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GREAT LAKES STATES MONTHLY AVERAGE TEMPERATURE DATA —BEGINNING OF RECORD TO 1990

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ABSTRACT. Monthly average temperature data were digitized from the National Climatic Data Center (NCDC) publication *Climatological Data* from beginning of record to 1930 for the states bordering the Great Lakes. Monthly temperature data from 1931 to 1947 for all Great Lakes states (except New York) were combined with previously digitized NCDC monthly data (Tape Deck 3220). New York State's monthly temperature data from 1931 to 1947 were not available from NCDC for this period, and so these data were digitized from *Climatological Data*. The monthly temperature data prior to 1948 for all Great Lakes states were combined with NCDC Tape Deck 3200 temperature data from 1948 to 1990 (monthly average temperatures were calculated for the TD 3200 daily data). A list containing station name, latitude, longitude, elevation, and period of record is given as an appendix. Data reduction, verification, quality control, and analysis methods are summarized. The spatial and temporal distribution patterns of the number of stations is presented. The digital data are available from NCDC.

1. INTRODUCTION

Much of the historical National Weather Service (NWS) temperature data for the eight Great Lakes states prior to 1930 are available only in paper copy or microfiche, making them virtually unusable for most computer applications. The Great Lakes Environmental Research Laboratory (GLERL), under the Environmental Research Laboratories' Endangered Data and Increased Access Program funded under the National Environmental Satellite and Data Information Service's (NESDIS) Earth System Data and Information Management Program, digitized these data to make them more accessible for our own ongoing research programs, for use by other researchers, and for use by the public at large. Monthly temperature data from NWS stations in Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, and Pennsylvania, were digitized from beginning of record to 1930, and for New York from beginning of record to 1947. These data were quality controlled for typographical errors (but not for observer or metadata errors) and then combined with existing National Climatic Data Center (NCDC) digital temperature data from 1931 (from 1948 for New York) to 1990. The annual maximum number of stations when including the 1948-1990 period is 1,045. The station number and name, latitude, longitude, and elevation changes for each station were abstracted from Assel et al. (1995) and from U.S. Department of Commerce (1956).

This report documents sources of the monthly temperature data and describes procedures used to abstract, reduce, and quality control these data. The spatial and temporal distribution

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patterns of the temperature stations are illustrated and discussed. A complete tabular summary of the monthly temperature data for this study is not included with this report, but a listing of these stations is included along with their location (latitude, longitude, elevation) and period of record as Appendix A. Missing data is indicated by 99.999 for latitude, 999.999 for longitude, and -999 for elevation. A complete set of computer files of the temperature data and station history data has been made available to NCDC for archiving.

2. DATA

2.1 Data Sources

Microfiche of historical temperature data (U.S. Dept. of Commerce, 1976) were copied by NCDC from sources listed in the microfiche themselves.

> "Climatological data was first published by the Weather Bureau of the U.S. Department of Agriculture in 1896 as the CLIMATE AND CROP SERVICE bulletin. Climatological data was published under this title through January 1906. In February 1906 the title was changed to CLIMATOLOGICAL REPORT of the Weather Bureau's Climatological Service. These CLIMATOLOGICAL REPORTS were published as monthly issues from February 1906 to June 1909 only. Annual issues were published under that title for the years 1906 through 1913. Beginning with July 1909, and continuing through December 1913, the monthly data were only published as a part of the MONTHLY WEATHER REVIEW, and were presented on a river Drainage District basis. These monthly data from July 1909 through December 1913 are available on microfiche by district. Beginning with January 1914 CLIMATOLOGICAL DATA has been published, monthly and annually, under that title and has continued as CLIMATOLOGICAL DATA to date."

These microfiche were the source of digitized monthly temperatures from beginning of record to 1930. The NCDC Tape Decks (TDs) 3220 and 3200 were the sources of temperature data for the years 1931-1947 and 1948-1990, respectively. New York stations were not on TD 3220; temperature data for those stations between 1931 and 1947 were digitized from the microfiche source noted above. Additionally, data for stations in other states were not digitized (TD3220) but were available on the microfiche, while other stations were present in TD3220 but not on microfiche (Table 1). A preliminary analysis was made of the total number of stations each year on TD 3220 or on the microfiche. It was concluded that it was not worthwhile to first identify which stations were on the microfiche but not on TD 3200 and then to digitize those stations that were exclusively on the microfiche for the 1931-47 period. The rationale for this decision was that the average of the annual differences was relatively small for each state (ranging from 0.6 to 3.6 stations, Table 1), and for some years, TD 3220 had more stations than the microfiche.

Table 1.— Difference* in the number of stations on microfiche and TD3220.

Year	IL	IN	MI	MN	OH	PA	WI	Average
1931	1	1	7	8	9	12	4	6.0
1932	1	0	7	5	11	7	3	4.8
1933	2	-1	8	5	13	7	3	5.3
1934	3	-1	8	4	7	6	2	4.1
1935	1	0	4	3	8	6	3	3.6
1936	2	-1	0	2	7	5	1	2.3
1937	2	-2	-3	-1	0	6	0	0.3
1938	3	0	-3	1	2	4	2	1.3
1939	2	-5	1	1	1	4	0	0.6
1940	3	-5	1	-1	-4	2	0	-0.6
1941	2	-3	2	0	-7	2	-2	-0.9
1942	4	-5	2	3	-9	-3	-3	-1.6
1943	5	-4	2	1	-8	-6	1	-1.3
1944	3	-9	-1	4	-3	5	-10	-1.6
1945	4	-4	0	3	-6	3	0	0.0
1946	5	-5	-4	5	-6	0	-3	-1.1
1947	3	-2	-1	3	-5	1	-8	-1.3
Avg.	2.7	-2.7	1.8	2.7	0.6	3.6	-0.4	

* Negative values indicate more stations on TD 3220.

2.2 Procedures

Published temperature data were manually entered into a computer. ASCII files were created for each station from beginning of record to 1930 for all states, and from 1931 to 1947 for New York. These files were edited using programs written in FORTRAN to identify data entry errors and suspected errors in the original data, details are given in section 2.3 below. Stations with data prior to 1930 (that extended past 1930) were combined with the corresponding temperature data from NCDC TD 3220, and stations that began after 1930 were added as ‘new’ stations. Station metadata were used to identify stations.

Monthly data, from 1948 to 1990, were computed from NCDC TD 3200 Summary of the Day data, which contains separate means for the maximum and minimum temperatures. Some stations on TD3200 had pre-1948 digitized daily data. If a station’s data inventory showed it to be one of these stations, then the previously digitized data were used, and the published data were used to fill in periods without data. These stations were the exception and not the rule. We calculated the monthly mean and combined these data with the pre-1948 digital data to form a continuous record for stations that started prior to 1948 and continued after that year. The monthly mean air temperatures for stations on TD 3200 were calculated from the means of the daily maximum and minimum. For stations with months where there were less than 10 days of missing data, the monthly mean was calculated from the available data. If there were 10 or more days with missing data, the mean was not calculated, and a code for missing data (-99.9) was entered.

2.3 Quality Control

The digitized temperature data were quality controlled for data entry errors and outliers. For manually entered data, annual averages were calculated from the monthly means and compared to the published annual averages. If the averages did not match, the program flagged that year for that station, and corrections were made to the monthly data as needed. After these data were quality controlled for these inconsistencies with the published data, they were combined with the digitized data from TDs 3220 and 3200, and the entire data set was checked in the following manner: The mean and standard deviation for each month for the entire period of record was calculated, then monthly values were compared to this mean to see if they fell within +/- two standard deviations of the mean. Monthly values that were not within two standard deviations of the long-term monthly mean were then checked with other published data to verify their value. First, the annual summary of the *Climatological Data* was checked. If the value in the file and the value in the annual summary agreed, no change was made. If these values differed, the monthly summary of the *Climatological Data* was checked. If the value in the file and the value in the monthly summary agreed, no change was made. If the monthly summary and annual summary agreed, then the file value was replaced by that in the *Climatological Data*. If none of the values were the same, the value in the annual summary was used. The entire data set was also checked for duplication of data between two or more stations. Each year of each station was checked with each year of every other station in that state and with adjacent states. If the data for a year were the same at another station, with the exception of all missing, the stations and year(s) were listed in a separate file (Appendix B), but no effort was made to determine which station had the redundant data.

3.0 RESULTS

3.1 Computer File Documentation

A separate computer file was created for each station containing tabular summaries of monthly temperature data. A description of this file follows. The name of a station's data file is based on that station's identification number assigned by NCDC. All file names follow the format of T<state #> <station #>.DAT. For example, (Table 2) Springfield is station number 8179 in Illinois, state number 11, thus giving the file name T118179.DAT. For stations that have not been assigned a NCDC station number, an in-house number was assigned pending assignment by NCDC. The in-house numbering system placed '99' in the state number position, the first two numbers of the station number being the state number (01-Illinois, 02-Indiana, 03-Michigan, 04-Minnesota, 05-New York, 06-Ohio, 07-Pennsylvania, and 08-Wisconsin), and the last two numbers being sequential numbers of stations, without NCDC numbers in that state, in alphabetical order. These stations will be assigned numbers by NCDC at a later date.

The first three lines of each data file contain the header information. The first line tells the type of data (temperature). The second line gives the NCDC station number, decimal latitude and longitude, most recent station name, and elevation in feet above sea level. The third line shows the period covered. The fourth line is blank. Following the header are data for each year covered. The order of these data is by year and month (January through December). The FOR-

Table 2. — Example of monthly temperature data at Springfield, IL.

MONTHLY AVERAGE TEMPERATURE (DEGREES FAHRENHEIT)
118179 39.833 -89.667 SPRINGFIELD WSO AP 598
PERIOD OF RECORD = 1938 - 1990

1938	-99.9	-99.9	-99.9	53.1	62.1	70.2	77.0	77.3	68.7	59.8	43.1	30.1
1939	32.0	27.0	42.5	47.4	65.6	73.7	77.1	73.3	71.7	57.0	40.1	33.5
1940	11.8	29.5	37.9	49.4	58.7	72.6	76.9	75.0	66.0	59.7	38.9	35.4
1941	29.0	27.2	36.2	56.2	66.4	73.1	76.4	76.0	69.6	58.9	42.2	29.9
1942	27.1	28.5	42.5	56.4	62.2	72.1	75.9	72.7	65.5	54.7	43.4	25.7
1943	26.5	34.2	36.3	49.7	60.9	74.7	77.1	76.6	62.3	53.8	37.6	24.9
1944	31.3	31.9	36.8	48.8	67.1	75.4	75.7	75.0	66.4	55.3	43.3	22.9
1945	21.4	31.5	50.0	52.8	57.0	67.5	72.7	73.5	66.5	52.6	43.0	22.6
1946	29.7	33.5	52.7	54.8	61.3	71.7	75.7	68.9	65.0	58.3	44.1	34.8
1947	31.0	24.2	32.9	50.6	58.5	69.2	72.0	82.1	70.3	63.0	37.4	33.3
1948	-99.9	-99.9	-99.9	-99.9	-99.9	71.8	75.6	74.7	69.2	53.5	43.8	33.7
1949	29.2	31.2	40.6	50.8	65.5	74.7	78.4	73.9	60.9	57.8	44.0	35.3
1950	32.3	30.4	36.4	46.1	64.8	70.8	72.3	69.1	65.6	60.9	34.6	23.0
1951	27.8	30.6	36.5	48.7	64.4	69.2	74.8	73.2	63.4	56.9	35.0	28.9
1952	30.2	35.6	38.3	52.2	62.2	78.2	77.7	73.6	67.3	49.6	43.6	34.3
1953	31.8	35.6	42.2	48.6	64.1	78.0	77.6	75.2	68.2	59.5	44.0	33.2
1954	29.7	39.2	37.7	57.4	58.9	76.9	80.4	75.2	71.5	56.4	42.8	33.4
1955	27.9	31.5	40.2	59.8	65.0	69.4	80.9	77.8	69.6	55.3	37.8	28.6
1956	25.9	31.9	41.2	49.7	65.0	74.5	74.5	74.7	67.0	62.3	41.3	34.4
1957	22.0	36.2	40.2	52.8	62.8	72.9	78.1	75.8	65.1	52.1	40.6	36.5
1958	28.6	22.9	36.6	53.2	63.8	68.0	73.6	75.1	67.1	56.8	44.8	26.4
1959	22.4	30.3	41.6	52.9	67.0	75.1	75.5	78.2	68.9	54.1	35.7	36.9
1960	29.9	26.4	24.1	56.1	59.5	69.6	74.4	75.7	72.7	56.8	43.4	25.7
1961	24.4	33.4	43.7	47.6	58.3	70.9	75.7	73.6	69.3	56.7	42.4	27.7
1962	20.1	30.3	37.1	52.6	72.2	73.9	73.7	73.4	65.0	58.3	42.9	26.5
1963	16.8	22.0	44.5	55.7	62.1	75.2	74.5	70.5	66.8	66.3	45.1	18.9
1964	30.7	29.0	38.2	55.0	68.7	75.0	77.8	74.4	68.9	53.2	46.4	29.3
1965	27.3	30.0	31.1	54.6	70.2	73.2	74.2	72.3	68.5	55.0	45.6	38.2
1966	21.9	29.4	43.0	49.4	57.7	71.4	80.7	71.9	64.0	52.2	44.0	30.4
1967	29.5	26.4	43.7	56.4	59.2	73.7	72.8	68.5	63.6	54.8	38.4	31.4
1968	23.7	25.6	42.7	52.8	59.0	74.5	75.8	75.2	66.6	54.7	41.3	29.0
1969	23.3	31.4	32.6	54.5	64.1	70.6	77.8	73.9	66.4	53.9	39.7	28.1
1970	17.8	28.6	37.9	54.7	66.5	71.4	76.4	73.9	69.1	56.1	41.6	34.0
1971	23.6	30.6	39.0	54.3	60.4	78.9	72.4	72.4	71.1	62.8	43.7	38.4
1972	24.4	28.9	40.7	52.5	64.7	70.4	75.8	73.7	68.7	52.9	38.2	26.6
1973	29.6	30.6	48.2	51.9	59.5	73.1	76.0	75.9	69.7	60.6	45.4	27.9
1974	26.0	32.5	44.2	54.7	61.5	68.3	78.8	72.8	61.8	55.7	42.1	32.6
1975	31.0	29.3	37.3	50.3	66.4	73.5	74.6	76.5	63.7	57.7	47.0	33.3
1976	23.4	39.5	45.4	55.0	59.7	72.3	77.4	71.5	65.1	49.4	34.5	24.1
1977	10.2	29.5	47.5	59.8	70.9	71.5	79.3	72.8	68.5	53.8	42.7	26.9
1978	15.6	16.6	33.5	53.8	62.2	74.2	76.3	73.0	70.9	53.6	45.2	31.4
1979	12.3	17.0	40.2	50.3	63.9	74.9	75.3	73.9	67.7	55.7	41.9	35.7
1980	27.7	21.7	37.0	51.0	64.5	72.0	81.3	79.3	68.6	52.7	42.2	31.6
1981	26.4	32.3	44.1	60.4	60.2	74.8	77.0	73.7	67.1	54.5	45.3	26.8
1982	16.9	24.1	40.2	48.0	70.0	68.3	77.0	72.4	66.0	55.3	42.9	38.7
1983	28.6	34.8	40.5	47.7	59.9	73.8	80.3	79.9	69.0	57.1	45.6	16.0
1984	22.2	35.8	31.7	50.3	60.2	75.2	74.4	76.8	65.6	59.8	41.6	35.9
1985	18.4	24.8	45.6	57.7	65.1	69.6	74.2	70.7	67.8	58.0	42.7	21.4
1986	29.0	26.8	45.2	57.3	65.8	74.6	78.7	70.0	70.4	56.0	37.8	32.5
1987	26.1	36.5	45.4	54.6	70.4	75.3	78.7	75.3	67.6	50.5	46.1	34.6
1988	25.5	25.5	41.4	52.8	65.8	73.7	78.5	78.6	-99.9	49.6	42.9	31.5
1989	35.9	20.3	40.6	52.2	59.2	70.4	75.3	73.2	63.7	56.8	41.9	18.6
1990	37.0	36.0	45.4	50.5	59.8	73.0	75.1	74.0	68.8	53.4	48.3	29.9

-99.9 = MISSING OR INSUFFICIENT DATA
IDENTICAL DATA FOR STATION 118179: 118184 1955

TRAN format is (1X,I4,1X,12(1x,f5.1)). Following the data is a blank line followed by a footer. The footer contains notes regarding the data. The first two lines of the footer give the data codes for missing values. This information is followed by station identifier and period for redundant temperature data for those stations listed in Appendix B.

3.2 Spatial and Temporal Coverage of Temperature Stations

The temporal distribution of the number of stations in the data set for each year is given in Figure 1. In that figure, a station is counted as active for a given year if it has at least 1 month with data in that year. The temporal distribution is divided into 13 decades, starting from 1861-70 and ending with 1981-90, with the number of stations given at the decade ending year in Figure 1. The decades fall into three periods of relatively little change in the number of stations (1861-1890, 1901-1940, and 1951-1990), and two periods of large increases in the number of stations (1891-1900 and 1941-1950). The number of stations for selected years during the two periods when the number of stations was increasing rapidly are also shown in Figure 1. The spatial distribution of stations for specific years is given in Figures 2-12.

There were only seven stations in 1886, located in Illinois, Michigan, and Indiana (Figure 2). The number of stations almost tripled by 1888 (Figure 3) and tripled again by 1890 (Figure 4). The number of stations in 1890 increased by a factor of 2.5 by 1895 (Figure 5). Most of these additional stations were located in Illinois, Indiana, and New York, with the rest scattered in Ohio, Michigan, and Minnesota. It is not known if these additional stations were not established prior to 1890 or if the data from them was not published until 1890. The number of stations increased by a factor of approximately 1.8 between 1895 (195) and 1896 (353). Most of this increase occurred in Minnesota, Wisconsin, and Pennsylvania (Figures 5 and 6). Annual increases of a little less than 100 stations occurred over the next 2 years, 1897 (Figure 7) and 1898 (Figure 8), due primarily to an increase in the number of stations for Ohio (1897) and for Michigan (1898). The distribution of stations in 1898 makes possible spatial analysis of temperature patterns over all eight Great Lakes states, and while the number of stations would come close to doubling by the late 1940s, it is questionable if the increase in station spatial density would significantly change the large-scale pattern of any spatial analysis, although details may have significant changes. The *variation in* the number of stations between 1901 and 1940 is less than 100 stations [578 (1901), 659 (1940)], a typical distribution pattern is portrayed in Figure 9 (622 stations). A large increase in stations during the decade ending 1950 occurred between 1947 and 1948, (Figures 10 and 11, 196 stations). This increase is attributed to the opening of new stations after World War II. The number of stations over the last four decades (1951-1990) ranged from 953 in 1951 to 1045 in 1971. Because of the relatively small variation in the annual number of stations between 1951 and 1990, the distribution pattern in 1990 (Figure 12) can be taken as typical of this entire period.

4. DISCUSSION

These data have not been corrected for instrumental change, observer error, or changes in instrument location or exposure. Thus, care must be taken in using the monthly temperature in their present form. Future work will include a statistical analysis of station homogeneity and an

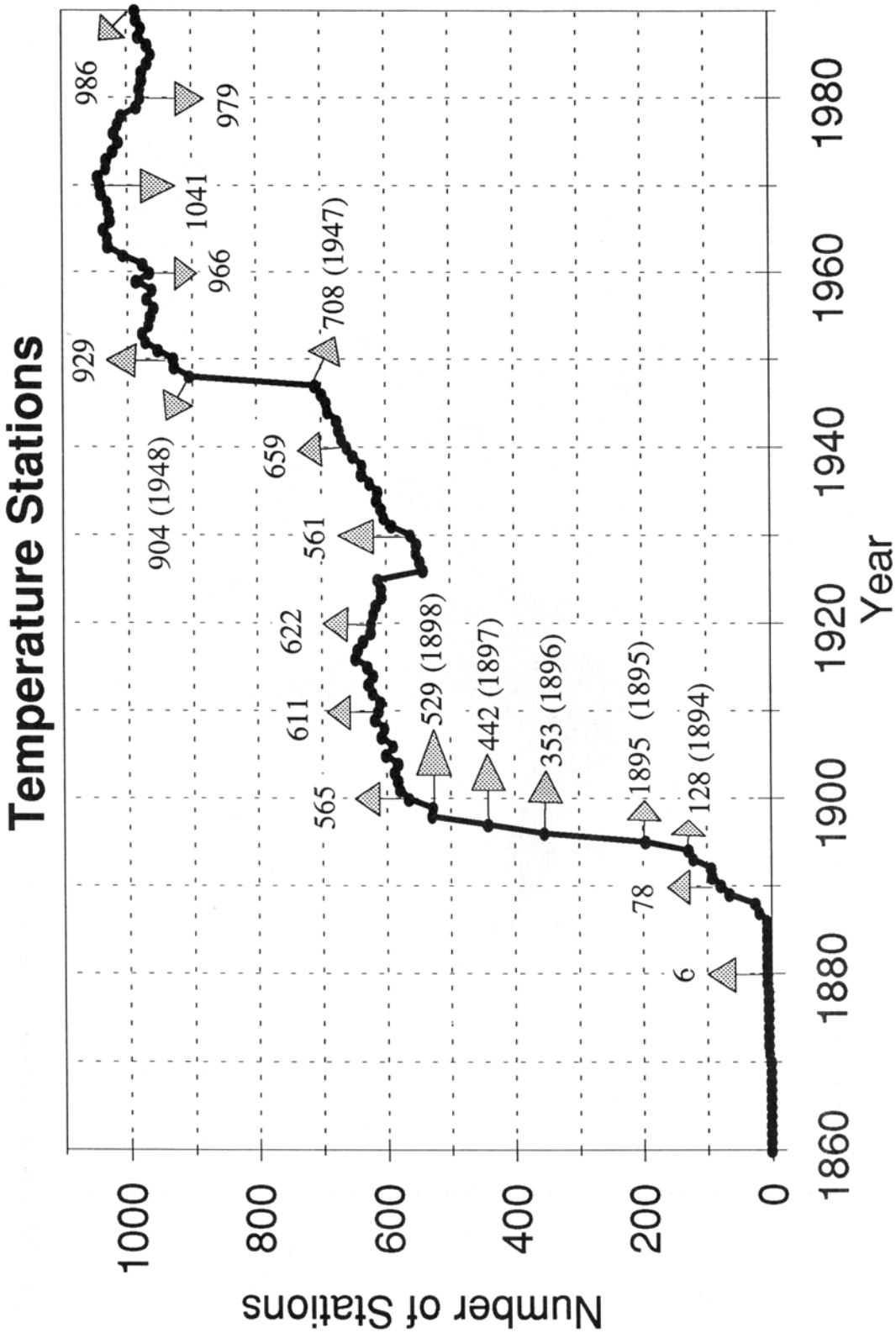

Figure 1. — Temperature stations by year.

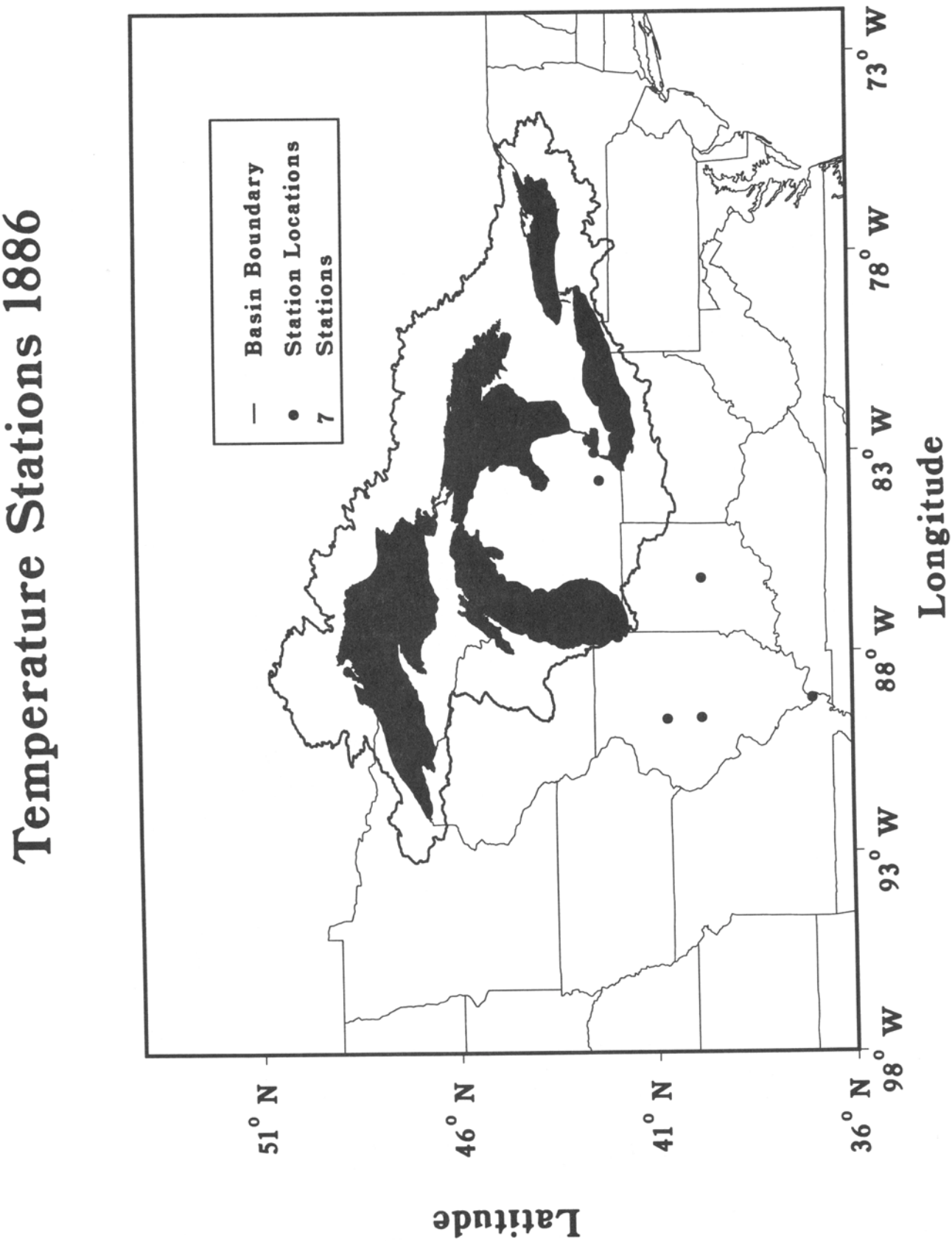

Figure 2. — Distribution of stations for 1886.

