.20	0.30	0.50	0.60	0.80	0.90	1.30	7.80	0.80	1.48	0.37	3.55	
ROCHESTER 335760001 A01	25	0.0	0.0	0.0	0.0	0.10	0.30	0.40	0.90	1.00	1.70	7.80					
SYRACUSE 336620001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.60	1.10	1.60					
UTICA 336880001 A01	26	0.0	0.10	0.10	0.10	0.20	0.20	0.40	0.60	0.80	1.80	2.60	0.54	0.67	0.28	3.46	
NORTH CAROLINA CHARLOTTE 340700001 A01	24	0.0	0.10	0.30	0.50	0.50	0.60	0.70	0.80	1.40	1.90	3.50	0.85	0.81	0.55	2.94	
DURHAM 341160001 A01	26	0.0	0.10	0.20	0.20	0.40	0.50	0.70	1.10	1.30	1.60	2.20	0.72	0.60	0.45	3.10	
GREENSBORO 341740001 A01	24	0.0	0.0	0.0	0.10	0.30	0.40	0.50	0.70	0.80	0.90	1.60	0.47	0.43	0.24	4.07	
WINSTON-SALEM 344440002 A01	25	0.10	0.20	0.40	0.60	0.70	0.90	1.30	1.50	1.80	2.40	2.90	1.15	0.83	0.81	2.64	
NORTH DAKOTA BISMARCK 350100001 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.30	2.00					
OHIO CANTON 361020001 A01	26	0.0	0.10	0.20	0.30	0.40	0.40	0.60	0.80	1.00	2.40	3.60	0.85	1.00	0.46	3.28	

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
OHIO CINCINNATI 361220001 A01	26	0.0	0.10	0.10	0.20	0.30	0.30	0.40	0.80	1.10	2.40	5.20	0.80	1.16	0.36	3.81	
CLEVELAND 361300001 A01	25	0.0	0.10	0.20	0.30	0.30	0.40	0.50	1.50	1.90	2.50	5.20	1.06	1.24	0.52	3.76	
COLUMBUS 361460001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.80	1.00	1.80	3.70	0.67	0.85	0.33	3.72	
DAYTON 361660001 A01	25	0.0	0.10	0.10	0.20	0.30	0.50	0.50	1.10	1.20	1.60	3.40	0.76	0.81	0.43	3.39	
TOLEDO 366600001 A01	26	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.50	0.80	1.60	2.80	0.57	0.71	0.28	3.57	
YOUNGSTOWN 367760001 A01	26	0.10	0.20	0.30	0.50	0.60	0.70	0.70	1.10	1.10	1.60	2.50	0.80	0.55	0.63	2.11	
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	0.40					
TULSA 373000001 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										3.30				
OREGON MEDFORD 381160001 A01	23	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.30	0.80	0.25	0.18	0.21	1.83	
PORTLAND 381460001 A01	25	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	1.60	4.40	0.54	1.08	0.19	3.87	
PENNSYLVANIA ALLENTOWN 390120001 A01	25	0.10	0.10	0.20	0.20	0.40	0.60	0.80	1.10	1.30	1.70	2.40	0.78	0.66	0.51	2.83	
ALTOONA 390140001 A01	23	0.0	0.20	0.20	0.40	0.40	0.60	1.20	1.30	1.90	2.50	3.10	1.03	0.92	0.61	3.32	
BETHLEHEM 390780002 A01	25	0.0	0.0	0.10	0.20	0.20	0.30	0.30	0.60	1.40	2.20	3.80	0.78	1.05	0.33	4.25	
ERIE 393060002 A01	25	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.70	1.00	2.50	2.80	0.66	0.87	0.27	4.50	
HARRISBURG 393880001 A01	24	0.10	0.10	0.10	0.30	0.60	0.80	1.00	1.00	1.60	1.80	2.70	0.88	0.72	0.54	3.16	
HAZLETON 393960001 A01	23	0.0	0.10	0.10	0.20	0.30	0.50	0.80	1.20	1.40	2.60	3.30	0.90	0.96	0.45	3.82	
JOHNSTOWN 394460001 A01	24	0.0	0.10	0.20	0.30	0.50	0.90	1.10	1.40	1.70	3.30	5.10	1.23	1.37	0.64	3.72	
PUERTO RICO CATANO 400560002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.30					
GUAYANILLA 401080002 A01	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.30				
PONCE 401920002 A01	23	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.50				
SAN JUAN 402140001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.20				
RHODE ISLAND EAST PROVIDENCE 410120001 A01	25	0.0	0.0	0.10	0.30	0.40	0.60	0.60	1.40	1.40	1.80	1.90	0.75	0.64	0.39	4.27	
PROVIDENCE 410300001 A01	26	0.10	0.20	0.50	1.20	1.40	1.80	2.00	2.30	2.70	3.40	3.90	1.73	1.10	1.24	2.72	
SOUTH CAROLINA COLUMBIA 420760001 A01	22	0.0	0.0	0.10	0.20	0.30	0.40	0.50	0.60	0.70	1.40	2.10	0.55	0.58	0.29	3.71	
GREENVILLE 421180001 A01	25	0.0	0.20	0.20	0.20	0.40	0.50	0.90	1.10	1.30	1.80	1.90	0.78	0.64	0.48	3.37	
TENNESSEE CHATTANOOGA 440380001 A01	26	0.0	0.10	0.30	0.30	0.40	0.50	0.80	1.00	1.20	2.10	3.40	0.99	0.88	0.53	3.11	
KNOXVILLE 441740001 A01	24	0.0	0.20	0.20	0.30	0.40	0.50	0.70	0.80	1.10	1.80	2.30	0.70	0.60	0.45	3.16	
MEMPHIS 442340001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.40	0.40	0.70	2.10	0.34	0.46	0.18	3.09	
NASHVILLE 442540001 A01	25	0.0	0.10	0.10	0.20	0.20	0.40	0.60	1.00	1.20	2.00	2.10	0.70	0.69	0.38	3.48	

Table 3-1 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS																	
DALLAS																	
451310002 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.20	0.20	0.40	1.30					
FORT WORTH																	
451880001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40					
TEXAS																	
HOUSTON																	
452560001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30					
PASADENA																	
454060002 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.20	0.50	2.80					
SAN ANTONIO																	
454570001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.30				
UTAH																	
OGDEN																	
460680001 A01	24	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.30	1.80	0.25	0.35	0.15	2.80	
SALT LAKE CITY																	
460920001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.30	4.80	0.36	0.92	0.14	3.26	
VERMONT																	
BURLINGTON																	
470140001 A01	23	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.50	0.70	0.90	2.20					
VIRGINIA																	
DANVILLE																	
480920001 A01	25	0.0	0.10	0.20	0.40	0.40	0.60	0.70	0.90	1.00	2.40	2.70	0.80	0.77	0.49	3.14	
HAMPTON																	
481440001 A01	26	0.0	0.0	0.10	0.20	0.30	0.40	0.50	1.20	1.40	2.10	3.50	0.76	0.86	0.35	4.40	
LYNCHBURG																	
481840001 A01	25	0.10	0.20	0.20	0.40	0.50	0.70	0.80	1.10	1.10	1.40	4.10	0.92	0.95	0.62	2.46	
NEWPORT NEWS																	
482120001 A01	24	0.0	0.10	0.20	0.40	0.50	0.50	0.70	0.90	1.60	2.00	2.10	0.81	0.69	0.50	3.16	
NORFOLK																	
482140001 A01	26	0.0	0.10	0.10	0.20	0.70	1.10	1.20	1.40	1.60	1.80	2.40	0.97	0.70	0.58	3.60	
PORTSMOUTH																	
482440001 A01	26	0.10	0.20	0.20	0.60	0.90	0.90	1.00	1.30	1.30	1.90	3.20	0.97	0.70	0.70	2.54	
RICHMOND																	
482660001 A01	25	0.10	0.20	0.30	0.70	0.80	1.00	1.00	1.50	2.00	2.50	3.80	1.21	0.94	0.85	2.64	
ROANOKE																	
482700001 A01	26	0.10	0.10	0.20	0.30	0.50	0.60	0.90	1.10	1.80	1.90	3.10	0.88	0.79	0.56	2.80	
WASHINGTON																	
SEATTLE																	
491840001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.60	1.00					
SPOKANE																	
492040001 A01	25	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.60	0.70	0.24	0.19	0.19	1.97	
TACOMA																	
492140001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.50	1.00					
WEST VIRGINIA																	
CHARLESTON																	
500280001 A01	25	0.10	0.20	0.40	0.70	1.40	4.60	6.00	8.60	12.00	17.20	23.80	6.22	6.72	2.37	5.59	
WISCONSIN																	
EAU CLAIRE																	
510840002 A01	23	0.0	0.10	0.20	0.20	0.30	0.40	0.90	1.40	1.50	1.90	3.30	0.91	0.91	0.48	3.66	
KENOSHA																	
511540001 A01	26	0.0	0.10	0.20	0.30	0.40	0.50	0.80	0.90	1.40	1.70	9.00	1.01	1.75	0.45	3.86	
MADISON																	
511860001 A01	25	0.0	0.10	0.20	0.30	0.30	0.50	0.60	1.00	1.40	3.10	11.00	1.29	2.25	0.52	4.19	
MILWAUKEE																	
512200001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	2.10					
RACINE																	
512880001 A01	24	0.0	0.0	0.0	0.10	0.20	0.20	0.30	0.70	1.10	1.30	3.00	0.55	0.72	0.22	4.49	
SUPERIOR																	
513480001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.60	1.60					
WYOMING																	
CASPER																	
520120001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.30	0.30	0.50	0.70					
CHEYENNE																	
520140001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.20				

Table 3-2. AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ARIZONA GRAND CANYON NAT P 030370001 A03	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.30				
ARKANSAS MONTGOMERY CO 041760001 A03	24	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.20	0.40	0.40	1.40					
CALIFORNIA HUMBOLDT CO 053300001 A03	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	1.90					
COLORADO MESA VERDE NAT PAR 061530002 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.11	0.06	0.09	2.05	
FLORIDA HARDEE CO 101680001 A03	24	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.40	1.10	0.22	0.23	0.15	2.53	
IDAHO BUTTE CO 130340001 A03	24	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.30				
INDIANA MONROE CO 132800001 A03	24	0.0	0.0	0.10	0.10	0.10	0.20	0.40	0.70	1.30	2.10	3.40	0.68	0.94	0.27	4.34	
PARKE CO 153260001 A03	23	0.0	0.10	0.20	0.20	0.20	0.40	0.50	0.80	1.50	2.00	3.80	0.79	0.97	0.41	3.45	
MAINE ACADIA NAT PARK 200010001 A03	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.60	1.00	0.18	0.23	0.11	2.83	
MARYLAND CALVERT CO 210280001 A03	25	0.0	0.0	0.0	0.20	0.50	0.90	1.00	1.20	1.40	2.80	6.30	1.13	1.41	0.41	6.13	
MISSOURI SHANNON CO 264480002 A03	24	0.0	0.0	0.0	0.10	0.20	0.20	0.30	0.40	1.70	2.10	5.20	0.73	1.19	0.24	4.97	
MONTANA GLACIER NAT PARK 270570001 A03	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	1.30					
NEBRASKA THOMAS CO 282480001 A03	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.30	0.60					
NEVADA WHITE PINE CO 290560001 A03	23	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.60					
NEW HAMPSHIRE COOS CO 300140001 A03	22	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	1.20	0.18	0.25	0.11	2.73	
NEW YORK JEFFERSON CO 333340001 A03	25	0.0	0.10	0.10	0.20	0.30	0.70	1.00	1.40	1.60	4.40	5.90	1.33	1.67	0.54	4.69	
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	23	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30					
OKLAHOMA CHEROKEE CO 370480001 A03	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.50	0.50	1.20	2.10					
OREGON CURRY CO 380440001 A03	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.30				
PENNSYLVANIA CLARION CO 391760001 A03	26	0.0	0.0	0.10	0.10	0.20	0.50	0.80	1.00	1.50	2.10	4.90	0.89	1.17	0.33	5.34	
RHODE ISLAND WASHINGTON CO 410380002 A03	27	0.0	0.0	0.0	0.10	0.10	0.30	0.40	0.50	0.70	2.90	3.90					
SOUTH CAROLINA RICHLAND CO 421900001 A03	25	0.10	0.20	0.20	0.30	0.40	0.70	0.70	1.00	1.40	2.20	2.90	0.88	0.80	0.57	2.72	
SOUTH DAKOTA BLACK HILLS NAT FO 430110001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.09	0.04	0.08	1.85	
TENNESSEE CUMBERLAND CO 440680001 A03	23	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.70	1.00	2.40					

Table 3-2 (continued). AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS MATAGORDA CO 453530001 A03	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%									0.20				
VERMONT ORANGE CO 470360001 A03	26	0.0	0.10	0.10	0.10	0.30	0.40	0.40	0.60	1.00	2.00	3.30	0.67	0.79	0.36	3.35
VIRGINIA SHENANDOAH NAT PAR 482990001 A03	26	0.0	0.0	0.10	0.10	0.20	0.30	0.40	0.60	0.80	1.20	3.20	0.59	0.67	0.26	3.65
WYTHE CO 483440001 A03	25	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.50	0.70	1.10	2.60	0.46	0.55	0.28	2.78
WISCONSIN DOCK CO 510780001 A03	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%									2.10				
WYOMING YELLOWSTONE NAT PA 520960001 A03	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%									0.20				

Table 3-3. AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GAOSDEN 011480001 A01	23	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.40	0.80	0.22	0.21	0.13	3.01
HUNTSVILLE 011860001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.40	0.50	0.90	1.90	0.32	0.46	0.14	3.76
MONTGOMERY 012460001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.80	0.17	0.16	0.12	2.29
ALASKA																
ANCHORAGE 020040003 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.30				
ARIZONA																
MARICOPA CO 030440001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.40				
TUCSON 030860001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	3.10				
ARKANSAS																
LITTLE ROCK 041440001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.30	0.80	2.20				
WEST MEMPHIS 042740001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	1.30	6.00				
CALIFORNIA																
ANAHEIM 050230001 A01	26	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.70	2.50	4.90	0.66	1.25	0.23	3.81
BURBANK 050900002 A01	25	0.10	0.10	0.10	0.20	0.20	0.40	0.40	0.70	0.80	3.30	10.40	1.10	2.18	0.41	3.64
FRESNO 052800002 A01	23	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.50	1.90	6.50	0.68	1.48	0.23	3.53
GLENDALE 052940001 A01	26	0.0	0.10	0.10	0.20	0.30	0.40	0.40	0.50	0.70	1.30	3.10	0.55	0.66	0.33	2.93
LONG BEACH 054100001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.50	0.60	1.50	2.90	0.53	0.75	0.24	3.87
LCS ANGELES 054180001 A01	25	0.0	0.10	0.10	0.20	0.30	0.30	0.50	0.80	0.90	1.30	8.90	0.85	1.74	0.36	3.52
OAKLAND 055300001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	1.40				
ONTARIO 055300001 A01	25	0.10	0.10	0.10	0.30	0.30	0.40	0.60	0.90	1.40	3.00	5.10	1.00	1.29	0.49	3.43
PASADENA 055760002 A01	23	0.0	0.10	0.10	0.20	0.30	0.40	0.50	0.70	0.90	1.30	2.00	0.56	0.53	0.35	2.97
RIVERSIDE 056400001 A01	25	0.0	0.10	0.10	0.10	0.20	0.40	0.60	1.90	2.20	3.70	4.00	1.15	1.36	0.45	4.66
SACRAMENTO 056580001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	1.00	0.14	0.19	0.10	2.21
SAN BERNARDINO 056680001 A01	23	0.10	0.10	0.20	0.20	0.30	0.40	0.60	1.40	1.80	4.20	11.20	1.60	2.72	0.59	4.05
SAN DIEGO 056800001 A01	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20				
SAN FRANCISCO 056860001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.50			
SANTA ANA 057180001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.90	3.80				
TORRANCE 058260001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.60	5.20	0.40	1.01	0.15	3.35
COLORADO																
DENVER 060540001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.30	1.10				
CONNECTICUT																
BRIDGEPORT 070060001 A01	26	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.80	0.90	2.30	3.80	0.72	1.04	0.33	3.34
HARTFORD 070420001 A01	26	0.0	0.10	0.10	0.20	0.30	0.40	0.80	1.90	2.30	3.20	4.20	1.11	1.29	0.49	4.22
NEW HAVEN 070700001 A01	26	0.10	0.20	0.30	0.30	0.90	1.10	1.40	2.30	2.70	3.30	5.70	1.53	1.37	0.95	3.08
WATERBURY 071240001 A01	25	0.10	0.20	0.20	0.30	0.60	0.90	1.20	1.50	2.10	3.60	4.40	1.33	1.30	0.76	3.24
DELAWARE																
NEWARK 080140001 A01	25	0.0	0.10	0.10	0.30	0.40	0.60	0.80	1.70	2.10	3.00	3.60	1.13	1.17	0.57	3.87

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
DELAWARE WILMINGTON 080260003 A01	25	0.0	0.20	0.20	0.40	0.50	0.60	0.90	1.10	1.40	2.40	5.50	1.03	1.15	0.62	3.06	
FLORIDA JACKSONVILLE 101960002 A01	25	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.14	0.08	0.12	1.88	
MIAMI 102700002 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.20				
ST PETERSBURG 103980002 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30					
TAMPA 104360002 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20					
GEORGIA ATLANTA 110200001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.40	2.60	0.32	0.57	0.16	2.77	
COLUMBUS 111280001 A01	23	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.40	3.00	0.33	0.61	0.17	2.80	
SAVANNAH 114900001 A01	26	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.60	0.90	1.50	0.37	0.37	0.23	2.82	
HAWAII HONOLULU 120120001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20					
IDAHO BOISE CITY 130220001 A01	23	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.40	0.80	0.21	0.18	0.14	2.71	
ILLINOIS CHICAGO 141220001 A01	26	0.0	0.10	0.20	0.40	0.50	0.50	1.00	1.80	1.90	2.80	3.10	1.08	0.96	0.63	3.41	
NORTH CHICAGO 145620002 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.80	1.30	3.00	5.10	0.85	1.32	0.24	5.79	
PEORIA 146080001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.40	1.00	3.20	4.90	0.84	1.39	0.26	5.07	
ROCK ISLAND 146700001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.50	0.70	4.50					
SPRINGFIELD 147280001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.50	1.20	2.40					
INDIANA EAST CHICAGO 151180001 A01	26	0.0	0.0	0.10	0.20	0.30	0.30	0.50	0.70	0.80	1.20	4.70	0.63	0.94	0.31	3.65	
EVANSVILLE 151300001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.70	3.10	0.38	0.68	0.18	3.05	
FORT WAYNE 151380001 A01	24	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.70	3.00	0.48	0.74	0.25	2.93	
GARY 151520001 A01	23	0.0	0.10	0.10	0.20	0.20	0.30	0.30	0.40	0.70	0.90	1.40	0.40	0.34	0.28	2.53	
HAMMOND 151780001 A01	26	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.50	0.70	1.10	3.40	0.54	0.81	0.27	3.33	
INDIANAPOLIS 152040001 A01	25	0.0	0.0	0.10	0.20	0.20	0.30	0.40	0.60	1.40	3.40	8.20	1.01	1.81	0.31	5.07	
NEW ALBANY 152980002 A01	21	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.70	0.20	0.40	0.80	0.17	0.20	0.11	2.78	
SOUTH BEND 153880002 A01	22	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.60	0.70	3.20	0.41	0.68	0.20	3.42	
TERRE HAUTE 154080001 A01	26	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.70	1.20	2.10	15.00	1.20	2.94	0.40	3.59	
IOWA CEDAR RAPIDS 160640001 A01	23	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.50	0.50	2.00					
DAVENPORT 161060001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.60	6.20					
DES MOINES 161180001 A01	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										3.70				
KANSAS KANSAS CITY 171800002 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.80	5.70	0.42	1.12	0.13	3.77	
TOPEKA 173560001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.80	2.70	0.28	0.56	0.11	3.35	

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
KANSAS WICHITA 173740001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.70	0.17	0.18	0.10	2.73	
KENTUCKY ASHLAND 180080002 A01	26	0.0	0.0	0.10	0.30	0.50	0.50	0.60	0.90	1.10	11.20	31.30	2.90	6.82	0.50	7.23	
BOWLING GREEN 180320001 A01	21	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.20	0.40	2.40	0.28	0.51	0.13	3.31	
COVINGTON 180800001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.40	0.60	0.90	1.50					
LEXINGTON 182300001 A01	25	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.40	1.80	2.80	0.43	0.70	0.17	4.11	
LOUISIANA BATON ROUGE 190280001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.50	1.00	0.25	0.25	0.15	3.18	
NEW ORLEANS 192020002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50					
SHREVEPORT 192740001 A01	24	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.80	3.30	0.36	0.68	0.16	3.38	
MAINE PORTLAND 200960002 A01	26	0.0	0.10	0.40	0.40	0.50	0.60	1.00	1.30	1.70	3.00	4.30	1.08	1.08	0.64	3.26	
MARYLAND BALTIMORE 210120001 A01	25	0.0	0.10	0.20	0.20	0.20	0.30	0.30	1.30	1.60	3.60	14.60	1.49	3.07	0.46	4.44	
MASSACHUSETTS FALL RIVER 220580002 A01	24	0.0	0.10	0.10	0.20	0.20	0.30	0.70	0.70	1.40	2.00	3.00	0.73	0.83	0.37	3.60	
SPRINGFIELD 222160002 A01	25	0.0	0.10	0.20	0.20	0.20	0.30	0.70	1.20	1.40	3.50	5.20	1.17	1.64	0.49	4.04	
WORCHESTER 222440001 A01	23	0.10	0.10	0.20	0.20	0.40	0.80	1.20	1.50	1.70	2.00	4.30	1.00	1.01	0.55	3.35	
MICHIGAN DETROIT 231180001 A01	26	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.70	1.30	2.00	0.41	0.56	0.17	4.03	
FLINT 231580001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	1.30					
GRAND RAPIDS 231820001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.50	0.90	1.90					
LANSING 232840001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.40	0.50	1.40	3.40					
SAGINAW 234760001 A01	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	1.70	3.40					
TRENTON 235120001 A01	26	0.0	0.0	0.0	0.0	0.10	0.20	0.30	0.30	0.50	1.20	1.80					
MINNESOTA DULUTH 241040001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.30	0.60					
MINNEAPOLIS 242260001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.40	1.40					
MOOREHEAD 242320001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.30				
ST PAUL 243300001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.30	0.30	0.40	0.50	2.20	0.28	0.42	0.17	2.63	
MISSOURI KANSAS CITY 262380002 A01	21	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.40	4.80					
NEBRASKA LINCOLN 281560002 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.40	1.00	2.80					
OMAHA 281880001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.20	0.30	1.30	3.90					
NEW HAMPSHIRE CONCORD 300120001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.30	0.60	1.30	2.90	5.60	0.85	1.41	0.23	5.49	
NEW JERSEY BURLINGTON CO 310660002 A01	26	0.0	0.10	0.20	0.30	0.30	0.40	0.50	0.80	1.30	2.60	4.70	0.82	1.07	0.45	3.14	

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
NEW JERSEY CAMDEN 310720001 A01	26	0.0	0.20	0.40	0.60	1.30	1.50	1.90	2.20	2.30	3.80	5.60	1.63	1.33	0.95	3.94	
ELIZABETH 311300002 A01	25	0.0	0.07	0.30	0.40	0.40	0.90	1.50	2.00	2.20	3.10	5.30	1.41	1.34	0.71	4.41	
GLASSBORO 311700001 A01	26	0.0	0.10	0.10	0.10	0.30	0.50	0.70	1.00	1.50	2.40	5.00	0.93	1.16	0.43	3.96	
JERSEY CITY 312320001 A01	25	0.10	0.20	0.20	0.40	0.40	0.70	1.40	2.40	2.70	3.60	4.80	1.52	1.46	0.84	3.41	
NEWARK 313430001 A01	24	0.10	0.10	0.40	0.40	0.50	0.60	0.90	1.00	2.30	3.80	5.40	1.28	1.46	0.71	3.15	
PATERSON 314140001 A01	23	0.10	0.10	0.10	0.20	0.40	0.60	0.90	1.60	3.60	4.00	4.80	1.37	1.59	0.60	4.17	
PERTH AMBOY 314220001 A01	25	0.0	0.10	0.10	0.20	0.20	0.80	1.10	1.80	2.50	3.50	3.60	1.18	1.22	0.53	4.57	
TRENTON 315400001 A01	24	0.10	0.10	0.20	0.20	0.50	0.70	0.90	1.20	2.30	3.30	3.90	1.15	1.19	0.62	3.34	
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20					
NEW YORK BUFFALO 330660001 A01	24	0.0	0.0	0.0	0.0	0.10	0.10	0.30	0.40	0.60	1.90	3.10					
NEW YORK CITY 334680001 A01	25	0.10	0.30	0.30	0.40	0.60	0.90	1.20	2.40	2.80	4.90	5.10	1.66	1.63	0.98	3.07	
NIAGARA FALLS 334740001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	1.10	1.30	2.20	2.80	0.67	0.87	0.23	5.01	
ROCHESTER 335760001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	1.10	1.30					
SYRACUSE 336620001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.40					
UTICA 336880001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.40	1.30					
YONKERS 337620001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.40	0.70	1.20	3.30	3.50	0.74	1.08	0.25	4.83	
NORTH CAROLINA CHARLOTTE 340700001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	1.30	2.60	0.41	0.63	0.19	3.24	
DURHAM 341160001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.90	1.00	1.30	0.32	0.41	0.15	3.70	
GREENSBORO 341740001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.70	1.30	3.80	0.50	0.80	0.22	3.67	
WINSTON-SALEM 344460002 A01	24	0.0	0.10	0.10	0.10	0.10	0.20	0.30	0.50	0.70	0.80	4.10	0.52	0.85	0.25	3.17	
NORTH DAKOTA BISMARCK 350100001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DEV. EXCEEDS 50%										0.10				
OHIO CANTON 361000001 A01	25	0.0	0.0	0.10	0.10	0.20	0.30	0.60	1.30	1.40	2.40	3.20	0.83	0.95	0.34	4.68	
CINCINNATI 361220001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.40	0.50	1.30	0.24	0.28	0.14	3.09	
CLEVELAND 361300001 A01	26	0.0	0.10	0.10	0.30	0.40	0.50	0.80	1.00	1.00	1.50	3.70	0.81	0.89	0.43	3.75	
COLUMBUS 361460001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.50	1.00	1.70	0.35	0.40	0.20	3.11	
DAYTON 361660001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	0.80	1.20	0.28	0.31	0.15	3.31	
CLEVELAND 366600001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.30	0.50	0.60	1.20	1.70	0.38	0.46	0.17	4.11	
YOUNGSTOWN 367760001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.40	0.60	1.50	3.10	0.51	0.79	0.19	4.17	
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.40	4.50					
TULSA 374000001 A01	22	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.90					