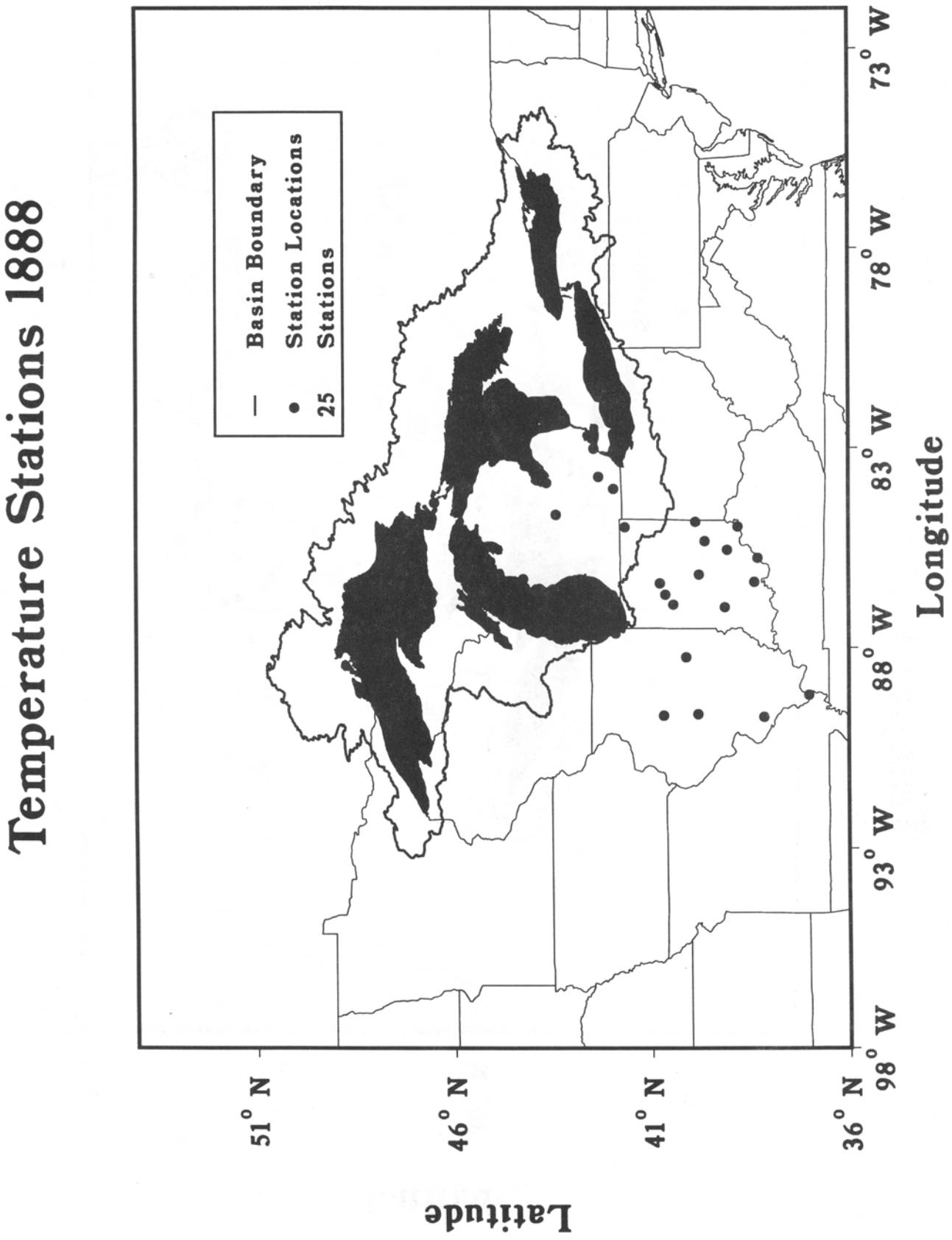

Figure 3. — Distribution of stations for 1888.

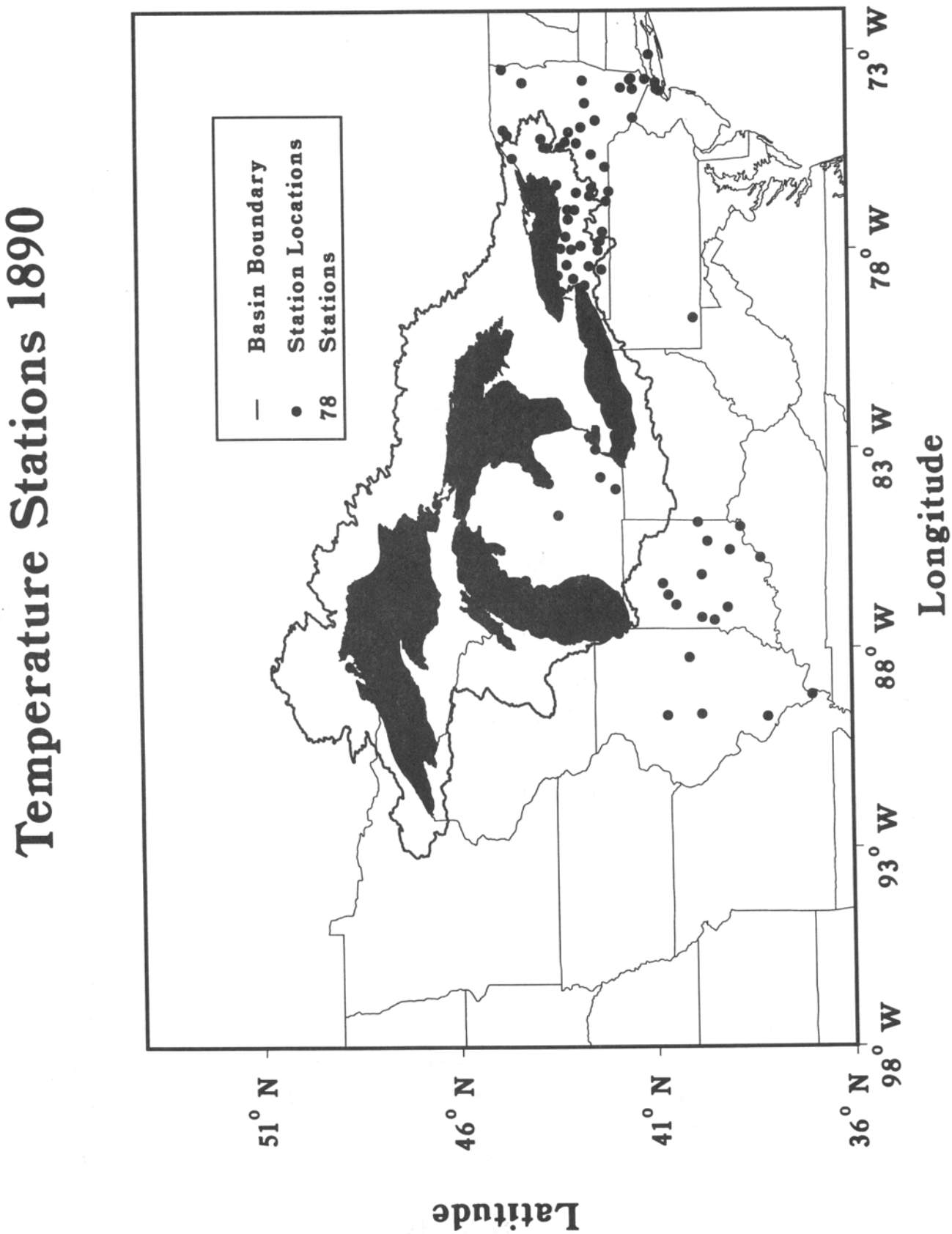

Figure 4. — Distribution of stations for 1890.

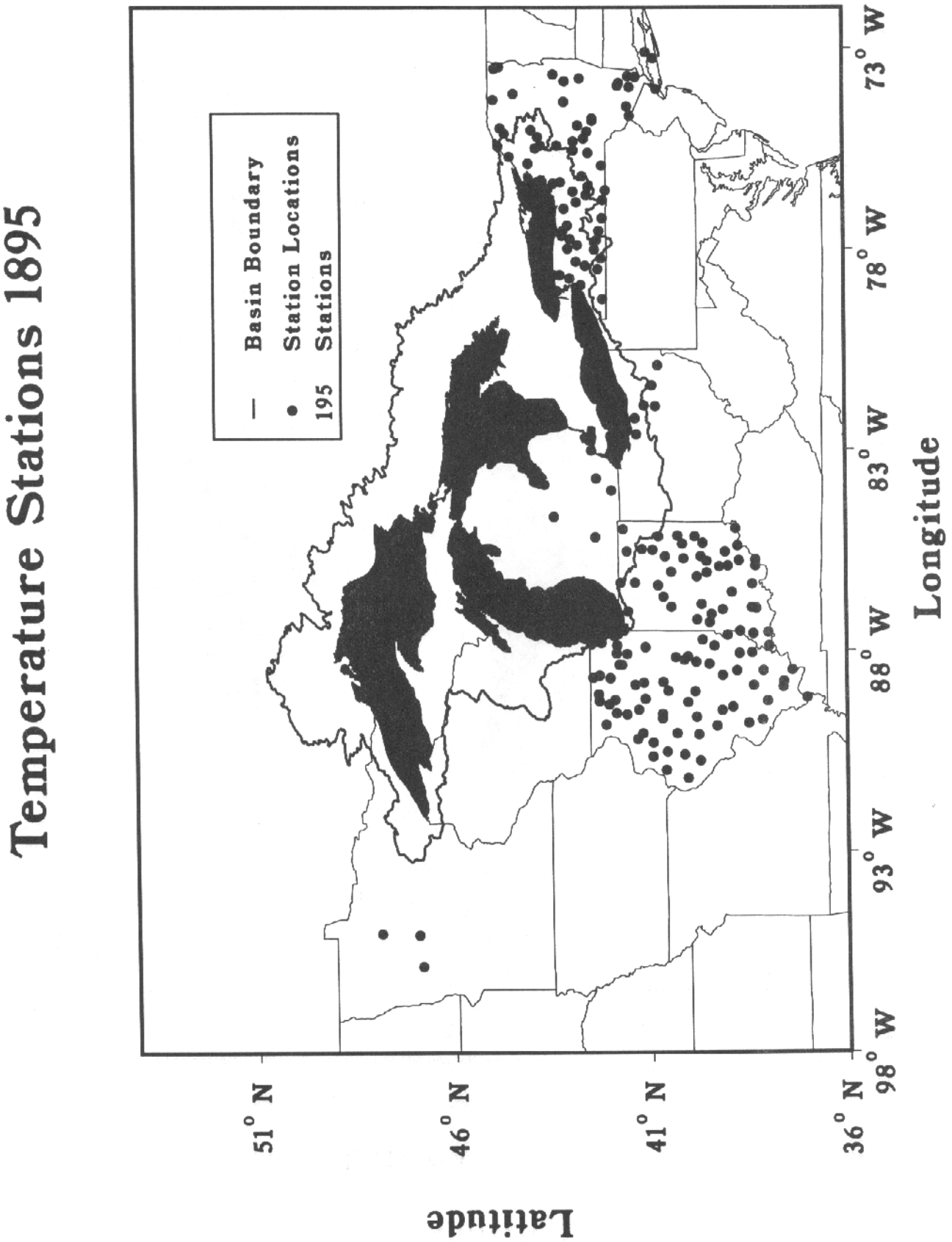

Figure 5. — Distribution of stations for 1895.

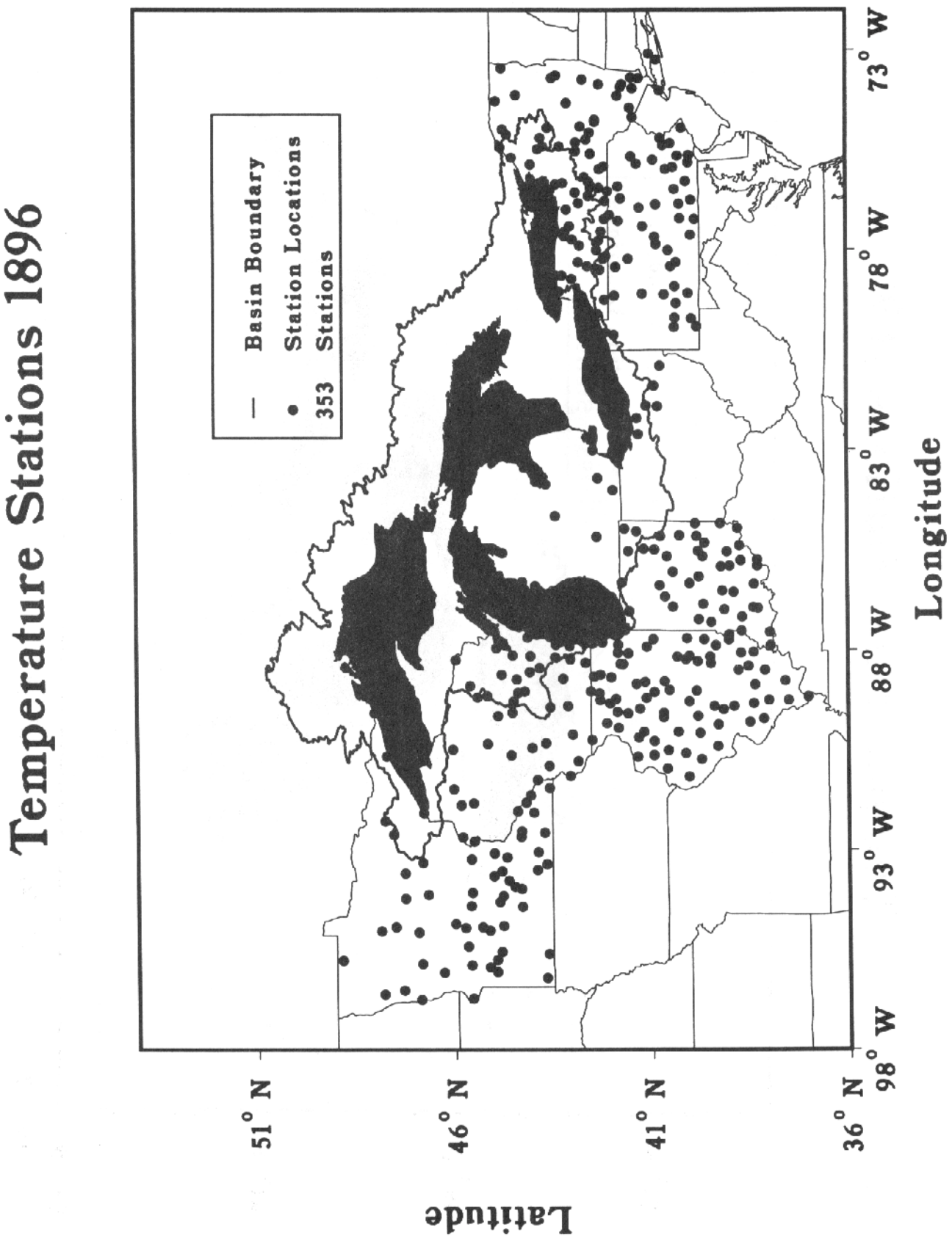

Figure 6. — Distribution of stations for 1896.

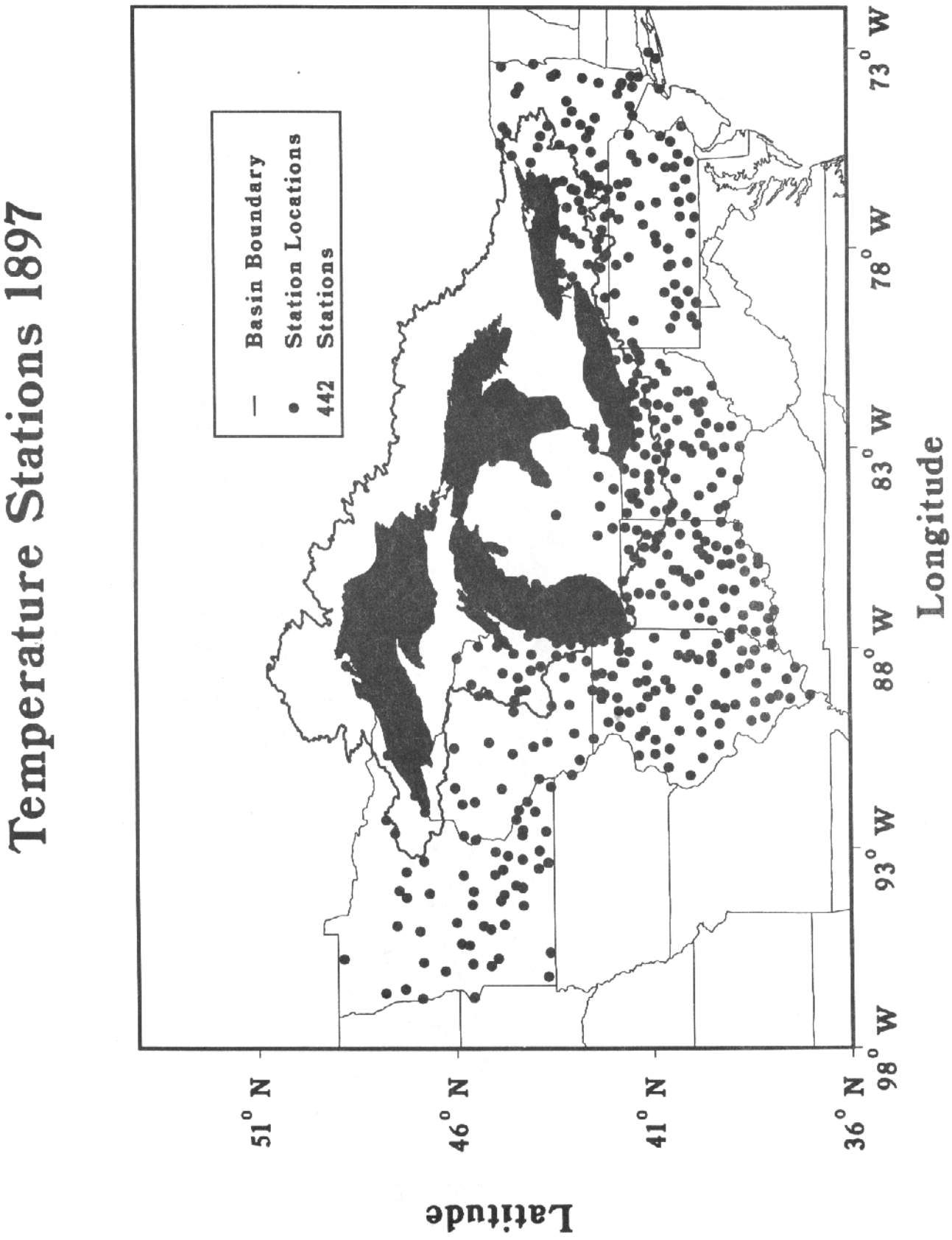

Figure 7. — Distribution of stations for 1897.

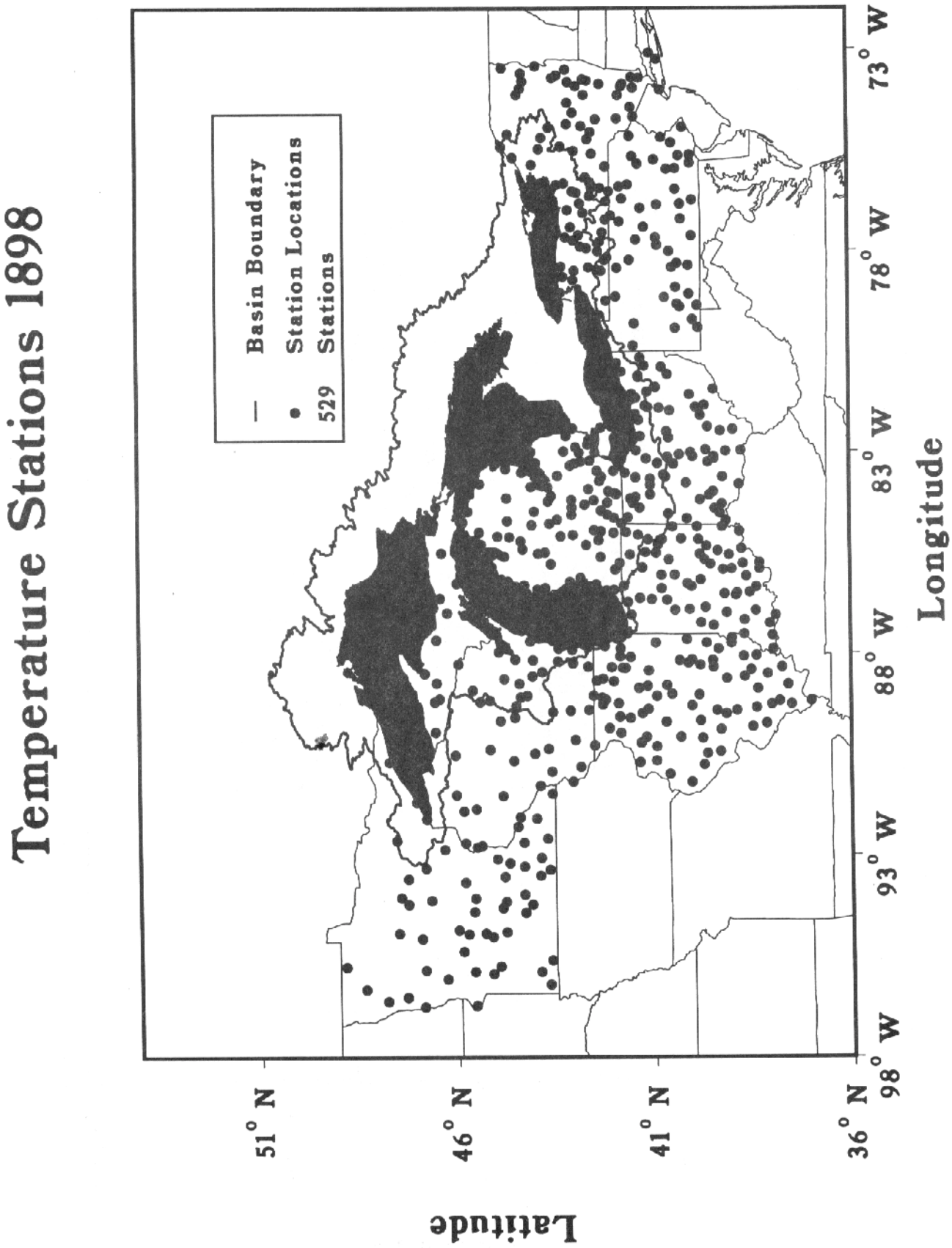

Figure 8. — Distribution of stations for 1898.

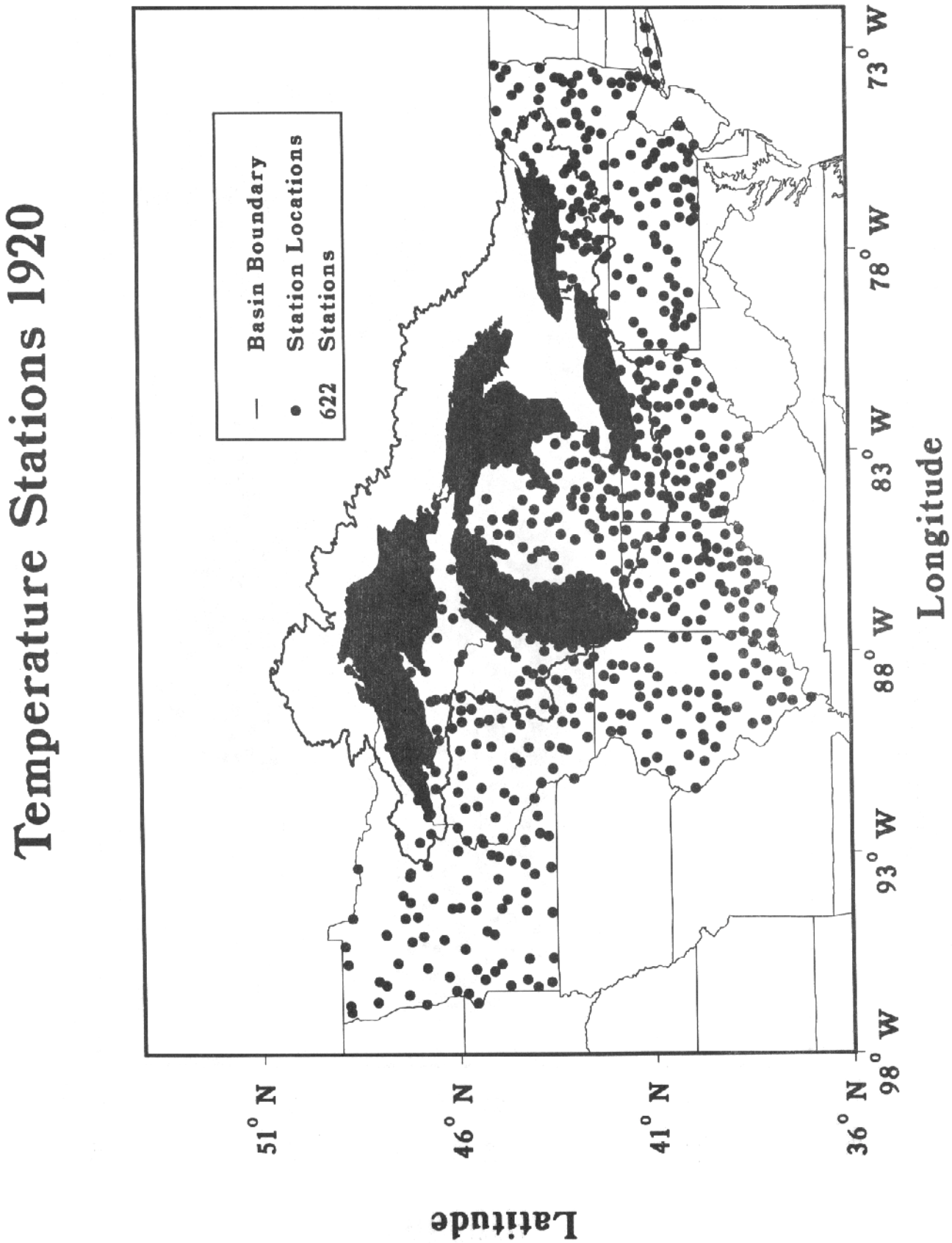

Figure 9. — Distribution of stations for 1920.