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
OREGON																
PORTLAND																
381460001 A01	22	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	1.40	2.60				
PENNSYLVANIA																
ALLENTOWN																
390120001 A01	26	0.0	0.10	0.10	0.20	0.40	0.70	0.90	1.40	1.90	2.70	5.60	1.16	1.43	0.51	4.40
ALTOONA																
390140001 A01	25	0.50	0.70	0.80	1.00	1.20	1.60	1.60	2.10	2.80	3.50	6.70	1.89	1.37	1.54	1.91
BETHLEHEM																
390780002 A01	26	0.0	0.0	0.10	0.10	0.40	0.60	0.60	0.90	1.30	2.30	2.70	0.76	0.79	0.37	4.17
ERIE																
393060002 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.60	1.20	4.00				
HARRISBURG																
393880001 A01	26	0.0	0.0	0.10	0.10	0.10	0.30	0.50	1.10	1.10	1.80	5.60	0.78	1.22	0.27	5.09
JOHNSTOWN																
394460001 A01	23	0.0	0.0	0.10	0.10	0.40	0.50	0.70	0.70	0.80	2.20	4.20	0.78	1.09	0.33	4.41
PHILADELPHIA																
397140001 A01	24	0.0	0.10	0.40	0.70	0.80	1.30	1.60	2.90	3.40	4.50	7.90	2.05	2.11	1.01	4.37
PITTSBURGH																
397260001 A01	24	0.0	0.0	0.10	0.30	0.30	0.40	0.60	1.00	1.50	3.10	6.20	1.12	1.65	0.44	4.67
READING																
397620001 A01	26	0.10	0.10	0.40	0.50	1.00	1.10	1.50	2.10	2.70	3.20	4.30	1.47	1.19	0.91	3.21
SCRANTON																
398040001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	1.00	1.50	2.00	3.80	0.78	0.94	0.38	3.62
WARRMINSTER																
399160001 A01	25	0.0	0.10	0.10	0.20	0.30	0.40	0.50	0.80	1.10	1.60	2.10	0.66	0.62	0.39	3.21
WILKES-BARRE																
399430001 A01	23	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.50	0.90	2.90	7.50	0.85	1.71	0.23	5.08
YORK																
399560001 A01	26	0.0	0.0	0.10	0.10	0.20	0.20	0.20	0.40	0.50	1.30	2.60	0.42	0.61	0.20	3.50
PUERTO RICO																
RAYAON																
400380002 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.80				
CATANO																
400560002 A01	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20				
GLAYANILLA																
401080002 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.30				
PONCE																
401920002 A01	25	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20				
SAN JUAN																
402140001 A01	24	0.0	AC. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.20			
RHODE ISLAND																
EAST PROVIDENCE																
410120001 A01	24	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.50	1.30	2.60	3.50	0.72	1.06	0.30	3.76
PROVIDENCE																
410300001 A01	26	0.10	0.10	0.20	0.20	0.40	0.40	0.50	1.30	1.60	2.90	4.20	1.00	1.13	0.54	3.14
SOUTH CAROLINA																
GREENVILLE																
421180001 A01	26	0.10	0.20	0.20	0.20	0.20	0.30	0.40	0.60	1.10	1.50	4.60	0.68	0.93	0.41	2.59
TENNESSEE																
CHATTANOOGA																
440340001 A01	26	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.40	0.50	1.10	1.90	0.43	0.46	0.28	2.48
MEMPHIS																
442340001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.50	1.40	0.22	0.28	0.16	2.18
NASHVILLE																
442540001 A01	25	0.0	0.10	0.10	0.10	0.20	0.20	0.20	0.40	0.60	0.80	0.80	0.31	0.26	0.21	2.65
TEXAS																
DALLAS																
451310002 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	1.40	0.21	0.29	0.13	2.52
EL PASO																
451700002 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.40	0.18	0.10	0.15	1.88
FORT WORTH																
451840001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.13	0.11	0.10	2.26
HOUSTON																
452540001 A01	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.11	0.07	0.09	2.09
PASADENA																
454060001 A01	25	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	2.40	19.70	1.19	3.88	0.19	4.77

Table 3-3 (continued). AMMONIUM, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS SAN ANTONIO 454570001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.10	0.09	0.09	1.93	
UTAH OGDEN 460680001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.40	0.14	0.08	0.12	1.85	
SALT LAKE CITY 460920001 A01	25	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.50	0.16	0.12	0.12	2.04	
VERMONT BURLINGTON 470140001 A01	23	0.0	0.0	0.10	0.10	0.20	0.20	0.30	0.40	0.50	1.20	3.90	0.54	0.95	0.22	3.76	
VIRGINIA DANVILLE 480920001 A01	25	0.10	0.20	0.20	0.30	0.30	0.40	0.50	0.60	0.70	1.20	4.00	0.62	0.77	0.43	2.28	
HARTFORD 481440001 A01	25	0.0	0.10	0.10	0.20	0.20	0.30	0.40	1.00	1.10	1.40	2.30	0.60	0.61	0.33	3.26	
LYNCHBURG 481840001 A01	26	0.0	0.10	0.20	0.30	0.30	0.30	0.40	0.70	0.90	1.60	3.30	0.64	0.71	0.39	2.95	
NEWPORT NEWS 482120001 A01	26	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.50	0.70	0.90	1.70	0.41	0.42	0.27	2.47	
NORFOLK 482140001 A01	26	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.60	1.70	2.50	0.45	0.66	0.20	3.58	
PORTSMOUTH 482440001 A01	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.40	0.60	1.80	0.30	0.38	0.18	2.72	
RICHMOND 482660002 A01	24	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.50	1.10	1.70	3.20	0.65	0.86	0.31	3.50	
ROANOKE 482700001 A01	25	0.10	0.10	0.10	0.20	0.40	0.40	0.50	0.90	1.60	1.70	5.30	0.96	1.37	0.48	3.25	
WASHINGTON SEATTLE 491840001 A01	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.50					
SPOKANE 492040001 A01	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.60					
TACOMA 492140001 A01	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.40	0.90	0.17	0.19	0.11	2.55	
WEST VIRGINIA CHARLESTON 500280001 A01	26	0.10	0.10	0.30	0.40	0.60	0.60	1.00	2.50	6.20	10.50	12.60	2.92	4.05	1.01	4.72	
SOUTH CHARLESTON 501760001 A01	26	0.10	0.10	0.20	0.20	0.40	0.50	0.90	1.40	2.80	4.90	6.00	1.36	1.73	0.62	3.75	
WISCONSIN EAU CLAIRE 510840002 A01	24	0.0	0.10	0.10	0.10	0.20	0.30	0.30	0.40	0.70	0.90	2.80	0.44	0.57	0.25	3.08	
KENOSHA 511540001 A01	24	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.90	1.70	0.29	0.40	0.17	2.41	
MADISON 511860001 A01	27	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.50	2.10	0.26	0.42	0.13	3.05	
MILWAUKEE 512200001 A01	26	0.0	0.10	0.10	0.10	0.20	0.30	0.40	0.50	0.50	0.70	1.60	0.38	0.35	0.26	2.55	
RACINE 512880001 A01	24	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.50	0.70	3.20	0.42	0.66	0.23	2.97	
SUPERIOR 513480001 A01	24	0.0	0.0	0.0	0.10	0.10	0.20	0.30	0.30	0.40	0.60	0.80	0.25	0.23	0.14	3.34	
WYOMING CASPER 520120001 A01	26	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30					
CHEYENNE 520140001 A01	23	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.30					

Table 3-4. AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

(µg/m³)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA GRAND CANYON NAT P 030370001 A03	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.10	0.06	0.08	2.04
ARKANSAS MONTGOMERY CO 041760001 A03	22	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.80	0.17	0.16	0.13	2.12
CALIFORNIA HUMBOLDT CO 053300001 A03	23	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.10			
COLORADO MESA VERDE NAT PAR 061530002 A03	25	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20				
FLORIDA HARDEE CO 101680001 A03	26	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.90	0.18	0.16	0.14	1.74
IDAHO BUTTE CO 130340001 A03	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.10			
INDIANA MONROE CO 152800001 A03	24	0.0	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	2.00				
PARKE CO 153260001 A03	25	0.0	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.90	1.60	2.60	0.51	0.65	0.26	3.36
MAINE ACADIA NAT PARK 200010001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.40	0.70	0.15	0.15	0.11	2.48
MISSOURI SPANNOW CO 264480002 A03	25	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.20	1.00	1.50	0.31	0.42	0.18	2.56
NEBRASKA THOMAS CO 282480001 A03	22	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.30			
NEVADA WHITE PINE CO 290560001 A03	24	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.10			
NEW HAMPSHIRE COCS CO 300140001 A03	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	1.30				
NEW YORK JEFFERSON CO 333340001 A03	26	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.20	0.60	1.40	3.10				
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.20			
OKLAHOMA CHEROKEE CO 370480001 A03	24	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.50	0.60	6.50	0.45	1.31	0.12	3.93
OREGON CURRY CO 380440001 A03	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.20			
PENNSYLVANIA CLARION CO 391760001 A03	26	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.50	1.70				
RHODE ISLAND WASHINGTON CO 410380002 A03	24	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.60	2.20	0.30	0.48	0.17	2.41
TENNESSEE CUMBERLAND CO 440680001 A03	22	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	1.40				
TEXAS NATAGORDA CO 453530001 A03	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.80				
TOM GREEN CO 455200001 A03	25	0.0	0.0	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30				
VERMONT ORANGE CO 470360001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.20	0.40	0.40	0.90	2.40	0.33	0.50	0.15	3.52
VIRGINIA SHERANDOAH NAT PAR 482890001 A03	25	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.50	2.20	4.50	0.62	1.09	0.25	3.27
WYTHE CO 483440001 A03	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.70	1.30	0.26	0.31	0.16	2.59

Table 3-4 (continued). AMMONIUM, NONURBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
WASHINGTON KING CO 490980002 AQ3	24	0.0	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.11	0.06	0.10	1.70

**SECTION 4. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS
IN SUSPENDED PARTICULATES: FLUORIDE**

Table 4-1. FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC				GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.		
ALABAMA GADSDEN 011480001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.07					
HUNTSVILLE 011860001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0					
MONTGOMERY 012440001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.07					
ALASKA ANCHORAGE 020040003 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0					
FAIRBANKS 020140001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.11					
ARIZONA PHOENIX 030600002 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.13					
TUCSON 030860001 A01	26	0.0	0.06	0.07	0.09	0.11	0.11	0.13	0.13	0.20	0.23	0.41	0.13	0.08	0.11	1.90		
ARKANSAS LITTLE ROCK 041440001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.19					
TEXARKANA 042560001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.08					
CALIFORNIA ANAHEIM 050230001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05					
BURBANK 050900001 A01	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.19					
FRESNO 052800001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0					
GLENDALE 052940001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.13					
LONG BEACH 054100001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.16					
LOS ANGELES 054180001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0					
OAKLAND 055300001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0					
ONTARIO 055380001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.09					
RIVERSIDE 056400001 A01	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.18					
SACRAMENTO 056580001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05					
SAN BERNARDINO 056680001 A01	26	0.0	0.0	0.0	0.0	0.07	0.08	0.12	0.13	0.15	0.20	0.31						
SAN DIEGO 056800001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.13					
SAN FRANCISCO 056860001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.14					
SAN JOSE 056980001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.11					
SANTA ANA 057180001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.02					
TORRANCE 058260001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0					
COLORADO DENVER 060580001 A01	26	0.07	0.12	0.21	0.21	0.29	0.31	0.34	0.38	0.46	0.49	1.72	0.36	0.31	0.29	1.88		
CONNECTICUT BRIDGEPORT 070060001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.37					
HARTFORD 070420001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.09					
NEW HAVEN 070700001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.16					
WATERBURY 071240001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.08					

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
DELAWARE WILMINGTON 080260001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.15			
DIST COLUMBIA WASHINGTON 090020001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.15			
FLORIDA JACKSONVILLE 101960002 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0			
MIAMI 102700001 A01	26	0.0	0.0	0.0	0.09	0.11	0.13	0.15	0.15	0.20	0.24	0.29	0.13	0.08	0.10	2.33
ST PETERSBURG 103980002 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
TAMPA 104360002 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.21			
GEORGIA ATLANTA 110200001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.20			
COLUMBUS 111280001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.12			
SAVANNAH 114500001 A01	25	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.33	0.41	2.67	2.72				
HAWAII HONOLULU 120120001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.19			
IDaho BOISE CITY 130220001 A01	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.12			
ILLINOIS CHICAGO 141220001 A01	26	0.0	0.0	0.0	0.0	0.05	0.07	0.08	0.11	0.15	0.27	0.68				
EAST ST LOUIS 142120001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.16			
JOLIET 143760001 A01	23	0.0	NO. OF SAMPLES (12) BELOW MIN. DET. EXCEEDS 50%										0.25			
NORTH CHICAGO 145620002 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.06			
PEORIA 146080001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.78			
ROCKFORD 146680001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0			
SPRINGFIELD 147280001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0			
INDIANA EAST CHICAGO 151180001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.09	0.12	0.37	0.56				
EVANSVILLE 151300001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.12			
FORT WAYNE 151380001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.10			
GARY 151520001 A01	23	0.0	0.0	0.0	0.0	0.0	0.06	0.08	0.09	0.23	0.38	0.53				
HAMMOND 151780001 A01	25	0.0	0.0	0.0	0.0	0.0	0.06	0.08	0.10	0.13	0.36	0.41				
INDIANAPOLIS 152040001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.11			
NEW ALBANY 152980002 A01	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.28			
SOUTH BEND 153880002 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05			
TERRE HAUTE 154080001 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.06			
IOWA DAVENPORT 161060001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.36			
DES MOINES 161180001 A01	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.14			

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
IOWA DUBUQUE 161260001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.84				
KANSAS KANSAS CITY 171800002 A01	25	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.21				
TOPEKA 173560001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.07				
WICHITA 173740001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
KENTUCKY ASHLAND 180080002 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.13	0.31	0.47	0.85					
COVINGTON 180800001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.14				
LOUISVILLE 182380001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09				
LOUISIANA BATON ROUGE 190280001 A01	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.0				
NEW ORLEANS 192020002 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.27				
SHREVEPORT 192740001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.10				
MARYLAND BALTIMORE 210120001 A01	23	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.08	0.14	0.28	0.90					
MASSACHUSETTS BOSTON 220240001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.06				
FALL RIVER 220580002 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.15				
SPRINGFIELD 222160001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.17				
WORCHESTER 222640001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09				
MICHIGAN DEARBORN 231140001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.55				
DETROIT 231180001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.09	0.10	0.19	0.53					
FLINT 231580001 A01	23	0.0	0.0	0.0	0.0	0.05	0.07	0.11	0.11	0.14	0.35	0.64					
GRAND RAPIDS 231820001 A01	26	0.0	0.0	0.05	0.09	0.13	0.18	0.21	0.23	0.24	0.36	0.81	0.20	0.18	0.14	2.63	
LANSING 232840001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.08				
SAGINAW 234760001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.20				
TRENTON 235120001 A01	23	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.20				
MINNESOTA DULUTH 241040001 A01	25	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.11				
MINNEAPOLIS 242260001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09				
MOORHEAD 242320001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.10				
ST PAUL 243300001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.08				
MISSOURI KANSAS CITY 262380002 A01	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.19				
ST LOUIS 264280001 A01	23	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.17				
MONTANA HELENA 270720001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
NEBRASKA OMAHA 281880001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.05				
NEVADA LAS VEGAS 290320001 A01	22	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.23				
RENO 290480001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.08				
NEW HAMPSHIRE CONCORD 300120001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
NEW JERSEY BURLINGTON CO 310660002 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.11				
CAMDEN 310720001 A01	24	0.0	0.0	0.0	0.06	0.07	0.08	0.13	0.18	0.26	0.29	0.59					
ELIZABETH 311300001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05				
GLASSBORO 311700001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09				
HAMILTON 311940001 A01	23	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.09				
JERSEY CITY 312320001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
NEWARK 313480001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.07				
PATERSON 314140001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
PERTH AMBOY 314220001 A01	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.05				
TRENTON 315400001 A01	24	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.05				
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.0	0.0	0.0	0.05	0.06	0.07	0.08	0.08	0.10	0.13	0.16	0.07	0.04	0.06	1.79	
NEW YORK ALBANY 330040001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.06				
BUFFALO 330660001 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.20				
NEW YORK CITY 334680001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.08				
NIAGARA FALLS 334740001 A01	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.43				
ROCHESTER 335760001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.25				
SYRACUSE 336620001 A01	25	0.0	0.0	0.05	0.06	0.08	0.11	0.15	0.18	0.26	0.40	0.56	0.16	0.14	0.11	2.94	
UTICA 336880001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.14				
NORTH CAROLINA CHARLOTTE 340700001 A01	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.27				
DURHAM 341160001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.17				
GREENSBORO 341740001 A01	24	0.0	0.0	0.0	0.0	0.06	0.11	0.12	0.16	0.30	0.40	0.45					
WINSTON-SALEM 344440002 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.43				
NORTH DAKOTA BISMARCK 350100001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.47				
OHIO CANTON 361000001 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.74				
CINCINNATI 361220001 A01	26	0.0	0.0	0.0	0.0	0.05	0.09	0.12	0.14	0.19	0.25	0.79					

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
OHIO																	
CLEVELAND 361300001 A01	25	0.0	0.0	0.0	0.0	0.07	0.12	0.14	0.22	0.27	0.35	0.54					
COLUMBUS 361460001 A01	25	0.0	0.0	0.0	0.0	0.06	0.10	0.15	0.17	0.22	0.25	0.47					
DAYTON 361660001 A01	25	0.0	0.0	0.05	0.12	0.14	0.15	0.17	0.19	0.22	0.31	0.43	0.16	0.10	0.13	2.32	
TOLEDO 366600001 A01	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.45				
YOUNGSTOWN 367760001 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.17	0.20	0.35	0.98					
OKLAHOMA OKLAHOMA CITY 372200001 A01	24	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.13				
TULSA 373000001 A01	24	0.0	0.06	0.08	0.12	0.13	0.14	0.18	0.25	0.29	0.32	0.34	0.18	0.10	0.15	1.92	
OREGON MEDFORD 381160001 A01	23	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.09				
PORTLAND 381460001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.14	0.20	0.24	0.61	0.89					
PENNSYLVANIA ALLENTOWN 390120001 A01	25	0.05	0.06	0.12	0.15	0.19	0.21	0.21	0.28	0.29	0.34	0.41	0.21	0.10	0.18	1.84	
ALTOONA 390140001 A01	23	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.19				
BETHLEHEM 390780002 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.32				
ERIE 393060002 A01	25	0.0	0.0	0.0	0.06	0.07	0.15	0.17	0.22	0.25	0.33	0.35	0.15	0.11	0.10	2.65	
HARRISBURG 393880001 A01	24	0.0	0.0	0.0	0.0	0.08	0.10	0.11	0.14	0.19	0.22	0.33					
HAZLETON 393960001 A01	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.32				
JOHNSTOWN 394460001 A01	24	0.0	0.0	0.0	0.0	0.0	0.07	0.28	0.30	0.36	0.40	0.52					
PUERTO RICO CATANO 400560002 A01	24	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
GUAYANILLA 401080002 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.05				
PONCE 401920002 A01	23	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.07				
SAN JUAN 402140001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
RHODE ISLAND EAST PROVIDENCE 410120001 A01	25	0.0	0.0	0.0	0.0	0.12	0.16	0.16	0.18	0.19	0.25	0.31					
PROVIDENCE 410300001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.11				
SOUTH CAROLINA COLUMBIA 420760001 A01	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.0				
GREENVILLE 421180001 A01	25	0.0	0.10	0.13	0.16	0.17	0.19	0.19	0.22	0.23	0.25	0.30	0.18	0.06	0.16	1.69	
TENNESSEE CHATTANOOGA 440380001 A01	26	0.14	0.15	0.19	0.20	0.23	0.24	0.28	0.32	0.39	0.58	0.78	0.31	0.18	0.27	1.64	
KNOXVILLE 441740001 A01	24	0.0	0.0	0.08	0.09	0.14	0.24	0.36	0.43	0.47	0.73	2.35	0.37	0.49	0.20	3.30	
MEMPHIS 442340001 A01	24	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
NASHVILLE 442540001 A01	25	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.21	0.31	0.57	0.89					
TEXAS DALLAS 451310002 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05				

Table 4-1 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS																	
FORT WORTH																	
451880001 A01	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.30				
HOUSTON																	
452560001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.38				
PASADENA																	
454860002 A01	24	0.0	0.0	0.0	0.0	0.05	0.06	0.11	0.11	0.15	0.17	0.45					
SAN ANTONIO																	
454570001 A01	26	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.10	0.15	0.40					
UTAH																	
OGDEN																	
460680001 A01	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.19				
SALT LAKE CITY																	
460920001 A01	26	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.09	0.12	0.15	0.26					
VERMONT																	
BURLINGTON																	
470140001 A01	23	0.0	0.0	0.0	0.05	0.09	0.10	0.11	0.12	0.14	0.17	0.25					
VIRGINIA																	
DANVILLE																	
480920001 A01	25	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.37				
HAMPTON																	
481440001 A01	24	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.07				
LYNCHBURG																	
481840001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.13				
NEWPORT NEWS																	
482120001 A01	24	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.07	0.09	0.11	0.21					
NORFOLK																	
482140001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.31				
PORTSMOUTH																	
482440001 A01	26	0.0	0.0	0.0	0.0	0.0	0.12	0.14	0.24	0.25	0.35	0.67					
RICHMOND																	
482660001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.23				
ROANOKE																	
482700001 A01	26	0.0	0.06	0.07	0.12	0.14	0.17	0.19	0.20	0.21	0.25	0.44	0.17	0.10	0.14	2.05	
WASHINGTON																	
SEATTLE																	
491840001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.12				
SPOKANE																	
492040001 A01	25	0.0	0.0	0.0	0.0	0.0	0.09	0.11	0.21	0.70	1.04	2.13					
TACOMA																	
492140001 A01	25	0.0	0.0	0.0	0.05	0.06	0.08	0.09	0.11	0.12	0.22	0.45	0.11	0.10	0.08	2.26	
WEST VIRGINIA																	
CHARLESTON																	
500280001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.11				
WISCONSIN																	
EAU CLAIRE																	
510840002 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0				
KENOSHA																	
511540001 A01	24	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
MADISON																	
511840001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.07				
MILWAUKEE																	
512200001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09				
RACINE																	
512880001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.11				
SUPERIOR																	
513480001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.57				
WYOMING																	
CASPER																	
520120001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.06				
CHEYENNE																	
520140001 A01	25	0.0	0.07	0.08	0.10	0.11	0.12	0.12	0.13	0.14	0.15	0.17	0.11	0.03	0.11	1.48	

Table 4-2. FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

(µg/m³)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA GRAND CANYON NAT P 030370001 A03	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.72			
ARKANSAS MONTGOMERY CO 041760001 A03	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.22			
CALIFORNIA HUMBOLDT CO 053300001 A03	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.29			
COLORADO MESA VERDE NAT PAR 061530002 A03	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.13			
FLORIDA HARDEE CO 101460001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0			
IDaho BUTTE CO 130340001 A03	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.07			
INDIANA MONROE CO 152800001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0			
PARKE CO 153260001 A03	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0			
MAINE ACADIA NAT PARK 200010001 A03	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.16			
MARYLAND CALVERT CO 210280001 A03	25	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.07			
MISSOURI SHANNON CO 244480002 A03	24	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.08			
MONTANA GLACIER NAT PARK 270570001 A03	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.14			
NEBRASKA THOMAS CO 282480001 A03	26	0.0	0.0	0.0	0.0	0.05	0.06	0.07	0.09	0.10	0.30	0.35				
NEVADA WHITE PINE CO 290560001 A03	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.05			
NEW HAMPSHIRE COOS CO 300140001 A03	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.0			
NEW YORK JEFFERSON CO 333340001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0			
NORTH CAROLINA CAPE MATTERAS NAT 340590001 A03	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0			
OKLAHOMA CHEROKEE CO 370480001 A03	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.10			
OREGON CURRY CO 380440001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0			
PENNSYLVANIA CLARION CO 391760001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
RHODE ISLAND WASHINGTON CO 410380002 A03	27	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.17			
SOUTH CAROLINA RICHLAND CO 421900001 A03	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.19			
SOUTH DAKOTA BLACK HILLS NAT FO 430110001 A03	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.08			
TENNESSEE CUMBERLAND CO 440680001 A03	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.09			

Table 4-2 (continued). FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1969

(µg/m³)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS MATAGORDA CO 453530001 A03	26	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.19	0.24	0.31	0.48	0.19	0.09	0.17	1.46	
VERMONT ORANGE CO 470360001 A03	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.10				
VIRGINIA SHENANDOAH NAT PA 482890001 A03	26	0.0	0.05	0.07	0.08	0.09	0.10	0.11	0.13	0.15	0.17	0.18	0.10	0.04	0.09	1.69	
WYTHE CO 483440001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
WISCONSIN DOOR CO 910780001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
WYOMING YELLOWSTONE NAT PA 520860001 A03	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.19				

Table 4-3. FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

(µg/m³)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA GADSDEN 011480001 A01	23	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.16			
HUNTSVILLE 011860001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05			
MONTGOMERY 012460001 A01	23	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.11			
ALASKA ANCHORAGE 020040003 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.07			
ARIZONA MARICOPA CO 030440001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.21			
TUCSON 030860001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.06			
ARKANSAS LITTLE ROCK 041440001 A01	24	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.09	0.11	0.12	0.35				
WEST MEMPHIS 042740001 A01	24	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.07			
CALIFORNIA ANAHEIM 050230001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.11			
BURBANK 050900002 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0			
FRESNO 052800002 A01	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.09			
GLENDALE 052940001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
LONG BEACH 054100001 A01	24	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
LOS ANGELES 054180001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09			
OAKLAND 055300001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.12			
ONTARIO 055380001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.14			
PASADENA 055760002 A01	23	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.05			
RIVERSIDE 056400001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.10			
SACRAMENTO 056580001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.12			
SAN BERNARDINO 056680001 A01	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.13			
SAN DIEGO 056800001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05			
SAN FRANCISCO 056860001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.07			
SANTA ANA 057180001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.10			
TORRANCE 058260001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.04			
COLORADO DENVER 060380001 A01	26	0.0	0.0	0.0	0.05	0.08	0.12	0.12	0.14	0.15	0.20	0.28	0.11	0.07	0.08	2.20
CONNECTICUT BRIDGEPORT 070060001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.08			
HARTFORD 070420001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05			
NEW HAVEN 070700001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.04			
WATERBURY 071240001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.08			
DELAWARE NEWARK 080140001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05			

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
DELAWARE WILMINGTON 080260003 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.29				
FLORIDA JACKSONVILLE 101960002 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.07				
MIAMI 102700002 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
ST PETERSBURG 103980002 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.14				
TAMPA 104360002 A01	26	0.0	0.0	0.06	0.06	0.08	0.08	0.13	0.17	0.20	0.29	0.45	0.13	0.10	0.10	2.19	
GEORGIA ATLANTA 110200001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.06	0.08	0.09					
COLUMBUS 111280001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0				
SAVANNAH 114500001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.48				
HAWAII HONOLULU 120120001 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.08				
IDAHO BOISE CITY 130220001 A01	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.11				
ILLINOIS CHICAGO 141220001 A01	26	0.0	0.0	0.0	0.05	0.05	0.07	0.08	0.11	0.11	0.18	0.43					
NORTH CHICAGO 145620002 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.26				
PEORIA 146080001 A01	26	0.0	NO. OF SAMPLES (17) BELOW MIN. DET. EXCEEDS 50%										0.34				
ROCK ISLAND 146700001 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.11				
SPRINGFIELD 147280001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
INDIANA EAST CHICAGO 151180001 A01	26	0.0	0.06	0.08	0.08	0.09	0.11	0.14	0.24	0.29	0.46	1.44	0.22	0.29	0.14	2.43	
EVANSVILLE 151300001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.08	0.09	0.13					
FORT WAYNE 151380001 A01	24	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.12				
GARY 151520001 A01	23	0.0	0.0	0.0	0.05	0.07	0.08	0.08	0.09	0.11	0.13	0.20	0.08	0.05	0.07	1.90	
HAMMOND 151780001 A01	26	0.0	0.0	0.05	0.05	0.06	0.07	0.07	0.09	0.11	0.15	0.22	0.08	0.05	0.07	1.88	
INDIANAPOLIS 152040001 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.11				
NEW ALBANY 152980002 A01	21	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.07				
SOUTH BEND 153880002 A01	22	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.12				
TERRE HAUTE 154080001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05				
IOWA CEDAR RAPIDS 160640001 A01	23	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.17				
DAVENPORT 161060001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.14				
DES MOINES 161180001 A01	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.08				
KANSAS KANSAS CITY 171800002 A01	26	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.14				
TOPEKA 173540001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.12				

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
KANSAS WICHITA 173740001 A01	25	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.13			
KENTUCKY ASHLAND 180080002 A01	26	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.11	0.14	0.21	0.61				
BOWLING GREEN 180320001 A01	21	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.09			
COVINGTON 180800001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.07			
LEXINGTON 182300001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.07			
LOUISIANA BATON ROUGE 190280001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.06			
NEW ORLEANS 192020002 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.29			
SHREVEPORT 192740001 A01	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.14			
MAINE PORTLAND 200960002 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
MARYLAND BALTIMORE 210120001 A01	25	0.0	0.05	0.05	0.06	0.08	0.12	0.13	0.14	0.17	0.19	0.21	0.11	0.06	0.10	1.87
MASSACHUSETTS FALL RIVER 220580002 A01	24	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.11			
SPRINGFIELD 222160002 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.10			
WORCHESTER 222640001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0			
MICHIGAN DETROIT 231180001 A01	26	0.0	0.0	0.0	0.0	0.06	0.06	0.07	0.09	0.11	0.17	0.43				
FLINT 231580001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.06			
GRAND RAPIDS 231820001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.20			
LANING 232840001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.17			
SAGINAW 234760001 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.18			
TRENTON 235120001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.09			
MINNESOTA DULUTH 241040001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.10			
MINNEAPOLIS 242260001 A01	24	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.10			
MOORHEAD 242320001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.07			
ST PAUL 243300001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
MISSOURI KANSAS CITY 262380002 A01	21	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.22			
NEBRASKA LINCOLN 281560002 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.06			
OMAHA 281880001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.10			
NEW HAMPSHIRE CONCORD 300120001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0			
NEW JERSEY BURLINGTON CO 310660002 A01	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.10			

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
NEW JERSEY CAMDEN 310720001 A01	26	0.0	NO. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.19				
ELIZABETH 311300002 A01	25	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.10				
GLASSBORO 311700001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.40				
JERSEY CITY 312320001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.08				
NEWARK 313480001 A01	24	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.07				
PATERSON 314140001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0				
PERTH AMBOY 314220001 A01	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05				
TRENTON 315400001 A01	24	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.22				
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.07				
NEW YORK BUFFALO 330460001 A01	24	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.10					
NEW YORK CITY 334680001 A01	25	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.13				
NIAGARA FALLS 334740001 A01	26	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.11	0.12	0.23	0.34					
ROCHESTER 335760001 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.14				
SYRACUSE 336620001 A01	25	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.24				
UTICA 336880001 A01	25	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.12				
YONKERS 337620001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
NORTH CAROLINA CHARLOTTE 340700001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.12				
DURHAM 341160001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05				
GREENSBORO 341740001 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.07				
WINSTON-SALEM 344460002 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05				
NORTH DAKOTA BISMARCK 350100001 A01	26	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.09				
OHIO CANTON 361000001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.08	0.10	0.13	0.22					
CINCINNATI 361220001 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.08	0.16					
CLEVELAND 361300001 A01	26	0.0	0.0	0.06	0.06	0.08	0.08	0.10	0.11	0.13	0.20	0.30	0.11	0.10	0.09	1.99	
COLUMBUS 361460001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.07	0.08	0.09	0.09					
DAYTON 361660001 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.39				
TOLEDO 366600001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.10				
YOUNGSTOWN 367760001 A01	25	0.0	0.0	0.0	0.0	0.06	0.07	0.08	0.14	0.15	0.20	0.42					
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.07				
TULSA 373000001 A01	22	0.0	NO. OF SAMPLES (21) BELOW MIN. DET. EXCEEDS 50%										0.07				

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
OREGON PCRYLAND 381460001 A01	22	0.0	0.0	0.0	0.06	0.12	0.16	0.39	0.55	0.59	0.63	2.13	0.37	0.48	0.17	4.03	
PENNSYLVANIA ALLENTOWN 390120001 A01	26	0.0	0.0	0.05	0.05	0.06	0.08	0.08	0.10	0.11	0.12	0.27	0.08	0.05	0.07	1.85	
ALTOONA 390140001 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.15				
BETHLEHEM 390780002 A01	26	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.12	0.16					
ERIE 393060002 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.14				
HARRISBURG 393880001 A01	26	0.0	0.0	0.0	0.0	0.05	0.05	0.05	0.07	0.09	0.11	0.35					
JOHNSTOWN 394460001 A01	23	0.0	0.0	0.0	0.0	0.0	0.05	0.06	0.07	0.13	0.13	0.25					
PHILADELPHIA 397140001 A01	24	0.0	0.0	0.0	0.0	0.06	0.08	0.09	0.10	0.11	0.16	0.21					
PITTSBURGH 397260001 A01	24	0.05	0.07	0.09	0.10	0.12	0.14	0.16	0.17	0.21	0.25	0.46	0.16	0.09	0.14	1.70	
READING 397620001 A01	26	0.05	0.05	0.06	0.07	0.07	0.12	0.13	0.16	0.18	0.28	1.57	0.18	0.29	0.12	2.20	
SCRANTON 398040001 A01	25	0.0	0.0	0.05	0.06	0.07	0.10	0.12	0.13	0.16	0.21	0.39	0.11	0.08	0.09	2.05	
WARRMINSTER 399160001 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.07				
WILKES-BARRE 399430001 A01	23	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.13				
YORK 399560001 A01	26	0.0	NO. OF SAMPLES (19) BELOW MIN. DET. EXCEEDS 50%										0.12				
PUERTO RICO SAYAMON 400380002 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										9.00				
CATANO 400560002 A01	26	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.25				
GUAYANILLA 401080002 A01	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.07				
PONCE 401920002 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
SAN JUAN 402140001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.08				
RHODE ISLAND EAST PROVIDENCE 410120001 A01	24	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.05				
PROVIDENCE 410300001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.06				
SOUTH CAROLINA GREENVILLE 421180001 A01	26	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.07				
TENNESSEE CHATTANOOGA 440380001 A01	26	0.0	0.0	0.0	0.0	0.0	0.05	0.09	0.14	0.15	0.18	0.60					
MEMPHIS 442340001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.40				
NASHVILLE 442540001 A01	25	0.0	0.0	0.0	0.05	0.05	0.08	0.13	0.17	0.18	0.25	0.34	0.11	0.09	0.08	2.41	
TEXAS DALLAS 451310002 A01	26	0.0	NO. OF SAMPLES (18) BELOW MIN. DET. EXCEEDS 50%										0.23				
EL PASO 451700002 A01	26	0.0	0.0	0.08	0.08	0.10	0.11	0.15	0.22	0.25	0.43	0.65	0.18	0.16	0.12	2.45	
FORT WORTH 451880001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.21				
HOUSTON 452560001 A01	24	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.13				
PASADENA 454060002 A01	26	0.0	0.0	0.0	0.05	0.08	0.09	0.12	0.17	0.27	0.61	2.14	0.29	0.52	0.11	3.64	

Table 4-3 (continued). FLUORIDE, URBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS SAN ANTONIO 454570001 A01	26	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.08				
UTAH OGDEN 440680001 A01	26	0.0	AC. OF SAMPLES (20) BELOW MIN. DET. EXCEEDS 50%										0.07				
SALT LAKE CITY 440920001 A01	25	0.0	0.0	0.0	0.05	0.05	0.06	0.06	0.07	0.09	0.13	0.14					
VERMONT BURLINGTON 470140001 A01	23	0.0	NO. OF SAMPLES (23) BELOW MIN. DET. EXCEEDS 50%										0.0				
VIRGINIA DANVILLE 480920001 A01	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
HAMPTON 481440001 A01	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
LYNCHBURG 481840001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.31				
NEWPORT NEWS 482120001 A01	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
NORFOLK 482140001 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.29				
PORTSMOUTH 482440001 A01	26	0.0	NO. OF SAMPLES (15) BELOW MIN. DET. EXCEEDS 50%										0.21				
RICHMOND 482660002 A01	24	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.16				
ROANOKE 482700001 A01	25	0.0	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.11					
WASHINGTON SEATTLE 491840001 A01	25	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										0.09				
SPOKANE 492040001 A01	26	0.0	0.05	0.08	0.10	0.13	0.16	0.24	0.40	0.54	1.37	2.37	0.42	0.62	0.20	3.26	
TACOMA 492140001 A01	26	0.0	0.0	0.05	0.06	0.07	0.07	0.09	0.16	0.18	0.59	1.02	0.19	0.27	0.10	2.83	
WEST VIRGINIA CHARLESTON 500280001 A01	26	0.0	0.0	0.0	0.0	0.0	0.05	0.07	0.10	0.12	0.17	0.24					
SOUTH CHARLESTON 501760001 A01	25	0.0	NO. OF SAMPLES (13) BELOW MIN. DET. EXCEEDS 50%										0.31				
WISCONSIN EAU CLAIRE 510840002 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.11	0.12	0.13	0.13					
KENOSHA 511540001 A01	24	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.11	0.11	0.13	0.15					
MADISON 511860001 A01	27	0.0	0.0	0.0	0.0	0.0	0.07	0.09	0.10	0.10	0.11	0.18					
MILWAUKEE 512200001 A01	26	0.0	0.0	0.0	0.0	0.05	0.06	0.10	0.12	0.12	0.14	0.18					
RACINE 512880001 A01	24	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.11	0.12	0.12	0.15					
SUPERIOR 513480001 A01	24	0.0	0.0	0.0	0.05	0.06	0.06	0.10	0.14	0.16	0.16	0.18					
WYOMING CASPER 520120001 A01	26	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.09	0.09	0.10	0.11					
CHEYENNE 520140001 A01	23	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.08	0.09	0.11	0.15					

Table 4-4. FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ARIZONA GRAND CANYON NAT P 030370001 A03	25	0.0	0.0	0.0	0.0	0.05	0.05	0.06	0.07	0.08	0.09	0.12					
ARKANSAS MONTGOMERY CO 041760001 A03	22	0.0	NO. OF SAMPLES (12) BELOW MIN. DET. EXCEEDS 50%										0.10				
CALIFORNIA HUMBOLDT CO 053300001 A03	23	0.0	0.0	0.0	0.0	0.0	0.07	0.07	0.08	0.08	0.09	0.10					
COLORADO MESA VERDE NAT PAR 061530002 A03	25	0.0	0.0	0.0	0.0	0.0	0.08	0.08	0.09	0.09	0.09	0.10					
FLORIDA HARDEE CO 101680001 A03	26	0.0	0.0	0.0	0.0	0.0	0.05	0.08	0.09	0.10	0.12	0.13					
IDAHO BUTTE CO 130340001 A03	26	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.10	0.11	0.13					
INDIANA MONROE CO 152800001 A03	24	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.08	0.09	0.10	0.10					
PARKE CO 153260001 A03	25	0.0	0.0	0.0	0.0	0.0	0.06	0.09	0.09	0.09	0.11	0.12					
MAINE ACADIA NAT PARK 200010001 A03	26	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.10	0.10	0.11	0.12					
MISSOURI SHANNON CO 264480002 A03	25	0.0	0.0	0.0	0.0	0.0	0.06	0.06	0.07	0.07	0.08	0.11					
NEBRASKA THOMAS CO 282480001 A03	22	0.0	0.0	0.0	0.0	0.0	0.06	0.07	0.07	0.08	0.08	0.09					
NEVADA WHITE PINE CO 290560001 A03	24	0.0	NO. OF SAMPLES (14) BELOW MIN. DET. EXCEEDS 50%										0.10				
NEW HAMPSHIRE COOS CO 300140001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
NEW YORK JEFFERSON CO 333340001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
OKLAHOMA CHEROKEE CO 370480001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
OREGON CURRY CO 380440001 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
PENNSYLVANIA CLARION CO 391760001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
RHODE ISLAND WASHINGTON CO 410380002 A03	24	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.0				
TENNESSEE CUMBERLAND CO 440680001 A03	22	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.0				
TEXAS MATAGORDA CO 453530001 A03	25	0.0	NO. OF SAMPLES (24) BELOW MIN. DET. EXCEEDS 50%										0.05				
TOM GREEN CO 455200001 A03	25	0.0	NO. OF SAMPLES (22) BELOW MIN. DET. EXCEEDS 50%										0.06				
VERMONT ORANGE CO 470360001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				
VIRGINIA SHENANDOAH NAT PAR 482890001 A03	25	0.0	NO. OF SAMPLES (25) BELOW MIN. DET. EXCEEDS 50%										0.0				
WYTHE CO 483440001 A03	26	0.0	NO. OF SAMPLES (26) BELOW MIN. DET. EXCEEDS 50%										0.0				

Table 4-4 (continued). FLUORIDE, NONURBAN ABBREVIATED FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
WASHINGTON KING CO 490980002 A03	24	0.0	NO. OF SAMPLES (21) BELDN MIN. DET. EXCEEDS 50%									0.08				

**SECTION 5. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS
IN SUSPENDED PARTICULATES: NITRATE**

Table 5-1. NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ALABAMA																
GADSDEN 011480001 A01	26	0.10	0.30	0.40	0.90	1.10	1.20	1.30	1.50	1.80	2.20	3.30	1.23	0.74	0.96	2.26
HUNTSVILLE 011860001 A01	26	0.10	0.20	0.30	0.40	0.60	0.70	1.00	1.20	1.30	1.90	2.70	0.89	0.64	0.68	2.24
MOBILE 012380001 A01	22	0.50	0.80	1.20	1.40	1.50	1.70	2.00	2.60	3.00	3.00	6.40	2.15	1.48	1.77	1.89
MONTGOMERY 012460001 A01	26	0.0	0.20	0.40	0.50	0.80	0.90	0.90	1.20	1.60	1.90	2.30	0.95	0.62	0.71	2.61
ALASKA																
ANCHORAGE 020040003 A01	25	0.30	0.40	0.40	0.50	0.50	0.60	0.60	0.90	1.00	1.20	1.70	0.71	0.37	0.63	1.63
FAIRBANKS 020160001 A01	24	0.0	0.20	0.20	0.30	0.40	0.50	0.60	0.60	1.30	1.50	1.60	0.67	0.51	0.47	2.68
ARIZONA																
PHOENIX 030600002 A01	26	0.60	1.00	1.60	1.80	2.30	2.50	2.60	3.00	3.50	5.10	6.10	2.70	1.44	2.32	1.79
TUCSON 030860001 A01	26	0.50	0.60	1.40	1.40	1.60	1.80	2.40	2.90	3.20	3.70	4.40	2.19	1.11	1.88	1.83
ARKANSAS																
LITTLE ROCK 041440001 A01	26	0.10	0.50	0.60	0.60	0.80	0.90	1.30	1.60	1.90	2.90	4.20	1.34	0.96	1.03	2.19
TEXARKANA 042560001 A01	26	0.10	0.20	0.30	0.40	0.50	0.60	0.70	1.20	1.40	1.80	2.30	0.85	0.63	0.63	2.29
CALIFORNIA																
ANAHEIM 050230001 A01	25	0.80	1.30	1.40	1.80	2.30	3.70	4.60	6.00	6.60	9.30	19.40	4.62	4.03	3.40	2.23
BURBANK 050900001 A01	24	1.00	1.30	2.00	3.00	3.30	3.80	4.10	4.60	5.20	5.40	11.00	3.88	2.11	3.37	1.76
FRESNO 052800001 A01	25	0.40	1.00	1.30	1.90	2.00	2.20	2.40	3.10	3.40	5.70	16.80	3.03	3.19	2.22	2.20
GLENDALE 052940001 A01	26	1.00	1.30	1.90	2.00	2.80	3.00	3.90	5.30	6.00	8.30	10.80	4.08	2.76	3.29	1.97
LONG BEACH 054100001 A01	24	0.80	1.10	1.40	2.60	3.10	3.50	4.30	4.90	7.30	8.40	11.90	4.32	2.95	3.38	2.13
LOS ANGELES 054180001 A01	24	2.20	2.80	3.10	4.50	4.70	5.30	6.80	7.20	7.70	9.40	23.90	6.64	4.47	5.72	1.70
OAKLAND 055100001 A01	26	0.0	0.90	1.50	2.20	2.50	2.90	3.40	5.10	5.40	6.80	7.40	3.37	2.16	2.36	3.21
ONTARIO 055380001 A01	25	1.40	1.80	3.10	4.40	4.60	6.70	7.30	9.40	9.60	14.20	27.10	7.71	5.98	5.92	2.14
RIVERSIDE 056400001 A01	26	1.10	2.10	2.50	3.40	4.40	4.70	7.50	7.90	10.20	12.50	19.90	6.81	5.01	5.31	2.09
SACRAMENTO 055580001 A01	25	0.20	0.80	0.90	1.20	1.70	2.00	2.70	3.40	3.40	5.90	7.60	2.60	1.91	1.96	2.28
SAN BERNARDINO 056600001 A01	26	0.90	2.90	3.60	5.60	8.50	9.70	13.20	14.80	16.80	18.70	24.00	10.72	6.43	8.25	2.34
SAN DIEGO 056400001 A01	24	0.70	1.40	2.10	2.10	2.70	3.60	4.20	4.40	5.20	7.80	9.60	3.93	2.34	3.26	1.92
SAN FRANCISCO 056950001 A01	25	0.30	0.50	0.80	0.80	1.20	1.40	1.70	2.80	3.60	5.30	6.20	2.22	1.77	1.61	2.33
SAN JOSE 056980001 A01	26	0.40	1.10	2.30	2.50	2.90	3.60	4.60	5.40	6.40	9.10	9.60	4.29	2.74	3.35	2.23
SANTA ANA 057180001 A01	24	1.10	1.60	2.50	2.80	3.40	4.30	4.90	7.60	8.10	10.60	16.15	5.54	4.00	4.34	2.08
TORRANCE 058240001 A01	25	0.20	0.40	0.40	1.10	1.80	2.70	3.50	3.90	4.60	5.40	166.00	5.17	12.84	1.96	3.64
COLORADO																
DENVER 060530001 A01	26	0.70	1.40	2.00	2.50	2.80	2.90	3.20	3.70	4.40	5.20	12.10	3.42	2.20	2.92	1.78
CONNECTICUT																
BRIDGEPORT 070660001 A01	25	0.40	0.60	0.70	0.80	0.90	0.90	0.90	1.10	1.10	1.80	6.20	1.19	1.12	0.98	1.71
HARTFORD 070420001 A01	25	0.10	0.10	0.30	0.30	0.60	0.60	0.70	0.80	0.90	1.10	2.10	0.68	0.48	0.51	2.39
NEW HAVEN 076700001 A01	26	0.10	0.20	0.20	0.30	0.40	0.40	0.50	0.70	0.70	1.40	1.40	0.58	0.43	0.46	2.04

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									ARITHMETIC			GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
CONNECTICUT WATERBURY 071240001 A01	26	0.20	0.30	0.50	0.50	0.80	0.90	1.00	1.20	1.30	1.90	2.20	0.96	0.56	0.81	1.88
DELAWARE WILMINGTON 080260001 A01	24	0.30	0.50	0.70	0.80	0.90	1.00	1.20	1.50	1.70	2.40	3.60	1.27	0.77	1.08	1.78
DIST COLUMBIA WASHINGTON 090020001 A01	26	0.30	0.90	1.40	1.60	1.80	2.00	2.30	2.40	2.70	3.40	3.70	2.04	0.88	1.79	1.82
FLORIDA JACKSONVILLE 101960002 A01	24	0.30	0.40	1.10	1.40	1.60	1.80	2.30	2.60	3.10	3.40	8.40	2.18	1.68	1.69	2.17
MIAMI 102700001 A01	26	0.10	0.70	1.00	1.20	1.50	1.80	2.40	2.80	3.10	5.60	6.70	2.33	1.70	1.75	2.39
ST PETERSBURG 103980002 A01	26	0.0	0.10	0.20	0.70	1.00	1.00	1.60	1.70	1.90	3.00	4.30	1.34	1.09	0.76	4.09
TAMPA 104360002 A01	26	0.0	0.10	0.80	0.80	1.00	1.30	1.70	1.90	2.10	3.10	6.50	1.61	1.42	0.94	3.98
GEORGIA ATLANTA 110200001 A01	26	0.0	0.10	0.70	1.20	1.40	1.50	1.90	2.00	2.00	2.80	4.10	1.59	1.04	1.02	3.77
COLUMBUS 111280001 A01	24	0.20	0.20	0.30	0.40	0.50	0.50	0.60	0.90	1.30	1.50	1.70	0.72	0.49	0.57	2.02
SAVANNAH 114500001 A01	25	0.40	0.50	0.60	0.80	0.90	1.20	1.30	1.60	1.70	3.00	3.70	1.40	0.92	1.15	1.90
HAWAII HONOLULU 120120001 A01	26	0.0	0.30	0.30	0.40	0.40	0.50	0.60	0.90	1.10	1.20	2.20	0.71	0.52	0.54	2.36
IDAHO BOISE CITY 130220001 A01	25	0.0	0.0	0.30	0.70	0.80	0.90	1.00	1.20	1.50	2.50	5.20	1.20	1.26	0.63	6.28
ILLINOIS CHICAGO 141220001 A01	26	0.20	0.70	1.00	1.00	1.20	1.50	1.70	2.70	3.00	4.60	5.40	2.00	1.47	1.51	2.30
EAST ST LOUIS 142120001 A01	25	0.0	0.30	0.80	1.00	1.10	1.30	1.40	1.70	1.90	3.00	3.40	1.45	0.88	1.09	2.72
JOLIET 143760001 A01	23	0.70	0.80	0.90	1.20	1.40	1.40	1.70	1.80	2.30	3.60	5.50	1.87	1.29	1.57	1.77
NORTH CHICAGO 145620002 A01	26	0.30	0.50	0.60	0.80	1.00	1.00	1.10	1.30	1.40	2.40	3.90	1.18	0.76	1.01	1.76
PEORIA 146080001 A01	26	0.50	0.60	0.80	0.90	1.10	1.30	1.40	1.70	1.90	4.80	9.90	1.95	2.08	1.42	2.08
ROCKFORD 146680001 A01	24	0.20	0.40	0.50	0.60	0.70	0.80	1.10	1.30	1.70	2.20	2.50	1.05	0.65	0.87	1.94
SPRINGFIELD 147280001 A01	25	0.0	0.20	0.30	0.60	0.80	1.00	1.10	1.30	1.50	2.10	3.70	1.09	0.84	0.75	2.89
INDIANA EAST CHICAGO 151180001 A01	25	0.50	0.70	0.80	1.00	1.10	1.50	1.70	2.60	3.80	4.60	14.00	2.56	2.91	1.72	2.34
EVANSVILLE 151300001 A01	26	0.30	0.40	0.70	0.90	1.10	1.60	1.90	2.20	2.60	2.80	4.80	1.69	1.12	1.34	2.08
FORT WAYNE 151380001 A01	25	0.20	0.50	0.70	1.00	1.10	1.60	1.80	1.90	2.60	3.50	5.10	1.80	1.27	1.41	2.14
GARY 151520001 A01	23	0.40	0.60	1.00	1.10	1.30	1.30	1.70	2.00	2.30	3.40	10.00	2.03	2.03	1.51	2.11
HAMMOND 151780001 A01	25	0.40	0.70	0.80	1.20	1.50	1.50	1.70	1.90	2.30	5.60	11.30	2.38	2.77	1.64	2.23
INDIANAPOLIS 152040001 A01	25	0.20	0.50	0.80	1.10	1.30	1.50	1.80	2.20	2.30	2.80	4.80	1.68	1.01	1.37	2.08
NEW ALBANY 152980002 A01	23	0.60	1.40	1.50	1.80	2.40	2.70	3.10	4.10	5.40	6.10	8.30	3.33	2.04	2.75	1.94
SOUTH BEND 153880002 A01	25	0.20	0.30	0.50	0.60	0.70	0.80	0.80	1.10	1.60	2.00	3.40	1.05	0.81	0.82	2.04
TERRE HAUTE 154080001 A01	23	0.20	0.30	0.50	0.50	0.80	1.00	1.30	1.70	2.10	2.30	7.40	1.43	1.51	0.98	2.42
IOWA DAVENPORT 161060001 A01	26	0.10	0.70	1.20	1.60	2.90	3.50	5.60	7.00	8.00	10.80	12.20	4.67	3.75	2.95	3.19

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
IOWA																
DES MOINES 161180001 A01	25	0.50	0.60	0.70	0.90	1.10	1.30	1.40	2.10	2.60	4.50	5.90	1.84	1.53	1.41	2.04
DUBUQUE 161260001 A01	24	0.40	0.50	0.60	0.70	0.90	1.50	1.90	2.10	2.90	3.40	8.50	1.89	1.82	1.34	2.29
KANSAS																
KANSAS CITY 171800002 A01	25	0.40	0.70	0.80	1.10	1.20	1.50	1.70	2.30	2.60	3.20	10.10	2.09	2.05	1.58	2.05
TOPEKA 173560001 A01	26	0.30	0.50	0.70	0.90	1.00	1.10	1.50	1.80	2.00	2.80	3.80	1.45	0.89	1.20	1.90
WICHITA 173740001 A01	26	0.40	0.60	0.80	0.90	1.00	1.10	1.30	1.40	1.70	1.90	2.50	1.21	0.52	1.10	1.58
KENTUCKY																
ASHLAND 180080002 A01	24	0.50	0.80	0.90	1.10	1.30	1.40	1.50	1.90	2.80	6.00	10.10	2.25	2.27	1.65	2.07
COVINGTON 180900001 A01	26	0.30	0.50	0.70	0.70	1.00	1.20	1.60	1.80	2.10	2.70	3.10	1.41	0.81	1.18	1.89
LOUISVILLE 182380001 A01	25	0.40	1.00	1.10	1.40	1.50	1.90	2.00	2.10	2.80	3.90	4.00	1.98	0.99	1.75	1.70
LOUISIANA																
BATON ROUGE 190280001 A01	22	0.10	0.20	0.40	0.50	0.70	0.80	1.10	1.20	1.40	1.90	5.00	1.10	1.04	0.78	2.42
NEW ORLEANS 192020002 A01	25	0.90	1.20	1.60	1.70	2.10	2.20	2.70	3.10	3.70	4.80	5.90	2.69	1.31	2.40	1.64
SHREVEPORT 192740001 A01	25	0.20	0.20	0.20	0.30	0.40	0.40	0.50	0.70	0.90	1.20	1.80	0.61	0.44	0.44	1.98
MARYLAND																
BALTIMORE 210120001 A01	23	0.30	0.60	0.80	1.10	1.50	1.60	1.80	2.10	2.90	3.30	3.80	1.62	1.03	1.50	2.01
MASSACHUSETTS																
BOSTON 220240001 A01	24	0.20	0.30	0.30	0.60	0.70	0.90	1.00	1.10	1.40	1.40	4.60	0.99	0.87	0.77	2.05
FALL RIVER 220580002 A01	25	0.20	0.30	0.30	0.60	0.60	0.70	1.10	1.50	1.50	1.90	3.20	1.00	0.71	0.79	2.08
SPRINGFIELD 222160001 A01	26	0.0	0.10	0.20	0.30	0.30	0.40	0.50	0.60	0.70	0.80	1.70	0.46	0.35	0.34	2.42
WORCHESTER 222640001 A01	26	0.10	0.20	0.30	0.30	0.30	0.50	0.60	0.80	0.80	1.10	2.30	0.62	0.50	0.46	2.19
MICHIGAN																
DEARBORN 231140001 A01	25	0.70	1.00	1.10	1.20	1.30	1.70	1.90	2.70	3.90	6.10	7.50	2.50	1.91	1.98	1.96
DETROIT 231180001 A01	25	1.00	1.30	1.70	1.90	2.10	2.70	3.00	3.10	4.60	5.70	10.90	3.32	2.36	2.76	1.82
FLINT 231580001 A01	23	0.80	1.50	2.30	2.50	2.70	2.80	3.00	3.50	5.10	7.30	12.80	3.73	2.68	3.06	1.88
GRAND RAPIDS 231820001 A01	26	0.80	1.50	1.90	2.00	2.50	2.70	3.70	5.20	5.50	6.60	11.30	3.83	2.54	3.14	1.92
LANSING 232840001 A01	26	0.40	0.50	0.60	0.60	0.70	0.80	1.00	1.10	1.30	1.90	4.90	1.17	1.10	0.92	1.87
SAGINAW 234760001 A01	26	0.20	0.30	0.40	0.50	0.70	0.80	0.90	1.10	1.30	2.10	3.20	0.96	0.68	0.77	1.97
TRENTON 235120001 A01	23	1.00	1.30	1.60	1.80	2.10	2.20	2.50	2.50	2.90	3.40	23.20	3.16	4.43	2.36	1.83
MINNESOTA																
DULUTH 241040001 A01	25	0.20	0.40	0.40	0.60	0.70	0.80	0.80	1.10	1.30	1.60	7.50	1.32	1.85	0.84	2.29
MINNEAPOLIS 242260001 A01	25	0.20	0.40	0.40	0.80	0.90	1.30	1.40	1.70	2.10	2.50	6.50	1.50	1.30	1.12	2.23
MOORHEAD 242320001 A01	25	0.20	0.40	0.60	0.80	0.90	1.00	1.20	1.40	1.60	2.40	2.90	1.20	0.69	1.01	1.90
ST PAUL 243300001 A01	25	0.30	0.40	0.40	0.70	0.80	0.80	1.00	1.10	1.60	2.30	3.90	1.11	0.83	0.89	1.93
MISSOURI																
KANSAS CITY 262380002 A01	24	0.50	0.60	0.70	0.90	1.50	1.70	2.00	2.10	3.10	3.30	5.30	1.99	1.30	1.50	2.03
ST LOUIS 264280001 A01	23	1.00	1.10	1.40	1.70	2.40	2.70	3.20	3.80	4.80	5.40	9.20	3.24	2.02	2.71	1.86