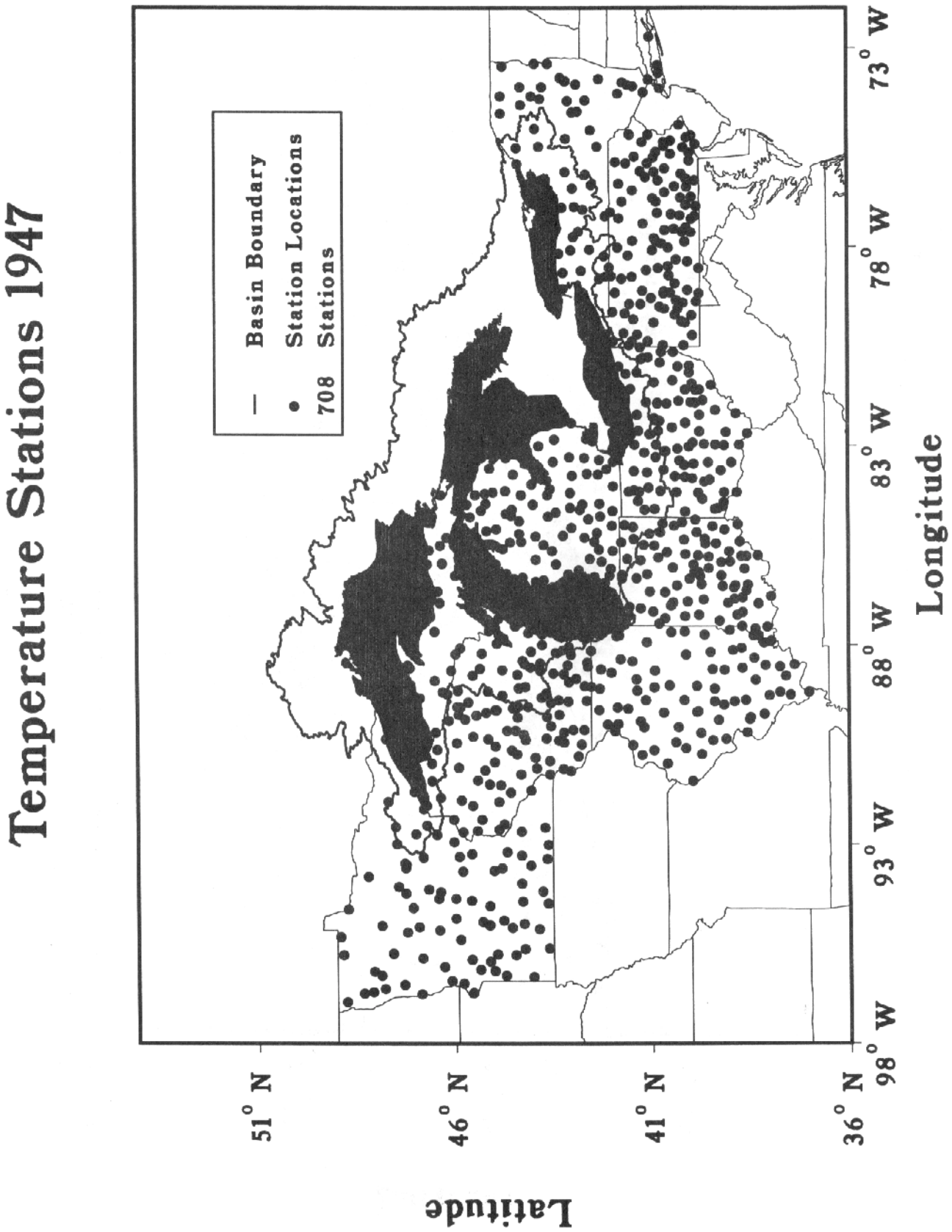

Figure 10. — Distribution of stations for 1947.

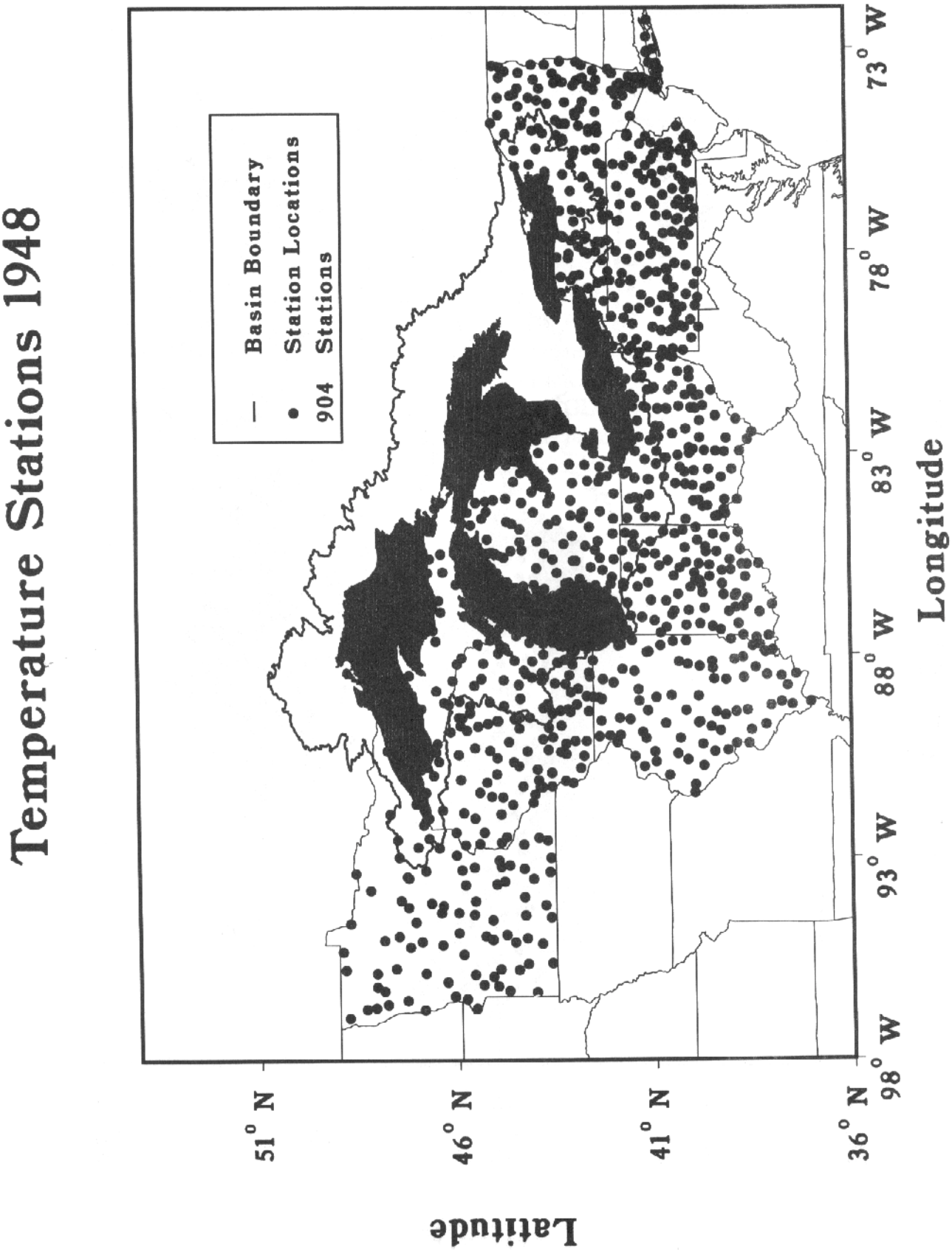

Figure 11. — Distribution of stations for 1948.

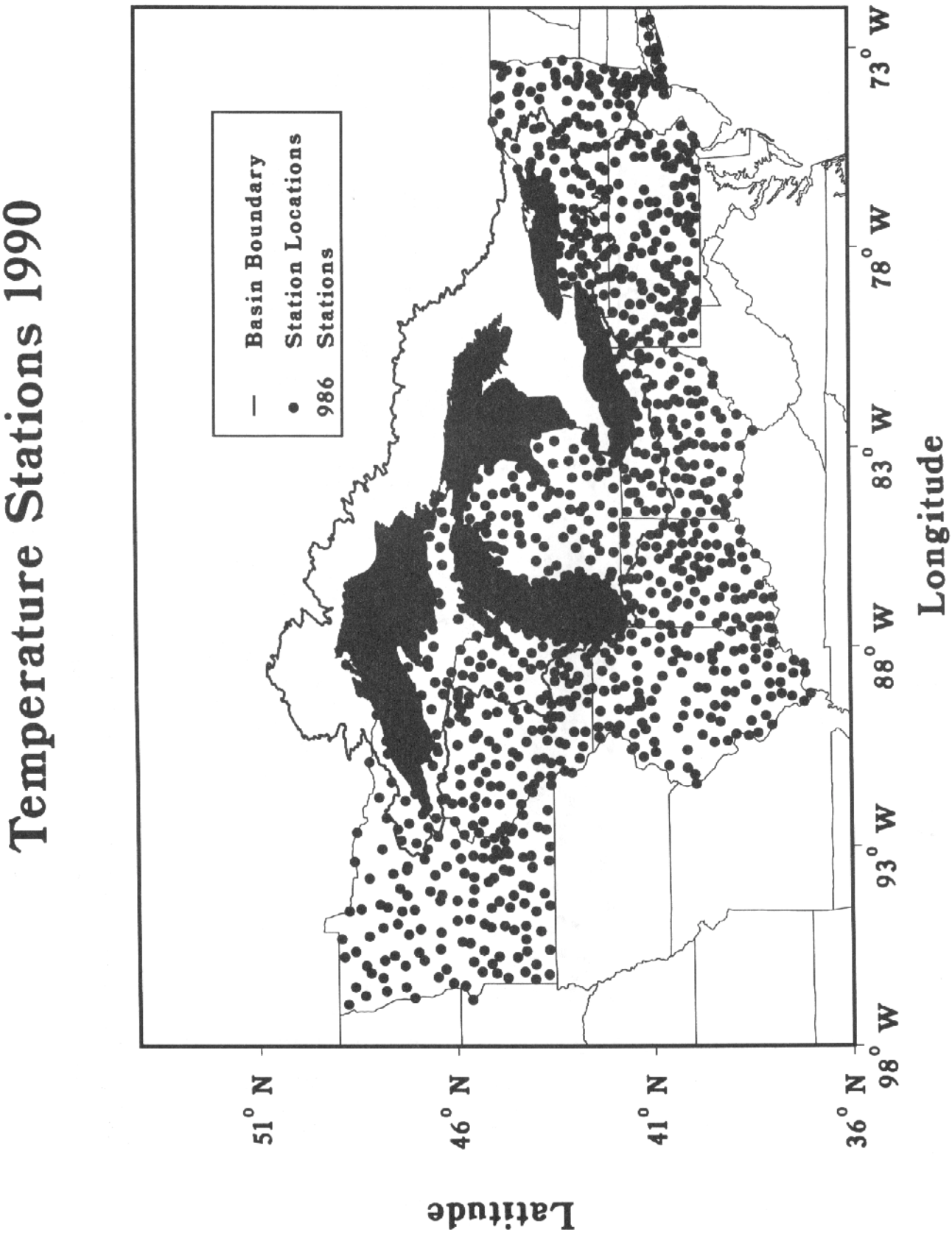

Figure 12. — Distribution of stations for 1990.

examination of the spatial and temporal distribution pattern of monthly and annual temperature. The objective of this analysis will be to identify regional and seasonal trends and changes in long-term means over the period of record, similar to the work described in Bolsenga and Norton (1993) but updated to include the long period of record and expanded to include finer spatial resolution.

5. ACKNOWLEDGEMENTS

This work was funded by NOAA's National Environmental Satellite and Data Information Service's Earth System Data and Information Management Program. The cooperation of the state climatologists of the eight Great Lakes states and of Pam Hughes of NCDC in providing information and data on various aspects of this task is appreciated. The review of a draft copy of this report by Karen Andsager of the Midwestern Climate Center and by Roger Tanner of NCDC is appreciated as is the technical edit by Cathy Darnell of GLERL. The assistance of Alan Shrum of GLERL in the data entry phase of this project is appreciated. This work was completed while Don Meyer was with the Cooperative Institute of Limnological and Ecosystems Research (CILER) at NOAA/GLERL in Ann Arbor.

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Appendix A: Listing of Stations Digitized by State

State	No. of Stations	Page
Illinois	216	21
Indiana	183	23
Michigan	263	25
Minnesota	230	27
New York	392	29
Ohio	257	32
Penn.	326	34
Wisconsin	203	36

ILLINOIS

STN #	LAT	LON	STATION NAME	ELEV	POR
110055	38.383	-88.050	ALBION	537	1895-1990
110072	41.217	-90.750	ALEDO	728	1901-1990
110080	39.750	-90.080	ALEXANDER, MORGAN CO.,	-999	1895-1926
110137	38.883	-90.183	ALTON DAM 26	437	1948-1990
110187	37.467	-89.233	ANNA 1 E	655	1901-1990
110203	42.500	-88.133	ANTIOCH 2 NW	758	1901-1990
110286	41.867	-89.223	ASHTON, LEE CO., IL.	830	1895-1909
110291	40.228	-90.355	ASTORIA, FULTON CO., IL.	662	1899-1914
110338	41.750	-88.350	AURORA	640	1895-1961
110442	42.167	-88.150	BARRINGTON	807	1962-1990
110510	38.500	-89.850	BELLEVILLE SO ILL UNIV	458	1947-1990
110591	39.922	-88.573	BEMENT, PIATT CO., IL.	689	1908-1913
110608	38.033	-88.917	BENTON FOREST SERVICE	457	1902-1990
110766	40.517	-89.000	BLOOMINGTON NORMAL	796	1893-1977
110993	37.133	-88.650	BROOKPORT DAM 52	336	1962-1990
111098	40.553	-90.508	BUSHNELL, MC DONOUGH CO.	400	1895-1909
111160	38.567	-90.217	CAHOKIA	408	1969-1990
111166	37.000	-89.167	CAIRO WSO CI	317	1872-1990
111220	41.302	-90.193	CAMBRIDGE, HENRY CO.	-999	1895-1909
111265	37.733	-89.167	CARBONDALE SEWAGE PLANT	397	1910-1990
111280	39.283	-89.867	CARLINVILLE	635	1895-1990
111288	38.600	-89.367	CARLYLE	464	1939-1964
111290	38.633	-89.333	CARLYLE RESERVOIR	508	1962-1989
111302	38.067	-88.183	CARMI 3	-999	1987-1990
111320	39.300	-90.407	CARROLLTON, GREENE CO.	-999	1896-1907
111329	39.300	-88.000	CASEY	638	1980-1990
111340	40.067	-87.707	CATLIN, VERMILION CO.	-999	1896-1896
111386	38.517	-89.117	CENTRALIA	478	1900-1903
111436	39.483	-88.167	CHARLESTON	687	1896-1990
111469	42.417	-88.667	CHEMUNG, MC HENRY CO.	823	1895-1901
111475	40.733	-88.733	CHENOA	715	1951-1990
111491	37.900	-89.833	CHESTER	465	1907-1910
111497	42.117	-87.767	CHG BOTANICAL GARDEN	638	1981-1990
111526	41.883	-87.617	CHICAGO GRANT PARK	607	1972-1976
111527	41.500	-87.633	CHICAGO HEIGHTS	634	1948-1952
111549	41.983	-87.900	CHICAGO O HARE WSO AP	677	1958-1990
111572	41.783	-87.600	CHICAGO UNIVERSITY	595	1895-1990
111577	41.783	-87.750	CHICAGO MIDWAY AP	628	1928-1990
111582	41.883	-87.633	CHICAGO WB CITY	595	1871-1965
111584	41.883	-87.633	CHICAGO CITY NO 2 WSO	597	1964-1970
111648	41.850	-87.767	CICERO	614	1933-1959
111664	38.517	-88.400	CISNE 2 ESE	456	1896-1907
111743	40.133	-88.967	CLINTON 1 SSW	707	1910-1934
111750	41.100	-89.200	CLEAR CREEK, PUTNAM CO.	-999	1895-1897
111767	40.033	-91.167	COATSBURG, ADAMS CO.	761	1895-1913
111775	37.500	-89.250	COBDEN 2 S	625	1896-1976
111820	40.423	-90.793	COLCHESTER,MCDONOUGH CO.	-999	1905-1909
111992	37.617	-88.833	CREAL SPRINGS	506	1964-1968
112140	40.133	-87.650	DANVILLE	568	1897-1990
112193	39.833	-89.017	DECATUR	628	1894-1990
112223	41.933	-88.767	DE KALB	848	1966-1990
112348	41.833	-89.550	DIXON 3 W	708	1895-1990
112353	37.433	-88.667	DIXON SPRINGS AGR CNTR	548	1967-1990
112483	38.000	-89.250	DU QUOIN 4 SE	427	1895-1990
112497	41.100	-88.417	DWIGHT	644	1897-1927
112600	40.663	-89.573	EAST PEORIA,TAZEWELL CO.	-999	1895-1897
112614	38.567	-90.183	EAST ST LOUIS PARKS COL	415	1942-1968
112679	38.833	-89.950	EDWARDSVILLE 1 NE	488	1987-1988
112687	39.133	-88.617	EFFINGHAM 3 W	608	1895-1990
112736	42.033	-88.333	ELGIN	768	1898-1990
112745	42.333	-90.250	ELIZABETH 5 S	818	1984-1990
112750	37.450	-88.300	ELIZABETHTOWN	405	1949-1967
112850	37.735	-88.338	EQUALITY, GALLATIN CO.	-999	1898-1919
112888	42.033	-87.683	EVANSTON PUMP STA	625	1912-1912
112931	38.383	-88.317	FAIRFIELD RADIO WFIW	437	1901-1990
112990	40.368	-90.762	FANDON, MC DONOUGH CO.	-999	1903-1904
112993	40.250	-88.650	FARMER CITY	738	1962-1990
113109	38.683	-88.567	FLORA 5 NW	507	1898-1990
113129	42.203	-87.807	FORT SHERIDAN, LAKE CO.	613	1895-1899
113257	42.300	-89.617	FREEPORT	784	1909-1973
113262	42.300	-89.600	FREEPORT WASTE WTR PLT	757	1973-1990
113290	41.900	-90.150	FULTON DAM 13	596	1941-1990
113320	40.950	-90.383	GALESBURG	775	1948-1990
113335	41.167	-90.050	GALVA	867	1895-1990
113369	41.367	-88.467	GEBHARD WOODS ST PK	517	1970-1990
113384	41.450	-90.167	GENESEO	647	1956-1990
113413	40.467	-88.367	GIBSON CITY 1 E	668	1980-1990
113522	37.367	-88.483	GOLCONDA DAM 51	358	1895-1978
113530	40.117	-91.033	GOLDEN 1 NW	738	1962-1990
113693	38.883	-89.400	GREENVILLE 1 E	586	1895-1959
113717	39.717	-90.733	GRIGGSVILLE	706	1895-1989
113750	37.800	-89.170	HALLIDAYBORO,JACKSON CO.	-999	1897-1903
113764	37.600	-88.900	HALFWAY, WILLIAMSON CO.	569	1895-1910
113879	37.733	-88.533	HARRISBURG	388	1901-1990
113930	40.300	-90.050	HAVANA	446	1895-1966
113940	40.350	-90.017	HAVANA 4 NNE	467	1966-1990
114013	41.300	-89.317	HENNEPIN POWER PLANT	467	1962-1990
114017	41.117	-89.367	HENRY	494	1898-1950
114108	39.150	-89.483	HILLSBORO	637	1895-1990
114198	40.467	-87.667	HOOPESTON 1 NE	717	1902-1990
114442	39.733	-90.200	JACKSONVILLE 2 E	617	1901-1990
114489	39.100	-90.350	JERSEYVILLE 2 SW	637	1940-1990
114530	41.500	-88.100	JOLIET BRANDON ROAD DAM	547	1975-1990
114535	41.550	-88.083	JOLIET	555	1895-1974
114593	41.083	-87.917	KANKAKEE 3 SW	635	1895-1973
114598	41.133	-87.933	KANKAKEE 4 NW	636	1948-1960
114603	41.133	-87.883	KANKAKEE WTR POLL CTL	647	1973-1990
114629	37.983	-89.950	KASKASKIA R NAV LOCK	388	1974-1990
114710	41.250	-89.900	KEWANEE 1 E	787	1939-1990
114770	42.192	-89.133	KISHWAUKEE, DEKALB CO.	730	1897-1914
114790	40.908	-90.282	KNOXVILLE, KNOX CO.	-999	1895-1909
114805	41.017	-89.350	LACON 2 E	608	1950-1990
114814	41.803	-87.870	LA GRANGE, COOK CO., IL.	645	1895-1917
114823	40.583	-90.967	LA HARPE	707	1895-1990
114837	42.417	-88.050	LAKE VILLA 2 NE	848	1987-1990
114879	42.100	-89.833	LANARK	877	1895-1915
114922	41.333	-89.133	LA SALLE PERU	524	1902-1963
115043	40.643	-88.784	LEXINGTON, MC LEAN CO.	-999	1895-1898
115079	40.150	-89.367	LINCOLN	588	1906-1990
115216	38.767	-88.500	LOUISVILLE	457	1895-1897
115294	37.633	-89.233	MAKANDA 1 NW	685	1951-1976
115326	42.250	-88.600	MARENGO	827	1901-1990
115342	37.767	-88.900	MARION 4 NNE	486	1968-1990
115372	41.333	-88.750	MARSEILLES LOCK	497	1976-1977
115380	39.383	-87.683	MARSHALL 1 E	587	1962-1976
115390	39.335	-87.883	MARTINSVILLE, CLARK CO.	-999	1895-1910
115395	40.917	-87.728	MARTINTON, IROQUOIS CO.	-999	1896-1916
115405	38.483	-89.800	MASCOUTAH	434	1895-1947
115413	40.217	-89.717	MASON CITY 1 NW	598	1962-1990
115430	39.467	-88.333	MATTOON	727	1895-1990
115515	38.100	-88.500	MC LEANSBORO 2 ENE	487	1895-1990
115712	40.900	-89.050	MINONK	758	1896-1990
115751	41.450	-90.500	MOLINE WSO AP	587	1929-1990
115768	40.917	-90.633	MONMOUTH	775	1895-1990
115791	40.033	-88.567	MONTICELLO	634	1899-1901
115805	39.165	-88.380	MONTROSE, EFFINGHAM CO.	-999	1911-1917
115825	41.450	-88.400	MORRIS 5 N	586	1912-1970
115833	41.817	-89.967	MORRISON	605	1901-1990
115841	39.417	-89.467	MORRISONVILLE	637	1979-1990
115846	39.383	-89.400	MORRISONVILLE 4 SE	645	1896-1971
115888	38.400	-87.750	MT CARMEL	420	1931-1990
115893	38.450	-87.783	MOUNT CARMEL	470	1910-1977
115901	42.083	-89.983	MOUNT CARROLL	707	1901-1990
115927	40.017	-89.283	MOUNT PULASKI	640	1895-1905
115943	38.350	-88.867	MOUNT VERNON	490	1895-1947
115950	39.633	-89.033	MOWEAQUA	626	1987-1990
116011	38.383	-89.333	NASHVILLE 4 NE	526	1896-1990
116093	37.583	-88.767	NEW BURNSIDE	564	1895-1964
116159	38.917	-88.117	NEWTON 6 SSE	517	1944-1990
116383	37.167	-89.367	OLIVE BRANCH	438	1983-1990
116446	38.700	-88.067	OLNEY 2 S	487	1895-1990
116492	42.017	-89.333	OREGON WATERWORKS	704	1895-1913
116509	41.683	-88.352	OSWEGO, KENDALL CO.	600	1895-1899
116526	41.350	-88.850	OTTAWA	538	1895-1990
116558	39.000	-87.617	PALESTINE	524	1895-1990
116579	39.383	-89.083	PANA	707	1899-1947
116610	39.633	-87.733	PARIS WW, EDGAR CO., IL.	680	1895-1947
116616	41.500	-87.683	PARK FOREST	717	1952-1990
116661	41.683	-88.983	PAW PAW	938	1962-1990
116663	40.383	-88.083	PAXTON	788	1987-1990
116711	40.667	-89.683	PEORIA WSO AP	657	1856-1985
116753	41.333	-89.150	PERU 2 W	627	1963-1990
116769	40.008	-88.148	PHILO, CHAMPAIGN CO.	650	1895-1915
116819	40.800	-88.133	PIPER CITY 3 SE	678	1968-1990
116910	40.883	-88.633	PONTIAC	650	1903-1947
116998	41.383	-89.483	PRINCETON	-999	1987-1990
117004	40.933	-89.767	PRINCEVILLE	747	1962-1990
117067	39.950	-91.400	QUINCY	607	1901-1977
117072	39.933	-91.200	QUINCY FAA AIRPORT	766	1948-1991
117077	39.900	-91.433	QUINCY DAM 21	487	1977-1990
117126	39.133	-89.117	RAMSEY	606	1990-1990
117150	40.317	-88.167	RANTOUL	747	1895-1990
117155	99.999	999.999	RAUM (SOUTH DISTRICT)	-999	1898-1907
117187	38.033	-88.983	REND LAKE DAM	467	1974-1987
117211	41.330	-90.672	REYNOLDS,ROCK ISLAND CO.	813	1896-1898
117260	42.255	-88.617	RILEY, MCHENRY CO., IL.	956	1895-1917
117336	40.667	-88.183	ROBERTS 3 N	744	1949-1968
117345	39.007	-87.738	ROBINSON, CRAWFORD CO.	534	1896-1911
117349	41.950	-89.167	ROCHELLE 6 NW	787	1956-1978
117354	41.900	-89.067	ROCHELLE	787	1978-1990
117375	42.283	-89.083	ROCKFORD	745	1895-1957
117380	42.350	-89.050	ROCKFORD CAA AP	745	1948-1950