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
MONTANA HELENA 270720001 A01	24	0.10	0.20	0.30	0.40	0.50	0.50	0.50	0.60	1.10	1.30	1.60	0.62	0.41	0.50	1.98
NEBRASKA OMAHA 281980001 A01	26	0.20	0.80	1.00	1.10	1.40	1.60	1.70	2.10	2.50	3.30	7.20	1.96	1.49	1.54	2.13
NEVADA LAS VEGAS 290320001 A01	22	0.50	0.60	1.20	1.50	1.70	1.80	2.10	2.40	2.50	3.00	3.60	1.91	0.87	1.68	1.77
NEVADA RENO 290480001 A01	26	0.10	0.50	0.70	0.80	0.90	1.00	1.40	1.60	2.40	3.50	6.40	1.57	1.38	1.13	2.36
NEW HAMPSHIRE CONCORD 300120001 A01	24	0.10	0.10	0.10	0.20	0.20	0.20	0.30	0.40	0.40	0.70	2.10	0.37	0.44	0.26	2.28
NEW JERSEY BURLINGTON CO 310660002 A01	26	0.30	1.00	1.20	1.30	1.80	2.30	2.50	2.60	2.60	3.10	5.50	2.08	1.06	1.80	1.84
CAMDEN 310720001 A01	24	0.40	1.10	1.30	1.50	1.90	2.00	2.40	2.80	3.80	4.10	5.00	2.37	1.25	2.02	1.86
ELIZABETH 311300001 A01	25	0.20	0.30	0.50	0.70	0.80	1.10	1.10	1.30	1.50	1.80	2.20	1.04	0.53	0.88	1.87
GLASSBORO 311700001 A01	25	0.20	0.20	0.30	0.50	0.60	0.90	1.30	1.40	1.70	2.70	2.90	1.13	0.85	0.82	2.38
HAMILTON 311940001 A01	23	0.20	0.50	0.70	0.80	0.90	1.00	1.40	1.40	1.50	2.80	2.90	1.24	0.74	1.04	1.88
JERSEY CITY 312320001 A01	26	0.40	0.50	0.70	0.90	1.00	1.20	1.50	1.70	1.80	2.30	2.80	1.31	0.62	1.16	1.67
NEWARK 313480001 A01	25	0.20	0.50	0.80	1.00	1.00	1.20	1.20	1.70	1.80	1.90	2.50	1.27	0.60	1.09	1.90
PATERSON 314140001 A01	25	0.10	0.20	0.40	0.50	0.60	0.70	1.00	1.20	1.50	1.90	2.50	0.96	0.66	0.73	2.31
PERTH AMBOY 314220001 A01	24	0.10	0.10	0.40	0.40	0.50	0.70	1.00	1.00	1.10	1.20	2.30	0.77	0.52	0.58	2.34
TRENTON 315400001 A01	24	0.30	0.50	0.60	0.80	0.90	1.00	1.20	1.20	1.30	1.90	3.10	1.12	0.62	0.99	1.68
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.40	0.60	0.80	1.10	1.20	1.50	1.80	1.90	2.10	2.40	5.70	1.70	1.19	1.41	1.85
NEW YORK ALBANY 330040001 A01	25	0.10	0.30	0.40	0.50	0.50	0.70	0.90	1.00	1.20	2.00	3.60	0.97	0.84	0.71	2.28
BUFFALO 330660001 A01	24	0.10	0.80	1.00	1.30	1.40	1.50	1.80	1.90	2.80	3.30	4.10	1.80	0.98	1.49	2.10
NEW YORK CITY 334480001 A01	24	0.50	0.60	0.70	0.90	1.00	1.10	1.30	1.50	2.00	2.20	2.60	1.28	0.60	1.15	1.61
NIAGARA FALLS 334740001 A01	26	0.20	0.50	0.90	1.30	1.60	2.10	2.40	3.00	3.10	4.10	4.90	2.17	1.31	1.69	2.28
ROCHESTER 335760001 A01	25	0.40	0.60	0.80	1.00	1.30	1.60	1.90	2.10	2.30	2.90	5.10	1.76	1.13	1.45	1.91
SYRACUSE 336620001 A01	25	0.30	1.50	2.10	2.50	3.20	3.50	3.80	4.40	4.60	5.70	13.10	3.85	2.30	3.14	2.07
UTICA 336940001 A01	26	0.20	0.30	0.40	0.40	0.70	0.80	1.00	1.30	1.50	3.00	3.90	1.13	1.01	0.81	2.30
NORTH CAROLINA CHARLOTTE 340700001 A01	24	0.20	0.40	0.50	0.60	0.70	0.90	1.30	1.50	2.20	2.70	3.80	1.28	0.95	0.99	2.13
DURHAM 341160001 A01	26	0.10	0.20	0.30	0.30	0.70	0.80	1.00	1.30	1.50	1.70	1.90	0.90	0.59	0.65	2.51
GREENSBORO 341740001 A01	24	0.90	1.30	1.40	1.70	1.90	2.10	2.50	2.60	2.90	3.30	4.50	2.30	0.94	2.13	1.52
WINSTON-SALEM 344460002 A01	25	0.20	0.20	0.20	0.60	0.80	1.00	1.00	1.30	1.30	2.10	3.20	1.06	0.79	0.78	2.36
NORTH DAKOTA BISMARCK 350100001 A01	25	0.20	0.30	0.50	0.60	0.60	0.90	0.90	1.20	1.50	2.20	5.30	1.20	1.22	0.87	2.17
UTAH CANYON 361300001 A01	26	0.50	0.70	1.00	1.10	1.10	1.30	1.70	2.30	2.30	2.60	4.60	1.65	0.93	1.43	1.74

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

(μg/m³)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
OHIO CINCINNATI 361220001 A01	26	0.40	0.70	2.00	2.90	3.40	3.40	3.90	4.40	5.50	5.80	6.60	3.55	1.77	2.91	2.14	
CLEVELAND 361300001 A01	25	0.50	0.80	1.20	1.70	1.90	2.60	2.80	3.20	3.80	5.40	6.80	2.69	1.64	2.20	1.98	
COLUMBUS 361460001 A01	25	1.10	1.30	2.10	2.40	2.70	3.30	3.90	4.10	5.40	6.90	8.50	3.77	2.06	3.26	1.75	
DAYTON 361660001 A01	25	1.40	1.60	1.70	2.10	2.90	3.70	4.00	4.50	4.80	6.10	7.80	3.61	1.72	3.21	1.66	
TOLEDO 366600001 A01	26	0.70	0.70	0.90	1.20	1.40	1.40	1.90	2.20	2.30	2.60	4.40	1.71	0.87	1.52	1.65	
YOUNGSTOWN 367760001 A01	26	0.50	0.70	0.90	1.10	1.30	2.00	2.10	3.10	3.30	3.70	7.20	2.19	1.52	1.75	2.01	
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	0.50	0.60	0.80	1.00	1.30	1.70	1.70	2.10	2.50	2.60	3.30	1.62	0.82	1.41	1.76	
TULSA 373000001 A01	26	1.10	1.20	1.90	2.10	2.30	2.40	2.60	2.80	3.40	3.80	10.80	2.88	1.93	2.53	1.62	
OREGON MEDFORD 381160001 A01	23	0.30	0.50	0.70	0.80	1.20	1.30	1.40	1.60	2.70	3.90	5.30	1.67	1.29	1.29	2.10	
PORTLAND 381460001 A01	25	0.40	1.60	1.80	2.30	2.40	2.70	2.90	4.30	4.50	5.50	8.10	3.24	1.94	2.65	2.05	
PENNSYLVANIA ALLENTOWN 390120001 A01	25	1.30	1.30	2.20	2.90	3.30	4.30	4.70	8.30	8.40	9.50	10.80	5.21	3.14	4.25	1.98	
ALTOONA 390140001 A01	23	0.20	0.30	0.50	0.80	1.20	1.40	1.60	1.90	2.90	3.70	4.90	1.68	1.28	1.22	2.42	
BETHLEHEM 390780002 A01	25	0.60	0.60	0.70	1.10	1.20	1.60	1.90	2.80	4.30	5.10	7.20	2.32	1.85	1.73	2.21	
ERIE 390600002 A01	25	0.60	0.70	0.90	1.30	1.70	2.10	2.50	3.20	3.70	6.30	9.60	2.71	2.18	2.06	2.12	
HARRISBURG 392880001 A01	24	0.50	0.50	0.60	1.10	1.20	1.40	1.70	1.80	1.90	2.50	2.90	1.45	0.72	1.27	1.73	
HAZLETON 393960001 A01	23	0.20	0.30	0.50	0.50	0.60	0.60	1.00	1.10	1.40	2.30	21.30	1.70	4.30	0.84	2.62	
JCMAS TOWN 394460001 A01	24	0.40	0.40	0.50	0.80	0.90	1.40	3.00	3.10	3.60	4.00	6.00	2.18	1.68	1.54	2.49	
PUERTO RICO CATAN 400660002 A01	26	0.0	0.0	0.10	0.20	0.30	0.30	0.30	0.70	0.80	1.20	3.10	0.51	0.66	0.27	3.45	
GLAYANILLA 401990002 A01	23	0.30	0.30	0.50	0.50	0.60	0.70	0.80	0.80	1.00	1.00	1.50	0.72	0.31	0.66	1.56	
POYCE 401970002 A01	23	0.40	0.50	0.50	0.60	0.80	0.80	0.90	0.90	1.10	1.10	1.50	0.82	0.27	0.77	1.41	
SAN JUAN 402140001 A01	26	0.60	0.70	0.70	0.80	0.90	1.00	1.10	1.20	1.40	1.60	3.10	1.12	0.51	1.04	1.44	
RHODE ISLAND EAST PROVIDENCE 410120001 A01	25	0.50	1.10	1.70	2.00	2.30	2.50	2.70	3.00	3.20	3.90	6.00	2.58	1.14	2.31	1.69	
PROVIDENCE 410300001 A01	26	0.30	0.30	0.40	0.40	0.70	0.70	1.00	1.30	1.50	2.10	2.90	1.02	0.74	0.80	2.04	
SOUTH CAROLINA COLUMBIA 420760001 A01	22	0.30	0.40	0.50	0.60	0.60	0.70	0.70	0.90	1.00	1.10	1.90	0.75	0.35	0.69	1.55	
GREENVILLE 421180001 A01	25	1.00	1.20	1.80	2.20	2.40	2.60	2.60	3.00	3.10	3.60	4.00	2.52	0.82	2.37	1.46	
TENNESSEE CHATTANOOGA 440390001 A01	26	1.50	2.10	2.70	2.80	3.00	3.20	3.80	4.10	4.30	5.10	17.30	3.98	2.93	3.49	1.59	
KNOXVILLE 441740001 A01	24	0.30	0.50	0.60	1.00	1.20	1.80	2.30	2.30	3.40	4.00	4.20	1.96	1.28	1.52	2.20	
MEMPHIS 442340001 A01	26	0.10	0.30	0.50	0.60	0.80	0.80	1.10	1.40	1.80	2.10	4.50	1.17	0.94	0.88	2.26	
NASHVILLE 442540001 A01	25	0.20	0.40	0.50	1.10	1.20	1.20	1.40	1.80	1.80	2.40	3.40	1.41	0.93	1.15	2.02	

Table 5-1 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

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LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS																	
DALLAS	451310002 A01	25	0.50	0.70	0.80	1.00	1.00	1.20	1.40	1.50	1.60	2.40	3.40	1.34	0.66	1.20	1.60
FORT WORTH	451880001 A01	25	0.80	1.00	1.40	1.50	1.60	1.80	1.90	2.10	2.20	2.70	3.20	1.85	0.61	1.75	1.41
TEXAS																	
HOUSTON	452560001 A01	25	0.50	1.30	1.80	1.90	2.60	3.00	3.80	4.20	4.50	5.60	7.20	3.34	1.78	2.81	1.93
PASADENA	454060002 A01	24	0.60	0.90	1.00	1.50	1.60	1.80	2.60	2.70	3.40	3.70	4.00	2.14	1.07	1.86	1.76
SAN ANTONIO	454570001 A01	26	0.50	0.80	1.10	1.20	1.50	1.70	1.80	2.10	2.10	3.30	3.60	1.79	0.86	1.58	1.69
UTAH																	
OGDEN	460680001 A01	24	0.50	0.80	0.90	1.00	1.10	1.30	1.60	1.70	2.50	2.50	3.70	1.58	0.83	1.40	1.67
SALT LAKE CITY	460920001 A01	26	0.40	0.70	0.90	1.00	1.10	1.20	1.30	3.10	3.70	4.30	15.20	2.39	2.94	1.61	2.29
VERMONT																	
BURLINGTON	470140001 A01	23	0.50	0.60	0.60	0.80	1.00	1.10	1.20	1.50	2.30	3.80	4.00	1.50	1.10	1.21	1.92
VIRGINIA																	
DANVILLE	480920001 A01	25	0.20	0.30	0.30	0.60	1.00	1.30	1.60	1.70	1.80	2.30	2.60	1.26	0.77	0.97	2.27
HAMPTON	481440001 A01	26	0.30	0.40	0.50	0.50	0.60	0.60	0.90	1.00	1.00	1.30	2.20	0.83	0.48	0.72	1.69
LYNCHBURG	481840001 A01	25	0.20	0.60	0.90	1.00	1.10	1.20	1.30	1.30	1.40	2.00	4.20	1.28	0.76	1.11	1.78
NEWPORT NEWS	482120001 A01	24	0.30	1.10	1.20	1.60	1.80	2.00	2.30	2.40	2.80	3.20	5.10	2.10	1.02	1.84	1.77
NORFOLK	482140001 A01	26	0.40	0.80	1.00	1.10	1.30	1.40	1.50	2.00	2.90	3.70	7.00	1.92	1.41	1.57	1.88
PORTSMOUTH	482440001 A01	26	0.20	0.90	1.00	1.20	1.40	2.00	2.50	2.70	3.20	4.40	6.60	2.31	1.49	1.85	2.09
RICHMOND	482660001 A01	25	0.30	0.40	0.40	0.60	0.70	0.70	1.00	1.40	1.50	2.00	7.90	1.28	1.56	0.89	2.19
ROANCKE	482700001 A01	26	1.30	1.50	1.90	2.30	2.40	2.50	3.10	3.20	3.50	4.20	5.00	2.78	0.96	2.62	1.44
WASHINGTON																	
SEATTLE	491840001 A01	26	0.30	0.40	0.80	1.00	1.10	1.10	1.30	1.40	1.60	2.70	2.80	1.29	0.67	1.13	1.75
SPOKANE	492040001 A01	25	0.20	0.30	0.50	0.60	0.60	0.60	0.70	0.80	0.80	0.90	1.50	0.66	0.27	0.60	1.58
TACOMA	492140001 A01	25	0.40	0.40	0.90	1.50	1.50	1.90	2.30	3.20	3.50	4.40	4.60	2.23	1.37	1.77	2.14
WEST VIRGINIA																	
CHARLESTON	500280001 A01	25	0.30	0.40	0.40	0.50	0.60	0.60	1.00	1.20	1.70	3.10	7.30	1.32	1.51	0.90	2.30
WISCONSIN																	
EAU CLAIRE	510840002 A01	23	0.20	0.30	0.40	0.40	0.50	0.50	0.70	0.70	0.80	1.20	1.50	0.64	0.34	0.56	1.67
KENOSHA	511540001 A01	26	0.20	0.50	0.60	0.70	0.90	1.20	1.40	1.80	1.90	2.30	3.10	1.27	0.74	1.05	1.95
MADISON	511860001 A01	25	0.30	0.50	0.60	0.60	0.70	0.80	0.80	1.20	1.20	1.40	1.80	0.88	0.40	0.79	1.60
MILWAUKEE	512200001 A01	26	0.60	0.70	0.90	1.20	1.30	1.60	1.80	3.10	4.50	5.00	12.00	2.75	2.75	1.91	2.30
RACINE	512880001 A01	24	0.20	0.50	0.60	0.80	0.90	1.10	1.20	1.40	1.60	2.40	3.40	1.24	0.76	1.03	1.91
SUPERIOR	513480001 A01	26	0.20	0.38	0.50	0.50	0.50	0.60	0.70	0.90	1.40	2.60	6.10	1.08	1.24	0.74	2.27
WYOMING																	
CASPER	520120001 A01	25	0.10	0.20	0.30	0.30	0.40	0.60	0.70	1.00	1.00	1.10	2.30	0.71	0.49	0.56	2.10
CHEYENNE	520140001 A01	25	0.10	0.30	0.40	0.50	0.50	1.00	1.10	1.30	1.50	1.60	4.50	1.04	0.68	0.78	2.26

Table 5-2. NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

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LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA GRAND CANYON NAT P 030370001 A03	24	0.0	0.10	0.10	0.20	0.30	0.40	0.70	0.70	0.90	1.00	1.10	0.51	0.35	0.35	2.72
ARKANSAS MONTGOMERY CO 041760001 A03	24	0.10	0.20	0.20	0.40	0.50	0.50	0.90	1.00	1.20	1.20	1.40	0.69	0.44	0.53	2.25
CALIFORNIA HUMBOLDT CO 053300001 A03	26	0.0	0.0	0.20	0.20	0.30	0.50	0.60	0.70	0.90	1.20	1.60	0.53	0.44	0.34	3.36
COLORADO MESA VERDE NAT PAR 061530002 A03	26	0.10	0.10	0.30	0.30	0.30	0.30	0.40	0.60	0.70	1.00	2.40	0.52	0.49	0.38	2.16
FLORIDA HARDEE CO 101480001 A03	24	0.10	0.20	0.20	0.30	0.30	0.30	0.30	0.40	0.50	0.70	1.20	0.39	0.27	0.33	1.84
IDAH0 BUTTE CO 130340001 A03	24	0.10	0.20	0.20	0.20	0.30	0.30	0.40	0.50	0.50	0.60	0.70	0.35	0.17	0.31	1.73
INDIANA MONROE CO 152800001 A03	24	0.10	0.10	0.20	0.20	0.20	0.30	0.40	0.50	0.90	1.10	1.40	0.46	0.37	0.34	2.28
PARKE CO 153240001 A03	23	0.0	0.10	0.10	0.20	0.20	0.20	0.30	0.30	0.50	0.80	1.70	0.36	0.39	0.23	2.79
MAINE ACADIA NAT PARK 200010001 A03	24	0.0	0.10	0.20	0.20	0.30	0.50	0.80	0.90	1.00	1.50	1.80	0.64	0.52	0.39	3.32
MARYLAND CALVERT CO 210280001 A03	25	0.0	0.0	0.10	0.20	0.30	0.40	0.60	0.80	0.90	1.30	1.40	0.53	0.46	0.31	3.59
MISSOURI SHANNON CO 264480002 A03	24	0.0	0.0	0.0	0.10	0.10	0.10	0.20	0.30	0.50	0.70	1.40	0.28	0.34	0.15	3.36
MONTANA GLACIER NAT PARK 270570001 A03	26	0.0	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.14	0.09	0.11	2.15
NEBRASKA THOMAS CO 282480001 A03	25	0.0	0.10	0.20	0.30	0.40	0.60	0.70	1.10	1.40	1.60	2.80	0.79	0.74	0.45	3.52
NEVADA WHITE PINE CO 290560001 A03	23	0.0	0.10	0.20	0.20	0.30	0.40	0.50	0.50	0.80	0.90	1.40	0.48	0.35	0.35	2.50
NEW HAMPSHIRE COOS CO 300140001 A03	22	0.0	0.0	0.0	0.0	0.10	0.10	0.20	0.20	0.40	0.60	1.10				
NEW YORK JEFFERSON CO 333340001 A03	25	0.10	0.10	0.20	0.20	0.30	0.40	0.40	0.70	1.10	1.40	3.00	0.64	0.66	0.42	2.54
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	23	0.20	0.30	0.40	0.70	0.80	1.00	1.20	1.30	1.80	1.90	4.30	1.17	0.87	0.92	2.07
OKLAHOMA CHEROKEE CO 370480001 A03	24	0.10	0.20	0.20	0.30	0.60	0.70	0.90	1.10	1.30	1.70	2.40	0.84	0.61	0.61	2.48
OREGON CURRY CO 380440001 A03	25	0.0	0.0	0.10	0.20	0.20	0.20	0.20	0.30	0.30	0.40	0.70	0.24	0.15	0.18	2.38
PENNSYLVANIA CLARION CO 391760001 A03	26	0.10	0.10	0.10	0.10	0.20	0.20	0.30	0.30	0.70	1.10	1.60	0.40	0.44	0.26	2.44
RHODE ISLAND WASHINGTON CO 410380002 A03	27	0.10	0.20	0.20	0.20	0.40	0.50	0.80	0.90	1.10	1.60	2.60	0.72	0.61	0.51	2.39
SOUTH CAROLINA RICHLAND CO 421900001 A03	25	0.10	0.10	0.20	0.20	0.30	0.40	0.50	0.70	0.80	1.20	1.60	0.55	0.43	0.41	2.30
SOUTH DAKOTA BLACK HILLS NAT P0 430110001 A03	26	0.0	0.10	0.10	0.10	0.10	0.10	0.20	0.30	0.30	0.30	0.90	0.21	0.19	0.16	2.09
TENNESSEE CUMBERLAND CO 440680001 A03	23	0.20	0.20	0.30	0.30	0.40	0.40	0.50	0.80	1.10	1.70	2.50	0.75	0.67	0.54	2.22

Table 5-2 (continued). NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS MATAGORDA CO 453530001 A03	26	0.40	0.50	0.80	1.10	1.20	1.30	1.40	1.60	1.90	2.20	4.30	1.43	0.83	1.23	1.75	
VERMONT ORANGE CO 470360001 A03	26	0.10	0.10	0.10	0.20	0.20	0.30	0.40	0.40	0.60	0.90	1.10	0.38	0.30	0.28	2.17	
VIRGINIA SHENANDOAH NAT PAR 482890001 A03	26	0.20	0.30	0.60	0.70	0.80	0.90	1.10	1.50	1.80	2.10	3.30	1.16	0.76	0.93	2.08	
WYTHE CO 483440001 A03	25	0.10	0.20	0.20	0.40	0.40	0.50	0.70	0.70	0.90	1.30	1.50	0.61	0.40	0.48	2.13	
WISCONSIN DOOR CO 510780001 A03	25	0.0	0.10	0.20	0.30	0.40	0.40	0.40	0.60	0.60	0.70	0.90	0.41	0.23	0.33	2.29	
WYCHING YELLOWSTONE NAT PA 520860001 A03	23	0.0	0.10	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.30	0.30	0.16	0.08	0.14	1.95	

Table 5-3. NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ALABAMA GADSDEN 011480001 A01	23	0.30	0.90	1.50	1.80	1.90	2.30	2.50	2.60	3.00	3.90	6.60	2.38	1.35	1.99	1.96	
HUNTSVILLE 011860001 A01	26	0.40	0.40	0.90	1.00	1.30	1.80	2.00	2.60	2.80	3.00	3.60	1.77	0.96	1.48	1.95	
MONTGOMERY 012460001 A01	25	0.20	0.90	1.30	1.50	1.70	1.90	2.10	2.40	2.60	4.00	4.60	2.10	1.08	1.78	1.96	
ALASKA ANCHORAGE 020040003 A01	24	0.0	0.10	0.20	0.30	0.40	0.40	0.60	0.60	0.80	0.90	6.50	0.73	1.27	0.38	3.27	
ARIZONA MARICOPA CO 030440001 A01	26	0.30	0.60	2.10	2.30	2.50	2.60	3.00	4.00	4.30	4.50	7.60	2.93	1.62	2.34	2.23	
TUCSON 030860001 A01	26	1.10	1.20	1.60	1.70	1.90	2.40	2.60	2.80	3.30	3.60	5.10	2.46	1.05	2.26	1.53	
ARKANSAS LITTLE ROCK 041440001 A01	24	0.30	0.70	1.20	1.80	2.00	2.30	2.50	2.60	3.10	4.10	4.30	2.27	1.13	1.91	1.99	
WEST MEMPHIS 042740001 A01	24	0.20	0.80	1.10	1.70	1.80	2.60	2.70	2.80	3.60	4.50	5.00	2.41	1.32	1.95	2.17	
CALIFORNIA ANAHEIM 050230001 A01	26	1.60	4.60	5.90	6.00	6.40	6.50	9.40	11.90	13.30	20.10	28.50	9.55	6.19	7.88	1.93	
BURBANK 050900002 A01	25	3.90	4.00	5.60	6.60	7.10	8.40	9.00	10.00	11.60	16.90	20.90	9.42	4.72	8.42	1.62	
FRESNO 052800002 A01	23	1.80	3.30	4.10	4.60	5.40	5.50	5.70	6.80	9.20	10.80	34.80	7.24	6.56	5.89	1.81	
GLENDALE 052940001 A01	26	3.20	5.20	6.30	7.40	8.20	8.60	8.70	9.90	11.30	14.70	18.90	9.20	3.86	8.50	1.50	
LONG BEACH 054100001 A01	26	1.40	3.50	4.70	5.40	7.20	9.20	10.50	13.30	14.90	16.30	20.70	9.54	5.19	7.88	2.02	
LOS ANGELES 054180001 A01	25	4.80	6.30	7.20	8.20	11.30	12.50	12.80	13.80	16.40	20.70	24.60	12.56	5.42	11.43	1.57	
OAKLAND 055300001 A01	26	0.50	1.50	1.70	2.10	3.00	3.30	3.60	4.60	5.80	8.30	10.20	3.93	2.57	3.15	2.05	
ONTARIO 055380001 A01	25	1.80	4.80	5.10	6.70	7.60	10.80	12.00	12.30	15.50	19.60	23.60	10.85	5.85	9.27	1.83	
PASADENA 055760002 A01	23	0.50	3.60	5.90	7.20	8.20	8.60	8.80	9.60	14.00	18.40	31.00	10.60	7.28	8.32	2.27	
RIVERSIDE 056400001 A01	25	1.30	3.20	4.60	5.70	8.20	12.10	15.40	19.40	25.20	27.90	33.20	13.96	9.89	10.12	2.48	
SACRAMENTO 056580001 A01	26	1.40	2.40	2.90	3.00	3.60	3.60	4.20	4.70	4.80	5.10	6.50	3.81	1.22	3.60	1.44	
SAN BERNARDINO 056680001 A01	23	2.30	4.80	6.30	10.10	11.20	13.20	13.70	16.50	22.80	33.90	38.80	15.44	10.13	12.40	2.04	
SAN DIEGO 056800001 A01	24	0.90	2.20	3.00	4.10	4.60	5.10	5.70	6.00	6.50	8.20	17.10	5.36	3.22	4.54	1.86	
SAN FRANCISCO 056860001 A01	25	0.70	1.00	1.10	1.20	1.40	2.00	2.40	3.50	3.90	5.10	11.20	2.76	2.34	2.12	2.05	
SANTA ANA 057190001 A01	26	1.60	4.80	6.10	7.60	8.50	8.80	9.60	11.60	12.10	13.80	24.50	9.53	4.54	8.47	1.70	
TORRANCE 058260001 A01	26	1.30	2.10	2.80	3.10	4.70	5.60	6.70	8.50	9.10	9.40	14.60	6.05	3.35	5.11	1.87	
COLORADO DENVER 060580001 A01	26	0.90	1.30	1.80	1.90	2.20	2.40	2.60	2.80	3.20	5.10	14.40	3.09	2.84	2.50	1.81	
CONNECTICUT BRIDGEPORT 070060001 A01	26	0.50	0.50	0.70	0.80	1.30	1.50	1.60	2.10	2.70	3.00	5.80	1.70	1.18	1.39	1.93	
HARTFORD 070470001 A01	26	0.20	0.20	0.50	0.50	0.70	0.70	1.00	1.80	1.90	3.10	3.70	1.23	1.03	0.88	2.37	
NEW HAVEN 070790001 A01	26	0.20	0.20	0.20	0.50	0.80	0.90	1.00	1.70	2.40	3.50	6.10	1.38	1.39	0.87	2.78	
WATERBURY 071240001 A01	25	0.20	0.30	0.70	0.90	1.30	1.70	1.80	2.30	3.90	4.60	7.40	2.24	1.96	1.52	2.62	
DELAWARE NEWARK 081400001 A01	25	0.10	0.30	0.70	1.10	1.60	1.90	2.10	2.30	2.50	3.20	5.30	1.91	1.25	1.41	2.58	