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
117382	42.200	-89.100	ROCKFORD WSO AP	727	1951-1990
117388	41.517	-90.567	ROCK ISLAND DAM 15	574	1935-1937
117391	41.517	-90.567	ROCK ISLAND L & D 15	578	1985-1990
117487	37.417	-88.350	ROSICLARE	498	1968-1990
117495	41.810	-89.950	ROUND GROVE,WHITESIDE CO	-999	1896-1901
117551	40.117	-90.583	RUSHVILLE	668	1895-1990
117636	38.633	-88.950	SALEM	557	1958-1990
117690	42.477	-90.252	SCALES MOUND,JODAVIESS C	-999	1896-1899
117876	39.400	-88.783	SHELBYVILLE DAM	668	1987-1989
117910	38.868	-89.090	SHOBONIER, FAYETTE CO.	-999	1900-1905
117988	42.083	-87.767	SKOKIE	636	1954-1962
118020	37.167	-88.433	SMITHLAND L AND D	368	1981-1990
118145	41.033	-89.433	SPARLAND	445	1952-1953
118147	38.133	-89.717	SPARTA	527	1888-1990
118179	39.833	-89.667	SPRINGFIELD WSO AP	598	1938-1990
118184	39.800	-89.650	SPRINGFIELD WB CITY	605	1879-1955
118189	39.767	-89.600	SPRINGFIELD 4 SE	576	1969-1973
118209	39.027	-88.852	ST. ELMO, FAYETTE CO.	618	1915-1917
118219	38.867	-88.855	ST. PETER, FAYETTE CO.	500	1910-1915
118293	42.350	-90.000	STOCKTON	967	1948-1990
118353	41.133	-88.800	STREATOR 2 ENE	618	1895-1919
118389	39.567	-88.617	SULLIVAN 3 SSW	648	1899-1914
118419	38.430	-87.520	SUMNER, LAWRENCE CO.	459	1909-1912
118452	41.983	-88.683	SYCAMORE	844	1895-1965
118460	40.367	-90.433	TABLE GROVE	734	1942-1956
118604	41.267	-89.467	TISKILWA 2 SE	647	1895-1990
118684	39.800	-88.283	TUSCOLA	658	1895-1990
118740	40.100	-88.233	URBANA	748	1888-1990
118781	38.917	-89.133	VANDALIA 3 SW	548	1973-1990
118783	38.983	-89.167	VANDALIA FAA AIRPORT	535	1951-1973
118817	38.802	-89.088	VERNON, MARION CO., IL.	500	1906-1908
118860	39.517	-89.767	VIRDEN 1 N	688	1948-1990
118916	41.567	-89.583	WALNUT	698	1895-1990
119002	38.333	-90.150	WAERLOO	657	1961-1990
119021	40.783	-87.767	WATSEKA 2 NW	627	1948-1990
119029	42.350	-87.883	WAUKEGAN	707	1949-1990
119060	40.538	-87.677	WELLINGTON, IROQUOIS CO.	-999	1901-1902
119221	41.817	-88.067	WHEATON 3 SE	686	1895-1990
119241	39.433	-90.383	WHITE HALL 1 E	584	1902-1990
119331	39.630	-90.453	WINCHESTER, SCOTT CO.	700	1898-1905
119354	39.433	-88.600	WINDSOR	698	1902-1990
119411	42.267	-89.250	WINNEBAGO, WINNEBAGO CO.	900	1895-1914
119822	41.640	-88.448	YORKVILLE, KENDALL CO.	600	1900-1914
119854	42.450	-87.837	ZION, LAKE CO., IL.	842	1895-1912

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

INDIANA

STN #	LAT	LON	STATION NAME	ELEV	POR
120076	41.400	-85.333	ALBION 5 E	986	1916-1972
120177	40.100	-85.717	ANDERSON SEWAGE PLANT	857	1895-1990
120200	41.633	-84.983	ANGOLA	1017	1887-1990
120270	39.400	-87.100	ASHBORO	-999	1892-1895
120334	41.333	-85.050	AUBURN 2 SSE	886	1896-1988
120545	38.850	-86.500	BEDFORD	677	1898-1978
120676	40.667	-84.950	BERNE	864	1910-1990
120784	39.167	-86.517	BLOOMINGTON INDIANA U	837	1896-1990
120824	40.783	-85.167	BLUFFTON	877	1958-1969
120829	40.750	-85.183	BLUFFTON 1 N	827	1969-1971
120830	40.800	-85.167	BLUFFTON 4 N	818	1971-1990
120831	40.733	-85.167	BLUFFTON WATERWORKS	844	1895-1958
120852	38.033	-87.250	BOONVILLE 2 E	566	1897-1990
120858	40.533	-87.467	BOSWELL	772	1989-1990
120975	39.217	-84.850	BRIGHT, DEARBORN CO.	-999	1896-1901
121030	39.417	-85.017	BROOKVILLE	676	1925-1990
121192	39.033	-85.533	BUTLERVILLE 1 WNW	808	1983-1990
121197	39.050	-85.550	BUTLERVILLE 2 WNW	735	1887-1930
121229	39.817	-85.167	CAMBRIDGE CITY	957	1892-1990
121315	39.700	-86.467	CARTERSBURG	794	1943-1949
121425	38.367	-85.683	CHARLESTOWN ORD PLANT	537	1962-1990
121719	40.917	-87.150	COLLEGEVILLE ST JOS COL	676	1907-1970
121734	41.150	-85.483	COLUMBIA CITY	896	1893-1963
121739	41.133	-85.483	COLUMBIA CITY 1 S	858	1963-1990
121747	39.200	-85.917	COLUMBUS	625	1893-1990
121772	39.667	-85.667	CONNERSVILLE, FAYETTE CO.	844	1893-1924
121843	40.117	-87.450	COVINGTON 3 SW	627	1962-1981
121869	38.867	-86.833	CRANE NAVAL DEPOT	767	1942-1990
121873	40.067	-86.933	CRAWFORDSVILLE 2 NW	758	1982-1990
121882	40.050	-86.900	CRAWFORDSVILLE PWR PL	688	1892-1981
121952	41.167	-86.467	CULVER EXPERIMENT FARM	737	1899-1975
122149	40.617	-86.667	DELPHI 3 NNE	566	1887-1990
122309	38.450	-86.700	DUBOIS S IND FORAGE FRM	696	1955-1990
122549	38.800	-87.233	EDWARDS PORT POWER PLANT	467	1904-1983
122554	38.283	-85.900	EDWARDSVILLE, FLOYD CO.	901	1894-1903
122586	41.700	-85.933	ELKHART	801	1902-1912
122605	39.033	-86.933	ELLISTON	597	1920-1975
122638	40.267	-85.850	ELWOOD	847	1948-1990
122645	39.533	-86.633	EMINENCE	786	1906-1913
122660	38.283	-86.467	ENGLISH	517	1969-1990
122725	38.000	-86.000	EVANS LANDING	437	1962-1975
122731	37.967	-87.550	EVANSVILLE	395	1895-1990
122738	38.050	-87.533	EVANSVILLE WSO AP	387	1940-1990
122805	40.417	-85.650	FAIRMOUNT, GRANT CO.	-999	1899-1903
122813	39.250	-87.383	FARMERSBURG	575	1899-1952
122825	40.250	-85.150	FARMLAND 5 NNW	976	1893-1990
123024	41.083	-85.167	FORT WAYNE WB CITY	777	1897-1946
123037	41.000	-85.200	FORT WAYNE WSO AP	807	1939-1990
123062	40.617	-87.317	FOWLER	825	1930-1971
123082	40.317	-86.500	FRANKFORT DISPOSAL PL	848	1914-1990
123095	39.517	-86.067	FRANKLIN 2 NNE	776	1893-1971
123104	38.867	-87.300	FREELANDVILLE	550	1983-1990
123213	41.617	-87.383	GARY	607	1936-1978
123418	41.567	-85.833	GOSHEN COLLEGE	818	1914-1990
123513	39.650	-86.850	GREENCASTLE 1 E	845	1895-1990
123527	39.783	-85.750	GREENFIELD	877	1903-1990
123547	39.333	-85.450	GREENSBURG 2 E	948	1897-1990
123650	41.630	-87.505	HAMMOND, LAKE CO.	598	1891-1919
123777	40.467	-85.450	HARTFORD CITY 4 NW	936	1959-1990
123881	40.467	-84.850	HECTOR, JAY CO.	-999	1897-1905
123915	38.567	-85.767	HENRYVILLE STATE FOREST	597	1913-1970
123960	39.267	-86.350	HICKORY HILL, BROWN CO.	931	1905-1939
124008	41.533	-87.250	HOBART, LAKE CO., IN.	600	1902-1947
124023	38.250	-87.033	HOLLAND, DUBOIS CO.	500	1902-1907
124113	41.717	-85.417	HOWE	885	1905-1953
124168	38.267	-86.950	HUNTINGBURG AIR PORT	524	1893-1957
124176	40.883	-85.500	HUNTINGTON	805	1893-1979
124181	40.850	-85.500	HUNTINGTON WATERWORKS	737	1979-1990
124244	41.633	-87.083	INDIANA DUNES NAT LKSH	680	1989-1990
124254	39.883	-86.167	INDIANAPOLIS HOL PARK	784	1942-1949
124259	39.733	-86.267	INDIANAPOLIS AP	790	1931-1990
124264	39.767	-86.167	INDIANAPOLIS MONUMT CIR	725	1871-1964
124267	39.850	-86.117	INDIANAPOLIS FALL CREEK	745	1964-1976
124272	39.750	-86.117	INDIANAPOLIS SE SIDE	755	1951-1990
124356	39.900	-86.633	JAMESTOWN 1 S	927	1989-1990
124372	38.383	-86.933	JASPER	466	1893-1898
124382	38.283	-85.750	JEFFERSONVILLE	464	1888-1973
124407	38.267	-87.750	JOHNSON EXPERIMENT FARM	445	1930-1979
124449	40.383	-87.417	JUDYVILLE, WARREN CO.	-999	1907-1918
124492	41.450	-85.250	KENDALLVILLE	1004	1948-1972
124527	40.767	-87.450	KENTLAND	697	1939-1990
124642	39.783	-85.533	KNIGHTSTOWN	836	1896-1902
124657	41.295	-86.620	KNOX, STARKE CO.	716	1897-1918
124662	40.417	-86.050	KOKOMO 7 SE	866	1892-1990
124667	40.467	-86.150	KOKOMO SEWAGE PLANT	807	1957-1968
124715	40.350	-86.867	LAFAYETTE 5 S	605	1954-1990
124730	41.650	-85.417	LAGRANGE SEWAGE PLANT	907	1962-1990
124782	41.500	-86.300	LAKEVILLE 1 W	848	1989-1990
124837	41.600	-86.717	LA PORTE	817	1897-1990
125050	39.583	-84.917	LIBERTY 3 SSE	996	1968-1979
125080	41.722	-85.423	LIMA, LAGRANGE CO.	-999	1905-1909
125117	40.750	-86.383	LOGANS PORT CICOTT ST BR	606	1887-1990
125174	41.283	-87.417	LOWELL	677	1963-1990
125217	39.967	-86.050	LYNWOOD FARMS	747	1976-1988
125237	38.733	-85.400	MADISON SEWAGE PLANT	465	1893-1990
125322	38.367	-86.350	MARENGO	576	1888-1969
125337	40.567	-85.667	MARION 2 N	797	1891-1990
125381	38.783	-84.967	MARKLAND DAM 39	486	1887-1959
125387	40.833	-85.300	MARKLE, HUNTINGTON CO.,	814	1887-1911
125435	39.617	-85.333	MAUZY	1054	1887-1948
125607	41.700	-86.817	MICH CITY PHILIPS AP	656	1959-1971
125656	39.117	-85.133	MILAN WATERWORKS	995	1955-1961
125837	40.750	-86.767	MONTICELLO	708	1924-1930
125873	39.117	-85.100	MOORES HILL	984	1902-1959
126001	37.950	-87.883	MOUNT VERNON	425	1893-1990
126018	40.133	-85.350	MUNCIE 4 SE	954	1893-1962
126020	40.200	-85.417	MUNCIE BALL STATE UNIV	947	1962-1990
126056	39.200	-86.250	NASHVILLE	627	1912-1948
126164	39.933	-85.383	NEW CASTLE	974	1950-1990
126179	38.133	-87.933	NEW HARMONY	395	1941-1952
126304	39.550	-86.100	NEW WHITELAND	797	1971-1990
126435	39.000	-85.650	NORTH VERNON 2 SW	796	1931-1990
126462	40.100	-86.263	NORTHFIELD, BOONE CO.	800	1897-1908
126465	41.700	-86.233	NOTRE DAME MOREAU SEM	734	1912-1953
126506	39.900	-85.983	OAKLANDON GEIST RESVR	804	1944-1990
126542	41.617	-87.183	OGDEN DUNES	617	1951-1989
126580	38.883	-86.550	OOLITIC PURDUE EXP FARM	657	1893-1990
126625	39.133	-85.283	OSGOOD	926	1961-1968
126705	38.533	-86.483	PAOLI, ORANGE CO., IN.	640	1898-1947
126808	39.983	-85.767	PENDLETON REFORMATORY	825	1964-1965
126830	40.067	-87.500	PERRYSVILLE 4 WNW	628	1981-1990
126864	40.750	-86.050	PERU WATERWORKS	646	1898-1901
126872	38.500	-87.283	PETERSBURG 61 BRIDGE	495	1989-1990
126989	41.333	-86.300	PLYMOUTH	808	1989-1990
127028	41.333	-86.317	PLYMOUTH POWER SUBSTA	794	1894-1989
127069	40.417	-85.000	PORTLAND 1 SW	917	1964-1990
127090	39.285	-87.607	PRAIRIE CREEK, VIGO CO.	-999	1899-1902
127102	41.633	-85.200	PRAIRIE HEIGHTS	997	1973-1990
127125	38.350	-87.583	PRINCETON 1 W	487	1893-1990
127298	40.933	-87.150	RENSSELAER	657	1900-1990
127362	39.850	-84.850	RICHMOND WATERWORKS	975	1888-1968
127370	39.883	-84.883	RICHMOND WTR WKS 2 NNE	1027	1968-1990
127482	41.067	-86.217	ROCHESTER	776	1904-1990
127508	37.883	-87.048	ROCK PORT, SPENCER CO.	-999	1897-1900
127522	39.767	-87.233	ROCKVILLE	696	1889-1990
127547	37.933	-86.500	ROME, PERRY CO.	370	1903-1939
127601	40.850	-86.500	ROYAL CENTER	727	1918-1930
127646	39.600	-85.450	RUSHVILLE SEWAGE PLANT	965	1901-1990
127724	38.167	-86.800	SAINT MEINRAD	517	1959-1990
127747	40.383	-85.000	SALAMONIA 7 W	975	1906-1976
127755	38.617	-86.083	SALEM	806	1897-1990
127875	38.700	-85.767	SCOTTSBURG	554	1894-1990
127935	38.983	-85.900	SEYMOUR 2 N	575	1892-1990
127959	39.167	-87.250	SHAKAMAK STATE PARK	530	1989-1990
127999	39.517	-85.783	SHELBYVILLE SEWAGE PL	757	1893-1990
128036	38.667	-86.800	SHOALS HIWAY 50 BRIDGE	558	1912-1990
128187	41.700	-86.317	SOUTH BEND WSO AP	797	1893-1990
128290	39.283	-86.767	SPENCER	557	1949-1990
128349	38.283	-87.250	SPURGEON 2 N	480	1962-1990
128528	39.100	-87.417	SULLIVAN	517	1968-1976
128610	41.400	-85.733	SYRACUSE, KOSCIUSKO CO.	864	1897-1907
128698	37.950	-86.767	TELL CITY POWER PLANT	404	1939-1990
128723	39.350	-87.417	TERRE HAUTE 8 S	565	1954-1990
128725	39.450	-87.300	TERRE HAUTE CAA AP	585	1890-1954
128737	41.167	-87.333	THAYER, NEWTON CO.	-999	1930-1930
128784	40.217	-86.117	TIPTON 5 SW	908	1989-1990
128789	40.283	-86.067	TIPTON HIGHWAY GARAGE	875	1897-1897
128809	41.538	-85.540	TOPEKA, LAGRANGE CO.	950	1893-1906
128848	39.417	-86.150	TRAFALGAR	848	1989-1989
128973	40.467	-85.450	UPLAND 1 S	925	1989-1990
128989	38.800	-86.067	VALLONIA, JACKSON CO.	-999	1936-1944
128999	41.517	-87.033	VALPARAISO WATERWORKS	806	1893-1990
129040	40.117	-87.267	VEEDERSBURG	684	1893-1952
129064	39.067	-85.250	VERSAILLES	977	1969-1977
129080	38.750	-85.067	VEVAY	477	1960-1990
129112	38.683	-87.517	VINCENNES	428	1894-1982
129113	38.733	-87.500	VINCENNES 5 NE	458	1982-1990
129138	40.783	-85.800	WABASH 1 SE	738	1925-1990
129222	41.433	-86.933	WANATAH 2 WNW	746	1961-1990
129240	41.233	-85.867	WARSAW	815	1897-1990
129253	38.667	-87.167	WASHINGTON	540	1896-1947
129271	41.417	-85.033	WATERLOO	917	1940-1983
129381	38.567	-86.617	W BADEN SPRINGS COLLEGE	526	1946-1964
129424	40.417	-86.933	WEST LAFAYETTE FAA AP	606	1944-1989

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
129427	40.417	-86.917	W LAFAYETTE PURDUE U	625	1887-1953
129430	40.467	-87.000	WEST LAFAYETTE 6 NW	716	1901-1990
129511	41.233	-87.067	WHEATFIELD 2 NNW	656	1916-1990
129557	40.000	-86.333	WHITESTOWN	947	1896-1990
129570	41.650	-87.483	WHITING	625	1909-1962
129670	41.000	-86.650	WINAMAC 5 SW	698	1897-1990
129678	40.183	-84.917	WINCHESTER AIR PORT	1115	1931-1990
129690	41.217	-85.817	WINONA LAKE,KOSCIUSKO CO.	865	1908-1930
129792	39.117	-86.983	WORTHINGTON	524	1887-1919

MICHIGAN

STN #	LAT	LON	STATION NAME	ELEV	POR
200089	46.650	-88.483	ALBERTA FORD FOR CENTER	1317	1957-1990
200094	42.250	-84.767	ALBION	946	1946-1990
200128	42.517	-85.833	ALLEGAN	677	1931-1990
200146	43.383	-84.667	ALMA	767	1887-1990
200159	42.917	-83.033	ALMONT	827	1978-1990
200164	45.067	-83.567	ALPENA WSO AP	697	1931-1990
200169	45.067	-83.433	ALPENA WW+TRTMT+PLT	597	1948-1990
200230	42.300	-83.717	ANN ARBOR UNIV OF MICH	907	1881-1990
200343	44.983	-84.167	ATLANTA 2 SW	1178	1931-1990
200417	43.817	-83.000	BAD AXE	726	1925-1990
200446	43.900	-85.850	BALDWIN	847	1899-1990
200457	42.785	-83.235	BALL MT., OAKLAND CO.	932	1898-1909
200485	46.883	-88.600	BARAGA 5 WNW	648	1967-1987
200489	46.783	-88.483	BARAGA 1 N	808	1898-1951
200552	42.333	-85.183	BATTLE CREEK	938	1895-1990
200568	43.617	-83.867	BAY CITY	597	1887-1978
200647	46.183	-88.883	BEECHWOOD 7 WNW	1668	1949-1990
200710	42.133	-86.433	BENTON HARBOR AIRPORT	656	1898-1990
200715	44.630	-86.233	BENZONIA, BENZIE CO.,	832	1898-1930
200718	46.583	-89.550	BERGLAND DAM	1306	1949-1990
200723	42.908	-82.883	BERLIN, ST. CLAIR CO.,	-999	1898-1912
200735	41.950	-86.417	BERRIEN SPRINGS 5 W	757	1898-1990
200745	46.483	-90.017	BESSEMER, GOGEBIC CO.	1433	1931-1938
200770	46.800	-87.733	BIG BAY 1 S	688	1945-1990
200779	43.700	-85.483	BIG RAPIDS WATERWORKS	936	1898-1990
200787	42.548	-83.213	BIRMINGHAM, OAKLAND CO.	860	1898-1906
200793	46.100	-85.95	BLANEY, SCHOOLCRAFT CO.	-999	1906-1911
200864	43.383	-85.967	BLOOMINGDALE	738	1904-1990
200924	45.217	-84.800	BOYNE FALLS ST NURSERY	834	1948-1963
200925	45.167	-84.917	BOYNE FALLS	746	1961-1990
200972	46.067	-85.167	BREVORT 6 NW	706	1953-1968
201176	44.267	-85.400	CADILLAC	1306	1898-1990
201213	47.167	-88.500	CALUMET CAA AP	1095	1931-1952
201221	41.750	-84.767	CAMDEN, HILLSDALE CO.	1210	1898-1899
201299	43.450	-83.400	CARO STATE HOSPITAL	678	1928-1990
201331	42.260	-82.400	CARSONVILLE, SANILAC CO.	804	1898-1906
201364	41.908	-86.010	CASSOPOLIS, CASS CO.	900	1900-1938
201439	46.517	-87.983	CHAMPION VAN RIPER PARK	1576	1949-1990
201468	45.317	-85.283	CHARLEVOIX	607	1898-1990
201476	42.550	-84.833	CHARLOTTE	906	1902-1990
201484	46.350	-86.933	CHATHAM EXP FARM	887	1900-1988
201486	46.333	-86.917	CHATHAM EXP FARM 2	878	1987-1990
201492	45.650	-84.467	CHEBOYGAN	597	1898-1990
201634	42.073	-83.972	CLINTON, LENAWEE CO.	830	1898-1916
201675	41.950	-85.000	COLDWATER STATE SCHOOL	986	1897-1990
201704	42.233	-86.317	COLOMA 3 NNW	706	1931-1951
201744	42.177	-84.640	CONCORD, JACKSON CO.	-999	1905-1912
201775	47.467	-87.867	COPPER HARBOR	620	1977-1978
201777	47.483	-87.950	COPPER HARBOR 3 WNW	637	1979-1984
201780	47.467	-87.867	COPPER HARBOR FT WILKNS	637	1948-1990
201800	45.883	-87.300	CORNELL 4 WSW	887	1963-1990
201804	45.983	-87.267	CORNELL 6 NNW	916	1951-1970
201896	45.633	-85.033	CROSS VILLAGE	716	1953-1990
201901	43.273	-82.618	CROSWELL, SANILAC CO.	731	1931-1939
201922	46.167	-88.233	CRYSTAL FALLS 6 NE	1367	1948-1989
202015	42.317	-83.233	DEARBORN	617	1952-1990
202028	46.617	-85.617	DEER PARK STATE FOREST	675	1900-1954
202094	46.017	-83.917	DE TOUR VILLAGE	607	1900-1990
202102	42.417	-83.017	DETROIT CITY AIRPORT	637	1871-1990
202103	42.233	-83.333	DETROIT METRO. WSO AP	637	1958-1990
202104	42.233	-83.533	DETROIT WBAP WILLOW RUN	716	1950-1968
202140	42.650	-84.650	DIMONDALE 1 WSW	887	1978-1990
202248	41.983	-86.083	DOWAGIAC 2 E	764	1939-1951
202250	41.983	-86.133	DOWAGIAC 1 W	746	1953-1990
202293	46.333	-87.167	DUKES, MARQUETTE CO.	1110	1927-1942
202298	46.317	-84.233	DUNBAR FOREST EXP STA	608	1945-1990
202307	41.950	-83.650	DUNDEE, MONROE CO.	681	1900-1990
202329	42.912	-83.987	DURAND, SHIAWASSEE CO.	799	1907-1927
202332	47.467	-88.167	EAGLE HARBOR COAST GD	630	1899-1972
202381	45.150	-85.133	EAST JORDAN	596	1931-1990
202393	42.700	-84.467	EAST LANSING EXP FARM	895	1899-1960
202394	42.733	-84.483	EAST LANSING WB CITY	865	1948-1959
202395	42.667	-84.483	EAST LANSING 4 S	887	1957-1990
202423	44.283	-83.500	EAST TAWAS	598	1898-1990
202437	42.517	-84.650	EATON RAPIDS	876	1948-1990
202445	42.017	-86.250	EAU CLAIRE 4 NE	877	1924-1990
202490	43.367	-85.067	EDMORE 3 SSW	958	1977-1978
202497	44.617	-86.217	ELBERTA	606	1953-1967
202626	45.750	-87.033	ESCANABA	607	1898-1990
202631	43.650	-83.850	ESSEXVILLE	597	1978-1990
202671	43.900	-85.267	EVART	1007	1937-1990
202674	46.533	-89.183	EWEN 5 E	114	1898-1955
202737	45.683	-86.700	FAYETTE 3 SW	758	1920-1990
202750	42.600	-86.150	FENNVILLE, ALLEGAN CO.	664	1901-1906
202782	44.517	-85.350	FIFE LAKE 4 S	997	1974-1978
202784	44.550	-85.417	FIFE LAKE 4 SW	1087	1931-1983
202833	42.443	-84.192	FITCHBURG, INGHAM CO.	981	1898-1905
202846	42.967	-83.750	FLINT WSO AP	777	1931-1990
202851	43.017	-83.700	FLINT 7 W	687	1948-1990
202984	44.650	-86.200	FRANKFORT 2 NE	876	1898-1990
203051	42.583	-86.200	GANGES, ALLEGAN CO.	655	1908-1939
203081	46.167	-85.300	GARNET	1024	1910-1952
203096	45.033	-84.717	GAYLORD 2 W	1358	1900-1990
203123	46.283	-85.950	GERMFASK WILDLIFE REF	714	1939-1961
203170	43.967	-84.467	GLADWIN	788	1898-1990
203176	44.933	-85.917	GLEN ARBOR 4 NE	635	1954-1958
203178	44.917	-85.967	GLEN ARBOR LEELANAU SCH	614	1947-1954
203290	43.067	-86.217	GRAND HAVEN FIRE DEPT	627	1898-1990
203319	46.667	-85.967	GRAND MARAIS 1 SE	628	1900-1990
203332	42.900	-85.667	GRAND RAPIDS WB AIRPORT	686	1948-1963
203333	42.883	-85.517	GRAND RAPIDS WSO AP	717	1963-1990
203337	42.967	-85.667	GRAND RAPIDS WB CITY	645	1948-1956
203362	41.943	-83.469	GRAPE, MONROE CO.	625	1898-1916
203379	42.253	-84.213	GRASS LAKE, JACKSON CO.	989	1905-1915
203391	44.650	-84.700	GRAYLING	1147	1898-1990
203429	43.200	-85.250	GREENVILLE 2 NNE	886	1931-1990
203477	42.383	-82.900	GROSSE POINTE FARMS	618	1950-1990
203481	42.433	-82.883	GROSSE POINT SHORES	584	1946-1950
203504	42.400	-85.400	GULL LAKE BIOL STA	896	1931-1990
203521	42.217	-86.367	HAGAR, BERRIEN CO.	650	1902-1907
203529	44.467	-83.717	HALE LOUD DAM	827	1931-1990
203561	42.095	-84.557	HANOVER, JACKSON CO.	1130	1898-1903
203576	41.867	-86.633	HARBERT, BERRIEN CO.	-999	1906-1907
203585	43.867	-82.683	HARBOR BEACH 3 NW	608	1899-1990
203616	44.033	-84.800	HARRISON 1 NNW	1166	1898-1985
203624	44.650	-83.300	HARRISVILLE	656	1899-1965
203627	44.617	-83.417	HARRISVILLE 7 SW	657	1965-1971
203628	44.750	-83.300	HARRISVILLE 6 N	610	1971-1984
203632	43.700	-86.367	HART	688	1898-1990
203661	42.650	-85.300	HASTINGS	787	1898-1990
203698	43.933	-83.267	HAYES, HURON CO.	620	1898-1914
203744	46.667	-88.333	HERMAN, BARAGA CO.	1828	1968-1990
203769	43.583	-86.100	HESPERIA, NEWAYGO CO.	787	1948-1990
203785	44.517	-84.750	HIGGINS LAKE	1196	1908-1978
203823	41.933	-84.633	HILLSDALE	1087	1898-1990
203858	42.800	-86.117	HOLLAND	617	1898-1990
203908	47.167	-88.500	HOUGHTON AP,HOUGHTON CO.	1076	1900-1990
203914	47.117	-88.567	HOUGHTON MICH TECH	-999	1931-1950
203932	44.317	-84.883	HOUGHTON LAKE,ROSCOMMON	1147	1931-1990
203936	44.367	-84.683	HOUGHTON LAKE AP,ROSCOMM	1157	1964-1990
203947	42.583	-83.917	HOWELL WASTEWATER PL	928	1898-1990
203991	47.370	-87.87	HUMBOLDT, MARQUETTE CO.	1536	1898-1929
204006	46.883	-87.867	HURON MOUNTAIN	625	1949-1959
204078	42.983	-85.050	IONIA, IONIA CO.	758	1898-1990
204090	45.833	-88.067	IRON MOUNTAIN WATERWKS	1068	1899-1990
204104	46.467	-90.183	IRONWOOD, GOGEBIC CO.	1437	1901-1990
204127	46.483	-87.650	ISHPEMING	1447	1898-1987
204130	48.000	-88.900	ISLE ROYAL, KEWEENAW CO.	-999	1900-1990
204150	42.267	-84.450	JACKSON AP, JACKSON CO.	1016	1897-1990
204153	44.600	-85.100	IVAN, KALKASKA CO.	1000	1898-1951
204184	43.150	-82.600	JEDDO, ST. CLAIR CO.	667	1898-1920
204244	42.283	-85.600	KALAMAZOO STATE HOSP	956	1898-1990
204257	44.733	-85.167	KALKASKA, KALKASKA CO.	1047	1948-1990
204320	43.200	-85.767	KENT CITY 2 SW	846	1948-1990
204328	46.483	-88.883	KENTON, HOUGHTON CO.	1176	1940-1990
204394	46.250	-84.467	KINCHELOE AF BASE	780	1960-1990
204406	46.250	-84.467	KINROSS AIR FORCE BASE	785	1953-1959
204502	44.317	-85.200	LAKE CITY, MISSAUKEE CO.	1247	1898-1990
204623	46.733	-88.450	L ANSE 2 S	776	1948-1967
204641	42.767	-84.600	LANSING AP, INGHAM CO.	847	1940-1990
204655	43.050	-83.333	LAPEER, LAPEER CO.	878	1898-1990
204660	43.033	-83.283	LAPEER 2 SE	834	1931-1949
204670	46.200	-86.98	LATHRUP, DELTA CO.	1042	1898-1904
204790	44.687	-83.412	LINCOLN, ALCONA CO.	785	1898-1903
204944	42.933	-85.333	LOWELL	647	1948-1990
204954	43.900	-86.400	LUDINGTON 4 SE	697	1896-1990
204967	44.417	-84.017	LUPTON 1 S	907	1951-1990
204969	44.033	-85.683	LUTHER	1035	1909-1953
204995	45.850	-84.620	MACKINAC ISLAND,MACKINAC	831	1901-1938
205000	45.783	-84.733	MACKINAW CITY NO 2	596	1898-1972
205024	41.875	-84.042	MADISON, LENAWEE CO.	760	1898-1901
205043	44.900	-85.083	MANCELONA	1114	1898-1953
205065	44.233	-86.300	MANISTEE	678	1888-1990
205073	45.950	-86.250	MANISTIQUE	627	1898-1990
205097	44.850	-85.850	MAPLE CITY	736	1959-1990
205148	42.722	-82.498	MARINE CITY,ST.CLAIR CO.	-999	1903-1906
205178	46.550	-87.383	MARQUETTE	677	1948-1990
205184	46.533	-87.550	MARQUETTE WSO	1427	1959-1990
205381	45.107	-87.613	MENOMINEE, MENOMINEE CO.	581	1899-1926
205434	43.617	-84.217	MIDLAND	647	1898-1990
205436	43.600	-84.233	MIDLAND 2	657	1931-1970
205450	42.067	-83.617	MILAN 4 ESE	670	1984-1990
205452	42.583	-83.700	MILFORD GM PROVING GRND	997	1931-1990
205531	44.667	-84.133	MIO HYDRO PLANT	966	1898-1990

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
205558	41.917	-83.400	MONROE	597	1917-1990
205567	43.467	-86.417	MONTAGUE 4 NW	657	1902-1990
205603	41.717	-84.200	MORENCI	778	1907-1990
205637	48.100	-88.550	MOTT ISLAND ISLE ROYALE	626	1940-1990
205642	41.800	-85.750	MOTTVILLE, ST. JOSEPH CO.	920	1898-1900
205650	42.600	-82.817	MOUNT CLEMENS AF BASE	588	1898-1990
205662	43.583	-84.767	MT PLEASANT UNIVERSITY	806	1898-1990
205690	46.400	-86.650	MUNISING	627	1911-1990
205712	43.167	-86.233	MUSKEGON WSO AP	637	1948-1990
205801	43.417	-85.783	NEWAYGO 2	758	1976-1984
205803	43.483	-85.633	NEWAYGO HARDY DAM	766	1907-1974
205816	46.333	-85.500	NEWBERRY STATE HOSPITAL	888	1898-1990
205991	45.117	-85.983	NORTH MANITOU IS NO 2	596	1954-1965
205995	42.268	-84.960	NORTH MARSHALL,CALHOUN CO	990	1898-1902
206007	45.133	-85.650	NORTHPORT 2 W	-999	1898-1990
206158	44.917	-85.500	OLD MISSION 3 SSW	657	1898-1990
206164	42.445	-84.933	OLIVET, EATON CO.	934	1898-1919
206171	44.047	-83.855	OMER, ARENAC CO.	616	1898-1925
206184	45.433	-84.233	ONAWAY STATE PARK	696	1931-1990
206189	45.183	-84.200	ONAWAY 12 S	895	1900-1955
206210	46.867	-89.317	ONTONAGON	706	1900-1977
206220	46.833	-89.200	ONTONAGON 6 SE	797	1977-1990
206292	43.008	-84.372	OVID, CLINTON CO.	760	1898-1911
206300	43.017	-84.183	OWOSSO WASTEWATER PLANT	778	1898-1990
206404	42.217	-85.900	PAW PAW	717	1931-1965
206438	45.567	-84.783	PELLSTON FAA AIRPORT	726	1942-1990
206507	45.367	-84.983	PETOSKEY	617	1898-1990
206590	44.467	-85.133	PIONEER	1437	1951-1953
206642	42.368	-83.468	PLYMOUTH, WAYNE CO.	725	1898-1924
206658	42.650	-83.300	PONTIAC STATE HOSPITAL	988	1901-1990
206661	44.043	-82.995	PORT AUSTIN, HURON CO.	618	1898-1909
206680	42.983	-82.417	PORT HURON	597	1898-1990
206922	43.875	-85.512	REED CITY, OSCEOLA CO.	1033	1898-1921
206968	46.167	-85.250	REXTON	875	1952-1957
207068	46.067	-87.167	ROCK	948	1905-1990
207075	46.410	-89.110	ROCKLAND, ONTONAGON CO.	1190	1898-1899
207089	45.383	-83.833	ROGERS CITY 3 S	740	1948-1978
207091	45.400	-83.917	ROGERS CITY 5W	1015	1950-1953
207094	45.350	-83.783	ROGERS CITY 5 SE	628	1898-1990
207097	42.817	-83.017	ROMEO 1 N	806	1898-1973
207122	44.500	-84.600	ROSCOMMON	1137	1900-1951
207190	46.283	-84.617	RUDYARD 4 N	757	1978-1990
207217	43.450	-83.967	SAGINAW CON. P. CO.	608	1902-1987
207227	43.533	-84.083	SAGINAW FAA AIRPORT	666	1898-1990
207253	43.300	-84.133	SAINT CHARLES	608	1948-1990
207274	45.850	-84.717	ST IGNACE (MACKINAC BR)	607	1898-1990
207277	45.750	-85.500	ST JAMES BEAVER ISLAND	678	1905-1990
207280	43.017	-84.550	SAINT JOHNS	760	1898-1990
207286	42.100	-86.517	ST. JOSEPH, BERRIEN CO.	593	1931-1941
207350	43.417	-82.833	SANDUSKY	776	1909-1990
207358	42.930	-85.215	SARANAC, IONIA CO.	639	1906-1939
207366	46.467	-84.367	SAULT STE MARIE WSO	727	1888-1990
207405	43.967	-86.267	SCOTTVILLE 1 NE	686	1948-1978
207413	43.883	-85.183	SEARS 2S	1024	1948-1951
207515	46.283	-85.950	SENEY NATL WLR	716	1961-1990
207557	46.483	-88.717	SIDNAW, HOUGHTON CO.	1330	1898-1940
207590	43.192	-85.938	SLOCUM, MUSKEGON CO.	-999	1902-1907
207662	42.100	-84.248	SOMERSET, HILLSDALE CO.	-999	1898-1907
207690	42.400	-86.283	SOUTH HAVEN EXP FARM	628	1898-1990
207812	46.067	-88.633	STAMBAUGH 1 S	1568	1931-1990
207820	44.000	-83.967	STANDISH 1 N	618	1938-1990
207826	43.295	-85.080	STANTON, MONTCALM CO.	880	1898-1912
207867	45.417	-87.717	STEPHENSON 6 W	718	1948-1990
208043	46.600	-85.233	TAHQUAMENON FALLS S PK	756	1968-1990
208159	46.518	-89.925	THOMASTON, GOGEBIC CO.	1347	1898-1914
208172	42.943	-83.283	THORNVILLE, LAPEER CO.	975	1898-1914
208184	41.933	-85.633	THREE RIVERS	817	1931-1990
208251	44.733	-85.583	TRAVERSE CITY FAA AP	626	1896-1990
208293	46.200	-85.017	TROUT LAKE	847	1948-1990
208402	43.210	-82.983	VALLEY CENTER,SANILAC CO.	803	1898-1899
208411	41.917	-85.913	VANDALIA, CASS CO.	884	1898-1900
208417	45.167	-84.450	VANDERBILT 11 ENE	937	1931-1990
208422	45.780	-86.550	VAN'S HARBOR, DELTA CO.	-999	1902-1904
208434	43.372	-83.585	VASSAR, TUSCOLA CO.	641	1898-1920
208506	46.667	-89.233	VICTORIA, ONTONAGON CO.	1236	1909-1924
208650	42.750	-83.050	WASHINGTON 2 NNW	838	1974-1987
208680	46.283	-89.167	WATERSMEET	1617	1909-1990
208725	42.267	-83.350	WAYNE	635	1931-1956
208746	42.950	-84.950	WEBBER DAM, IONIA CO.	663	1931-1939
208751	42.667	-84.183	WEBBERVILLE, INGHAM CO.	884	1902-1910
208800	44.267	-84.233	WEST BRANCH	898	1900-1990
208851	46.380	-86.620	WETMORE, ALGER CO.	878	1898-1911
208887	43.552	-85.772	WHITE CLOUD, NEWAYGO CO.	873	1898-1903
208920	46.767	-84.967	WHITEFISH POINT	618	1900-1990
209006	42.683	-84.300	WILLIAMSTON	898	1898-1990
209014	42.083	-83.583	WILLIS 5 SSW	668	1931-1983
209105	45.283	-84.617	WOLVERINE STATE FOREST	774	1931-1949
209218	42.250	-83.617	YPSILANTI E. MICH UNIV	787	1898-1990

MINNESOTA

STN #	LAT	LON	STATION NAME	ELEV	POR
210018	47.300	-96.517	ADA	914	1896-1990
210050	48.300	-95.983	AGASSIZ REFUGE	1146	1961-1990
210059	46.533	-93.717	AITKIN	1228	1958-1990
210075	43.650	-93.350	ALBERT LEA	1238	1896-1990
210112	45.867	-95.383	ALEXANDRIA FAA AP	1428	1897-1990
210157	43.883	-94.150	AMBOY	1068	1905-1906
210195	48.100	-96.700	ANGUS 1 N	877	1902-1975
210252	48.333	-96.733	ARGYLE 4 E	876	1931-1990
210287	45.367	-96.133	ARTICHOKE LAKE	1084	1917-1990
210317	46.250	-95.767	ASHBY, GRANT CO.	1293	1899-1906
210355	43.617	-93.000	AUSTIN 3 S	1227	1938-1990
210390	47.683	-91.917	BABBITT 2 SE	1624	1931-1986
210432	47.525	-95.397	BAGLEY, CLEARWATER CO.	1446	1906-1917
210515	48.717	-94.617	BAUDETTE	1085	1909-1990
210520	48.417	-94.567	BAUDETTE 21 SSE	1188	1910-1990
210541	45.550	-96.717	BEARDSLEY	1095	1896-1973
210546	47.337	-95.807	BEAULIEU, MAHNOMEN CO.	1200	1901-1912
210628	44.622	-93.763	BELLE PLAINE, SCOTT CO.	800	1896-1896
210643	47.500	-94.933	BEMIDJI AIRPORT	1385	1896-1990
210667	45.317	-95.600	BENSON	1045	1952-1990
210746	48.200	-93.800	BIG FALLS	1228	1930-1990
210754	47.700	-93.550	BIGFORK 5 ESE	1410	1959-1980
210783	44.767	-94.900	BIRD ISLAND	1095	1896-1976
210803	47.717	-94.567	BLACKDDCK RANGER STA	1404	1907-1908
210809	47.750	-94.517	BLACK DUCK	1400	1989-1990
210839	43.868	-93.052	BLOOMING PRAIRIE,STEELE	1286	1896-1904
210934	46.367	-94.183	BRAINERD	1224	1899-1955
210939	46.367	-94.200	BRAINERD	1187	1955-1990
210989	47.267	-91.850	BRIMSON	1528	1986-1990
211063	45.617	-96.833	BROWNS VALLEY	997	1973-1990
211107	45.183	-93.883	BUFFALO	1007	1958-1990
211198	43.567	-91.450	CALEDONIA 5 SE	1188	1896-1990
211227	45.567	-93.233	CAMBRIDGE STATE HOSP	1006	1896-1990
211245	46.100	-96.417	CAMPBELL	978	1909-1990
211263	44.717	-96.283	CANBY	1246	1916-1990
211374	47.383	-94.617	CASS LAKE	1306	1916-1990
211390	45.317	-93.283	CEDAR	918	1962-1990
211420	45.165	-93.045	CEDAR, ANOKA CO.	-999	1920-1927
211465	44.800	-93.583	CHASKA	727	1931-1990
211489	43.847	-92.185	CHATFIELD, FILLMORE CO.	976	1923-1928
211630	46.700	-92.517	CLOQUET	1277	1911-1990
211675	47.267	-93.467	COLERAINE	1324	1934-1954
211691	45.583	-94.400	COLLEGEVILLE ST JOHN U	1236	1896-1990
211776	47.867	-93.067	COOK 18 W	1325	1959-1990
211840	47.183	-92.417	COTTON 3 E	1348	1962-1990
211857	48.267	-92.467	CRANE LAKE RANGER STA	1120	1961-1977
211891	47.800	-96.617	CROOKSTON NW EXP STA	887	1896-1990
211979	44.053	-95.600	CURRIE, MURRAY CO.	1460	1900-1904
212038	44.933	-96.050	DAWSON	1065	1896-1896
212050	46.883	-94.367	DEEP PORTAGE	1478	1983-1990
212088	45.050	-93.783	DELANO	938	1977-1990
212142	46.833	-95.850	DETROIT LAKES 1 NNE	1385	1895-1990
212246	46.767	-92.083	DULUTH HARBOR STATION	616	1896-1990
212248	46.833	-92.183	DULUTH WSO AP	1437	1903-1990
212253	46.783	-92.100	DULUTH	1165	1935-1959
212476	45.983	-95.967	ELBOW LAKE	1218	1962-1988
212559	47.900	-91.867	ELY, ST. LOUIS CO.	1470	1911-1913
212645	47.467	-92.567	EVELETH WASTE WATER PL	1458	1986-1990
212698	43.633	-94.467	FAIRMONT	1195	1906-1990
212721	44.300	-93.267	FARIBAULT	946	1897-1990
212737	44.667	-93.183	FARMINGTON 3 NW	984	1896-1990
212742	44.633	-93.167	FARMINGTON 1 W	925	1957-1970
212768	46.283	-96.067	FERGUS FALLS	1327	1896-1990
212826	46.933	-92.917	FLOODWOOD, ST. LOUIS CO.	1257	1903-1911
212842	47.000	-92.917	FLOODWOOD 4 N	1258	1986-1990
212881	45.267	-92.917	FOREST LAKE 4 SE	918	1958-1990
212904	46.183	-94.367	FORT RIPLEY	1157	1906-1930
212916	47.583	-95.733	FOSSTON	1318	1909-1990
213076	44.550	-94.217	GAYLORD	1025	1956-1990
213104	47.083	-96.783	GEORGETOWN 1 E	898	1962-1990
213169	44.770	-94.147	GLENCOE, MCLEOD CO.	1006	1896-1921
213174	45.667	-95.417	GLENWOOD 2 WNW	1207	1896-1990
213206	47.733	-95.517	GONVICK 2 W	1447	1969-1969
213282	47.733	-90.350	GRAND MARAIS	617	1913-1990
213290	43.700	-92.567	GRAND MEADOW	1356	1896-1990
213293	48.000	-89.583	GRAND PORTAGE 5 NE	637	1896-1975
213296	47.967	-89.683	GRAND PORTAGE R S	738	1958-1990
213303	47.233	-93.500	GRAND RAPIDS NC SCHOOL	1318	1915-1990
213307	45.637	-93.443	GRANDY, ISANTI CO.	930	1917-1919
213311	44.817	-95.550	GRANITE FALLS POWER PL	896	1896-1896
213411	46.417	-94.350	GULL LAKE DAM	1225	1911-1990
213417	48.167	-90.883	GUNFLINT LAKE 10 NW	1447	1961-1990
213455	48.767	-96.950	HALLOCK	827	1899-1990
213463	47.350	-96.833	HALSTAD	857	1905-1916
213567	44.767	-92.867	HASTINGS DAM 2	705	1965-1990
213587	46.883	-96.317	HAWLEY	1178	1962-1987
213727	47.433	-92.967	HIBBING PWR SUBSTATION	1536	1962-1981
213730	47.383	-92.850	HIBBING FAA AP	1356	1962-1990
213756	48.067	-95.850	HIGH LANDING 2 NW	1167	1948-1948
213793	46.017	-92.933	HINCKLEY	1046	1905-1990
213795	46.017	-92.950	HINCKLEY NO. 2	1045	1920-1920
213913	47.845	-89.960	HOVLAND, COOK CO.	630	1905-1907
213921	47.583	-92.133	HOYT LAKES 5 N	1527	1958-1984
213962	44.917	-94.367	HUTCHINSON 1 N	1106	1916-1990
214026	48.567	-93.383	INT FALLS WSO AP	1188	1912-1990
214068	47.617	-91.383	ISABELLA 1 W	2015	1957-1990
214096	46.983	-92.233	ISLAND LAKE RESERVOIR	1375	1963-1975
214103	46.250	-93.500	ISLE 8 N	1296	1963-1990
214106	47.217	-95.200	ITASCA UNIV OF MINN	1497	1911-1990
214176	44.650	-93.617	JORDAN 1 S	937	1949-1990
214213	48.583	-96.517	KARLSTAD	1058	1962-1990
214233	47.933	-94.450	KELLIHER	1398	1909-1990
214306	48.500	-92.650	KETTLE FALLS	1124	1989-1990
214418	43.867	-91.300	LA CRESCENT DAM 7	656	1967-1981
214438	44.450	-92.267	LAKE CITY	686	1897-1900
214441	44.105	-94.215	LAKE CRYSTAL,BLUE EARTH C	990	1898-1918
214534	44.000	-95.950	LAKE WILSON	1677	1973-1990
214546	44.250	-95.317	LAMBERTON SW EXP STA	1147	1961-1990
214652	47.250	-94.217	LEECH LAKE DAM	1307	1896-1990
214711	43.510	-92.503	LE ROY, MOWER CO.	1286	1899-1900
214721	44.467	-93.917	LE SUEUR	835	1896-1897
214778	45.117	-94.533	LITCHFIELD	1135	1907-1990
214793	45.983	-94.350	LITTLE FALLS 1 N	1127	1905-1990
214806	48.400	-93.550	LITTLEFORK RANGER STA	1184	1910-1916
214861	45.983	-94.850	LONG PRAIRIE	1294	1896-1990
214918	47.700	-90.667	LUTSEN 3 NNE	1308	1896-1990
214937	43.667	-96.200	LUVERNE	1507	1896-1990
214994	45.000	-96.167	MADISON SEWAGE PLANT	1086	1940-1990
215012	47.317	-95.983	MAHNOMEN 1 W	1205	1927-1990
215020	47.467	-92.983	MAHONING MINE	1584	1931-1962
215073	44.150	-94.017	MANKATO	848	1984-1990
215136	45.000	-93.650	MAPLE PLAIN	977	1896-1986
215175	47.600	-93.683	MARCELL RANGER STN	1398	1981-1990
215204	44.467	-95.767	MARSHALL	1157	1935-1990
215224	44.283	-92.533	MAZEPPA, WABASHA CO.	934	1896-1897
215234	47.635	-95.887	MCINTOSH, POLK CO.	-999	1907-1908
215298	46.983	-92.733	MEADOWLANDS 9 S	1277	1916-1985
215325	45.667	-94.817	MELROSE	1216	1954-1990
215392	45.800	-93.667	MILACA 1 ENE	1097	1897-1990
215400	45.117	-95.933	MILAN	1020	1896-1990
215430	45.067	-93.300	MINNEAPOLIS	814	1989-1990
215435	44.883	-93.217	MINN-ST PAUL WSO AP	837	1948-1990
215488	44.167	-91.817	MINNESOTA CITY DAM 5	674	1896-1978
215533	47.950	-94.217	MIZPAH, KOOCHICHING CO.	1409	1932-1940
215563	44.933	-95.750	MONTEVIDEO 1 SW	997	1896-1990
215589	46.867	-96.750	MOORHEAD ST TEACH COL	944	1896-1953
215598	46.450	-92.750	MOOSE LAKE 1 SSE	1117	1913-1990
215615	45.883	-93.300	MORA	996	1904-1990
215638	45.583	-95.883	MORRIS WC EXP STA	1147	1896-1990
215660	47.532	-92.620	MOUNTAIN IRON,ST.LOUIS C	-999	1896-1910
215693	48.300	-95.983	MUD LAKE NATIONAL WLR	1145	1957-1961
215819	48.100	-93.083	NETT LAKE	1357	1972-1973
215842	45.300	-94.933	NEW LONDON	1247	1896-1990
215853	43.892	-93.495	NEW RICHLAND, WASECA CO.	1180	1896-1919
215887	44.283	-94.417	NEW ULM 2 SE	868	1896-1990
215912	48.353	-96.327	NEWFOLDEN, MARSHALL CO.	-999	1898-1901
216007	44.167	-94.033	NORTH MANKATO	796	1954-1984
216148	47.833	-95.850	OKLEE	1158	1967-1990
216152	44.783	-94.983	OLIVIA	1098	1976-1990
216210	48.117	-93.100	ORR	1386	1970-1971
216212	48.050	-93.100	ORR 5 SW	1307	1961-1972
216235	45.868	-95.153	OSAKIS, DOUGLAS CO.	-999	1907-1916
216276	46.417	-95.567	OTTERTAIL	986	1961-1990
216287	44.100	-93.233	OWATONNA	1156	1961-1990
216360	46.917	-95.067	PARK RAPIDS	1448	1893-1990
216386	45.383	-94.733	PAYNESVILLE	1187	1970-1973
216479	45.817	-94.000	PIERZ, MORRISON CO.	1162	1912-1916
216547	46.667	-94.117	PINE RIVER DAM	1255	1896-1990
216565	44.017	-96.317	PIPESTONE	1716	1899-1990
216573	45.490	-92.787	PLEASANT MOUNDS,CHISAGO	-999	1896-1904
216612	47.250	-93.583	POKEGAMA DAM	1288	1896-1990
216654	43.667	-92.083	PRESTON	936	1952-1990
216780	47.877	-94.912	REDBY, BELTRAMI CO.	1158	1925-1930
216785	47.875	-95.018	RED LAKE, BELTRAMI CO.	-999	1908-1924
216787	47.883	-96.283	RED LAKE FALLS	1047	1913-1990
216795	47.867	-95.033	RED LAKE INDIAN AGENCY	1227	1893-1990
216817	44.567	-92.533	RED WING	697	1901-1990
216822	44.617	-92.617	RED WING DAM 3	686	1949-1990
216835	44.550	-95.083	REDWOOD FALLS FAA AP	1036	1906-1990
216849	47.050	-93.900	REMER NO 2	1356	1959-1986
216972	46.467	-94.050	RIVERTON	1168	1968-1978
217004	43.917	-92.500	ROCHESTER WSO AP	1308	1908-1990
217087	48.850	-95.767	ROSEAU 1 E	1056	1896-1990
217107	44.717	-93.100	ROSEMOUNT AGRI EXP STA	955	1950-1990