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
DELAWARE WILMINGTON 080260003 A01	25	0.40	0.60	1.20	1.60	2.00	2.30	2.40	3.20	3.50	4.00	6.70	2.46	1.41	2.03	2.02	
FLORIDA JACKSONVILLE 101960002 A01	25	0.90	1.00	1.20	1.70	2.00	2.20	2.30	2.70	3.00	3.60	4.00	2.24	0.90	2.05	1.56	
MIAMI 102700002 A01	25	0.60	1.00	1.10	1.30	1.40	1.50	2.00	2.40	2.50	3.00	5.90	1.95	1.11	1.72	1.66	
ST PETERSBURG 103980002 A01	24	0.30	1.30	1.60	1.80	2.00	2.10	2.50	2.50	2.70	3.00	5.30	2.23	0.97	2.00	1.72	
TAMPA 104360002 A01	26	1.30	1.50	2.00	2.00	2.30	2.40	2.70	3.10	3.30	6.30	7.50	3.01	1.70	2.67	1.62	
GEORGIA ATLANTA 110200001 A01	26	0.20	1.50	1.70	1.90	2.20	2.60	2.70	3.10	3.40	4.40	4.80	2.62	1.09	2.31	1.84	
COLUMBUS 111280001 A01	23	0.10	0.30	0.90	1.00	1.30	1.60	1.80	1.90	2.40	2.50	3.20	1.54	0.84	1.21	2.37	
SAVANNAH 114500001 A01	26	0.40	1.00	1.30	1.50	1.60	1.90	2.00	2.50	2.80	3.50	5.30	2.10	1.10	1.85	1.71	
HAWAII HONOLULU 120120001 A01	25	0.20	0.20	0.20	0.20	0.30	0.30	0.40	0.60	0.80	1.10	1.60	0.52	0.40	0.41	1.99	
IDAHO BOISE CITY 130220001 A01	23	0.30	0.50	0.60	0.70	1.00	1.10	1.30	1.50	1.70	2.70	4.30	1.34	0.93	1.09	1.93	
ILLINOIS CHICAGO 141220001 A01	26	0.0	0.20	0.90	1.00	1.70	2.40	3.50	4.10	4.40	5.60	6.60	2.65	1.98	1.45	4.65	
NORTH CHICAGO 145620002 A01	25	0.30	1.00	1.10	2.20	2.90	3.60	4.20	4.40	5.30	6.70	10.90	3.78	2.52	2.92	2.27	
PEORIA 146080001 A01	26	0.80	1.50	2.10	2.80	3.30	3.40	4.10	4.60	5.30	6.80	11.50	4.07	2.51	3.44	1.82	
ROCK ISLAND 146700001 A01	24	0.30	1.50	1.90	2.80	3.00	3.10	3.30	3.60	4.50	5.50	12.00	3.59	2.42	2.91	2.06	
SPRINGFIELD 147280001 A01	25	0.60	1.40	1.80	2.10	2.20	3.20	3.70	3.80	4.20	4.80	5.60	3.04	1.37	2.69	1.73	
INDIANA EAST CHICAGO 151180001 A01	26	1.00	1.40	1.70	2.40	3.80	3.90	4.70	5.30	7.10	7.40	11.60	4.40	2.60	3.64	1.93	
EVANSVILLE 151300001 A01	26	1.20	1.60	2.10	2.40	3.00	3.30	3.90	4.20	5.40	6.70	9.70	3.88	2.11	3.39	1.72	
FORT WAYNE 151380001 A01	24	0.70	1.60	2.20	2.90	3.30	3.80	4.20	5.80	6.20	10.10	17.10	5.06	4.10	3.88	2.12	
GARY 151520001 A01	23	0.70	1.80	3.00	3.20	4.50	5.00	5.10	6.60	7.60	8.30	10.60	5.19	2.70	4.37	1.94	
HAMMOND 151780001 A01	26	0.80	1.40	1.60	1.90	2.60	3.20	4.00	4.40	4.90	4.90	10.10	3.62	2.21	2.99	1.93	
INDIANAPOLIS 152040001 A01	25	0.80	1.30	2.30	2.80	2.90	3.60	3.90	4.40	5.00	6.40	9.40	3.86	2.06	3.31	1.83	
NEW ALBANY 152980002 A01	21	0.70	2.00	2.40	2.70	3.10	3.40	3.80	4.70	5.60	7.20	11.30	4.15	2.50	3.53	1.82	
SOUTH BEND 153880002 A01	22	0.60	1.10	1.30	1.80	3.10	3.60	3.70	4.00	5.00	5.70	10.00	3.53	2.18	2.88	2.01	
TERRE HAUTE 154080001 A01	26	0.60	0.80	1.30	1.40	2.00	2.40	2.90	4.00	4.40	5.10	6.30	2.75	1.62	2.27	1.93	
IOWA CEDAR RAPIDS 160640001 A01	23	0.0	0.0	0.80	1.50	2.40	2.80	2.80	3.10	3.60	4.10	8.30	2.64	2.06	1.37	5.53	
DAVENPORT 161060001 A01	25	1.90	2.30	2.90	3.30	4.10	5.30	5.70	7.70	8.20	10.70	25.60	6.40	4.97	5.21	1.87	
DES MOINES 161180001 A01	24	0.70	1.20	1.50	1.90	2.10	2.90	3.30	3.90	4.40	6.00	7.30	3.15	1.85	2.66	1.85	
KANSAS KANSAS CITY 171800002 A01	26	0.50	0.80	1.40	1.70	1.90	2.60	2.90	3.40	3.70	5.70	7.10	2.83	1.79	2.28	2.05	
TOPEKA 173560001 A01	26	0.70	1.00	1.40	2.10	2.30	2.60	3.10	4.40	4.90	7.80	9.10	3.49	2.41	2.77	2.03	

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
KANSAS WICHITA 173740001 A01	25	1.00	1.20	1.50	2.00	2.10	2.50	2.70	3.30	3.60	8.30	11.30	3.40	2.72	2.72	1.90	
KENTUCKY ASHLAND 180800002 A01	26	0.50	0.90	1.60	1.90	2.50	2.60	2.80	3.20	3.30	4.70	7.60	2.71	1.50	2.31	1.84	
BOWLING GREEN 180320001 A01	21	0.20	0.40	1.80	1.90	2.10	2.20	2.50	2.60	2.90	3.20	6.70	2.35	1.33	1.91	2.17	
COVINGTON 180800001 A01	25	0.50	1.70	2.00	2.50	2.70	2.80	3.00	3.60	3.90	4.30	7.70	3.02	1.38	2.72	1.67	
LEXINGTON 182300001 A01	25	0.20	0.60	0.80	1.30	1.60	2.10	2.20	2.70	4.10	4.50	8.60	2.44	1.86	1.80	2.36	
LOUISIANA BATON ROUGE 190280001 A01	26	0.10	0.90	1.20	1.20	1.70	2.00	2.60	2.70	3.10	4.50	6.60	2.36	1.51	1.85	2.29	
NEW ORLEANS 192020002 A01	26	1.90	2.00	2.10	2.40	3.10	3.50	3.80	4.20	4.30	5.70	13.80	3.85	2.37	3.42	1.59	
SHREVEPORT 192740001 A01	24	0.20	1.20	1.60	1.70	1.80	2.00	2.20	2.30	3.00	3.10	3.60	2.11	0.80	1.89	1.78	
MAINE PORTLAND 200960002 A01	26	0.10	0.20	0.30	0.50	0.50	0.70	1.10	2.00	2.20	2.60	3.10	1.17	0.98	0.77	2.75	
MARYLAND BALTIMORE 210120001 A01	25	0.80	2.10	2.40	2.60	2.70	2.90	3.20	3.70	4.10	6.60	13.60	3.71	2.49	3.21	1.64	
MASSACHUSETTS FALL RIVER 220580002 A01	24	0.20	0.40	0.80	1.10	1.10	1.30	2.00	2.30	3.10	4.20	6.30	1.99	1.57	1.44	2.39	
SPRINGFIELD 222160002 A01	25	0.30	0.30	0.40	0.50	0.60	1.00	1.00	1.30	2.00	2.80	3.30	1.18	0.92	0.88	2.20	
WORCHESTER 222640001 A01	23	0.20	0.60	0.80	0.90	1.10	1.80	2.10	2.70	2.80	3.30	4.00	1.81	1.12	1.43	2.16	
MICHIGAN DETROIT 231180001 A01	26	0.60	1.60	2.50	3.20	3.70	4.00	4.70	5.70	7.00	7.20	9.60	4.45	2.23	3.80	1.89	
FLINT 231580001 A01	25	0.60	1.10	1.30	1.90	2.00	2.40	2.60	3.30	3.80	4.50	6.30	2.67	1.45	2.30	1.79	
GRAND RAPIDS 231820001 A01	25	1.00	1.60	1.80	2.20	2.50	2.70	3.00	3.70	3.90	4.80	10.60	3.23	1.94	2.84	1.65	
LANSING 232840001 A01	26	0.30	0.70	1.10	1.40	1.90	3.00	3.40	4.30	4.50	6.50	7.90	3.09	2.11	2.30	2.39	
SAGINAW 234760001 A01	25	0.20	0.70	0.80	1.50	2.20	2.60	3.00	3.30	3.70	4.40	5.00	2.52	1.38	2.02	2.20	
TRENTON 235120001 A01	26	1.00	1.40	2.20	2.30	2.90	3.20	4.20	4.60	5.00	5.70	7.50	3.62	1.66	3.23	1.67	
MINNESOTA DULUTH 241040001 A01	26	0.30	0.50	0.60	0.90	1.00	1.20	1.30	1.90	2.10	3.00	6.70	1.65	1.41	1.25	2.12	
MINNEAPOLIS 242260001 A01	26	0.70	0.90	1.30	1.70	2.20	2.60	3.00	3.20	4.20	4.50	7.70	2.77	1.59	2.34	1.85	
MOORHEAD 242320001 A01	25	0.30	0.70	0.90	1.00	1.00	1.50	1.70	2.00	3.40	4.30	5.10	2.00	1.42	1.56	2.10	
ST PAUL 243300001 A01	26	0.40	0.50	1.10	1.40	1.70	1.80	2.90	3.30	3.70	5.80	6.40	2.57	1.78	1.96	2.23	
MISSOURI KANSAS CITY 262380002 A01	21	0.20	0.50	1.50	1.80	2.30	2.70	3.20	3.50	3.90	5.30	8.40	3.04	2.12	2.30	2.38	
NEBRASKA LINCOLN 281560002 A01	26	0.10	0.10	0.30	0.70	1.10	1.20	1.40	1.80	2.40	3.20	16.80	1.71	2.12	0.96	3.31	
OMAHA 281880001 A01	26	0.30	0.50	0.70	1.10	1.40	1.70	2.30	2.50	3.40	5.80	12.40	2.51	2.62	1.67	2.53	
NEW HAMPSHIRE CONCORD 300120001 A01	26	0.10	0.20	0.30	0.40	0.50	0.60	0.80	1.40	1.80	2.40	4.40	1.05	1.03	0.70	2.52	
NEW JERSEY BURLINGTON CO 310660002 A01	26	0.0	0.80	1.50	1.60	2.00	2.10	2.80	3.30	3.50	4.10	6.40	2.48	1.42	1.89	2.81	

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
NEW JERSEY CAMDEN 310720001 A01	26	0.10	0.20	1.20	1.30	2.10	2.40	2.70	3.60	4.10	4.80	6.20	2.56	1.74	1.73	3.03	
ELIZABETH 311300002 A01	25	0.0	0.0	0.20	1.00	1.00	1.40	2.10	2.60	3.70	5.30	5.90	2.09	1.87	0.97	5.48	
GLASSBORO 311700001 A01	26	0.0	0.0	0.50	0.60	1.10	1.20	1.80	3.00	4.20	5.30	7.30	2.17	2.13	0.84	6.77	
JERSEY CITY 312320001 A01	25	0.20	0.50	0.80	1.40	1.60	1.80	2.00	2.70	3.50	4.30	5.10	2.13	1.40	1.61	2.39	
NEWARK 313480001 A01	24	0.10	0.50	0.60	1.70	2.10	2.30	2.70	3.00	3.60	4.50	11.10	2.77	2.43	1.84	2.95	
PATERSON 314140001 A01	23	0.0	0.0	0.40	0.80	1.50	1.70	2.30	2.90	3.50	4.90	7.30	2.21	1.93	1.02	5.72	
PERTH AMBOY 314220001 A01	25	0.20	0.40	0.90	1.20	1.40	1.70	2.10	2.30	2.50	3.00	3.80	1.81	0.99	1.47	2.14	
TRENTON 315400001 A01	24	0.30	1.10	1.20	1.20	1.60	1.80	2.10	2.60	3.90	4.30	8.40	2.42	1.88	1.87	2.14	
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.20	0.60	1.00	1.20	1.30	1.30	1.50	1.80	2.00	2.20	2.90	1.44	0.63	1.26	1.83	
NEW YORK BUFFALO 330660001 A01	24	0.60	1.30	1.50	2.30	2.40	2.70	3.20	3.30	4.30	5.00	6.60	3.03	1.57	2.63	1.78	
NEW YORK CITY 334680001 A01	25	1.10	1.30	1.60	1.90	2.00	2.30	2.70	2.90	3.40	5.40	7.10	2.74	1.49	2.43	1.63	
NIAGARA FALLS 334740001 A01	26	0.20	0.60	1.40	1.60	2.00	2.40	2.60	3.10	3.50	4.20	6.60	2.53	1.54	2.02	2.17	
ROCHESTER 335760001 A01	26	0.90	1.40	2.00	2.10	2.40	3.10	4.10	5.60	5.90	6.30	9.10	3.74	2.10	3.19	1.81	
SYRACUSE 336620001 A01	25	0.60	1.20	2.00	2.30	2.40	2.70	3.00	3.30	3.50	4.40	5.10	2.82	1.16	2.55	1.65	
UTICA 336880001 A01	25	0.50	0.60	0.80	1.00	1.10	1.30	1.40	1.80	2.40	3.20	5.00	1.72	1.21	1.41	1.86	
YONKERS 337620001 A01	26	0.60	0.90	1.80	1.80	1.90	2.00	2.00	2.50	3.40	4.20	6.70	2.40	1.37	2.08	1.74	
NORTH CAROLINA CHARLOTTE 340700001 A01	26	0.10	0.70	0.80	1.10	1.20	1.30	1.70	2.20	2.60	3.00	3.80	1.67	0.99	1.35	2.16	
DURHAM 341160001 A01	24	0.20	0.70	0.80	1.20	1.40	1.50	1.60	2.10	2.30	2.40	2.90	1.57	0.70	1.38	1.82	
GREENSBORO 341740001 A01	26	0.0	0.10	0.60	0.80	1.00	1.50	1.90	2.70	2.90	3.30	3.70	1.63	1.17	0.95	4.15	
WINSTON-SALEM 344460002 A01	24	0.10	0.40	0.50	1.80	2.00	2.10	2.50	2.60	3.40	4.20	6.60	2.33	1.60	1.61	3.00	
NORTH DAKOTA BISMARCK 350100001 A01	26	0.30	0.40	0.60	0.60	0.70	0.70	0.80	1.00	1.60	1.90	3.00	1.00	0.65	0.84	1.79	
OHIO CANTON 361000001 A01	25	0.30	0.60	1.00	1.30	1.70	2.20	2.40	2.90	3.60	6.20	9.80	2.74	2.33	1.99	2.36	
CINCINNATI 361220001 A01	24	0.40	1.80	2.20	2.40	2.60	3.10	4.00	4.30	5.30	5.80	6.60	3.48	1.65	3.00	1.88	
CLEVELAND 361300001 A01	26	0.30	0.60	1.50	1.70	2.40	2.60	3.10	3.50	4.10	4.60	9.00	2.94	1.97	2.31	2.17	
COLUMBUS 361460001 A01	26	0.60	1.40	2.00	2.60	3.30	3.30	3.90	4.30	5.00	6.20	8.70	3.58	1.87	3.04	1.91	
DAYTON 361660001 A01	25	0.60	1.00	1.50	2.10	2.10	2.20	2.60	3.60	4.70	5.80	10.40	3.07	2.19	2.47	1.99	
TOLEDO 366600001 A01	25	0.40	1.00	1.60	2.20	2.30	3.00	4.00	5.30	5.40	6.50	8.10	3.56	2.14	2.84	2.12	
YOUNGSTOWN 367760001 A01	25	0.70	1.80	2.00	2.30	2.90	3.20	3.80	4.40	5.50	6.00	8.00	3.69	1.89	3.20	1.78	
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	0.90	1.10	1.50	1.90	1.90	2.20	2.30	3.20	3.80	4.40	8.90	2.70	1.73	2.31	1.74	
TULSA 373900001 A01	22	0.30	0.80	1.30	1.50	1.70	2.00	2.50	2.90	3.10	4.50	6.40	2.39	1.61	1.91	2.07	

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
OREGON PORTLAND 381460001 A01	22	1.40	1.90	2.40	2.50	2.80	3.80	4.70	5.20	5.90	10.00	13.00	4.81	3.32	3.94	1.90	
PENNSYLVANIA ALLENTOWN 390120001 A01	26	0.40	3.10	3.40	4.10	4.70	4.90	5.50	6.00	7.20	10.40	19.20	5.89	3.92	4.76	2.11	
ALTOONA 390140001 A01	25	1.40	2.60	2.80	4.00	4.30	5.30	6.60	8.50	9.30	9.70	23.00	6.62	4.72	5.36	1.95	
BETHLEHEM 390780002 A01	26	0.90	1.20	1.90	2.20	2.50	2.60	3.20	4.10	4.60	8.20	10.00	3.56	2.40	2.93	1.89	
ERIE 393060002 A01	26	0.20	0.60	0.90	1.20	1.70	2.20	2.50	2.90	3.70	4.70	5.10	2.31	1.48	1.77	2.28	
HARRISBURG 393880001 A01	26	1.10	1.50	1.80	2.00	2.40	2.80	3.50	4.10	4.70	6.30	10.80	3.50	2.21	2.99	1.76	
JOHNSTOWN 394460001 A01	23	1.10	1.70	2.00	2.50	3.00	3.10	3.50	3.60	4.80	5.60	7.80	3.49	1.71	3.12	1.63	
PHILADELPHIA 397140001 A01	24	0.70	2.30	2.60	3.00	3.10	3.30	3.80	4.10	4.90	5.40	6.40	3.63	1.32	3.35	1.57	
PITTSBURGH 397260001 A01	24	0.80	1.10	1.30	2.60	2.60	2.70	2.70	3.20	4.40	5.50	7.00	3.00	1.66	2.56	1.82	
READING 397620001 A01	26	0.60	0.90	1.50	2.00	2.40	2.70	3.90	4.10	4.80	5.50	16.70	3.56	3.15	2.72	2.12	
SCRANTON 398040001 A01	25	0.20	0.70	1.10	1.30	1.70	2.00	2.80	3.20	3.90	4.20	5.30	2.44	1.45	1.94	2.17	
WARPINSTER 399160001 A01	25	0.30	0.50	0.60	0.90	1.00	1.30	1.40	2.10	2.70	3.40	3.80	1.60	1.07	1.27	2.04	
WILKES-BARRE 399430001 A01	23	0.20	0.40	0.90	1.20	1.40	1.60	2.00	2.10	3.90	4.90	6.20	2.17	1.64	1.57	2.47	
YORK 399560001 A01	26	0.10	1.50	2.00	2.30	3.00	3.30	3.80	4.30	5.10	6.50	7.40	3.59	1.83	2.93	2.31	
PUERTO RICO BAYAMON 400380002 A01	26	0.10	0.90	1.10	1.20	1.30	1.40	1.50	1.70	2.10	2.30	2.40	1.47	0.55	1.31	1.83	
CATANO 400560002 A01	26	0.0	NO. OF SAMPLES (16) BELOW MIN. DET. EXCEEDS 50%										3.00				
GUAYANILLA 401090002 A01	25	0.30	0.50	0.70	0.80	0.90	1.10	1.20	1.40	1.60	2.30	2.60	1.19	0.61	1.04	1.73	
PONCE 401920002 A01	25	0.30	0.50	0.60	0.60	0.60	0.90	1.00	1.10	1.40	1.80	2.30	1.01	0.53	0.89	1.67	
SAN JUAN 402140001 A01	24	0.50	0.60	0.60	0.80	0.90	1.00	1.20	1.30	1.70	1.80	2.90	1.15	0.59	1.03	1.62	
RHODE ISLAND EAST PROVIDENCE 410120001 A01	24	0.30	0.50	0.60	0.80	1.00	1.10	1.30	1.50	1.70	2.30	3.60	1.29	0.83	1.07	1.90	
PROVIDENCE 410300001 A01	26	0.10	0.20	0.50	0.60	0.80	0.90	1.20	1.60	1.90	2.60	3.30	1.21	0.88	0.87	2.53	
SOUTH CAROLINA GREENVILLE 421190001 A01	26	0.0	0.20	0.50	0.60	1.50	1.80	2.70	3.00	3.20	3.60	5.10	1.96	1.48	1.17	3.74	
TENNESSEE CHATTANOOGA 440380001 A01	26	0.60	1.00	2.00	2.20	2.70	2.80	3.10	3.70	3.90	4.80	8.10	3.04	1.56	2.64	1.80	
MEMPHIS 442340001 A01	26	1.20	1.60	1.70	1.90	2.30	2.60	3.00	3.30	3.60	4.40	5.90	2.78	1.14	2.57	1.51	
NASHVILLE 442540001 A01	25	0.70	0.80	1.10	1.50	1.60	1.70	2.60	2.70	3.50	3.70	4.50	2.20	1.11	1.92	1.74	
TEXAS DALLAS 451310002 A01	26	1.40	1.50	1.80	1.80	2.10	2.30	2.60	2.80	3.30	3.80	5.10	2.55	0.95	2.39	1.43	
EL PASO 451700002 A01	26	0.80	1.00	1.30	1.40	1.80	1.80	2.10	2.10	2.30	3.30	7.00	2.13	1.40	1.86	1.63	
FORT WORTH 451840001 A01	26	1.20	1.30	1.70	1.80	2.00	2.00	2.40	2.60	3.10	3.70	8.00	2.50	1.36	2.26	1.52	
HOLSTON 457540001 A01	24	1.90	2.00	2.50	2.70	2.90	3.10	3.40	3.40	5.20	6.10	7.30	3.55	1.54	3.29	1.47	
PASADENA 454060002 A01	26	1.70	1.50	1.70	2.10	2.30	2.60	2.80	2.90	3.60	4.50	5.50	2.71	1.12	2.50	1.51	

Table 5-3 (continued). NITRATE, URBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
TEXAS SAN ANTONIO 454570001 A01	26	0.60	1.10	1.20	1.40	1.80	1.80	2.00	2.40	2.70	3.30	4.60	2.02	0.91	1.83	1.59
UTAH OGDEN 460680001 A01	26	0.50	0.70	1.40	1.60	1.80	1.80	2.00	2.20	3.90	5.20	8.20	2.48	1.88	1.96	2.02
SALT LAKE CITY 460920001 A01	25	0.60	1.10	1.20	1.70	2.00	2.30	2.50	2.80	3.10	3.40	4.30	2.31	0.95	2.10	1.61
VERMONT BURLINGTON 470140001 A01	23	0.30	0.40	0.50	0.60	0.90	1.00	1.20	1.40	1.90	2.10	4.70	1.30	1.07	0.99	2.11
VIRGINIA DANVILLE 480920001 A01	25	0.10	0.60	0.70	1.00	1.20	2.40	2.70	2.90	3.00	3.90	5.00	2.14	1.39	1.57	2.54
HAMPTON 481440001 A01	25	0.10	0.20	0.30	1.20	1.60	1.80	2.00	2.50	2.60	3.30	4.00	1.84	1.15	1.25	3.06
LYNCHBURG 481840001 A01	26	0.30	0.80	1.60	1.70	2.10	2.20	2.40	2.80	3.00	4.20	6.40	2.39	1.29	2.03	1.91
NEWPORT NEWS 482120001 A01	26	0.10	0.30	0.60	1.20	1.50	1.90	2.00	2.30	2.40	4.10	4.60	1.86	1.22	1.36	2.60
NORFOLK 482140001 A01	26	0.40	0.70	1.40	1.50	2.00	2.10	2.60	2.60	3.20	4.30	5.70	2.35	1.40	1.93	1.98
PORTSMOUTH 482440001 A01	26	0.60	1.00	1.10	1.80	2.40	2.50	3.00	3.40	3.80	4.50	5.70	2.65	1.41	2.25	1.89
RICHMOND 482660002 A01	24	0.20	0.50	0.70	1.40	1.60	1.90	2.10	2.10	2.30	3.10	3.40	1.74	0.89	1.43	2.10
ROANOKE 482700001 A01	25	0.60	1.00	1.30	1.60	1.80	2.20	2.50	2.80	2.90	3.40	4.90	2.24	1.00	2.01	1.64
WASHINGTON SEATTLE 491840001 A01	25	0.30	0.50	0.80	1.10	1.20	1.80	1.80	2.00	2.50	3.60	5.60	1.48	1.38	1.46	2.13
SPOKANE 492040001 A01	24	0.20	0.20	0.60	0.60	0.70	0.80	1.00	1.40	1.60	1.80	2.40	1.02	0.60	0.83	2.01
TACOMA 492140001 A01	26	0.30	0.40	0.70	1.00	1.30	1.90	2.60	3.00	3.30	3.90	4.10	2.04	1.31	1.54	2.32
WEST VIRGINIA CHARLESTON 500280001 A01	26	0.30	0.50	1.00	1.10	1.40	1.60	1.80	2.10	2.80	3.40	4.90	1.81	1.10	1.48	2.00
SOUTH CHARLESTON 501760001 A01	26	0.40	0.60	0.90	1.10	1.30	1.40	1.70	2.10	2.70	3.60	5.10	1.82	1.16	1.50	1.91
WISCONSIN EAU CLAIRE 510840002 A01	24	0.20	0.50	0.70	0.90	1.00	1.30	1.80	1.90	3.50	3.70	5.50	1.86	1.45	1.39	2.25
KENOSHA 511540001 A01	24	0.20	0.50	0.90	1.70	1.80	2.10	2.80	3.30	4.70	4.80	5.60	2.59	1.62	1.97	2.38
MADISON 511860001 A01	27	0.20	0.60	1.10	1.30	1.90	2.10	2.50	2.80	3.90	4.20	5.70	2.37	1.46	1.84	2.29
MILWAUKEE 512200001 A01	26	0.20	0.50	1.50	2.10	2.60	2.80	3.70	4.60	5.20	6.00	8.70	3.32	2.20	2.42	2.57
RACINE 512880001 A01	24	0.30	0.70	0.70	1.30	2.10	2.40	3.10	3.50	3.80	4.20	5.20	2.46	1.47	1.93	2.20
SUPERIOR 513480001 A01	24	0.30	0.40	0.50	0.60	0.70	0.80	1.10	1.80	2.50	3.10	3.20	1.35	1.02	1.00	2.21
WYOMING CASPER 520120001 A01	26	0.10	0.10	0.20	0.30	0.30	0.40	0.50	0.70	0.80	1.00	1.30	0.51	0.34	0.40	2.11
CHEYENNE 520140001 A01	23	0.0	0.10	0.20	0.40	0.40	0.60	0.80	0.90	1.10	1.40	3.30	0.76	0.73	0.48	3.07