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
217149	46.483	-96.267	ROTHSAY	1217	1959-1990
217277	43.973	-92.067	ST. CHARLES, WINONA CO.	850	1896-1923
217294	45.550	-94.067	ST CLOUD WSO AP	1048	1896-1990
217326	43.983	-94.617	ST JAMES FILTRATION PL	1088	1958-1990
217377	44.983	-93.083	ST PAUL	928	1896-1990
217386	44.933	-93.067	ST PAUL WB AIRPORT	705	1948-1953
217405	44.300	-93.967	ST PETER 2 SW	857	1896-1990
217460	46.800	-93.317	SANDY LAKE DAM LIBBY	1237	1896-1990
217502	45.550	-93.767	SANTIAGO 3 E	1026	1961-1990
217514	45.733	-94.952	SAUK CENTRE, STEARNS CO.	1244	1896-1898
217573	44.797	-93.525	SHAKOPEE, SCOTT CO.	745	1896-1909
217740	43.900	-95.883	SLAYTON 9 SW	1586	1898-1973
217907	44.250	-94.983	SPRINGFIELD 1 NW	1076	1937-1990
218011	47.400	-92.400	STEPHENS MINE,ST.LOUIS C	1500	1906-1914
218025	44.650	-94.517	STEWART 6 SSW	1046	1957-1990
218037	45.033	-92.783	STILLWATER 1 SE	716	1958-1990
218187	46.633	-93.133	TAMARACK	1275	1959-1961
218191	46.967	-95.650	TAMARAC WILDLIFE REF	1488	1977-1990
218204	45.417	-92.650	TAYLORS FALLS 1 NE	764	1906-1949
218227	44.300	-92.200	THEILMAN	737	1962-1990
218243	48.067	-96.183	THIEF RIVER FALLS	1137	1905-1972
218247	48.183	-96.167	THIEF RIVER FALLS	1138	1972-1990
218254	48.217	-95.250	THORHULT 1 S	1197	1959-1990
218311	47.750	-92.283	TOWER 3 S	1467	1896-1990
218323	44.233	-95.617	TRACY	1406	1912-1990
218332	47.950	-95.650	TRAIL 12 NNE	1166	1963-1966
218419	47.017	-91.667	TWO HARBORS	636	1897-1990
218429	44.283	-96.133	TYLER	1758	1916-1990
218543	47.500	-92.550	VIRGINIA	1446	1911-1987
218552	44.383	-92.033	WABASHA	707	1896-1909
218579	46.400	-95.150	WADENA 3 S	1357	1904-1990
218618	47.067	-94.583	WALKER AH GWAH CHING	1414	1907-1990
218656	48.567	-95.633	WANNASKA 8 SE	1198	1963-1990
218673	48.800	-96.783	WARREN, MARSHALL CO.	859	1912-1922
218679	48.917	-95.317	WARROAD	1076	1901-1990
218692	44.067	-93.517	WASECA EXPERIMENT STN	1156	1914-1990
218700	48.167	-94.517	WASKISH RANGER STATION	1176	1963-1986
218808	43.750	-93.733	WELLS 1 NW	1205	1968-1981
218822	44.155	-92.902	WEST CONCORD, DODGE CO.	1232	1909-1910
218907	45.800	-96.483	WHEATON	1025	1914-1990
218939	47.283	-92.183	WHITEFACE RESERVOIR	1496	1965-1975
218999	45.117	-95.017	WILLMAR COUNTY HWY GAR	1140	1896-1950
219004	45.133	-95.017	WILLMAR STATE HOSPITAL	1137	1931-1990
219015	46.317	-92.843	WILLOW RIVER, PINE CO.	1048	1898-1909
219033	43.867	-95.117	WINDOM	1388	1905-1990
219046	43.767	-94.167	WINNEBAGO	1118	1899-1990
219059	47.433	-94.050	WINNIBIGOSHISH DAM	1324	1897-1990
219067	44.050	-91.633	WINONA	655	1896-1990
219072	44.083	-91.683	WINONA DAM 5 A	665	1905-1981
219093	44.533	-94.367	WINTHROP	-999	1917-1919
219101	47.933	-91.767	WINTON POWER PLANT	1345	1914-1990
219166	43.617	-95.600	WORTHINGTON	1596	1896-1971
219170	43.650	-95.583	WORTHINGTON 2 NNE	1577	1971-1990
219173	46.717	-93.067	WRIGHT 4 NW	1306	1961-1990
219249	44.300	-92.667	ZUMBROTA	994	1896-1990
990401	44.858	-94.302	LAKESIDE, RENVILLE CO.	1040	1896-1902

NEW YORK

STN #	LAT	LON	STATION NAME	ELEV	POR
300015	43.900	-76.067	ADAMS CENTER	404	1907-1922
300023	42.100	-77.233	ADDISON	994	1891-1990
300028	42.100	-77.233	ADDISON 1 NNE	1238	1927-1988
300030	43.688	-73.740	ADIRONACK LODGE	-999	1901-1902
300040	43.097	-78.385	ALABAMA	-999	1890-1891
300042	42.750	-73.800	ALBANY WSO AP	287	1948-1990
300047	42.650	-73.750	ALBANY	97	1889-1970
300049	42.583	-73.733	Albany 4 S	12	1948-1970
300055	43.283	-78.167	ALBION 2 NE	517	1939-1990
300063	42.467	-73.933	ALCOVE DAM	607	1948-1990
300070	42.900	-78.500	ALDEN	860	1898-1904
300077	44.333	-75.917	ALEXANDRIA BAY 1 SW	267	1937-1972
300085	42.250	-77.783	ALFRED	1746	1889-1990
300090	42.093	-78.500	ALLEGANY	1440	1907-1915
300093	42.100	-78.750	ALLEGANY STATE PARK	1504	1924-1990
300159	42.917	-74.133	AMSTERDAM LOCK 10	284	1904-1923
300175	42.150	-77.800	ANDOVER	1674	1922-1948
300183	42.300	-78.017	ANGELICA	1424	1889-1990
300200	43.327	-78.650	APPLETON	300	1889-1923
300220	42.533	-78.417	ARCADE	1496	1889-1990
300242	43.250	-74.517	ARIETTA	1708	1978-1978
300280	42.557	-77.472	ATLANTA	1200	1900-1906
300321	42.933	-76.533	AUBURN 2 NE	778	1889-1990
300331	42.733	-76.650	AURORA RESEARCH FARM	835	1956-1990
300343	42.917	-77.750	AVON	564	1895-1990
300351	40.717	-73.367	BABYLON	50	1948-1959
300360	42.300	-75.483	BAINBRIDGE	1028	1937-1990
300362	42.283	-75.483	Bainbridge Jennison	970	1948-1990
300379	43.150	-76.333	BALDWINSVILLE	384	1891-1908
300385	42.900	-73.867	BALLSTON LAKE	-999	1904-1931
300424	43.833	-74.800	BARNES CORNERS	1528	1979-1987
300443	43.000	-78.183	BATAVIA	905	1948-1990
300448	42.350	-77.350	BATH	1116	1961-1990
300489	41.317	-74.000	BEAR MOUNTAIN WB	1304	1948-1953
300505	42.667	-78.383	BEAVER MEADOW	1487	1976-1981
300511	41.233	-73.717	BEDFORD HILLS	434	1894-1977
300540	42.117	-75.117	BEERSTON	1554	1912-1918
300621	40.600	-73.967	BENSONHURST	25	1950-1951
300630	44.215	-74.990	BENSON MINES	-999	1909-1909
300641	42.617	-73.367	BERLIN 5 S	1107	1904-1906
300686	42.083	-76.100	BINGHAMTON WB AIRPORT	834	1915-1951
300687	42.217	-75.983	BINGHAMTON WSO AP	1605	1896-1990
300691	42.100	-75.917	BINGHAMTON	864	1890-1968
300740	42.333	-74.800	BLOOMVILLE	-999	1895-1896
300766	42.067	-78.167	BOLIVAR	1586	1896-1990
300785	43.450	-75.350	BOONVILLE 2 SSW	1587	1949-1990
300795	42.897	-75.533	BOUCKVILLE	1420	1897-1916
300808	41.450	-73.733	BOYDS CORNERS	564	1889-1893
300862	40.783	-73.250	BRENTWOOD	105	1891-1899
300889	40.950	-72.300	BRIDGEHAMPTON	64	1948-1990
300937	43.250	-77.967	BROCKPORT 2 NW	415	1890-1990
300950	42.817	-75.317	BROOKFIELD	1350	1890-1896
301012	42.933	-78.733	BUFFALO WFSO AP	716	1889-1990
301093	42.317	-74.017	CAIRO	304	1925-1963
301095	42.333	-74.050	CAIRO 1 NW	477	1979-1990
301101	41.767	-75.050	CALLICOON	800	1949-1966
301103	41.783	-75.050	Callicoon 2	1300	1949-1966
301110	43.367	-75.783	CAMDEN 2 NW	516	1960-1990
301136	42.417	-73.400	CANAAN 2 E	1187	1900-1903
301144	42.917	-74.583	CANAJOHARIE	307	1897-1903
301152	42.850	-77.283	CANANDAIGUA 3 S	727	1948-1990
301170	42.383	-78.183	CANEADEA DAM	1480	1929-1939
301185	44.567	-75.117	CANTON 4 SE	415	1889-1990
301190	44.125	-76.337	CAPE VINCENT	256	1905-1925
301207	41.417	-73.700	CARMEL 1 SW	496	1890-1984
301260	42.233	-73.867	CATSKILL 1 N	256	1896-1977
301272	42.917	-75.867	CAZENOVIA	1254	1916-1951
301280	42.550	-73.783	CEDAR HILL	-999	1898-1903
301285	40.650	-73.517	Cedar Creek Pk. Wantagh	10	1948-1990
301387	44.750	-74.217	CHASM FALLS	1066	1931-1990
301391	42.367	-73.600	CHATHAM	426	1905-1970
301401	44.883	-73.433	CHAZY	176	1903-1990
301415	42.217	-75.850	Chenango Forks 2 S	887	1948-1951
301433	42.617	-73.417	CHERRY PLAIN	1404	1948-1949
301436	42.817	-74.733	CHERRY VALLEY 2 NNE	1364	1952-1990
301589	42.667	-74.500	COBLESKILL	965	1948-1956
301593	42.667	-74.500	COBLESKILL 2	908	1956-1986
301595	42.667	-74.433	COBLESKILL 2 ESE	1178	1987-1990
301600	42.467	-73.800	COEYMANS	-999	1905-1906
301623	42.667	-78.683	COLDEN 1 N	1036	1957-1990
301708	43.317	-73.933	CONKLINGVILLE DAM	816	1976-1990
301723	44.917	-74.300	CONSTABLE 1 S	427	1965-1982
301725	43.567	-75.433	CONSTABLEVILLE	1260	1889-1894
301752	42.700	-74.917	COOPERSTOWN	1244	1889-1990
301761	42.100	-73.533	COPAKE	550	1988-1990
301799	42.600	-76.183	CORTLAND	1134	1892-1990
301949	41.017	-72.500	CUTCHOGUE	46	1899-1938
301966	44.717	-73.717	DANNEMORA	1347	1906-1990
301974	42.567	-77.700	DANSVILLE	696	1920-1990
301979	42.583	-77.717	DANSVILLE CAA AP	654	1929-1953
302020	44.505	-75.275	DEKALB	441	1903-1906
302036	42.250	-74.933	DELHI 2 SW	135	1924-1990
302060	42.067	-75.433	DEPOSIT	1000	1963-1990
302071	42.700	-79.017	DERBY 2 NW	644	1948-1961
302079	42.817	-75.883	DE RUYTER 4 N	1304	1903-1924
302091	40.800	-73.300	DIX HILLS	128	1987-1990
302129	41.017	-73.867	DOBBS FERRY	247	1948-1990
302169	42.083	-74.967	DOWNSVILLE DAM	1305	1959-1987
302180	42.493	-76.298	DRYDEN	-999	1896-1899
302198	42.483	-79.350	DUNKIRK POWER PLANT	596	1892-1953
302366	42.250	-74.183	EAST JEWETT	1988	1985-1990
302506	42.650	-78.900	EDEN	837	1889-1943
302517	42.133	-74.233	EDGEWOOD	1664	1894-1894
302540	43.083	-78.187	ELBA	750	1900-1918
302554	44.217	-73.600	ELIZABETHTOWN	585	1898-1990
302582	41.717	-74.400	ELLENVILLE	356	1948-1990
302599	42.850	-78.633	ELMA	775	1948-1960
302610	42.083	-76.783	ELMIRA 2 SE	866	1889-1990
302615	42.167	-76.900	ELMIRA FAA AIRPORT	946	1948-1960
302627	42.100	-76.067	ENDICOTT	838	1985-1990
302675	42.117	-77.133	Erwin	931	1948-1960
302720	43.150	-74.900	FAIRFIELD	1467	1979-1981
302760	40.750	-73.433	FARMINGDALE 2 NE	84	1920-1956
302770	44.250	-74.517	FAUST	-999	1904-1913
302780	43.033	-76.000	FAYETTEVILLE	530	1900-1920
302850	42.833	-76.568	FLEMING	1000	1889-1900
302872	40.767	-73.867	FLUSHING	60	1931-1938
302888	42.967	-74.417	FONDA	454	1949-1949
302934	44.033	-75.767	FORT DRUM	637	1975-1985
302940	43.252	-79.050	FORT NIAGARA	263	1890-1899
302953	42.933	-74.617	FORT PLAIN	316	1905-1947
302964	40.800	-73.800	FORT SCHUYLER	65	1890-1959
303025	42.333	-78.467	FRANKLINVILLE 1 SSW	1587	1896-1990
303033	42.450	-79.300	FREDONIA	768	1914-1990
303038	42.367	-74.067	FREEHOLD 2 NW	456	1963-1978
303065	42.133	-78.233	FRIENDSHIP 7 SW	1646	1893-1990
303102	44.433	-74.167	GABRIELS	1766	1900-1978
303124	42.700	-77.400	GANNETT HILL	1957	1971-1990
303152	41.217	-74.000	GARNERVILLE	198	1983-1989
303177	42.883	-77.000	GENEVA EXP STATION	590	1889-1968
303184	42.883	-77.033	GENEVA RESEARCH FARM	726	1891-1990
303259	41.517	-73.933	GLENHAM	287	1933-1990
303284	43.333	-73.733	GLENS FALLS FARM	505	1908-1990
303289	43.317	-73.650	GLENS FALLS FIRE STA	354	1892-1956
303294	43.350	-73.617	GLENS FALLS FAA AP	325	1948-1990
303319	43.050	-74.333	GLOVERSVILLE	818	1892-1990
303346	44.350	-75.517	GOUVERNEUR 3 NW	466	1937-1990
303354	42.483	-78.933	GOWANDA STATE HOSPITAL	877	1948-1990
303360	42.783	-73.467	GRAFTON	1566	1950-1990
303416	43.133	-75.117	GRAVESVILLE 2 N	1125	1950-1960
303452	43.117	-73.833	GREENFIELD CENTER	614	1906-1955
303464	41.100	-72.367	GREENPORT POWER HOUSE	25	1958-1990
303480	43.090	-73.502	GREENWICH	425	1898-1912
303500	42.250	-74.558	GRIFFIN CORNERS	2260	1901-1912
303507	43.233	-75.400	GRIFFISS AIR FORCE BASE	496	1980-1990
303553	43.317	-73.850	Hadley	564	1948-1978
303602	42.817	-75.533	HAMILTON	1214	1894-1963
303619	42.433	-77.150	HAMMONDSPORT 4 NE	1300	1892-1892
303660	44.573	-73.538	HARKNESS	622	1902-1932
303773	42.783	-77.617	HEMLOCK	904	1898-1990
303781	40.717	-73.633	HEMPSTEAD-GARDEN CITY	87	1948-1972
303786	40.683	-73.667	HEMPSTEAD MALVERNE	44	1948-1966
303881	43.283	-74.783	HILTON	294	1948-1959
303889	43.317	-75.117	HINCKLEY	1196	1960-1990
303916	43.383	-74.733	HOFFMEISTER 3 W	1726	1963-1965
304024	42.250	-73.783	HUDSON	325	1920-1957
304025	42.250	-73.800	HUDSON STATE SCHOOL	66	1957-1990
304040	42.217	-78.503	HUMPHREY	1950	1889-1902
304045	42.535	-77.967	HUNT	1150	1905-1920
304090	43.013	-75.037	ILION	-999	1889-1890
304102	43.750	-74.283	INDIAN LAKE 2 SW	1665	1900-1990
304130	40.783	-73.100	ISLIP FCWOS	84	1986-1990
304174	42.450	-76.450	ITHACA CORNELL UNIV	966	1889-1990
304206	42.100	-79.250	JAMESTOWN	1395	1891-1960
304207	42.133	-79.200	JAMESTOWN 4 NE	1258	1960-1990
304208	42.117	-79.233	JAMESTOWN WATER WORKS	1396	1962-1974
304220	44.433	-73.680	JAY	- 999	1900-1901
304234	41.783	-74.933	JEFFERSONVILLE	1080	1904-1946
304332	44.183	-73.800	KEENE VALLEY	1285	1890-1917
304340	44.500	-73.483	KEESEVILLE	-999	1933-1934
304370	42.617	-77.100	KEUKA PARK	-999	1908-1909
304450	42.000	-78.517	KNAPP CREEK	2364	1939-1948
304530	43.428	-73.713	LAKE GEORGE	350	1896-1917
304555	44.250	-73.983	LAKE PLACID 2 S	1887	1897-1990