Table 5-4. NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ARIZONA GRAND CANYON NAT P 030370001 A03	25	0.10	0.10	0.10	0.40	0.40	0.60	0.60	0.70	0.70	1.30	3.60	0.66	0.70	0.44	2.53	
ARKANSAS MONTGOMERY CO 041760001 A03	22	0.10	0.10	0.20	0.60	0.60	0.80	1.30	1.40	1.40	1.80	2.20	0.95	0.66	0.65	2.88	
CALIFORNIA MUMBLODT CO 053300001 A03	23	0.10	0.10	0.20	0.20	0.40	0.50	0.50	0.70	0.90	1.00	2.50	0.61	0.55	0.43	2.40	
COLORADO MESA VERDE NAT PAR 061930002 A03	25	0.10	0.30	0.30	0.40	0.50	0.50	0.60	0.80	1.00	1.30	1.40	0.65	0.40	0.52	2.05	
FLORIDA HARDEE CO 101680001 A03	26	0.0	0.50	0.60	0.80	1.00	1.10	1.20	1.30	1.50	1.70	1.80	1.06	0.47	0.88	2.33	
IDAHO BUTTE CO 130340001 A03	26	0.10	0.10	0.20	0.20	0.30	0.30	0.30	0.30	0.40	0.80	0.80	0.32	0.21	0.27	1.87	
INDIANA MONROE CO 152800001 A03	24	0.0	0.10	0.20	0.50	0.50	0.60	1.00	1.60	2.30	3.20	9.60	1.48	2.03	0.66	4.45	
PARKE CO 153260001 A03	25	0.10	0.30	0.40	0.80	1.00	1.30	1.50	1.50	1.60	2.40	2.80	1.22	0.74	0.95	2.28	
MAINE ACADIA NAT PARK 200010001 A03	26	0.0	0.30	0.60	0.70	1.20	1.20	1.30	1.70	2.00	2.50	4.90	1.40	1.05	0.99	2.88	
MISSOURI SHANNON CO 264480002 A03	25	0.10	0.20	0.50	0.70	0.70	0.70	0.80	1.10	1.40	2.10	2.60	0.96	0.65	0.74	2.32	
NEBRASKA THOMAS CO 282480001 A03	22	0.10	0.10	0.10	0.20	0.20	0.50	0.70	1.00	1.10	1.60	3.50	0.75	0.81	0.43	3.04	
NEVADA WHITE PINE CO 290560001 A03	24	0.0	0.0	0.10	0.20	0.20	0.40	0.50	0.50	0.60	0.70	1.40	0.40	0.32	0.26	3.10	
NEW HAMPSHIRE COOS CO 300140001 A03	25	0.10	0.20	0.40	0.40	0.60	0.70	0.80	0.90	1.10	1.60	2.10	0.76	0.48	0.62	2.01	
NEW YORK JEFFERSON CO 333340001 A03	26	0.10	0.50	0.60	0.70	1.00	1.10	1.50	1.80	3.10	3.60	4.50	1.60	1.23	1.16	2.48	
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	24	1.30	1.70	1.80	2.40	2.50	2.80	3.40	3.90	4.50	5.70	8.70	3.35	1.78	2.97	1.64	
OKLAHOMA CHEROKEE CO 370480001 A03	24	0.10	0.60	0.90	1.10	1.10	1.50	1.90	2.00	2.60	5.10	7.10	1.98	1.72	1.39	2.58	
OREGON CURRY CO 380440001 A03	24	0.0	0.10	0.10	0.30	0.40	0.50	0.60	0.70	0.80	1.30	2.30	0.58	0.52	0.36	3.20	
PENNSYLVANIA CLARION CO 391760001 A03	26	0.10	0.20	0.30	0.50	0.70	0.90	1.10	1.40	1.90	2.40	3.80	1.14	0.97	0.78	2.62	
RHODE ISLAND WASHINGTON CO 410380002 A03	24	0.0	0.20	0.50	0.70	1.00	1.10	1.10	1.10	1.90	2.20	3.40	1.19	0.84	0.85	2.82	
TENNESSEE CUMBERLAND CO 440680001 A03	22	0.10	0.70	1.20	1.50	1.80	1.80	2.20	2.80	3.90	4.20	7.10	2.34	1.63	1.76	2.46	
TEXAS MATAGORDA CO 453530001 A03	25	0.20	0.50	0.60	0.90	1.10	1.30	1.50	1.70	1.80	2.60	3.60	1.39	0.82	1.15	1.96	
TOM GREEN CO 455200001 A03	25	0.40	0.60	0.90	1.10	1.10	1.50	1.60	1.70	2.00	4.60	5.10	1.78	1.29	1.45	1.90	
VERMONT ORANGE CO 470360001 A03	26	0.10	0.10	0.20	0.20	0.40	0.50	0.90	1.00	1.10	1.40	1.90	0.71	0.53	0.50	2.55	
VIRGINIA SHENANDOAH NAT PAR 482890001 A03	25	0.0	0.0	0.10	0.20	0.40	0.60	0.90	1.10	1.30	1.60	1.70	0.72	0.57	0.40	3.96	
WYTHE CO 483440001 A03	26	0.10	0.10	0.40	0.60	0.90	1.00	1.10	1.70	1.80	2.10	3.00	1.13	0.77	0.81	2.61	

Table 5-4 (continued). NITRATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
WASHINGTON KING CO 490980002 A03	24	0.0	0.20	0.30	0.40	0.40	0.90	1.00	1.20	1.90	2.10	4.20	1.05	0.96	0.62	3.58	

**SECTION 6. URBAN AND NONURBAN NONMETALLIC INORGANIC IONS
IN SUSPENDED PARTICULATES: SULFATE**

Table 6-1. SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ALABAMA GADSDEN 011480001 A01	26	0.5	1.0	2.6	3.7	4.3	4.6	5.1	6.8	8.0	10.8	16.9	5.5	3.63	4.4	2.10	
HUNTSVILLE 011860001 A01	26	2.7	3.0	4.1	4.5	5.7	6.2	7.4	8.7	9.9	13.9	24.8	7.7	4.85	6.6	1.73	
MOBILE 012380001 A01	22	3.3	4.8	5.6	6.5	8.6	9.8	10.8	13.2	15.5	16.8	27.4	10.8	5.93	9.4	1.73	
MONTGOMERY 012460001 A01	26	2.1	3.2	4.7	5.1	5.7	5.8	8.3	10.0	11.9	14.0	29.1	8.3	5.53	7.0	1.80	
ALASKA ANCHORAGE 020040003 A01	25	1.0	1.0	1.2	1.4	1.4	1.5	1.7	1.9	2.4	2.8	3.2	1.8	0.69	1.7	1.44	
FAIRBANKS 020160001 A01	24	1.2	1.4	1.5	1.9	2.0	2.2	2.3	2.8	3.1	3.5	3.5	2.3	0.72	2.2	1.38	
ARIZONA PHOENIX 030400002 A01	26	1.1	1.7	2.0	2.6	3.8	4.0	5.1	6.7	8.7	10.5	13.3	5.2	3.38	4.2	2.81	
TUCSON 030840001 A01	26	1.9	2.8	5.1	5.6	6.4	7.1	7.5	9.1	10.5	14.1	14.4	7.8	3.68	6.9	1.71	
ARKANSAS LITTLE ROCK 041440001 A01	26	1.4	2.7	3.1	4.3	4.5	6.1	7.2	8.2	10.6	11.4	12.8	6.5	3.41	5.6	1.82	
TEXARKANA 042560001 A01	26	2.7	3.1	4.4	5.3	6.2	6.7	8.4	11.1	12.0	15.0	17.1	8.2	4.37	7.1	1.77	
CALIFORNIA ANAHEIM 050230001 A01	25	1.8	2.8	3.6	4.2	4.8	5.8	7.6	12.0	13.7	20.0	40.1	9.7	8.85	7.0	2.23	
BURBANK 050900001 A01	24	1.5	2.3	2.6	3.5	3.7	4.8	6.2	10.6	13.2	19.6	49.7	9.1	10.59	5.9	2.48	
FRESNO 052800001 A01	25	0.9	2.0	2.7	3.2	4.2	4.7	5.1	6.0	6.1	7.8	13.7	5.0	2.79	4.3	1.82	
GLENDALE 052940001 A01	26	1.6	3.0	3.2	5.2	8.0	8.4	11.3	15.0	16.2	18.7	42.7	11.2	8.98	8.4	2.24	
LONG BEACH 054100001 A01	24	3.5	5.0	7.4	9.4	9.9	12.5	15.5	17.1	20.1	24.0	41.8	14.4	8.67	12.3	1.80	
LOS ANGELES 054190001 A01	24	2.4	3.8	4.9	6.8	7.4	8.3	12.2	16.4	18.7	19.6	25.2	11.2	6.76	9.2	1.99	
OAKLAND 055300001 A01	26	1.6	1.7	3.4	4.4	5.0	5.3	5.9	7.9	11.7	15.4	21.8	7.4	5.57	5.8	2.06	
ONTARIO 055380001 A01	25	2.1	3.5	4.1	6.6	9.2	12.1	12.3	12.8	13.9	25.2	35.3	11.8	8.19	9.4	2.06	
RIVERSIDE 056400001 A01	26	1.8	4.1	8.5	9.0	11.0	11.8	14.0	16.8	19.7	23.3	28.2	13.1	6.74	11.1	1.92	
SACRAMENTO 056580001 A01	25	0.7	1.2	2.4	2.8	3.1	4.6	5.0	6.8	8.2	9.0	13.6	5.1	3.26	4.0	2.18	
SAN BERNARDINO 056680001 A01	26	1.1	7.3	7.7	8.0	9.9	11.7	15.3	18.5	21.5	30.3	31.7	14.5	8.48	11.7	2.12	
SAN DIEGO 056800001 A01	26	3.1	3.6	4.6	5.1	5.4	5.8	7.7	9.3	11.8	12.8	29.6	8.3	5.80	7.0	1.73	
SAN FRANCISCO 056860001 A01	25	2.4	3.1	3.8	4.7	4.8	5.6	6.0	6.2	8.7	13.8	17.0	6.7	3.90	5.9	1.66	
SAN JOSE 056980001 A01	26	0.9	1.7	2.0	2.5	3.1	3.3	3.3	4.0	4.7	5.7	7.6	3.4	1.59	3.1	1.66	
SANTA ANA 057180001 A01	26	3.3	3.9	4.8	5.1	5.7	6.1	8.6	11.5	12.9	22.0	26.6	9.8	6.95	8.0	1.87	
TORRANCE 058260001 A01	25	2.1	3.8	4.1	5.4	6.1	6.6	9.5	11.6	14.2	27.3	32.6	10.7	8.71	8.1	2.12	
COLORADO DENVER 060580001 A01	26	5.1	10.0	10.5	10.6	11.7	11.8	12.3	13.2	13.5	15.2	29.5	12.4	4.14	11.9	1.34	
CONNECTICUT BRIDGEPORT 070060001 A01	25	5.3	8.2	9.4	10.5	11.0	11.3	11.7	13.3	14.0	15.8	21.4	11.9	3.32	11.5	1.33	
HARTFORD 070420001 A01	25	6.7	8.0	9.2	10.2	10.9	11.4	11.6	14.6	15.2	16.0	20.4	12.1	3.30	11.7	1.31	
NEW HAVEN 070700001 A01	26	7.5	10.5	12.7	13.9	15.8	16.8	19.2	25.4	27.5	35.2	40.2	20.0	8.98	18.2	1.57	

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
CONNECTICUT WATERBURY 071240001 A01	26	6.8	9.5	10.4	10.6	11.9	12.9	13.7	15.5	16.2	19.6	24.5	13.6	4.21	13.1	1.35	
DELAWARE WILMINGTON 080260001 A01	23	10.0	11.4	12.7	14.3	15.9	17.5	19.0	19.7	26.1	28.2	42.0	19.2	7.79	17.9	1.45	
DIST COLUMBIA WASHINGTON 090020001 A01	26	6.2	7.5	10.2	11.4	12.8	13.1	13.8	14.8	16.1	19.8	33.9	13.9	5.46	13.1	1.43	
FLORIDA JACKSONVILLE 101960002 A01	24	4.8	5.9	7.2	11.4	12.0	12.1	13.1	15.9	21.2	21.8	26.7	13.6	6.04	12.3	1.61	
MIAMI 102700001 A01	26	2.2	5.3	9.2	10.6	11.2	12.4	12.9	15.4	17.3	20.7	21.9	12.7	5.28	11.4	1.69	
ST PETERSBURG 103980002 A01	26	2.2	2.8	4.5	6.0	6.4	6.8	7.9	9.9	10.4	11.1	14.0	7.4	3.16	6.7	1.65	
TAMPA 104360002 A01	26	2.8	5.5	6.4	6.9	7.6	9.2	10.8	12.9	13.7	15.2	16.7	9.8	3.96	9.0	1.58	
GEORGIA ATLANTA 110200001 A01	26	3.2	5.0	5.5	5.9	7.4	7.4	7.8	10.2	11.7	14.0	17.8	8.4	3.54	7.8	1.49	
COLUMBUS 111280001 A01	24	2.3	3.5	4.1	4.4	5.6	6.3	6.8	7.1	8.9	11.6	19.7	6.8	3.77	6.0	1.64	
SAVANNAH 114500001 A01	25	4.4	5.9	7.6	12.9	14.1	17.1	17.9	21.2	32.3	61.2	74.1	23.0	19.94	17.0	2.19	
HAWAII HONOLULU 120120001 A01	26	2.8	3.6	3.8	4.0	4.2	4.4	4.6	4.8	5.1	5.8	7.1	4.5	0.91	4.4	1.22	
IDAHO BOISE CITY 130220001 A01	25	1.5	1.6	1.6	1.8	1.9	2.3	2.6	2.8	4.0	4.6	10.8	2.9	1.97	2.5	1.63	
ILLINOIS CHICAGO 141220001 A01	26	8.4	10.1	12.2	13.1	14.1	15.8	17.4	20.1	24.0	30.7	44.9	18.8	9.12	17.0	1.54	
EAST ST LOUIS 142120001 A01	25	2.1	6.9	7.8	9.3	9.3	9.9	10.1	10.4	13.9	21.6	36.4	11.9	7.06	10.4	1.73	
JOLIET 143760001 A01	23	4.6	5.0	6.1	8.1	9.5	12.4	12.9	13.5	20.0	25.3	32.0	13.2	8.07	11.2	1.80	
NORTH CHICAGO 145620002 A01	26	3.5	4.7	6.0	6.7	8.4	10.4	12.8	16.9	18.1	20.8	47.4	12.9	9.31	10.5	1.90	
PEORIA 146080001 A01	26	3.4	8.1	9.9	11.9	14.0	15.3	16.4	20.0	21.2	23.6	25.5	15.5	5.91	14.3	1.55	
ROCKFORD 146680001 A01	24	2.6	4.6	5.5	6.9	7.0	7.6	8.8	10.0	12.3	14.7	40.8	10.0	7.63	8.4	1.75	
SPRINGFIELD 147280001 A01	25	1.8	3.4	5.5	6.4	7.6	8.3	9.8	10.3	12.5	13.0	26.5	9.4	5.33	8.1	1.78	
INDIANA EAST CHICAGO 151180001 A01	25	1.5	6.2	6.8	10.5	11.1	14.0	16.4	17.8	20.3	25.7	37.8	14.8	8.29	12.3	2.01	
EVANSVILLE 151300001 A01	26	3.6	5.0	6.9	8.9	9.9	10.4	11.6	12.4	17.6	21.6	30.4	12.4	6.87	10.9	1.70	
FORT WAYNE 151380001 A01	25	4.5	5.3	6.3	7.2	7.2	9.1	9.3	11.7	13.1	16.6	26.3	10.1	4.97	9.2	1.54	
GARY 151520001 A01	23	3.9	7.5	9.7	9.9	10.5	11.0	11.2	13.0	21.5	22.4	45.9	14.2	8.80	12.3	1.69	
HAMMOND 151780001 A01	25	3.3	5.5	8.1	9.2	10.0	14.1	15.4	16.0	18.0	32.6	49.1	15.6	10.81	12.7	1.94	
INDIANAPOLIS 152040001 A01	25	3.3	3.9	5.0	6.9	8.9	11.3	12.7	15.5	17.2	22.3	24.8	11.8	6.45	10.0	1.84	
NEW ALBANY 152980002 A01	23	2.2	4.7	6.0	7.0	11.2	12.6	13.2	15.6	19.0	21.8	30.7	12.7	7.17	10.6	1.95	
SOUTH BEND 153880002 A01	25	3.1	3.2	3.9	5.4	5.6	7.0	7.6	10.8	14.6	19.8	26.4	9.4	6.41	7.6	1.90	
TERRE HAUTE 154080001 A01	23	5.1	5.8	7.1	8.7	9.0	10.9	12.2	12.5	15.8	18.1	34.4	11.9	6.29	10.7	1.57	
IOWA DAVENPORT 161060001 A01	26	2.2	2.7	4.1	4.6	6.5	10.3	12.9	15.7	17.7	26.5	44.4	12.2	10.18	8.8	2.33	

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC				GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.		
IOWA DES MOINES 161180001 A01	25	0.9	1.8	3.4	3.9	5.4	6.7	7.3	8.6	9.2	10.6	20.9	6.8	4.24	5.5	2.07		
DUBUQUE 161260001 A01	24	2.9	3.7	5.6	7.7	8.8	9.9	10.6	11.4	14.4	15.5	56.6	11.4	10.38	9.2	1.88		
KANSAS KANSAS CITY 171800002 A01	25	2.4	2.9	3.4	4.7	4.8	5.9	6.5	9.5	10.9	14.8	16.7	7.3	4.24	6.3	1.78		
TOPEKA 173560001 A01	26	0.6	1.2	1.7	1.7	2.6	3.0	3.9	5.1	7.5	10.9	17.8	4.6	4.04	3.3	2.28		
WICHITA 173740001 A01	26	1.3	1.8	2.3	2.5	3.0	3.2	4.7	5.1	6.7	8.4	9.2	4.3	2.47	3.7	1.77		
KENTUCKY ASHLAND 180080002 A01	24	4.4	5.4	6.5	9.2	11.9	14.1	21.1	23.4	34.4	48.3	87.4	22.1	19.56	16.0	2.27		
COVINGTON 180800001 A01	26	3.4	4.2	5.0	5.6	6.8	9.0	10.1	14.2	15.3	21.2	23.6	10.3	5.91	8.8	1.78		
LOUISVILLE 182380001 A01	25	3.5	4.2	6.1	7.2	7.7	10.3	11.5	12.7	18.0	20.6	37.9	12.2	8.21	10.1	1.84		
LOUISIANA BATON ROUGE 190280001 A01	22	2.7	3.2	3.8	4.4	4.8	6.0	7.0	8.0	9.2	11.8	16.6	6.9	3.89	6.0	1.67		
NEW ORLEANS 192020002 A01	25	3.2	4.3	4.7	5.0	5.1	6.2	6.7	9.7	10.6	13.5	14.8	7.5	3.45	6.8	1.56		
SHREVEPORT 192740001 A01	25	1.8	3.2	3.4	4.1	4.4	5.9	6.4	7.6	8.2	11.5	14.8	6.3	3.35	5.5	1.72		
MARYLAND BALTIMORE 210120001 A01	23	2.0	3.8	8.6	9.6	11.9	13.2	14.9	18.6	20.3	20.5	36.8	13.9	7.85	11.5	2.01		
MASSACHUSETTS BOSTON 220240001 A01	24	6.8	9.1	11.4	11.7	12.3	14.7	16.5	17.1	19.4	25.5	26.8	15.3	5.50	14.4	1.43		
FALL RIVER 220580002 A01	25	6.1	7.3	7.8	8.9	10.3	11.8	13.5	15.3	17.0	18.6	21.3	12.4	4.46	11.6	1.45		
SPRINGFIELD 222160001 A01	26	0.9	5.9	6.6	7.4	8.2	8.5	9.4	10.1	10.3	12.2	12.7	8.5	2.80	7.7	1.72		
WORCHESTER 222640001 A01	26	1.3	6.9	9.8	10.3	10.9	11.2	11.6	12.3	14.6	21.0	46.4	13.0	8.08	11.2	1.81		
MICHIGAN DEARBORN 231140001 A01	25	4.3	5.0	5.8	7.3	8.4	11.3	15.6	16.6	17.2	21.4	30.8	13.1	7.31	11.2	1.78		
DETROIT 231180001 A01	25	3.7	4.9	5.3	7.6	8.3	11.2	13.9	16.0	18.4	26.6	29.4	12.9	7.57	10.9	1.85		
FLINT 231580001 A01	23	5.0	7.4	8.5	9.2	11.1	12.2	13.9	14.3	15.6	19.6	24.3	12.6	4.85	11.7	1.49		
GRAND RAPIDS 231820001 A01	26	6.0	7.0	8.2	10.2	12.0	12.6	14.0	16.2	17.2	29.3	47.4	15.3	9.27	13.3	1.67		
LANSING 232840001 A01	26	0.0	2.7	4.2	4.8	5.0	6.9	8.8	11.7	12.9	13.8	23.1	8.5	5.30	6.6	2.43		
SAGINAW 234760001 A01	26	3.0	3.4	4.8	5.8	6.3	6.7	7.3	10.8	11.9	17.1	23.3	8.5	4.95	7.3	1.71		
TRENTON 235120001 A01	23	1.4	5.0	6.3	7.8	9.0	9.7	10.7	11.5	15.2	17.5	25.9	10.9	6.06	9.2	1.93		
MINNESOTA DULUTH 241040001 A01	25	2.3	3.1	3.5	3.7	4.3	4.9	5.2	5.5	8.2	11.0	28.0	6.4	5.29	5.4	1.74		
MINNEAPOLIS 242260001 A01	25	0.7	2.0	2.6	3.6	4.0	5.6	7.1	9.8	10.2	12.7	16.6	6.7	4.29	5.2	2.17		
MOORHEAD 242320001 A01	25	1.9	2.2	2.9	3.6	4.1	4.8	5.3	5.7	7.5	10.6	15.2	5.6	3.39	4.8	1.75		
ST PAUL 243300001 A01	25	2.3	3.0	3.7	4.0	4.8	6.4	7.6	8.7	11.2	16.1	16.6	7.5	4.45	6.4	1.81		
MISSOURI KANSAS CITY 262380002 A01	24	0.0	1.9	2.5	3.9	5.8	7.6	8.3	9.9	10.8	13.0	18.6	7.4	4.86	5.5	2.60		
ST LOUIS 264280001 A01	23	7.4	10.0	15.0	16.3	19.6	20.9	24.5	26.0	29.8	35.4	49.6	23.1	11.10	20.7	1.84		

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
MONTANA HELENA 270720001 A01	24	1.0	1.4	1.7	2.9	3.1	3.7	4.6	5.4	6.0	13.9	26.0	5.4	5.63	3.9	2.21	
NEBRASKA OMAHA 281880001 A01	26	1.9	2.2	3.3	3.6	4.8	6.3	7.1	8.8	9.7	12.1	24.7	7.4	5.63	5.8	2.00	
NEVADA LAS VEGAS 290320001 A01	22	1.1	2.2	3.0	3.2	3.5	3.9	4.3	4.5	5.1	6.4	10.1	4.3	2.21	3.8	1.67	
RENO 290480001 A01	26	1.6	1.9	2.3	2.5	2.9	3.2	3.9	4.6	5.0	5.6	7.6	3.7	1.58	3.4	1.53	
NEW HAMPSHIRE CONCORD 300120001 A01	24	2.6	3.5	4.3	4.6	4.8	5.4	6.5	6.8	8.4	9.1	16.7	6.5	3.36	5.9	1.55	
NEW JERSEY BURLINGTON CO 310660002 A01	26	5.5	6.5	8.1	9.0	12.2	12.6	13.6	14.7	15.2	17.9	32.0	13.2	6.12	12.0	1.54	
CAMDEN 310720001 A01	24	7.8	14.6	15.3	17.5	18.1	19.0	22.0	23.0	28.0	34.1	41.4	22.0	8.18	20.6	1.45	
ELIZABETH 311300001 A01	25	4.2	5.9	7.1	8.4	9.1	11.0	11.7	12.6	15.1	16.9	28.4	11.5	5.24	10.5	1.55	
GLASSBORO 311700001 A01	25	2.3	5.2	7.1	8.5	8.9	10.1	11.9	15.1	21.6	28.0	29.9	13.4	8.13	11.2	1.89	
HAMILTON 311940001 A01	23	3.9	6.4	7.1	7.6	8.2	8.5	9.0	10.3	13.3	16.7	19.2	9.9	3.94	9.2	1.47	
JERSEY CITY 312320001 A01	26	4.6	5.4	8.1	9.7	10.3	11.3	13.3	14.0	15.4	17.2	25.3	12.1	4.96	11.1	1.54	
NEWARK 313480001 A01	25	5.7	6.4	7.7	8.8	9.0	9.4	11.3	12.2	14.1	15.9	26.8	11.2	4.68	10.5	1.44	
PATERSON 314140001 A01	25	6.2	9.3	9.4	10.9	11.1	11.7	12.9	13.9	15.5	16.7	22.8	12.7	3.69	12.2	1.33	
PERTH AMBOY 314220001 A01	24	4.7	5.5	7.3	10.4	11.2	12.1	15.8	16.2	19.6	19.7	26.4	13.3	5.61	12.1	1.59	
TRENTON 315400001 A01	24	4.7	5.2	6.2	7.5	8.4	8.6	9.5	13.7	18.4	25.0	41.6	12.8	9.63	10.5	1.83	
NEW MEXICO ALBUQUERQUE 320040001 A01	26	3.0	3.8	4.7	4.9	5.2	5.4	7.0	7.5	7.9	8.3	9.7	6.1	1.83	5.8	1.36	
NEW YORK ALBANY 330040001 A01	25	3.5	4.0	4.2	6.6	8.4	9.6	10.0	11.4	11.7	15.4	19.3	9.4	4.42	8.4	1.67	
BUFFALO 330660001 A01	24	5.9	6.5	7.6	8.1	10.2	10.7	12.5	14.0	15.6	16.1	19.3	11.4	3.87	10.7	1.43	
NEW YORK CITY 334680001 A01	24	5.0	5.8	8.3	11.3	11.8	15.1	17.1	21.3	33.4	39.3	57.2	19.1	13.53	15.3	1.98	
NIAGARA FALLS 334740001 A01	26	4.2	5.1	6.0	7.8	11.0	11.5	12.2	15.0	16.0	16.1	46.4	12.5	8.13	10.8	1.70	
ROCHESTER 335760001 A01	25	5.2	6.6	7.4	9.2	9.3	11.2	14.2	15.8	17.7	22.1	55.3	14.1	10.04	12.1	1.70	
SYRACUSE 336620001 A01	25	1.0	6.4	7.5	12.0	13.6	15.7	16.9	18.4	21.8	32.3	35.4	16.3	6.75	13.5	2.09	
UTICA 336880001 A01	26	1.6	2.8	3.7	4.4	6.1	6.7	6.9	7.6	9.5	16.8	21.3	7.7	5.16	6.3	1.92	
NORTH CAROLINA CHARLOTTE 340700001 A01	24	3.7	5.8	7.4	8.8	9.0	9.2	10.5	11.5	13.2	15.3	18.4	10.2	3.62	9.6	1.45	
DURHAM 341160001 A01	26	1.8	3.1	3.9	4.1	5.4	5.9	6.9	8.3	8.5	10.8	12.6	6.4	2.95	5.8	1.64	
GREENSBORO 341740001 A01	24	5.4	6.4	7.7	8.5	8.6	9.1	10.7	12.0	13.4	14.3	18.5	10.2	3.16	9.7	1.36	
WINSTON-SALEM 344460002 A01	25	3.0	4.2	5.4	6.6	7.7	8.0	8.9	11.6	12.4	15.1	18.3	9.1	4.08	8.2	1.62	
NORTH DAKOTA BISMARCK 350100001 A01	25	0.0	0.5	1.0	2.0	2.2	2.6	3.1	3.9	4.7	10.1	12.3	3.8	3.44	2.4	2.89	
OHIO CANTON 361000001 A01	26	3.9	4.8	6.9	7.1	8.7	9.6	11.6	13.2	15.7	26.9	29.4	11.9	7.16	10.1	1.76	