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
304560	43.472	-74.412	LAKE PLEASANT	-999	1910-1910
304575	42.450	-74.467	LANSING MANOR	1108	1985-1990
304632	40.733	-73.933	LAUREL HILL	15	1950-1951
304640	42.633	-78.048	LAUTERBRUNNEN	-999	1913-1931
304647	44.750	-74.650	LAWRENCEVILLE	484	1932-1990
304680	42.977	-77.992	LE ROY	900	1889-1911
304698	42.583	-78.033	LETCHWORTH PARK	1264	1932-1952
304715	43.183	-79.050	LEWISTON 1 N	336	1935-1972
304717	43.133	-78.967	LEWISTON 3 SE	638	1987-1990
304731	41.800	-74.733	LIBERTY 1 NE	1585	1898-1990
304791	43.067	-74.867	LITTLE FALLS CITY RES	907	1897-1990
304796	43.033	-74.867	LITTLE FALLS MILL ST	364	1900-1990
304808	42.250	-78.800	LITTLE VALLEY	1584	1942-1990
304844	43.183	-78.650	LOCKPORT 2 NE	524	1891-1990
304849	43.200	-78.633	LOCKPORT 4 NE	446	1961-1990
304912	43.783	-75.483	LOWVILLE	868	1891-1990
304940	43.062	-76.995	LYONS	426	1889-1907
304984	43.317	-76.100	MALLORY	456	1967-1975
304996	44.850	-74.283	MALONE	888	1891-1990
305113	42.517	-74.967	MARYLAND 6 SW	1198	1984-1990
305134	44.933	-74.850	MASSENA FAA AIRPORT	204	1948-1990
305199	43.617	-75.100	MC KEEVER	1488	1927-1953
305291	42.600	-74.317	MIDDLEBURG	636	1889-1969
305310	41.450	-74.450	MIDDLETOWN 2 NW	705	1891-1990
305334	41.850	-73.617	MILLBROOK	824	1948-1990
305346	41.950	-73.517	MILLERTON	748	1948-1953
305377	40.733	-73.633	MINEOLA	135	1938-1990
305426	41.767	-74.150	MOHONK LAKE	1254	1896-1990
305430	44.833	-74.567	MOIRA	200	1900-1930
305441	41.050	-71.950	MONTAUK	17	1973-1979
305490	43.385	-74.733	MOREHOUSEVILLE	1697	1908-1915
305500	40.783	-72.750	Moriches Light Boat Stn	22	1973-1979
305512	42.850	-75.650	MORRISVILLE 3 S	1305	1912-1990
305578	43.200	-73.750	MT. McGREGOR	1060	1914-1944
305597	42.733	-77.900	MOUNT MORRIS 2 W	886	1890-1990
305604	42.450	-76.367	MT PLEASANT FARM	1655	1957-1978
305612	40.900	-73.833	MOUNT VERNON	155	1931-1941
305635	42.617	-77.400	NAPLES	757	1969-1987
305711	43.967	-74.217	NEWCOMB 3 W	1627	1911-1977
305714	43.967	-74.100	NEWCOMB 3 E	1660	1984-1990
305728	41.633	-73.883	NEW HACKENSACK	154	1948-1948
305748	42.553	-75.242	NEW LISBON	1234	1891-1923
305759	41.683	-74.133	NEW PALTZ 4 SW	427	1972-1983
305769	43.200	-75.017	NEWPORT 6 NE	1708	1985-1990
305796	40.600	-73.983	NEW YORK AVE V BROOKLYN	20	1953-1990
305798	40.600	-73.967	NEW YORK BENSONHURST	20	1951-1953
305799	40.867	-73.883	N Y BOTANICAL GARDENS	97	1973-1976
305801	40.783	-73.967	New York Central Park	130	1889-1990
305803	40.650	-73.783	N Y KENNEDY WSO AP	24	1908-1990
305804	40.733	-73.933	New York Laurel Hill	10	1951-1983
305811	40.767	-73.900	N Y LAGUARDIA WSO AP	25	1910-1990
305816	40.700	-74.017	NEW YORK WB CITY	15	1889-1960
305821	40.600	-74.167	N Y WESTERLEIGH STAT IS	85	1951-1990
305840	43.100	-78.950	NIAGARA FALLS INT'L AP	519	1989-1990
305925	43.700	-73.983	NORTH CREEK	898	1908-1990
305950	44.448	-75.695	NORTH HAMMOND	300	1889-1907
305987	43.533	-74.950	NORTH LAKE	1834	1896-1948
306019	40.900	-73.350	NORTHPORT	24	1948-1953
306030	43.188	-76.890	NORTH ROSE	390	1919-1921
306085	42.517	-75.517	NORWICH	1126	1907-1990
306090	43.717	-75.201	NUMBER FOUR	1571	1889-1904
306100	42.580	-77.940	NUNDA	-999	1898-1903
306164	44.733	-75.433	OGDENSBURG 4 NE	284	1891-1990
306184	43.717	-74.983	OLD FORGE	1726	1908-1990
306210	43.093	-75.653	ONEIDA	500	1914-1914
306224	42.450	-75.067	ONEONTA 1 S	1084	1902-1956
306225	42.450	-75.067	ONEONTA	1155	1908-1958
306229	42.450	-75.000	ONEONTA 3 SE	1166	1948-1969
306232	42.467	-75.067	ONEONTA STATE UNIV	1407	1894-1983
306239	43.100	-76.217	ONONDAGA	1260	1893-1893
306301	41.150	-73.867	OSSINING SING SING	35	1941-1959
306314	43.467	-76.500	OSWEGO EAST	358	1889-1990
306340	42.362	-78.797	OTTO	1260	1903-1912
306356	42.083	-76.317	OWEGO 3 WSW	817	1891-1891
306365	42.443	-75.600	OXFORD	976	1890-1913
306390	43.333	-76.367	PALERMO	460	1889-1901
306400	43.050	-77.233	PALMYRA	-999	1889-1891
306441	40.800	-73.017	PATCHOGUE 2 N	24	1939-1990
306459	44.433	-74.267	PAUL SMITHS	1635	1904-1966
306464	42.883	-78.033	PAVILION	946	1987-1990
306510	42.667	-77.067	PENN YAN	725	1889-1984
306517	42.650	-77.083	PENN YAN 8 W	1008	1984-1990
306530	42.500	-76.652	PERRY CITY	1038	1889-1924
306538	44.567	-73.567	PERU 2 WSW	518	1938-1990
306546	42.750	-73.333	Petersburg	720	1948-1959
306557	44.133	-75.700	PHILADELPHIA	485	1907-1936
306630	43.100	-77.550	PITTSFORD	-999	1895-1897
306659	44.700	-73.467	PLATTSBURGH	178	1890-1990
306701	43.967	-76.283	Point Peninsula	253	1987-1990
306720	42.900	-76.017	POMPEY	1300	1891-1891
306750	43.050	-76.633	PORT BYRON	-999	1900-1901
306768	40.950	-73.067	Port Jefferson	10	1948-1990
306774	41.383	-74.683	PORT JERVIS	474	1890-1990
306789	42.033	-78.333	PORTVILLE	1436	1962-1968
306805	44.670	-74.985	POTSDAM	425	1889-1914
306817	41.683	-73.933	POUGHKEEPSIE	105	1890-1971
306820	41.633	-73.883	POUGHKEEPSIE FAA AP	155	1948-1990
306823	41.700	-73.933	Poughkeepsie Midtown	80	1948-1990
306825	41.717	-73.933	Poughkeepsie 1 N	50	1948-1990
306827	41.717	-73.917	Poughkeepsie Pendell Rd.	220	1948-1990
306867	43.567	-76.133	PULASKI	365	1948-1990
306941	43.817	-74.667	RAQUETTE LAKE	1784	1908-1922
306957	44.300	-74.100	RAY BROOK	1627	1971-1990
306965	43.750	-75.683	RECTORS CORNERS	1818	1987-1990
307024	42.533	-74.167	RENSSELAERVILLE 2 NW	1737	1971-1974
307035	41.883	-73.867	RHINEBECK 4 SE	317	1916-1990
307077	43.567	-76.050	RICHLAND	524	1948-1952
307080	42.633	-74.567	RICHMONDVILLE	1185	1900-1905
307090	43.233	-78.395	RIDGEWAY	420	1897-1906
307115	41.850	-74.050	RIFTON 1 N	45	1925-1956
307120	42.265	-79.710	RIPLEY	-999	1904-1905
307134	40.967	-72.717	RIVERHEAD RESEARCH FARM	104	1939-1990
307160	43.183	-77.633	Rochester	246	1948-1952
307167	43.117	-77.667	ROCHESTER WSO AP	556	1889-1990
307246	43.233	-75.417	ROME GRIFFISS FIELD	495	1889-1917
307250	42.750	-76.833	ROMULUS	719	1891-1922
307270	43.150	-76.883	ROSE	-999	1907-1908
307317	42.283	-74.567	ROXBURY	1494	1915-1972
307356	44.050	-74.633	SABATTIS WHITNEY PARK	1735	1956-1958
307405	43.167	-73.317	SALEM	498	1889-1990
307413	43.167	-74.867	SALISBURY	1304	1906-1973
307472	44.333	-74.133	SARANAC LAKE	1554	1889-1966
307480	43.100	-73.833	SARATOGA SPRINGS 4 NW	554	1942-1951
307484	43.033	-73.817	SARATOGA SPRINGS 4 SW	307	1895-1990
307497	40.983	-73.800	SCARSDALE	205	1904-1990
307498	40.983	-73.767	Scarsdale 2 ESE	215	1948-1990
307513	42.833	-73.917	SCHENECTADY	228	1898-1985
307514	42.800	-73.917	SCHENECTADY	360	1988-1990
307515	42.817	-73.950	Schenectady River	209	1988-1990
307524	43.833	-73.767	SCHROON LAKE	866	1948-1967
307578	42.017	-77.750	SCOTTSVILLE	565	1948-1990
307617	43.583	-76.200	Selkirk Shores	260	1948-1990
307633	40.967	-73.100	SETAUKET	400	1889-1990
307636	40.950	-73.100	Setauket 2	40	1948-1990
307659	42.800	-74.600	SHARON SPRINGS 1N	824	1914-1953
307664	42.783	-74.667	SHARON SPRINGS 2SW	1364	1916-1951
307705	42.650	-75.483	SHERBURNE 2 S	1086	1986-1990
307732	42.957	-77.227	SHORTSVILLE	660	1900-1936
307742	41.333	-73.833	SHRUB OAK	425	1950-1971
307745	43.717	-73.500	SILVER BAY	350	1920-1926
307799	42.017	-74.417	SLIDE MOUNTAIN	2654	1961-1990
307842	43.200	-77.017	SODUS CENTER	445	1923-1990
307900	43.133	-76.767	SOUTH BUTLER	-999	1903-1904
307918	42.183	-77.550	SOUTH CANISTEO	1564	1889-1908
307980	42.333	-74.750	SOUTH KORTRIGHT	1527	1889-1905
308036	43.783	-73.800	SOUTH SCHROON	981	1901-1965
308058	42.717	-78.600	SOUTH WALES EMERY PARK	1094	1932-1979
308068	43.733	-76.217	Southwick Beach	260	1948-1979
308080	43.500	-74.367	SPECULATOR	1746	1948-1978
308088	42.200	-76.567	SPENCER 3 W	1006	1948-1990
308096	42.333	-73.550	SPENCERTOWN	634	1930-1959
308104	43.233	-73.750	SPIER FALLS	397	1902-1973
308152	42.983	-78.083	STAFFORD	914	1932-1967
308248	43.883	-75.033	STILLWATER RESERVOIR	1705	1893-1990
308290	43.833	-76.267	Stony Point 2 E	257	1948-1967
308300	42.233	-76.450	STRAITS CORNERS	1062	1896-1904
308304	41.533	-73.733	STORMVILLE	915	1990-1990
308321	41.117	-74.117	SUFFERN 2 E	424	1942-1955
308322	41.117	-74.150	SUFFERN WATER WORKS	275	1956-1990
308383	43.117	-76.117	SYRACUSE WSO AP	425	1891-1990
308388	43.300	-75.617	TABERG	515	1906-1907
308503	43.850	-73.417	TICONDEROGA	164	1898-1911
308506	43.883	-73.400	TICONDEROGA 3 NE	217	1897-1948
308550	42.350	-76.967	TOWNSEND	1350	1920-1921
308578	43.267	-75.150	TRENTON FALLS	804	1948-1957
308600	42.750	-73.683	TROY LOCK AND DAM NO. 2	240	1914-1990
308625	42.833	-76.033	TULLY 4 NE	1307	1979-1990
308627	42.767	-76.083	TULLY-HEIBERG FOREST	1907	1967-1990
308631	44.233	-74.433	TUPPER LAKE SUNMOUNT	1684	1911-1990
308635	43.650	-75.417	TURIN 1 N	1326	1889-1967
308733	43.117	-75.233	UTICA HARBOR POINT	414	1927-1948
308737	43.150	-75.383	UTICA FAA AP	715	1950-1990
308738	43.167	-75.317	UTICA CAA AP	524	1948-1950
308739	43.100	-75.283	UTICA 3 W	506	1889-1990
308746	42.433	-73.683	VALATIE 1 N	307	1971-1990
308773	40.900	-73.367	VANDERBILT MUSEUM	117	1977-1989

STN #	LAT	LON	STATION NAME	ELEV	POR
308790	42.767	-78.317	VARYSBURG	1113	1893-1896
308831	42.100	-76.050	VESTAL	824	1969-1977
308833	42.050	-76.050	VESTAL	1497	1977-1985
308839	42.983	-77.417	VICTOR	645	1891-1898
308860	42.167	-79.617	VOLUSIA	1560	1900-1920
308870	42.650	-73.900	VOORHEESVILLE	330	1925-1941
308902	41.567	-74.167	WALDEN 2 NE	405	1925-1959
308906	41.550	-74.167	WALDEN 1 ESE	387	1973-1990
308910	42.750	-78.517	WALES	1090	1986-1990
308935	42.233	-75.083	WALTON 5 NE	1804	1948-1956
308936	42.167	-75.133	WALTON	1245	1900-1990
308944	44.150	-74.900	WANAKENA RANGER SCHOOL	1515	1911-1990
308946	40.650	-73.517	WANTAGH CEDAR CREEK	17	1976-1990
308949	41.650	-73.867	WAPPINGERS FALLS	115	1893-1950
308962	42.683	-78.200	WARSAW 5 SW	1727	1952-1990
309000	43.967	-75.867	WATERTOWN	504	1891-1990
309005	44.000	-76.017	WATERTOWN FAA AP	327	1949-1990
309020	42.367	-76.867	WATKINS GLEN	466	1894-1977
309021	42.400	-76.900	WATKINS GLEN 2 NW	807	1970-1976
309030	42.010	-76.537	WAVERLY	845	1890-1914
309047	42.000	-76.553	WAVERLY	85	1988-1990
309055	44.300	-76.033	WELLESLEY ISLAND	287	1974-1990
309060	43.392	-74.290	WELLS	850	1901-1913
309100	42.635	-74.138	WEST BERNE	936	1898-1932
309117	40.733	-73.600	WESTBURY	98	1980-1990
309130	44.822	-73.508	WEST CHAZY	-999	1894-1902
309140	41.067	-73.683	WESTCHESTER CO AP	447	1974-1990
309189	42.283	-79.600	WESTFIELD 3 SW	1054	1896-1990
309270	41.083	-73.967	WEST NYACK	190	1990-1990
309292	41.383	-73.967	WEST POINT	324	1890-1990
309381	44.367	-73.917	WHITEFACE MT.	4860	1938-1938
309389	43.550	-73.400	WHITEHALL	124	1937-1990
309400	41.017	-73.733	WHITE PLAINS MAPLE MOOR	155	1889-1889
309405	41.067	-73.717	WHITE PLAINS AIRPORT	404	1890-1973
309480	44.367	-73.433	WILLSBORO	-999	1934-1945
309514	42.300	-74.250	WINDHAM	1506	1908-1913
309516	42.300	-74.217	WINDHAM 2 E	1727	1900-1907
309533	42.500	-78.067	WISCOY 1 E	1147	1941-1960
309571	42.067	-77.417	WOODHULL	1830	1933-1941
309655	42.867	-77.883	YORK	760	1912-1926
309660	41.267	-73.767	YORKTOWN HEIGHTS	424	1948-1950
309670	41.267	-73.800	YORKTOWN HEIGHTS 1 W	670	1967-1990

OHIO

STN #	LAT	LON	STATION NAME	ELEV	POR
330058	40.917	-81.433	AKRON-CANTON WSO AP	1217	1948-1990
330061	41.083	-81.517	AKRON	1088	1897-1990
330063	41.033	-81.450	AKRON WB AIRPORT	1045	1948-1952
330141	39.400	-81.967	AMESVILLE	667	1905-1930
330170	40.333	-80.833	ANNAPOLIS, JEFFERSON CO.	1100	1901-1902
330180	41.180	-84.742	ANTWERP, PAULDING CO.	-999	1912-1913
330195	41.167	-81.083	APCO RAVENNA ARSENAL	1005	1948-1966
330251	40.867	-82.300	ASHLAND	1056	1897-1967
330256	40.833	-82.350	ASHLAND 2 SW	1278	1936-1990
330264	41.850	-80.800	ASHTABULA	695	1897-1990
330274	39.383	-82.180	ATHENS 5 NW	685	1950-1980
330279	39.333	-82.100	ATHENS	708	1931-1990
330400	40.600	-82.500	BANGORVILLE	1327	1897-1938
330430	39.983	-81.150	BARNESVILLE-FRIENDS SCH	1258	1940-1990
330460	39.117	-84.167	BATAVIA 4 N	854	1916-1951
330563	40.350	-83.767	BELLEFONTAINE SEWAGE	1198	1897-1990
330573	39.117	-81.750	BELLEVILLE LOCK & DAM	568	1970-1977
330581	39.983	-80.983	BELMONT 4 SE	1334	1931-1949
330622	41.017	-83.817	BENTON RIDGE	800	1897-1926
330663	39.400	-84.400	BETHANY	990	1898-1902
330745	41.400	-81.367	BISSELLS	1116	1897-1897
330775	40.300	-82.300	BLADENSBURG	1100	1897-1915
330862	41.383	-83.633	BOWLING GREEN SEWAGE PL	688	1897-1990
330950	40.283	-80.667	BRILLIANT	700	1913-1922
331072	40.817	-82.967	BUCYRUS	967	1897-1990
331152	40.267	-81.000	CADIZ	1266	1903-1990
331177	39.733	-81.583	CALDWELL 4 W	1004	1934-1955
331178	39.817	-81.600	CALDWELL 6 NW	985	1936-1990
331197	40.017	-81.583	CAMBRIDGE WATER PLANT	808	1897-1990
331202	40.083	-81.583	CAMBRIDGE STATE HOSP	854	1931-1963
331220	39.217	-84.283	CAMP DENNISON	570	1898-1899
331245	41.017	-80.767	CANFIELD 1 S	1146	1917-1990
331250	40.800	-81.383	CANTON REPOSITORY	1055	1953-1969
331254	40.867	-81.400	CANTON 5 N	1134	1893-1948
331278	40.500	-82.900	CARDINGTON	1011	1897-1917
331288	39.200	-82.283	CARPENTER 4 NW	887	1963-1990
331310	40.567	-81.083	CARROLLTON	1154	1897-1898
331353	41.550	-82.850	CATAWBA ISLAND 1 SW	605	1921-1959
331390	40.567	-84.533	CELINA 3 NE	868	1897-1990
331404	40.300	-82.700	CENTERBURG 2	1318	1950-1990
331458	41.583	-81.183	CHARDON	1137	1945-1990
331466	40.733	-82.367	CHARLES MILL LAKE	1038	1939-1987
331497	38.833	-83.567	CHERRY FORK	939	1940-1946
331502	38.417	-82.500	CHESAPEAKE HUNTG FAA AP	565	1948-1960
331515	39.150	-84.617	CHEVIOT	968	1970-1990
331523	39.333	-82.967	CHILLICOTHE	627	1905-1972
331528	39.383	-83.000	CHILLICOTHE-MOUND CITY	657	1972-1990
331536	38.800	-84.167	CHILO MELDAHL DAM	508	1922-1990
331541	41.067	-81.900	CHIPPEWA LAKE	1068	1895-1990
331550	39.117	-84.700	CINCINNATI-FERNBANK	507	1898-1990
331561	39.150	-84.517	CINCINNATI ABBE WSMO	767	1899-1982
331566	39.133	-84.417	CINCINNATI AULT PARK	774	1942-1957
331568	39.217	-84.483	CINCINNATI HARTWELL	530	1951-1961
331569	39.150	-84.417	CINCINNATI OAKLEY	606	1951-1961
331570	39.100	-84.550	CINCINNATI PRICE HILL	880	1951-1961
331576	39.100	-84.433	CIN MUNI-LUNKEN FLD	496	1897-1990
331581	39.100	-84.517	CINCINNATI WSO CI	557	1948-1971
331592	39.617	-82.950	CIRCLEVILLE	678	1897-1990
331600	39.800	-80.833	CLARINGTON LOCK 14	644	1903-1926
331618	39.433	-83.983	CLARKSVILLE	1020	1897-1908
331650	41.367	-81.667	CLEVELAND SEVEN HILLS	1154	1897-1949
331652	41.483	-81.717	CLEVELAND-LUTHERAN MC	697	1897-1978
331653	41.467	-81.567	CLEVELAND SHAKER HTS	985	1897-1953
331657	41.417	-81.867	CLEVELAND WSO AP	777	1948-1990
331662	41.500	-81.667	CLEVELND 2717 EUCLID AV	665	1948-1957
331755	41.533	-80.767	COLEBROOK	100	1897-1905
331770	40.883	-80.683	COLUMBIANA	1116	1914-1915
331778	40.000	-83.017	COLUMBUS OHIO STA UNIV	765	1897-1957
331781	39.950	-83.117	COLUMBUS SULLIVANT AVE	887	1897-1983
331782	40.000	-83.050	COLUMBUS UNIV FARM	806	1957-1970
331783	39.900	-82.917	COLUMBUS VALLEY CROSS	758	1931-1990
331786	40.000	-82.883	COLUMBUS WSO AP	817	1948-1990
331788	39.983	-83.000	COLUMBUS	707	1948-1973
331818	41.983	-80.567	CONNEAUT WATER WORKS	648	1911-1913
331890	40.250	-81.867	COSHOCTON SEWAGE PLANT	768	1915-1990
331905	40.367	-81.800	COSHOCTON AGR RSCH STA	1147	1956-1990
332038	41.500	-81.833	DANBURY	580	1916-1937
332044	40.433	-82.300	DANVILLE 2 W	976	1963-1990
332067	39.767	-84.183	DAYTON	756	1897-1990
332075	39.900	-84.200	DAYTON WSO AP	1008	1912-1990
332090	39.633	-83.217	DEER CREEK LAKE	868	1970-1987
332098	41.283	-84.383	DEFIANCE	708	1897-1990
332119	40.283	-83.067	DELAWARE	878	1898-1990
332156	40.400	-81.350	DENNISON	855	1900-1959
332160	40.383	-81.333	DENNISON WATER WORKS	866	1988-1990
332251	41.683	-80.667	DORSET	987	1956-1990
332267	40.533	-81.483	DOVER	884	1900-1937
332433	40.683	-80.633	EAST LIVERPOOL	1164	1940-1948
332485	39.733	-84.633	EATON	1008	1956-1990
332599	41.383	-82.067	ELYRIA 3 E	734	1897-1990
332651	39.350	-84.583	FAIRFIELD	588	1985-1990
332766	39.117	-84.700	FERNBANK	506	1950-1974
332786	41.017	-83.667	FINDLAY FAA AIRPORT	805	1897-1990
332791	41.050	-83.667	FINDLAY SEWAGE PLANT	778	1931-1990
332920	39.417	-83.167	FRANKFORT	745	1897-1921
332928	39.550	-84.317	FRANKLIN	677	1948-1990
332956	40.417	-82.533	FREDERICKTOWN 4 S	1058	1941-1990
332974	41.333	-83.117	FREMONT	608	1909-1990
333029	38.817	-82.183	GALLIPOLIS	587	1934-1990
333042	40.383	-82.400	GAMBIER	1097	1919-1919
333071	41.417	-81.600	GARFIELD HEIGHTS	937	1971-1978
333085	41.300	-81.117	GARRETTSVILLE	1005	1898-1914
333094	41.767	-81.000	GENEVA 3 SW	860	1917-1965
333095	41.750	-80.950	GENEVA 3 S	757	1970-1983
333120	39.633	-84.400	GERMANTOWN DAM	745	1915-1930
333125	39.667	-84.333	GERMANTOWN 3 NE	795	1931-1952
333144	41.667	-82.817	GIBRALTER ISLAND	585	1953-1959
333345	38.633	-83.317	GREEN	500	1900-1925
333356	39.350	-83.400	GREENFIELD 1 WNW	977	1899-1904
333364	39.267	-84.517	GREENHILLS	815	1897-1925
333375	40.100	-84.650	GREENVILLE WATER PL	1026	1897-1990
333478	39.400	-84.583	HAMILTON	654	1914-1930
333482	39.400	-84.567	HAMILTON 2	597	1918-1918
333483	39.350	-84.583	HAMILTON-FAIRFIELD	587	1931-1985
333500	39.667	-80.867	HANNIBAL LOCK + DAM	627	1975-1990
333750	41.733	-81.017	HILL HOUSE	997	1898-1920
333758	39.200	-83.617	HILLSBORO	1107	1897-1990
333780	41.300	-81.150	HIRAM	1237	1897-1990
333801	41.250	-84.150	HOLGATE	714	1929-1951
333874	41.217	-83.767	HOYTVILLE 2 NE	707	1952-1990
333876	41.250	-81.250	HUDSON	1125	1899-1921
333971	38.533	-82.683	IRONTON	547	1900-1982
333975	38.533	-82.667	IRONTON	678	1982-1985
333987	40.117	-83.483	IRWIN	1014	1941-1990
334004	39.067	-82.650	JACKSON 2 NW	705	1914-1990
334006	39.500	-84.017	JACKSONBURG	975	1903-1911
334047	41.733	-80.767	JEFFERSON	965	1930-1942
334184	40.633	-83.617	KENTON OHIO POWER CO	1005	1898-1898
334189	40.633	-83.600	KENTON	1008	1897-1990
334220	40.517	-81.983	KILLBUCK	1087	1897-1918
334242	41.900	-80.717	KINGSVILLE	700	1915-1915
334258	39.733	-82.633	KIRTLAND-HOLDEN	758	1988-1990
334378	39.733	-82.633	LANCASTER 2 NW	865	1897-1952
334383	39.733	-82.633	LANCASTER 2 NW	865	1904-1990
334440	38.967	-83.483	LAWSHE	900	1908-1910
334495	40.550	-82.650	LEVERING	1250	1898-1898
334551	40.717	-84.133	LIMA SEWAGE PLANT	857	1902-1990
334581	40.017	-83.000	LINDEN HEIGHTS	830	1931-1936
334672	39.567	-82.383	LOGAN HIWAY DEPT	728	1897-1898
334681	39.883	-83.450	LONDON WATER WORKS	1025	1920-1990
334700	41.150	-80.867	LORDSTOWN	1000	1898-1899
334815	41.767	-81.083	MADISON	610	1922-1929
334865	40.817	-82.517	MANSFIELD WSO AP	1307	1948-1990
334872	40.750	-82.517	MANSFIELD	1283	1931-1937
334874	40.767	-82.617	MANSFIELD 5 W	1357	1916-1990
334924	39.417	-81.450	MARIETTA LOCK 1	615	1897-1930
334927	39.417	-81.433	MARIETTA SEWAGE TRMT PL	586	1902-1990
334929	39.433	-81.467	MARIETTA WATER WORKS	835	1916-1963
334937	40.583	-83.133	MARION	984	1897-1949
334942	40.617	-83.133	MARION 2 N	977	1936-1990
334979	40.233	-83.367	MARYSVILLE	1006	1917-1990
335021	39.250	-82.483	McARTHUR	740	1897-1944
335029	39.250	-82.483	MCARTHUR	796	1918-1918
335041	39.650	-81.850	MC CONNELLSVILLE LOCK 7	667	1897-1990
335118	41.133	-81.867	MEDINA HIGHWAY DEPT	1040	1897-1948
335215	39.083	-82.067	MIDDLEPORT	575	1921-1930
335265	39.167	-84.300	MILFORD	575	1951-1969
335268	39.183	-84.300	MILFORD WATER WORKS	526	1969-1990
335296	40.567	-81.917	MILLERSBURG	815	1923-1953
335297	40.550	-81.933	MILLERSBURG 1 W	828	1919-1990
335310	39.750	-82.100	MILLIGAN	875	1897-1916
335315	40.717	-80.900	MILLPORT 2 NW	1157	1893-1990
335356	41.150	-80.783	MINERAL RIDGE WATER WKS	897	1940-1990
335438	41.583	-84.617	MONTPELIER 1 WSW	868	1897-1990
335505	41.300	-80.767	MOSQUITO CREEK LAKE	918	1948-1955
335543	39.283	-84.567	MT HEALTHY EXP FARM	854	1914-1955
335585	40.283	-82.550	MT VERNON (NEAR)	987	1927-1943
335664	41.383	-84.117	NAPOLEON	684	1897-1962
335669	41.383	-84.133	NAPOLEON WATER WORKS	686	1962-1990
335708	40.417	-82.100	NELLIE	800	1904-1914
335747	40.083	-82.417	NEWARK WATER WORKS	846	1934-1990
335750	40.900	-81.450	NEW BERLIN	1100	1907-1912
335767	40.433	-84.383	NEW BREMEN	940	1897-1943
335795	40.283	-81.600	NEWCOMERSTOWN 1 NNE	965	1897-1897