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
OHIO CINCINNATI 361220001 A01	26	3.3	5.4	9.2	11.3	11.9	12.3	13.6	16.9	18.2	23.3	60.4	15.1	10.97	12.7	1.80	
CLEVELAND 361300001 A01	25	5.4	6.8	9.0	11.1	14.0	15.2	16.4	19.0	20.7	26.7	32.5	15.9	7.29	14.3	1.63	
COLUMBUS 361460001 A01	25	3.2	5.1	8.7	10.9	12.1	13.2	13.4	18.8	20.3	24.0	31.5	14.4	7.18	12.5	1.78	
DAYTON 361660001 A01	25	3.5	10.4	11.3	12.1	12.6	14.5	15.3	17.4	18.3	23.7	34.8	15.6	6.29	14.3	1.99	
TOLEDO 366600001 A01	26	2.9	4.5	5.4	6.8	8.4	9.6	11.0	12.3	13.3	16.4	25.4	10.2	5.32	8.9	1.71	
YOUNGSTOWN 367760001 A01	26	2.9	4.5	7.6	7.8	10.1	10.4	10.8	13.9	14.1	21.0	25.3	11.8	6.00	10.4	1.71	
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	0.0	1.1	1.3	2.5	3.2	5.0	5.5	6.7	7.2	8.5	12.6	4.7	3.14	3.4	2.80	
TULSA 373000001 A01	26	2.0	5.0	5.8	7.8	9.2	9.8	10.8	12.1	13.0	16.1	42.5	11.1	7.47	9.5	1.78	
OREGON MEDFORD 381160001 A01	23	0.0	1.6	2.1	2.3	2.4	2.6	2.9	3.4	4.1	4.7	7.0	3.0	1.42	2.6	1.89	
PORTLAND 381460001 A01	25	2.0	2.6	3.6	5.0	6.1	6.4	7.7	8.2	9.3	12.3	16.8	7.2	3.86	6.2	1.76	
PENNSYLVANIA ALLENTOWN 390120001 A01	25	3.2	8.3	10.3	11.7	12.9	15.0	17.8	22.7	24.8	26.6	28.4	16.8	7.22	15.1	1.67	
ALTOONA 390140001 A01	23	1.7	3.1	4.3	5.2	9.3	11.4	13.0	13.7	14.8	16.7	17.2	10.2	5.21	8.4	2.06	
BETHLEHEM 390780002 A01	25	0.0	0.5	1.2	7.8	9.2	12.2	12.7	14.8	16.9	21.3	27.5	11.2	7.80	6.3	4.33	
ERIE 393060002 A01	25	6.2	8.4	9.9	11.6	12.8	13.8	16.1	18.2	19.6	27.1	30.6	15.6	6.56	14.3	1.52	
HARRISBURG 393880001 A01	24	4.8	7.4	8.0	8.9	9.3	9.5	10.4	11.1	12.0	12.7	17.6	10.2	2.86	9.9	1.32	
HAZLETON 393960001 A01	23	2.6	3.6	4.7	5.3	6.2	9.2	10.3	10.6	12.3	16.7	30.4	9.9	7.47	8.1	1.86	
JOHNSTOWN 394460001 A01	24	2.3	3.6	4.6	14.2	14.9	15.1	17.8	20.1	22.3	22.9	26.1	15.3	6.88	13.0	1.98	
PUERTO RICO GUAYANILLA 401080002 A01	23	0.0	0.7	1.3	1.8	3.3	3.7	4.1	4.3	4.7	6.0	8.3	3.5	2.13	2.6	2.61	
PONCE 401920002 A01	23	0.0	0.5	2.2	3.1	3.7	3.9	4.8	4.6	5.1	5.5	7.0	3.6	1.82	2.7	2.62	
SAN JUAN 402140001 A01	24	1.1	2.0	2.6	2.8	3.1	3.3	3.8	4.2	4.2	4.5	7.2	3.5	1.20	3.2	1.46	
RHODE ISLAND EAST PROVIDENCE 410120001 A01	25	9.9	11.5	12.1	12.7	13.4	14.9	16.4	17.1	17.6	18.7	27.1	15.5	3.93	15.1	1.27	
PROVIDENCE 410300001 A01	26	3.5	6.8	8.6	9.8	11.4	11.8	12.9	14.4	15.3	16.0	21.4	11.9	4.06	11.1	1.49	
SOUTH CAROLINA COLUMBIA 420760001 A01	22	1.0	2.5	3.3	4.2	4.4	4.8	5.0	5.2	6.5	7.2	12.7	5.0	2.38	4.5	1.67	
GREENVILLE 421180001 A01	25	8.7	10.9	11.6	12.8	13.1	16.0	14.1	15.0	16.6	17.0	18.2	13.9	2.52	13.7	1.21	
TENNESSEE CHATTANOOGA 440380001 A01	26	2.0	11.2	11.3	12.1	12.5	12.9	14.2	15.4	16.1	21.1	23.7	13.9	4.38	13.0	1.56	
KNOXVILLE 441740001 A01	24	5.3	5.9	6.2	7.7	8.1	9.5	10.8	11.0	14.9	16.7	17.3	10.0	3.85	9.4	1.46	
MEMPHIS 442340001 A01	26	2.9	3.4	4.1	4.7	5.1	5.4	6.2	7.2	8.6	11.2	12.0	6.4	2.79	5.8	1.53	
NASHVILLE 442340001 A01	25	3.8	5.5	6.4	7.6	8.7	9.5	11.2	13.2	16.6	21.0	26.3	11.6	5.92	10.2	1.66	
TEXAS DALLAS 451310002 A01	25	1.6	2.1	2.9	3.4	3.6	3.9	4.4	6.2	6.7	8.4	11.0	4.8	2.42	4.3	1.65	

Table 6-1 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS																	
FORT WORTH 451880001 A01	25	2.4	2.7	3.1	3.6	3.9	4.6	5.0	5.7	7.7	11.2	14.9	5.6	3.33	4.9	1.66	
HOUSTON 452540001 A01	25	2.3	3.0	3.7	4.5	5.8	9.0	10.4	12.4	13.3	15.8	23.0	9.1	5.35	7.5	1.92	
PASADENA 454060002 A01	24	3.9	4.2	4.8	6.4	6.6	7.4	8.4	10.3	15.2	20.1	25.6	9.7	6.11	8.3	1.74	
SAN ANTONIO 454570001 A01	26	1.9	3.1	3.6	3.6	4.1	4.4	5.5	6.1	6.7	7.1	8.8	5.0	1.72	4.7	1.44	
UTAH																	
OGDEN 440680001 A01	24	2.8	3.3	3.6	3.7	4.5	4.7	5.6	6.3	6.9	7.9	18.4	5.7	3.22	5.2	1.53	
SALT LAKE CITY 440920001 A01	26	2.6	2.9	3.2	3.4	4.1	4.6	5.4	6.3	9.4	16.1	34.2	7.0	6.75	5.5	1.90	
VERMONT																	
BURLINGTON 470140001 A01	23	4.9	8.2	8.5	9.1	9.7	10.1	10.9	11.4	12.6	14.4	23.2	10.9	3.74	10.4	1.37	
VIRGINIA																	
DANVILLE 480920001 A01	25	3.6	4.9	5.5	7.8	9.6	11.3	12.3	13.8	14.8	18.1	19.7	11.0	4.73	9.9	1.63	
HAMPTON 481440001 A01	26	3.3	4.2	5.2	6.0	6.4	7.7	8.4	9.2	10.3	13.3	17.7	8.1	3.47	7.4	1.52	
LYNCHBURG 481840001 A01	25	4.6	5.2	5.6	7.1	7.5	7.8	8.7	9.5	12.1	18.2	20.0	9.3	4.44	8.5	1.52	
NEWPORT NEWS 482120001 A01	24	6.1	9.3	9.5	10.6	11.4	11.9	13.4	16.2	16.7	19.0	22.0	13.2	4.13	12.6	1.38	
NORFOLK 482140001 A01	26	4.2	7.3	9.4	9.8	10.8	11.3	12.3	13.6	16.4	26.5	55.2	14.8	11.10	12.5	1.73	
PORTSMOUTH 482440001 A01	26	4.8	6.7	8.9	10.4	10.8	12.5	16.2	20.7	23.1	25.7	27.7	15.1	7.21	13.5	1.67	
RICHMOND 482660001 A01	25	5.0	6.4	7.3	7.8	8.4	9.3	9.7	12.0	12.4	14.7	20.8	10.3	3.80	9.7	1.43	
ROANOKE 482700001 A01	26	9.6	10.6	11.8	12.5	13.6	14.3	17.2	19.0	22.0	23.8	25.4	16.2	5.04	15.5	1.36	
WASHINGTON																	
SEATTLE 491840001 A01	26	2.9	3.4	3.7	3.8	4.3	4.7	5.1	5.7	6.1	8.1	15.1	5.5	2.93	5.1	1.50	
SPOKANE 492040001 A01	25	1.4	1.4	2.0	2.3	2.9	3.6	3.9	4.7	5.1	5.8	6.6	3.6	1.56	3.3	1.61	
TACOMA 492140001 A01	25	2.6	5.1	7.1	7.9	8.7	9.2	9.9	10.6	10.8	13.4	16.1	9.3	3.09	8.7	1.49	
WEST VIRGINIA																	
CHARLESTON 500280001 A01	25	4.9	8.4	8.6	9.3	13.7	16.5	28.5	34.2	38.7	57.5	73.3	25.8	19.74	19.4	2.18	
WISCONSIN																	
EAU CLAIRE 510840002 A01	23	1.2	3.0	3.1	3.5	4.1	6.1	8.0	9.7	10.8	13.1	14.3	7.1	4.13	5.9	1.95	
KENOSHA 511340001 A01	26	2.1	4.1	5.4	6.1	7.0	7.4	8.4	12.0	12.7	18.0	47.7	10.5	9.09	8.4	1.90	
MADISON 511840001 A01	25	2.9	3.6	4.5	5.7	5.9	7.1	7.8	8.6	11.7	15.5	49.5	9.5	9.16	7.6	1.85	
MILWAUKEE 512200001 A01	26	3.4	4.4	5.0	5.9	6.9	7.3	10.1	12.0	13.2	20.4	24.1	9.9	5.82	8.5	1.73	
RACINE 512800001 A01	24	2.8	3.5	4.9	6.4	7.3	7.6	8.1	10.4	11.2	14.3	24.1	8.7	4.71	7.6	1.68	
SUPERIOR 513480001 A01	26	2.7	3.6	4.2	4.4	5.3	5.6	6.5	7.2	8.8	12.6	15.8	6.9	3.55	6.2	1.60	
WYOMING																	
CASPER 520120001 A01	25	2.6	2.6	3.4	4.2	4.7	5.2	5.7	6.5	7.1	7.9	12.7	5.5	2.31	5.1	1.51	
CHEYENNE 520140001 A01	25	6.1	6.2	6.3	7.1	7.6	7.8	8.0	8.7	9.4	9.8	10.0	7.9	1.30	7.8	1.18	

Table 6-2. SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ARIZONA GRAND CANYON NAT P 030370001 A03	24	1.3	2.0	2.0	2.1	2.3	3.2	3.5	4.5	4.6	5.3	6.7	3.3	1.45	3.0	1.56	
ARKANSAS MONTGOMERY CO 041760001 A03	24	3.1	4.0	4.8	5.8	5.9	6.0	6.5	8.6	9.8	11.6	13.0	7.1	2.76	6.6	1.48	
CALIFORNIA HUMBOLDT CO 053300001 A03	26	1.6	2.5	2.9	3.2	3.8	4.1	4.5	5.6	6.3	8.1	15.3	4.9	2.80	4.3	1.62	
COLORADO MESA VERDE NAT PAR 061530002 A03	26	0.7	1.1	1.3	1.3	1.4	1.4	1.5	1.7	2.2	3.1	4.0	1.8	0.80	1.6	1.49	
FLORIDA HARDEE CO 101680001 A03	24	1.4	1.7	1.9	2.4	2.7	3.0	3.7	4.2	5.4	7.1	10.7	3.9	2.38	3.3	1.74	
IDAHO BUTTE CO 130340001 A03	24	0.0	0.9	0.9	1.3	1.5	1.6	2.0	2.2	2.4	3.0	7.0	2.0	1.49	1.6	2.13	
INDIANA MONROE CO 152800001 A03	24	3.5	3.8	4.1	5.3	5.7	7.4	8.9	9.5	10.8	12.7	18.3	7.9	3.81	7.1	1.61	
PARKE CO 153260001 A03	23	2.9	4.4	5.0	5.6	6.9	7.4	8.4	8.7	10.6	15.2	27.6	8.6	5.37	7.5	1.67	
MAINE ACADIA NAT PARK 200010001 A03	26	1.2	1.9	2.6	2.8	3.2	3.3	4.4	6.1	6.7	9.4	15.3	4.9	3.42	4.1	1.86	
MARYLAND CALVERT CO 210280001 A03	25	1.1	1.4	5.1	5.4	6.4	7.9	8.3	12.6	14.3	18.9	37.2	9.8	7.90	7.1	2.44	
MISSOURI SHANNON CO 264480002 A03	24	1.1	2.3	2.7	3.1	4.1	4.5	5.6	6.3	10.2	13.4	33.2	6.6	6.63	5.0	2.08	
MONTANA GLACIER NAT PARK 270570001 A03	26	0.5	0.7	0.9	1.1	1.1	1.2	1.6	1.8	2.0	3.4	5.8	1.7	1.36	1.4	1.83	
NEBRASKA THOMAS CO 282480001 A03	25	1.4	1.8	2.6	3.8	4.7	5.1	5.8	6.0	6.4	7.7	9.1	4.9	2.05	4.4	1.67	
NEVADA WHITE PINE CO 290560001 A03	23	0.0	0.8	0.8	1.5	1.5	2.0	2.5	3.1	3.6	4.7	5.6	2.3	1.56	1.8	2.34	
NEW HAMPSHIRE COOS CO 300140001 A03	22	1.2	1.8	1.9	2.5	2.5	2.8	3.5	3.8	4.3	4.9	10.0	3.4	1.84	3.0	1.60	
NEW YORK JEFFERSON CO 333340001 A03	25	2.4	3.2	3.7	4.3	5.6	6.7	7.9	8.6	10.6	22.5	25.8	9.1	6.95	7.2	1.97	
NORTH CAROLINA CAPE HATTERAS NAT 340990001 A03	23	1.9	3.4	3.9	4.3	5.3	7.4	8.0	9.8	12.9	17.1	18.0	8.1	4.84	6.6	1.85	
OKLAHOMA CHEROKEE CO 370480001 A03	26	1.8	2.2	3.0	3.7	4.2	4.3	5.1	6.3	8.3	11.1	13.2	5.6	3.28	4.8	1.76	
OREGON CURRY CO 380440001 A03	25	1.4	1.6	1.7	1.9	2.2	2.3	2.6	3.1	3.5	5.4	5.6	2.8	1.31	2.5	1.54	
PENNSYLVANIA CLARION CO 391760001 A03	26	3.7	4.0	4.8	5.2	6.2	8.1	8.9	10.7	11.9	13.8	31.1	9.1	5.80	7.8	1.70	
RHODE ISLAND WASHINGTON CO 410380002 A03	27	3.8	4.8	5.6	7.1	8.3	8.5	8.8	9.6	11.0	16.7	19.7	9.1	4.05	8.4	1.51	
SOUTH CAROLINA RICHLAND CO 421900001 A03	25	3.6	5.0	6.0	6.4	6.6	7.4	7.5	8.6	8.9	12.4	16.4	7.8	2.89	7.4	1.40	
SOUTH DAKOTA BLACK HILLS NAT FO 430110001 A03	26	0.8	0.8	1.3	1.6	1.6	1.6	1.8	2.1	2.5	2.7	4.1	1.9	0.75	1.7	1.50	
TENNESSEE CUMBERLAND CO 440600001 A03	23	2.9	3.6	3.9	4.3	4.8	5.2	6.1	7.4	9.5	13.3	16.4	6.8	3.69	6.1	1.63	

Table 6-2 (continued). SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1969
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
TEXAS MATAGORDA CO 453530001 A03	24	6.1	6.7	7.2	8.2	9.0	9.2	10.0	10.8	12.4	13.5	16.9	9.8	2.81	9.5	1.32	
VERMONT ORANGE CO 470360001 A03	24	1.7	2.7	3.4	3.5	3.8	4.3	4.9	7.1	8.3	10.7	16.1	5.8	3.73	5.0	1.75	
VIRGINIA SHENANDOAH NAT PAR 462890001 A03	26	9.8	10.1	10.9	11.4	11.9	12.0	12.7	13.3	13.7	16.3	33.8	13.3	4.66	12.9	1.29	
WYTHE CO 483440001 A03	25	3.6	4.5	4.7	5.0	5.5	6.6	6.9	8.8	9.2	12.1	19.5	7.6	3.99	6.9	1.55	
WISCONSIN DOOR CO 510780001 A03	25	1.2	1.9	2.0	2.5	2.5	3.0	3.3	4.5	4.9	9.6	11.2	4.0	2.75	3.4	1.77	
WYOMING YELLOWSTONE NAT PA 520860001 A03	23	0.0	2.0	2.0	2.1	2.5	2.6	2.7	2.7	3.2	3.7	5.4	2.6	1.09	2.3	1.92	

Table 6-3. SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
ALABAMA GADSDEN 011480001 A01	23	1.5	3.6	4.5	4.8	5.2	5.5	6.9	7.8	9.2	11.2	19.8	6.9	4.01	6.0	1.75	
MUNTSVILLE 011860001 A01	26	2.2	2.7	3.9	4.5	5.4	6.0	7.1	8.2	10.1	13.6	19.4	7.4	4.55	6.2	1.80	
MONTGOMERY 012460001 A01	25	0.7	2.8	3.3	5.8	6.7	7.5	8.0	9.5	10.7	13.0	17.9	7.9	4.39	6.5	2.09	
ALASKA ANCHORAGE 020040003 A01	24	0.0	0.6	0.9	1.7	1.8	1.9	2.7	2.7	3.3	3.7	4.1	2.2	1.14	1.8	2.18	
ARIZONA MARICOPA CO 030440001 A01	26	0.0	1.5	2.7	3.0	3.2	3.6	3.9	4.2	5.1	6.1	6.5	3.6	1.60	3.1	1.98	
TUCSON 030860001 A01	26	1.0	1.9	3.1	3.2	3.7	3.9	4.4	4.7	5.1	6.1	17.1	4.5	3.01	3.9	1.73	
ARKANSAS LITTLE ROCK 041440001 A01	24	1.7	2.4	3.0	4.5	5.5	5.9	7.0	8.1	8.9	11.7	17.2	6.8	4.15	5.7	1.88	
WEST MEMPHIS 042740001 A01	24	0.0	3.1	3.8	4.0	4.4	6.0	6.5	7.6	9.8	16.4	28.7	7.8	6.73	5.7	2.48	
CALIFORNIA ANAHEIM 050230001 A01	26	1.2	2.1	3.3	4.2	8.4	8.6	9.4	11.7	13.4	17.7	38.4	9.8	7.96	7.2	2.37	
BURBANK 050900002 A01	25	0.0	0.6	1.5	2.1	2.7	5.4	6.1	10.4	13.5	17.6	43.3	8.1	9.39	4.1	3.90	
FRESNO 052800002 A01	23	0.0	1.4	2.5	3.0	4.1	4.5	4.8	5.8	7.3	10.0	37.7	6.1	7.39	4.1	2.56	
GLENDALE 052940001 A01	26	0.8	1.5	3.2	4.0	6.6	6.9	10.2	11.6	13.2	16.5	24.0	8.8	6.21	6.4	2.44	
LONG BEACH 054100001 A01	26	2.0	3.7	5.4	6.0	7.4	8.9	9.8	10.8	11.1	14.0	15.6	8.6	3.68	7.7	1.66	
LOS ANGELES 054180001 A01	25	2.0	2.7	4.2	6.9	11.3	12.8	13.9	15.5	17.8	28.2	40.5	13.2	9.23	10.1	2.25	
OAKLAND 055300001 A01	26	1.2	1.6	3.0	4.3	5.7	5.9	6.9	7.5	8.4	9.8	10.4	5.9	2.79	5.1	1.91	
ONTARIO 055380001 A01	25	1.3	1.9	2.8	3.8	6.8	7.4	7.4	11.5	13.5	17.2	22.2	8.5	5.73	6.5	2.26	
PASADENA 055760002 A01	23	1.6	2.3	5.6	7.2	10.1	11.4	13.5	14.7	18.9	21.4	28.6	12.1	7.03	9.6	2.20	
RIVERSIDE 056400001 A01	25	0.0	1.3	2.2	4.9	5.6	8.0	9.1	11.7	13.3	19.1	21.0	8.9	6.26	6.0	2.96	
SACRAMENTO 056580001 A01	26	0.0	0.0	1.1	1.3	1.8	3.3	4.0	6.0	6.2	6.9	7.1	3.5	2.46	2.3	2.95	
SAN BERNARDINO 056680001 A01	23	0.0	1.5	3.2	6.6	8.4	9.4	12.3	13.3	16.7	21.0	46.7	11.5	10.18	7.4	3.19	
SAN DIEGO 056800001 A01	24	1.8	2.8	3.2	4.9	6.4	7.0	9.0	9.8	11.0	11.5	17.2	7.7	4.15	6.5	1.87	
SAN FRANCISCO 056860001 A01	25	1.0	2.2	2.7	3.4	3.6	3.9	4.2	4.8	5.0	6.5	9.4	4.2	1.87	3.7	1.68	
SANTA ANA 057180001 A01	26	0.6	1.9	4.0	5.8	8.2	8.8	9.7	10.4	11.6	17.8	24.4	9.4	5.96	7.2	2.34	
TORRANCE 058260001 A01	26	1.0	2.4	5.4	5.9	6.1	7.5	8.6	9.6	11.0	13.8	25.0	8.2	4.89	6.8	2.02	
COLORADO DENVER 060580001 A01	26	0.8	1.8	2.3	2.8	3.9	4.1	4.6	5.5	5.6	7.7	12.0	4.5	2.48	3.8	1.85	
CONNECTICUT BRIDGEPORT 070060001 A01	26	3.4	5.4	8.0	8.4	10.1	10.6	11.3	12.3	13.2	21.6	22.6	11.6	5.42	10.4	1.62	
HARTFORD 070420001 A01	26	4.7	6.2	7.9	9.6	10.9	12.3	15.0	17.3	20.1	23.7	26.3	13.9	6.53	12.3	1.66	
NEW HAVEN 070700001 A01	26	6.8	11.4	13.8	14.1	16.6	19.1	21.2	26.7	29.2	33.1	40.3	20.9	8.98	19.0	1.56	
WATERBURY 071240001 A01	25	3.1	6.0	8.4	11.6	12.3	14.8	15.5	17.5	20.2	26.8	31.0	15.1	7.40	13.3	1.75	
DELAWARE NEWARK 080140001 A01	25	3.9	6.5	8.2	9.1	9.7	11.4	13.1	15.7	17.3	20.3	29.6	13.0	6.14	11.7	1.60	

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
DELAWARE WILMINGTON 080260003 A01	25	5.6	8.5	8.8	9.6	11.1	13.5	14.3	15.3	17.0	20.3	26.5	13.7	5.18	12.8	1.46	
FLORIDA JACKSONVILLE 101960002 A01	25	2.0	4.5	5.1	5.8	6.2	7.1	7.3	7.8	9.4	10.2	14.4	7.2	2.81	6.6	1.56	
MIAMI 102700002 A01	25	2.1	2.3	2.6	3.6	4.1	4.4	4.9	5.3	6.1	7.9	10.1	4.8	2.08	4.4	1.54	
ST PETERSBURG 103980002 A01	24	2.3	3.6	4.6	5.0	5.5	6.9	7.5	8.6	9.9	14.5	15.8	7.4	3.68	6.7	1.63	
TAMPA 104360002 A01	26	3.5	4.9	7.2	7.4	8.4	8.6	12.0	14.9	16.3	19.8	21.4	11.2	5.31	10.0	1.65	
GEORGIA ATLANTA 110200001 A01	26	2.1	4.3	5.1	5.9	7.5	7.9	8.9	10.9	13.8	21.5	26.6	9.7	6.06	8.3	1.79	
COLUMBUS 111280001 A01	23	2.4	3.8	4.5	5.0	5.8	7.0	7.3	7.8	9.3	13.6	18.9	7.7	4.35	6.8	1.67	
SAVANNAH 114900001 A01	26	4.0	6.2	7.6	8.6	9.0	9.2	10.3	11.3	13.4	18.1	22.9	10.8	4.57	10.0	1.49	
HAWAII HONOLULU 120120001 A01	25	2.5	2.9	3.3	3.5	4.1	4.5	4.6	5.0	5.1	6.6	8.1	4.6	1.40	4.4	1.33	
IDAHO BOISE CITY 130220001 A01	23	1.3	1.4	1.6	1.7	1.9	2.2	2.5	2.9	3.5	5.6	6.4	2.8	1.58	2.4	1.64	
ILLINOIS CHICAGO 141220001 A01	26	4.5	5.8	7.5	11.1	12.3	13.1	17.6	19.1	19.7	25.8	29.6	14.8	6.98	13.1	1.69	
NORTH CHICAGO 145620002 A01	25	0.8	5.3	6.7	7.9	8.2	9.3	9.6	16.4	17.4	23.8	36.7	12.5	8.66	9.9	2.14	
PEORIA 146080001 A01	26	3.3	3.5	4.4	5.0	7.1	7.3	8.7	10.9	14.3	33.2	38.0	11.5	10.45	8.5	2.09	
ROCK ISLAND 146700001 A01	24	2.9	3.7	4.0	5.1	6.7	6.7	9.1	10.5	13.8	16.0	20.7	8.8	4.96	7.6	1.76	
SPRINGFIELD 147280001 A01	25	3.1	3.8	5.1	5.7	5.9	7.1	8.3	9.2	11.3	15.6	18.8	8.5	4.34	7.5	1.64	
INDIANA EAST CHICAGO 151180001 A01	26	4.2	6.4	8.4	11.5	16.6	17.3	19.0	19.8	20.3	27.2	31.7	16.3	7.47	14.3	1.76	
EVANSVILLE 151300001 A01	26	4.9	6.0	6.5	7.0	7.6	8.4	9.4	10.3	11.8	17.0	23.0	9.7	4.24	9.0	1.46	
FORT WAYNE 151380001 A01	24	3.7	3.9	6.4	7.4	8.2	9.7	10.6	10.8	17.4	20.1	23.8	10.9	5.78	9.6	1.71	
GARY 151520001 A01	23	4.4	7.8	8.4	9.3	14.1	16.6	17.9	19.0	21.3	22.6	27.3	15.2	6.23	13.8	1.61	
HAMMOND 151780001 A01	26	5.5	6.4	8.0	9.2	10.3	12.8	13.8	15.8	17.7	20.8	36.4	13.5	6.82	12.1	1.60	
INDIANAPOLIS 152040001 A01	25	6.0	6.4	7.7	8.4	8.7	10.4	11.3	14.2	18.3	26.9	29.6	13.2	7.40	11.6	1.64	
NEW ALBANY 152980002 A01	21	4.0	4.2	5.2	7.7	8.5	9.6	10.7	13.0	13.6	16.6	19.0	10.1	4.72	9.0	1.65	
SOUTH BEND 153880002 A01	22	4.3	5.0	5.4	6.9	7.1	7.6	10.4	10.8	14.7	15.9	18.1	9.6	4.34	8.7	1.57	
TERRE HAUTE 154080001 A01	26	4.6	5.4	6.3	7.0	9.1	9.8	11.0	11.7	15.8	24.9	41.0	13.4	11.84	10.8	1.84	
IOWA CEDAR RAPIDS 160640001 A01	23	2.6	3.2	3.5	4.1	4.6	5.1	6.0	7.0	9.3	11.0	20.3	6.6	4.06	5.7	1.68	
DAVENPORT 161060001 A01	25	2.6	3.4	4.8	9.4	10.5	11.1	13.7	15.9	16.3	20.3	28.5	12.2	6.77	10.1	1.95	
DES MOINES 161180001 A01	24	1.2	2.1	2.4	3.4	4.5	4.7	5.9	7.0	8.7	11.8	34.0	6.7	6.72	5.0	2.10	
KANSAS KANSAS CITY 171800002 A01	26	1.5	2.0	2.8	3.1	3.5	5.2	6.9	7.7	10.4	13.8	44.0	7.5	8.41	5.3	2.23	
TOPEKA 173560001 A01	26	1.1	1.4	2.3	2.7	3.1	3.9	6.8	10.3	11.8	17.5	22.0	7.1	6.31	4.8	2.52	

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
KANSAS WICHITA 179740001 A01	25	1.9	2.1	2.9	3.8	4.4	5.6	6.5	8.1	11.2	12.7	15.8	6.7	4.05	5.6	1.91	
KENTUCKY ASHLAND 180080002 A01	26	6.8	7.8	8.9	11.0	12.8	14.7	16.8	21.0	24.4	55.0	99.0	22.0	20.93	16.8	1.98	
BOWLING GREEN 180320001 A01	21	3.8	4.3	5.1	5.7	6.3	6.8	8.5	9.0	12.1	15.7	21.0	8.9	5.00	7.8	1.65	
COVINGTON 180800001 A01	25	2.6	4.5	4.9	6.0	6.9	8.1	8.1	11.1	12.8	19.5	25.9	9.9	6.18	8.5	1.77	
LEXINGTON 182300001 A01	25	2.7	3.5	4.1	6.0	6.1	6.5	7.2	8.3	8.7	12.9	20.6	7.7	4.37	6.8	1.67	
LOUISIANA BATON ROUGE 190280001 A01	26	2.9	3.7	4.5	6.4	6.9	7.9	8.8	9.1	10.1	12.9	16.4	8.2	3.52	7.4	1.58	
NEW ORLEANS 192020002 A01	26	2.6	4.4	5.5	6.4	7.9	8.1	8.6	9.2	11.1	12.7	18.1	8.5	3.53	7.8	1.53	
SHREVEPORT 192740001 A01	24	3.3	3.8	4.2	4.6	5.0	6.4	7.0	7.3	10.1	15.0	20.2	7.5	4.51	6.5	1.65	
MAINE PORTLAND 200960002 A01	26	6.5	8.3	9.3	10.9	12.8	16.7	18.9	21.8	23.3	27.0	34.1	17.0	7.59	15.3	1.59	
MARYLAND BALTIMORE 210120001 A01	25	8.4	9.2	9.5	12.6	13.6	14.8	14.9	21.8	24.9	32.7	84.7	19.8	15.65	16.6	1.73	
MASSACHUSETTS FALL RIVER 220580002 A01	24	6.7	6.9	7.5	9.7	10.5	13.8	14.8	15.3	18.4	20.1	44.1	14.9	9.63	12.9	1.68	
SPRINGFIELD 221600002 A01	25	4.5	6.8	7.8	8.7	9.7	10.3	11.2	13.9	14.1	22.1	27.6	12.5	5.96	11.4	1.56	
WORCHESTER 222640001 A01	23	6.2	7.4	8.9	9.4	12.6	14.6	15.8	17.8	19.6	20.7	39.9	15.5	8.25	13.8	1.62	
MICHIGAN DETROIT 231180001 A01	26	4.8	6.7	9.0	9.9	10.5	12.1	15.5	19.1	21.0	23.3	28.0	14.5	6.46	13.1	1.61	
FLINT 231580001 A01	25	3.0	5.0	6.5	7.4	7.8	9.0	9.4	10.0	12.3	16.8	20.4	9.7	4.43	8.8	1.59	
GRAND RAPIDS 231820001 A01	25	3.4	4.8	6.0	7.6	8.2	8.7	11.3	13.6	15.6	17.8	30.2	11.2	6.26	9.7	1.72	
LANSING 232840001 A01	26	2.8	4.3	5.7	6.2	8.0	9.1	13.9	16.5	18.9	23.1	28.0	12.3	7.22	10.2	1.90	
SAGINAW 234760001 A01	25	2.9	4.6	5.6	6.4	6.6	7.6	8.6	9.6	9.8	13.9	27.6	9.0	5.14	8.0	1.60	
TRENTON 235120001 A01	26	4.1	5.1	7.5	7.9	8.5	9.5	10.3	12.1	12.6	18.9	20.1	10.7	4.52	9.8	1.53	
MINNESOTA DULUTH 241040001 A01	26	2.4	4.2	4.7	4.8	5.9	6.4	7.6	8.8	10.9	13.8	22.1	7.8	4.35	6.9	1.64	
MINNEAPOLIS 242260001 A01	26	2.5	3.0	4.6	4.9	6.5	6.9	7.6	8.9	10.7	15.6	18.9	8.0	4.50	7.0	1.73	
MOORHEAD 242320001 A01	25	0.0	0.5	2.2	4.0	5.5	6.0	6.2	7.0	7.5	11.9	15.2	5.6	3.88	4.1	2.88	
ST PAUL 243300001 A01	26	3.1	3.8	5.0	5.4	6.3	6.4	8.0	13.0	15.1	18.1	22.8	9.4	5.67	8.0	1.79	
MISSOURI KANSAS CITY 262380002 A01	21	3.4	3.9	4.3	5.4	5.7	6.3	8.4	9.0	10.2	11.4	45.9	8.8	8.90	7.1	1.78	
NEBRASKA LINCOLN 281960002 A01	26	1.8	2.1	2.5	2.6	3.3	4.8	6.7	8.1	10.5	13.4	23.6	6.7	5.39	5.1	2.10	
OMAHA 281880001 A01	26	2.3	3.5	4.4	5.5	6.1	6.6	10.3	11.5	12.7	24.0	44.3	10.3	9.09	8.0	2.01	
NEW HAMPSHIRE CONCORD 300120001 A01	26	3.3	3.8	4.8	5.1	5.9	6.2	8.0	8.6	10.5	26.3	27.8	9.2	7.10	7.5	1.82	
NEW JERSEY BURLINGTON CO 310660002 A01	26	3.3	6.4	7.3	7.7	8.5	9.2	10.0	10.6	11.4	17.4	24.8	10.3	4.71	9.4	1.54	

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
NEW JERSEY CAMDEN 310720001 A01	26	8.1	9.6	12.4	13.4	14.2	15.6	16.3	20.8	22.5	23.7	35.0	17.2	6.44	16.2	1.43	
ELIZABETH 311300002 A01	25	5.0	6.8	8.7	10.0	11.0	13.7	14.5	17.0	18.6	18.9	22.0	13.2	4.95	12.3	1.52	
GLASSBORO 311700001 A01	26	5.3	7.5	8.7	9.4	10.9	12.0	13.0	13.7	15.9	21.8	23.3	12.6	4.75	11.8	1.45	
JERSEY CITY 312320001 A01	25	3.3	8.8	9.5	10.5	12.8	14.3	14.7	15.9	17.9	22.7	28.5	14.5	5.75	13.3	1.57	
NEWARK 313480001 A01	24	3.7	4.3	7.1	7.7	8.6	9.7	11.2	11.8	15.7	24.4	29.8	11.8	7.00	10.1	1.75	
PATERSON 314140001 A01	23	2.7	5.7	6.7	7.2	10.0	10.8	12.5	13.2	17.5	20.0	43.9	12.7	8.69	10.7	1.83	
PERTH AMBOY 314220001 A01	25	1.0	4.1	5.3	6.0	7.0	9.7	10.4	11.5	13.1	17.3	24.3	9.9	5.64	8.2	2.03	
TRENTON 315400001 A01	24	7.4	8.2	8.4	9.6	10.9	11.5	14.5	17.3	20.0	24.9	47.9	15.0	8.99	13.3	1.61	
NEW MEXICO ALBUQUERQUE 320040001 A01	26	0.0	2.2	2.6	2.8	3.6	3.9	4.4	4.5	5.0	6.5	15.4	4.2	2.70	3.5	2.00	
NEW YORK BUFFALO 330660001 A01	24	6.2	7.0	8.9	11.3	13.7	14.2	15.3	18.0	21.7	32.3	42.5	16.9	9.41	14.8	1.68	
NEW YORK CITY 334680001 A01	25	8.4	11.7	12.4	16.0	16.4	20.2	20.8	24.3	30.5	37.3	47.5	22.2	9.93	20.2	1.55	
NIAGARA FALLS 334740001 A01	26	4.2	8.3	11.8	13.4	14.0	15.0	18.7	22.5	27.0	30.9	35.7	18.1	8.54	16.1	1.69	
ROCHESTER 335760001 A01	26	7.1	9.6	10.9	11.7	13.6	14.0	15.0	16.2	18.4	20.0	31.8	14.9	5.33	14.1	1.40	
SYRACUSE 336620001 A01	25	4.9	6.1	6.3	6.9	6.9	8.2	9.9	10.6	11.4	13.1	23.3	9.3	3.90	8.7	1.44	
UTICA 336880001 A01	25	1.6	5.4	5.8	6.4	8.0	8.4	10.8	11.0	11.2	14.8	16.2	9.0	3.68	8.1	1.67	
YONKERS 337620001 A01	26	5.5	6.7	8.8	9.2	10.3	10.9	12.8	15.3	16.5	18.4	23.0	12.3	4.43	11.5	1.45	
NORTH CAROLINA CHARLOTTE 340700001 A01	26	3.1	4.4	5.3	5.5	6.2	7.1	8.4	9.3	10.4	12.8	21.8	8.1	3.90	7.4	1.53	
DURHAM 341160001 A01	24	4.1	5.1	5.3	5.7	5.9	6.3	8.2	9.1	11.2	12.6	20.2	8.3	4.00	7.5	1.53	
GREENSBORO 341740001 A01	26	4.2	5.2	6.6	7.4	8.0	8.5	9.7	12.5	12.9	18.4	28.0	10.5	5.43	9.5	1.58	
WINSTON-SALEM 344460002 A01	24	4.3	6.0	7.6	10.0	10.5	11.3	12.1	13.5	15.9	16.7	33.6	12.5	6.56	11.3	1.59	
NORTH DAKOTA BISMARCK 350100001 A01	26	2.8	3.5	4.1	4.3	4.5	4.7	5.5	6.5	6.8	7.7	8.0	5.3	1.84	5.1	1.34	
OHIO CANTON 361000001 A01	25	5.3	8.9	9.8	11.3	14.0	17.7	18.8	20.0	20.2	23.5	34.0	16.7	6.66	15.3	1.54	
CINCINNATI 361220001 A01	24	5.8	7.2	7.9	8.7	10.7	11.0	13.2	14.1	17.5	18.8	23.0	12.4	4.63	11.5	1.46	
CLEVELAND 361300001 A01	26	3.4	9.9	13.3	13.5	14.9	16.0	18.3	20.7	23.2	29.1	41.8	18.0	7.88	16.3	1.62	
DAYTON 361460001 A01	25	4.7	7.0	7.5	9.0	9.3	11.4	11.6	12.8	13.5	21.1	21.5	11.9	4.72	11.0	1.47	
TOLEDO 366600001 A01	25	5.5	6.7	8.0	9.4	10.2	11.1	12.4	15.3	15.8	23.0	27.7	12.9	5.87	11.8	1.54	
YOUNGSTOWN 367760001 A01	25	7.8	10.3	10.6	11.4	12.2	14.3	16.2	17.2	19.8	31.5	37.1	16.8	8.04	15.3	1.53	
OKLAHOMA OKLAHOMA CITY 372200001 A01	25	1.1	3.0	3.3	4.3	4.8	5.2	5.5	6.6	8.5	10.5	32.4	6.7	6.00	5.3	1.95	
TULSA 373000001 A01	22	0.9	1.8	2.3	2.9	5.8	6.4	8.1	9.1	11.3	12.7	25.5	7.4	5.84	5.4	2.36	
OREGON PORTLAND 381460001 A01	22	2.4	3.1	4.3	5.0	5.6	6.0	8.9	9.3	13.9	15.8	24.0	8.8	6.07	7.1	1.94	

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %									MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90		MEAN	STD. DEV.	MEAN	STD. DEV.
PENNSYLVANIA ALLENTOWN 390120001 A01	26	9.4	11.9	12.9	13.1	15.5	18.3	21.2	22.2	24.0	36.6	43.1	20.4	9.39	18.6	1.52
ALTOONA 390140001 A01	25	13.2	15.5	18.2	21.2	23.6	27.0	30.4	34.1	37.5	55.1	63.0	30.2	13.91	27.4	1.56
BETHLEHEM 390780002 A01	26	7.1	9.9	11.9	13.0	16.2	18.2	20.8	23.0	25.1	33.2	67.5	21.0	12.97	18.4	1.66
ERIE 393060002 A01	26	6.3	8.3	9.3	12.0	12.4	12.9	13.5	19.7	21.5	27.3	43.4	16.5	9.45	14.5	1.65
HARRISBURG 393880001 A01	26	4.9	7.9	8.7	9.3	11.8	12.8	16.0	17.3	17.9	26.5	64.7	16.0	12.06	13.5	1.73
JOHNSTOWN 394460001 A01	23	8.0	10.1	12.1	12.3	13.6	15.2	16.6	17.2	20.1	29.9	34.3	16.9	7.04	15.7	1.47
PHILADELPHIA 397140001 A01	24	8.8	10.6	11.0	14.3	15.6	18.4	22.3	24.4	33.7	39.0	55.4	21.9	11.61	19.4	1.64
PITTSBURGH 397260001 A01	24	8.4	9.1	10.1	12.0	14.3	15.6	16.6	17.4	19.3	33.8	49.7	17.9	10.23	15.9	1.60
READING 397620001 A01	26	6.3	9.6	10.6	12.1	14.7	16.6	17.4	24.0	26.4	30.5	39.2	18.6	8.59	16.8	1.59
SCRANTON 398040001 A01	25	2.6	8.4	8.7	10.0	10.9	13.8	15.7	16.8	18.1	20.8	26.1	13.9	5.59	12.7	1.61
WARMINSTER 399160001 A01	25	4.3	5.2	6.6	7.6	8.2	10.4	11.8	13.4	15.1	17.5	20.0	10.9	4.47	10.0	1.55
WILKES-BARRE 399430001 A01	23	4.0	5.8	6.6	7.6	10.2	11.3	14.7	15.2	19.5	22.5	39.9	13.7	8.26	11.7	1.78
YORK 399560001 A01	26	4.3	6.6	8.6	9.0	11.8	13.3	14.7	16.6	19.5	25.7	28.2	14.3	6.73	12.8	1.64
PUERTO RICO BAYAMON 400380002 A01	26	0.0	3.2	4.2	5.4	6.3	6.8	7.2	7.7	8.3	10.1	12.7	6.6	2.82	5.7	2.10
CATANO 400560002 A01	26	2.8	4.5	5.4	7.0	7.7	7.9	8.5	9.4	9.8	11.8	14.8	8.1	2.84	7.5	1.48
GUAYANILLA 401080002 A01	25	3.3	3.4	4.0	6.8	6.8	9.3	10.0	10.7	11.4	12.6	17.1	8.7	3.70	7.8	1.64
PONCE 401920002 A01	25	0.9	1.4	1.7	4.2	4.7	5.1	5.2	6.2	6.7	7.9	10.9	5.0	2.55	4.3	1.93
SAN JUAN 402140001 A01	24	1.4	1.7	2.9	4.3	4.9	5.0	5.8	5.9	7.0	7.8	8.4	5.0	2.04	4.5	1.66
RHODE ISLAND EAST PROVIDENCE 410120001 A01	24	3.2	4.6	5.4	6.1	7.3	8.0	13.5	15.5	20.1	24.4	26.9	12.0	7.46	9.9	1.91
PROVIDENCE 410300001 A01	26	5.2	7.3	8.1	8.9	9.7	10.3	13.0	13.4	16.4	22.9	32.8	12.9	6.43	11.7	1.54
SOUTH CAROLINA GREENVILLE 421180001 A01	26	2.9	3.7	7.2	8.7	9.4	10.0	10.2	12.1	15.9	17.7	61.1	12.5	11.27	10.0	1.91
TENNESSEE CHATTANOOGA 440380001 A01	26	2.9	5.5	7.0	7.9	8.8	9.3	10.7	11.4	12.4	19.9	22.4	10.0	4.07	9.2	1.55
MEMPHIS 442340001 A01	26	1.2	2.4	3.5	4.2	5.2	5.6	6.2	7.1	7.6	12.7	25.9	6.5	4.91	5.3	1.89
NASHVILLE 442540001 A01	25	0.7	1.6	2.6	4.3	5.1	6.3	6.9	8.5	9.7	16.7	21.9	7.5	5.57	5.7	2.30
TEXAS DALLAS 451310002 A01	26	1.5	2.5	3.3	4.0	4.3	4.5	6.1	6.6	8.2	12.2	23.4	6.4	4.94	5.2	1.88
EL PASO 451700002 A01	26	3.6	4.5	5.2	5.2	6.3	6.5	6.8	8.1	8.6	9.1	11.2	6.8	1.91	6.5	1.34
FORT WORTH 451880001 A01	26	1.4	3.2	3.7	3.8	4.1	4.7	5.2	6.4	6.9	9.0	11.7	5.2	2.39	4.7	1.60
HOUSTON 452560001 A01	24	3.6	3.7	3.8	4.4	4.4	4.8	6.8	7.9	9.0	10.8	13.4	6.5	2.90	5.9	1.53
PASADENA 454060002 A01	26	2.7	4.8	5.1	5.4	7.9	8.7	9.0	11.9	12.9	18.8	32.5	10.1	6.35	8.6	1.76
SAN ANTONIO 454570001 A01	26	2.0	2.2	2.4	2.4	2.8	3.0	3.3	4.3	5.4	6.3	12.4	3.9	2.36	3.5	1.60

Table 6-3 (continued). SULFATE, URBAN FREQUENCY DISTRIBUTIONS, 1970

 $(\mu\text{g}/\text{m}^3)$

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
UTAH																	
OGDEN 460680001 A01	26	1.6	2.4	3.4	3.5	3.8	4.1	4.6	5.0	5.6	6.7	7.3	4.4	1.50	4.1	1.45	
SALT LAKE CITY 460920001 A01	25	2.0	2.9	3.2	3.6	4.1	4.5	5.5	6.5	7.2	8.0	9.4	5.2	2.17	4.8	1.55	
VERMONT																	
BURLINGTON 470140001 A01	23	1.7	4.4	7.4	8.1	9.5	10.3	11.3	14.9	17.8	19.3	33.4	12.0	6.93	10.1	1.91	
VIRGINIA																	
DANVILLE 480920001 A01	25	3.0	4.7	5.8	8.7	8.8	9.6	10.2	11.6	12.7	17.6	27.2	10.5	5.32	9.3	1.66	
HAMPTON 481440001 A01	25	1.1	4.6	5.2	5.8	6.6	9.5	9.6	11.7	12.1	16.0	20.9	9.2	4.55	8.0	1.84	
LYNCHBURG 481840001 A01	26	4.4	5.4	6.7	7.0	7.8	7.9	10.1	11.4	12.3	14.7	28.4	10.1	5.42	9.1	1.56	
NEWPORT NEWS 482120001 A01	26	4.0	4.9	5.8	6.6	6.8	7.7	8.0	10.6	11.0	14.8	18.7	8.8	3.62	8.1	1.47	
NORFOLK 482140001 A01	26	2.7	5.2	6.5	7.1	8.3	8.7	10.4	11.0	11.7	14.4	20.8	9.5	3.94	8.7	1.58	
PORTSMOUTH 482440001 A01	26	4.1	6.0	8.4	8.7	9.5	10.4	11.8	12.9	13.5	15.8	22.0	11.1	4.05	10.4	1.46	
RICHMOND 482660002 A01	24	5.7	6.1	6.6	7.3	7.5	8.3	10.4	12.0	14.1	14.4	21.2	10.3	4.38	9.5	1.47	
ROANOKE 482700001 A01	25	6.9	7.9	8.0	9.3	10.1	12.3	13.1	15.0	17.9	27.6	34.9	14.7	8.20	13.0	1.63	
WASHINGTON																	
SEATTLE 491840001 A01	25	3.7	4.3	4.6	5.0	5.3	5.9	6.2	7.2	7.4	8.3	22.2	6.6	3.54	6.1	1.43	
SPOKANE 492040001 A01	26	1.3	1.8	2.6	3.2	3.7	3.9	4.3	4.7	5.7	8.9	9.5	4.4	2.25	3.9	1.67	
TACOMA 492140001 A01	26	4.1	4.8	6.0	6.0	6.0	7.1	7.3	7.8	8.8	11.8	13.3	7.4	2.26	7.1	1.33	
WEST VIRGINIA																	
CHARLESTON 500280001 A01	26	8.4	11.1	13.4	14.2	14.7	18.1	20.8	23.5	39.3	50.3	81.1	25.0	17.90	20.6	1.83	
SOUTH CHARLESTON 501760001 A01	26	5.9	7.2	8.5	10.2	11.4	12.5	15.6	18.7	21.5	31.4	34.8	15.5	8.29	13.7	1.65	
WISCONSIN																	
EAU CLAIRE 510840002 A01	24	4.3	5.6	5.6	6.7	7.1	7.2	8.2	9.2	11.4	14.3	20.1	8.6	3.67	8.0	1.45	
KENOSHA 511340001 A01	24	3.3	5.0	5.2	6.9	7.7	9.1	9.2	10.2	12.8	16.4	25.4	9.9	5.48	8.7	1.65	
MADISON 511860001 A01	27	2.0	3.8	5.1	6.7	7.2	7.8	8.2	8.4	9.7	11.9	24.5	8.0	4.15	7.2	1.62	
MILWAUKEE 512200001 A01	26	2.9	4.9	5.2	6.1	7.3	9.3	10.4	11.4	12.8	18.8	26.1	10.0	5.77	8.7	1.72	
RACINE 512880001 A01	24	3.7	4.6	5.4	6.4	6.8	7.4	8.0	9.3	12.1	13.9	30.4	9.0	5.55	8.0	1.61	
SUPERIOR 513480001 A01	24	2.7	4.4	5.2	5.9	6.1	6.5	6.8	7.6	9.1	12.6	23.0	7.8	4.34	7.0	1.57	
WYOMING																	
CASPER 520120001 A01	26	2.4	3.0	3.9	4.3	4.7	4.7	5.0	5.2	5.8	6.5	6.9	4.7	1.22	4.6	1.33	
CHEYENNE 520140001 A01	23	1.1	1.5	1.9	2.1	2.3	2.7	3.1	3.4	4.0	4.5	5.5	2.9	1.15	2.7	1.52	

Table 6-4. SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MAX.	MEAN	STD. DEV.	MEAN	STD. DEV.
ARIZONA GRAND CANYON NAT P 030370001 A03	25	1.4	1.6	1.8	2.0	2.2	2.5	2.6	3.1	3.7	5.6	6.4	2.9	1.42	2.6	1.55
ARKANSAS MONTGOMERY CO 041740001 A03	22	1.1	2.6	3.0	3.6	4.4	5.2	5.4	6.6	8.2	9.1	11.0	5.4	2.59	4.8	1.73
CALIFORNIA HUMBOLDT CO 053300001 A03	23	1.5	2.4	2.6	2.7	2.9	2.9	3.0	3.6	4.0	4.6	7.2	3.3	1.16	3.2	1.37
COLORADO MESA VERDE NAT PAR 061590002 A03	25	1.8	2.2	2.3	2.6	2.8	3.0	3.3	3.6	4.0	4.7	5.3	3.2	0.97	3.1	1.35
FLORIDA HARDEE CO 101680001 A03	26	1.4	2.1	3.3	3.7	4.5	5.0	5.6	7.3	7.7	10.9	12.7	5.6	2.93	4.9	1.73
IDAH0 BUTTE CO 130340001 A03	26	0.0	1.0	1.1	1.3	1.8	1.8	2.2	2.3	2.6	3.8	4.0	2.1	0.99	1.8	1.81
INDIANA MONROE CO 152800001 A03	24	2.5	3.2	3.7	5.9	6.6	7.1	7.6	8.2	9.2	12.0	23.3	7.5	4.39	6.6	1.70
PARKE CO 153260001 A03	25	1.2	7.2	8.9	10.0	10.3	11.9	15.1	17.0	18.0	19.8	29.3	13.5	6.52	11.4	2.06
MAINE ACADIA NAT PARK 200010001 A03	26	0.0	3.1	4.0	4.3	5.2	5.6	6.9	9.5	10.0	12.3	16.2	7.0	3.91	5.7	2.24
MISSOURI SHANNON CO 264480002 A03	25	1.8	2.4	3.4	3.6	3.8	4.0	4.4	5.7	6.9	12.0	18.6	5.7	3.98	4.8	1.76
NEBRASKA THOMAS CO 282480001 A03	22	0.0	1.2	1.3	1.5	1.7	1.9	2.3	2.4	3.1	3.3	6.7	2.2	1.33	1.9	1.89
NEVADA WHITE PINE CO 290560001 A03	24	0.0	0.0	1.2	1.7	2.2	2.2	2.4	2.7	3.5	4.1	4.8	2.3	1.24	1.8	2.35
NEW HAMPSHIRE COOS CO 300140001 A03	25	2.9	3.9	4.1	4.5	5.4	5.8	6.0	7.3	8.2	9.7	18.9	6.5	3.22	6.0	1.49
NEW YORK JEFFERSON CO 333340001 A03	26	4.1	4.7	5.4	5.8	6.3	8.5	9.2	10.8	12.5	16.7	22.5	9.4	4.76	8.4	1.60
NORTH CAROLINA CAPE HATTERAS NAT 340590001 A03	24	4.4	6.6	8.4	10.4	10.6	11.8	12.3	12.9	15.3	17.7	20.9	11.9	4.00	11.2	1.44
OKLAHOMA CHEROKEE CO 370480001 A03	24	3.1	4.5	5.7	6.0	6.5	7.2	8.4	9.1	12.1	19.0	34.1	9.9	7.32	8.3	1.76
OREGON CURRY CO 380440001 A03	24	2.7	3.1	3.7	4.0	4.6	4.9	5.2	5.3	5.8	6.0	7.5	4.8	1.29	4.7	1.32
PENNSYLVANIA CLARION CO 391760001 A03	26	5.1	6.0	7.6	7.7	8.9	10.3	12.2	15.9	17.5	23.3	25.3	12.4	6.12	11.1	1.61
RHODE ISLAND WASHINGTON CO 410380002 A03	24	2.1	2.3	3.0	4.8	5.2	6.4	8.4	8.8	11.3	14.6	20.5	7.7	5.08	6.3	1.97
TEENNESSEE CUMBERLAND CO 440680001 A03	22	2.8	5.3	6.1	6.7	7.5	8.2	9.4	10.0	12.0	14.1	14.6	8.7	3.20	8.1	1.49
TEXAS MATAGORDA CO 453530001 A03	25	2.3	3.2	3.6	4.2	4.5	4.7	5.8	7.4	9.0	12.6	14.8	6.5	3.70	5.6	1.71
TOM GREEN CO 455200001 A03	25	1.3	1.7	2.0	2.6	3.0	3.6	3.9	4.6	5.0	5.7	7.0	3.7	1.53	3.3	1.58
VERMONT ORANGE CO 470360001 A03	26	2.7	4.2	5.2	5.5	6.2	6.6	6.8	8.4	11.7	14.6	18.9	8.0	4.09	7.2	1.60
VIRGINIA SHENANDOAH NAT PAR 482890001 A03	25	2.5	4.2	4.8	6.1	7.1	8.0	8.2	9.9	10.8	20.5	22.3	9.2	6.55	7.9	1.75
WYTHE CO 483440001 A03	26	4.0	5.0	5.7	6.0	7.1	7.5	7.9	10.6	11.7	13.4	20.2	8.7	4.01	8.0	1.53

Table 6-4 (continued). SULFATE, NONURBAN FREQUENCY DISTRIBUTIONS, 1970
($\mu\text{g}/\text{m}^3$)

LOCATION	NO. SAMP.	MIN.	FREQUENCY DISTRIBUTION, %										MAX.	ARITHMETIC		GEOMETRIC	
			10	20	30	40	50	60	70	80	90	MEAN		STD. DEV.	MEAN	STD. DEV.	
WASHINGTON KING CO 490980002 A03	24	0.8	1.4	1.5	1.6	2.0	2.1	2.7	3.3	3.6	4.3	4.8	2.6	1.14	2.3	1.60	

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