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
335830	39.567	-83.250	NEW HOLLAND	868	1898-1898
335857	39.733	-82.217	NEW LEXINGTON 2 NW	897	1942-1990
335894	40.500	-81.450	NEW PHILADELPHIA	906	1948-1990
335908	38.967	-84.283	NEW RICHMOND	788	1900-1908
335939	39.400	-81.217	NEWPORT	678	1988-1990
336030	41.700	-82.817	NORTH BASS ISLAND	580	1924-1930
336075	40.683	-83.567	NORTH LEWISBURG	1095	1897-1908
336085	41.217	-81.750	NORTH ROYALTON	1000	1906-1921
336118	41.267	-82.617	NORWALK SEWAGE PLANT	678	1894-1990
336196	41.300	-82.217	OBERLIN	828	1893-1990
336231	39.600	-83.617	OCTA	1044	1922-1925
336333	41.333	-80.550	ORANGEVILLE	945	1897-1908
336337	41.017	-84.050	OTTAWA	724	1897-1949
336346	41.600	-83.200	OTTAWA NWR	587	1972-1989
336389	41.750	-81.300	PAINESVILLE 4 NW	606	1950-1990
336405	40.950	-83.967	PANDORA	778	1949-1990
336465	41.117	-84.600	PAULDING	737	1915-1990
336493	38.950	-83.417	PEEBLES	818	1911-1985
336498	38.933	-83.417	PEEBLES 1 S	834	1936-1962
336501	38.917	-83.300	PEEBLES 5 SE	645	1931-1936
336545	41.783	-81.117	PERRY CAA AP	704	1948-1949
336590	39.867	-81.900	PHILO	756	1897-1965
336600	39.833	-81.917	PHILO 3 SW	1024	1913-1990
336675	39.417	-83.117	PLATTSBURG	1130	1897-1915
336729	40.983	-82.700	PLYMOUTH 2 WSW	967	1933-1982
336781	38.733	-82.967	PORTSMOUTH	548	1897-1990
336796	39.000	-83.000	PORTSMOUTH AREA WB	675	1953-1955
336872	39.233	-83.850	PULSE	1000	1904-1907
336882	41.650	-82.800	PUT IN BAY PERRY MON	587	1917-1990
337065	40.433	-83.300	RICHWOOD	944	1898-1903
337080	41.450	-84.267	RIDGEVILLE CORNERS	741	1897-1899
337120	38.783	-83.800	RIPLEY EXP FARM	886	1897-1990
337145	40.967	-81.733	RITTMAN	990	1907-1911
337231	41.600	-80.883	ROME	888	1909-1909
337447	41.450	-82.717	SANDUSKY	586	1897-1990
337559	39.917	-81.433	SENECAVILLE LAKE	888	1939-1987
337650	40.917	-82.500	SHENANDOAH	1100	1900-1912
337693	40.267	-84.150	SIDNEY 1 S	947	1899-1990
337700	40.317	-84.167	SIDNEY 2 N	1045	1931-1978
337800	39.833	-82.317	SOMERSET	1080	1906-1918
337857	38.417	-82.583	SOUTH POINT	553	1990-1990
337925	39.917	-83.817	SPRINGFIELD	1024	1943-1969
337935	39.967	-83.817	SPRINGFIELD NEW WTR WKS	936	1969-1990
338025	40.383	-80.633	STEUBENVILLE WATER WKS	998	1941-1990
338148	39.817	-81.300	SUMMERFIELD 2 NE	987	1908-1930
338308	38.933	-82.450	THURMAN	696	1897-1917
338313	41.117	-83.167	TIFFIN	748	1897-1990
338318	41.100	-83.183	TIFFIN WATER WORKS	756	1960-1960
338325	40.217	-80.767	TILTONVILLE	660	1921-1927
338342	40.083	-82.233	TOBOSO	789	1913-1930
338351	41.650	-83.517	TOLEDO ACME STATION	625	1897-1951
338353	41.683	-83.483	TOLEDO SEWAGE	578	1905-1971
338356	41.567	-83.467	TOLEDO WB AIRPORT	625	1929-1954
338357	41.583	-83.800	TOLEDO EXPRESS WSO AP	677	1955-1990
338366	41.650	-83.533	TOLEDO BLADE	605	1948-1990
338378	39.550	-82.067	TOM JENKINS LAKE	768	1953-1987
338382	40.483	-80.600	TORONTO POWER PLANT	700	1948-1948
338526	40.000	-83.067	UPPER ARLINGTON	835	1951-1963
338534	40.833	-83.283	UPPER SANDUSKY	855	1897-1990
338547	40.117	-83.767	URBANA JR COLLEGE	1050	1898-1930
338552	40.100	-83.783	URBANA SEWAGE PLANT	1008	1931-1990
338598	39.900	-84.200	VANDALIA WB AIRPORT	1004	1948-1950
338609	40.867	-84.583	VAN WERT	808	1897-1990
338630	41.417	-82.383	VERMILLION	603	1900-1901
338656	41.367	-82.967	VICKERY 2 NW	595	1897-1952
338746	40.567	-84.200	WAPAKONETA	898	1913-1930
338764	41.233	-80.817	WARREN	983	1897-1990
338769	41.200	-80.817	WARREN 3 S	907	1931-1990
338794	39.517	-83.417	WASHINGTON COURT HOUSE	967	1916-1990
338822	41.517	-84.150	WAUSEON WATER PLANT	757	1897-1990
338830	39.117	-82.983	WAVERLY	567	1897-1990
338870	39.533	-84.067	WAYNESVILLE	700	1898-1927
338915	41.167	-82.250	WELLINGTON	856	1900-1910
338951	40.133	-82.950	WESTERVILLE WATER PL	818	1897-1990
339185	41.683	-81.383	WILLOUGHBY	635	1948-1953
339219	39.483	-83.850	WILMINGTON 2 NNW	1038	1918-1990
339312	40.783	-81.917	WOOSTER EXP STATION	1026	1893-1990
339322	40.783	-81.933	WOOSTER 2 SE	1107	1914-1959
339332	40.167	-83.017	WORTHINGTON 5 N	955	1951-1952
339356	39.733	-83.933	XENIA	844	1918-1925
339361	39.617	-83.900	XENIA 5 SSE	978	1931-1990
339406	41.250	-80.667	YOUNGSTOWN WSO AP	1187	1897-1990
339417	39.950	-81.900	ZANESVILLE FAA AIRPORT	885	1946-1990

PENNSYLVANIA

STN #	LAT	LON	STATION NAME	ELEV	POR
360062	41.900	-80.367	ALBION	925	1944-1955
360106	40.650	-75.433	ALLENTOWN WSO AP	397	1924-1990
360111	40.600	-75.467	ALLENTOWN GAS CO	254	1931-1965
360130	40.300	-78.317	ALTOONA FAA AP	1487	1896-1990
360134	40.500	-78.483	ALTOONA HORSESHOE CURVE	1504	1931-1967
360139	40.517	-78.450	ALTOONA MILL RUN RES	1360	1948-1967
360140	40.500	-78.467	ALTOONA 3 W	1327	1897-1990
360217	40.000	-75.283	ARDMORE	340	1931-1942
360229	39.917	-77.300	ARENDTSVILLE	714	1918-1971
360256	39.750	-78.433	ARTEMAS	925	1950-1953
360259	39.750	-78.467	ARTEMAS 1 WNW	1255	1953-1957
360313	42.000	-77.533	AUSTINBURG 2 W	1597	1961-1981
360319	41.350	-75.733	AVOCA CAA AP	925	1938-1955
360355	40.650	-79.983	BAKERSTOWN 3 WNW	1237	1948-1990
360455	41.117	-75.733	BEAR CREEK DAM	1516	1962-1963
360470	40.667	-80.350	BEAVER DAM	700	1914-1936
360482	40.767	-77.150	BEAVERTOWN 1 NE	547	1946-1990
360494	40.017	-78.500	BEDFORD	1100	1931-1943
360530	40.850	-77.783	BELLEFONTE 4 S	1115	1900-1973
360560	40.767	-75.733	BELTZVILLE DAM	747	1971-1990
360611	41.067	-76.250	BERWICK	577	1944-1978
360629	40.617	-75.383	BETHLEHEM	246	1896-1925
360634	40.600	-75.367	BETHLEHEM LEHIGH UNIV	366	1931-1964
360656	39.933	-77.250	BIGLERVILLE	727	1923-1990
360734	40.433	-79.183	BLAIRSVILLE 5 E 2	1868	1986-1988
360736	40.450	-79.150	BLAIRSVILLE 6 ENE	2045	1945-1976
360738	40.433	-79.150	BLAIRSVILLE 7 E	1847	1976-1986
360763	40.267	-77.367	BLOSERVILLE 1 N	657	1914-1990
360777	40.333	-78.567	BLUE KNOB 2 S	2440	1953-1957
360778	40.300	-78.583	BLUE KNOB 4 S	3030	1953-1957
360785	40.383	-76.033	BLUE MARSH LAKE	357	1978-1990
360865	41.800	-78.633	BRADFORD FAA AIRPORT	2146	1916-1990
360867	41.950	-78.650	BRADFORD CNTRL FIRE STA	1504	1931-1933
360868	41.950	-78.733	BRADFORD 4 W RES 1	1684	1941-1990
360905	40.000	-78.233	BREEZEWOOD	1354	1942-1943
360999	41.167	-79.067	BROOKVILLE	1230	1911-1942
361002	41.150	-79.100	BROOKVILLE FAA AIRPORT	1425	1896-1962
361004	41.150	-79.083	BROOKVILLE SEWAGE PLANT	1216	1963-1990
361080	40.517	-75.200	BUCKSVILLE	568	1978-1987
361105	40.367	-80.433	BURGETTSTOWN 2 W	980	1948-1989
361115	40.083	-77.867	BURNT CABINS 2 NE	994	1942-1976
361130	40.867	-79.900	BUTLER	1104	1899-1965
361133	40.883	-79.983	BUTLER 5 WNW	1336	1966-1967
361139	40.850	-79.917	BUTLER 2 SW	1008	1967-1990
361212	41.650	-76.850	CANTON	1167	1976-1990
361215	41.667	-76.867	CANTON 1 NW	1525	1944-1975
361234	40.200	-77.217	CARLISLE	470	1896-1980
361255	40.583	-78.700	CARROLLTOWN 2 SSE	2045	1971-1990
361281	40.950	-76.450	CATAWISSA	520	1909-1937
361314	40.833	-77.683	CENTER HALL	1320	1896-1942
361350	39.850	-79.583	CHALK HILL 2 ENE	1987	1977-1990
361354	39.933	-77.633	CHAMBERSBURG 1 ESE	647	1896-1990
361423	39.850	-75.367	CHESTER	95	1951-1958
361475	40.300	-79.867	CLAIRTON	1020	1931-1940
361485	41.200	-79.433	CLARION 3 SW	1117	1943-1990
361512	40.117	-80.467	CLAYSVILLE 3 W	1005	1904-1971
361513	40.100	-80.433	CLAYSVILLE 2 SW	1247	1951-1974
361519	41.017	-78.450	CLEARFIELD	1147	1908-1942
361522	41.117	-78.533	CLEARFIELD 8 NW NURSERY	2125	1952-1955
361534	41.733	-78.533	CLERMONT 4 NW	1627	1961-1990
361581	40.750	-78.533	COALPORT	1484	1944-1949
361589	39.967	-75.833	COATESVILLE 1 SW	345	1897-1982
361591	39.983	-75.867	COATESVILLE 2 W	648	1983-1990
361594	39.983	-75.817	COATESVILLE	344	1896-1896
361646	40.250	-76.483	COLEBROOK	560	1916-1943
361675	40.033	-76.500	COLUMBIA	305	1943-1959
361705	39.800	-79.367	CONFLUENCE 1 SW DAM	1496	1897-1990
361719	41.733	-80.283	CONNEAUTVILLE 4 ESE	1278	1976-1990
361720	41.750	-80.367	CONNEAUTVILLE	977	1959-1976
361790	41.917	-79.633	CORRY	1447	1915-1990
361804	41.783	-78.017	COUDERSPORT 1 NNE	1695	1903-1954
361805	41.800	-78.050	COUDERSPORT 2 NW	2225	1954-1956
361806	41.833	-78.067	COUDERSPORT 4 NW	2307	1956-1986
361815	41.850	-78.050	COUDERSPORT 5 NW	2188	1987-1990
361881	40.683	-79.200	CREEKSIDE	1057	1931-1940
361961	40.967	-78.517	CURWENSVILLE 1 S	1157	1948-1949
361966	41.050	-78.583	CURWENSVILLE WB AP	2225	1943-1952
362108	40.300	-79.333	DERRY 4 SW	1067	1896-1990
362116	40.083	-75.550	DEVAULT 1 W	365	1951-1988
362171	41.567	-75.900	DIXON	626	1949-1969
362183	40.133	-79.400	DONEGAL 2 NW	1806	1943-1990
362190	40.167	-79.867	DONORA 1 SW	767	1931-1990
362215	39.967	-75.667	DOWNINGTON	270	1951-1988
362236	39.950	-75.183	DREXEL UNIV	37	1978-1985
362260	41.183	-78.900	DUBOIS FAA AP	1817	1962-1990
362265	41.100	-78.633	DU BOIS 7 E	1675	1955-1974
362320	41.533	-76.367	DUSHORE 2 E	1788	1897-1909
362343	41.400	-76.583	EAGLES MERE	1997	1942-1987
362363	40.983	-79.617	EAST BRADY	857	1949-1977
362423	40.683	-75.200	EASTON	164	1896-1909
362442	41.000	-75.167	EAST STROUDSBURG S C	528	1975-1978
362459	40.350	-77.550	EAST WATERFORD 3 E	2135	1943-1955
362466	40.483	-78.717	EBENSBURG	2095	1917-1963
362470	40.467	-78.733	EBENSBURG SEWAGE PLANT	1947	1964-1990
362514	41.867	-80.133	EDINBORO	1225	1896-1897
362532	40.183	-80.133	EIGHTY FOUR	1030	1949-1977
362537	39.817	-77.267	EISENHOWER NATL HIST SIT	527	1982-1990
362629	41.500	-78.233	EMPORIUM	1047	1896-1990
362633	41.517	-78.217	EMPORIUM 1 E	1165	1931-1956
362634	41.467	-78.250	EMPORIUM 2 SSW	1745	1956-1960
362635	41.533	-78.233	EMPORIUM 1 N	1566	1960-1969
362644	41.433	-77.283	ENGLISH CENTER	887	1960-1984
362662	40.167	-76.167	EPHRATA	518	1899-1984
362677	42.117	-80.083	ERIE W B CITY	665	1896-1953
362682	42.083	-80.183	ERIE WSO AP	737	1926-1990
362721	40.017	-78.367	EVERETT	1008	1897-1990
362814	41.217	-80.517	FARRELL-SHARON	857	1931-1980
362838	39.983	-77.400	FAYETTEVILLE 9 NE	2050	1982-1990
362868	40.283	-78.917	FERNDALE	1200	1949-1977
362942	40.717	-79.500	FORD CITY 4 S DAM	938	1943-1990
363018	41.117	-75.733	FRANCIS E WALTER DAM	1518	1963-1990
363028	41.383	-79.817	FRANKLIN	995	1897-1990
363047	40.433	-75.667	FREDERICKSVILLE 2 SE	955	1943-1955
363056	41.017	-75.900	FREELAND	1907	1920-1989
363155	40.017	-77.217	GARDNERS	800	1982-1990
363200	40.217	-74.933	GEORGE SCHOOL	140	1907-1978
363211	41.650	-77.667	GERMANIA	1948	1973-1977
363218	39.833	-77.233	GETTYSBURG	547	1896-1982
363295	39.817	-78.833	GLENCOE 1 E	1890	1948-1990
363316	40.800	-78.500	GLEN HOPE	1370	1990-1990
363379	40.750	-76.333	GORDON	904	1903-1955
363394	41.250	-75.450	GOULDSBORO	1894	1924-1942
363435	40.233	-75.450	GRATERFORD	157	1957-1958
363437	40.233	-75.433	GRATERFORD 1 E	247	1960-1990
363438	40.633	-76.717	GRATZ 1 N	765	1952-1960
363488	40.383	-75.533	GREEN LANE 3 NW	307	1948-1955
363503	39.783	-79.917	GREENSBORO LOCK 7	794	1896-1901
363510	40.267	-79.550	GREENSBURG 2 S	984	1908-1952
363516	40.283	-79.500	GREENSBURG 3 SE UNITY	1245	1934-1942
363526	41.417	-80.367	GREENVILLE 2 NE	1137	1897-1990
363568	41.167	-80.083	GROVE CITY	1256	1907-1942
363632	40.550	-75.983	HAMBURG	358	1896-1990
363662	39.800	-76.983	HANOVER	604	1904-1990
363699	40.217	-76.850	HARRISBURG FAA AP	347	1896-1990
363706	40.250	-76.867	HARRISBURG RIVER GAGE	290	1948-1990
363758	41.483	-75.167	HAWLEY	898	1897-1990
363761	41.467	-75.183	HAWLEY 1 S DAM	1205	1934-1958
363762	41.467	-75.133	HAWLEY 3 ESE	850	1948-1958
363859	41.467	-75.183	HAWLEY 1 S DAM	1180	1948-1951
363897	39.733	-78.533	HEWITT 2 S	844	1944-1950
363952	40.250	-77.250	HOGESTOWN	351	1948-1990
364001	40.433	-78.417	HOLLIDAYSBURG 2 NW	997	1896-1898
364019	39.833	-76.333	HOLTWOOD	207	1920-1990
364076	40.200	-75.783	HOPEWELL VILLAGE	557	1979-1990
364118	40.250	-76.733	HUMMELSTOWN 2 W	490	1979-1990
364141	41.250	-76.050	HUNLOCK CREEK 4 N	1187	1971-1973
364159	40.500	-78.017	HUNTINGDON	677	1896-1969
364190	39.817	-78.733	HYNDMAN	966	1906-1937
364214	40.600	-79.117	INDIANA 3 SE	1107	1896-1990
364219	40.617	-79.167	INDIANA	1304	1898-1952
364276	40.333	-79.700	IRWIN	1104	1896-1957
364311	41.617	-75.267	JADWYN DAM	1100	1971-1973
364325	41.500	-80.467	JAMESTOWN 2 NW	1047	1932-1990
364363	41.200	-77.250	JERSEY SHORE	617	1921-1967
364370	40.867	-75.750	JIM THORPE	837	1954-1959
364385	40.333	-78.917	JOHNSTOWN	1217	1896-1990
364397	40.617	-76.467	JOLIETT	1625	1954-1959
364432	41.683	-78.800	KANE 1 NNE	1757	1940-1990
364437	41.600	-78.767	KANE 5 SE	2014	1932-1940
364450	41.117	-78.100	KARTHAUS	957	1963-1972
364477	41.100	-78.150	KEEWAYDIN	1377	1973-1975
364481	39.983	-78.717	KEGG	1285	1951-1990
364545	41.367	-77.933	KETTLE CREEK DAM	930	1973-1975
364570	40.300	-79.350	KINGSTON	1032	1948-1956
364699	41.000	-78.167	KYLERTOWN	1700	1929-1942
364758	40.050	-76.283	LANCASTER 2NE PUMP STN	264	1896-1974
364763	40.050	-76.283	LANCASTER 2 NE FILT PL	278	1976-1990
364768	40.067	-76.283	LANCASTER 3 NE	365	1948-1952
364778	40.117	-76.433	LANDISVILLE 2 NW	365	1952-1990
364792	40.167	-74.967	LANGHORNE	41	1952-1990
364836	40.183	-79.117	LAUREL MTN STATE PARK	2688	1970-1990
364853	40.900	-77.217	LAURELTON STATE VILLAGE	806	1964-1990
364873	41.967	-77.133	LAWRENCEVILLE 2 S	927	1896-1974
364891	40.333	-76.483	LEBANON 3 W	465	1896-1962

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
364893	40.350	-76.483	LEBANON 4 WNW	596	1962-1965
364896	40.333	-76.467	LEBANON 2 W	457	1965-1990
364972	41.683	-76.717	LE ROY	1044	1896-1917
364982	40.967	-76.867	LEWISBURG	465	1964-1990
364992	40.583	-77.583	LEWISTOWN	468	1938-1990
365050	41.650	-80.433	LINESVILLE 1 S	1038	1952-1990
365104	41.133	-77.417	LOCK HAVEN	557	1896-1977
365109	41.117	-77.450	LOCK HAVEN SEW PLT	577	1977-1990
365212	40.450	-79.483	LOYALHANNA LAKE	998	1989-1990
365259	40.233	-79.400	LYCIPPUS 1 E	1424	1897-1942
365336	40.833	-78.433	MADERA	1608	1949-1990
365390	39.817	-75.417	MARCUS HOOK	17	1920-1990
365408	40.750	-79.033	MARION CENTER 2 SE	1616	1903-1990
365454	40.300	-78.317	MARTINSBG FAA AP/ALT/	1486	1942-1977
365470	41.367	-74.700	MATAMORAS	408	1963-1990
365479	40.867	-75.750	MAUCH CHUNK	835	1896-1954
365573	40.350	-79.867	MC KEESPORT	724	1987-1990
365606	41.633	-80.167	MEADVILLE 1 S	1076	1928-1990
365649	41.283	-80.200	MERCER WB AIRPORT	1294	1938-1948
365650	41.200	-80.350	MERCER 6 W	1284	1949-1949
365651	41.217	-80.233	MERCER	1228	1950-1990
365652	41.283	-80.283	MERCER 4 NW	1325	1950-1955
365662	39.833	-77.900	MERCERSBURG	547	1960-1990
365703	40.183	-76.767	MIDDLETOWN OLMSTED FLD	305	1931-1959
365710	40.633	-80.467	MIDLAND DAM 7	694	1936-1961
365726	40.567	-77.417	MIFFLINTOWN	620	1903-1938
365738	41.667	-75.067	MILANVILLE	766	1963-1975
365817	41.100	-76.567	MILLVILLE 2 SW	867	1960-1990
365902	40.650	-80.383	MONTGOMERY LOCK AND DAM	696	1962-1990
365915	41.833	-75.867	MONTROSE	1567	1903-1990
365956	40.150	-75.900	MORGANTOWN	595	1951-1986
366028	40.233	-76.433	MT GRETNA 2 SE	675	1951-1972
366039	40.383	-80.050	MT. LEBANON	1200	1931-1945
366050	41.117	-75.367	MOUNT POCONO	1720	1963-1975
366055	41.150	-75.367	MOUNT POCONO 2 N	1925	1915-1960
366090	41.217	-76.133	MUHLENBURG 1 SE	1115	1953-1960
366098	41.350	-76.583	MUNCY VALLEY	940	1909-1942
366174	40.667	-77.917	NEFFS MILLS 3 NE	905	1941-1954
366194	40.150	-74.950	NESHAMINY FALLS	67	1896-1990
366216	40.417	-77.183	NEW BLOOMFIELD	715	1937-1947
366225	40.150	-77.617	NEWBURG 3 W	744	1942-1959
366233	41.017	-80.367	NEW CASTLE 1 N	838	1914-1990
366246	40.083	-79.900	NEWELL	817	1920-1980
366297	40.483	-77.133	NEWPORT	384	1948-1990
366310	40.233	-79.617	NEW STANTON 1 NW	958	1952-1990
366370	40.117	-75.350	NORRISTOWN	75	1951-1987
366508	39.800	-76.050	OCTORARO LAKE	267	1978-1990
366689	40.800	-75.617	PALMERTON	415	1919-1990
366734	40.850	-76.117	PARK PLACE WB	1935	1931-1954
366792	40.867	-75.333	PEN ARGYL	718	1948-1954
366840	40.367	-75.300	PERKASIE	406	1969-1978
366879	39.950	-75.183	PHILADELPHIA DREXEL U	37	1948-1978
366881	40.050	-75.133	PHILADELPHIA EAST OAK LA	224	1948-1978
366882	39.967	-75.183	PHILADELPHIA FAIRMOUNT D	574	1948-1978
366884	39.967	-75.167	PHILA FRANKLIN INST	104	1948-1951
366888	39.950	-75.150	PHILADELPHIA WSFO	217	1974-1979
366889	39.883	-75.233	PHILADELPHIA WSO AP	18	1948-1990
366894	39.883	-75.167	PHILADELPHIA NAVY YARD	15	1926-1941
366899	39.917	-75.200	PHILADELPHIA PT BREEZE	35	1926-1963
366904	40.033	-75.250	PHILADELPHIA SHAWMONT	74	1931-1957
366907	39.967	-75.283	PHILA UPPER DARBY	244	1949-1949
366909	39.950	-75.150	PHILADELPHIA CITY	35	1948-1963
366910	39.950	-75.167	PHILADELPHIA 10TH CHESTN	190	1965-1978
366916	40.900	-78.083	PHILIPSBURG FAA AP	2008	1942-1990
366927	40.117	-75.500	PHOENIXVILLE 1 E	118	1915-1990
366932	40.133	-75.533	PHOENIXVILLE TELEMARK	105	1948-1990
366944	41.033	-75.500	PIMPLE HILL	2225	1949-1959
366976	41.183	-78.150	PIPER	2080	1948-1990
366992	40.350	-79.933	PTSBGH ALGY CO CAA AP	127	1896-1952
366993	40.500	-80.217	PITTSBURGH WSCOM 2 AP	1157	1921-1990
366997	40.450	-80.000	PITTSBURGH WSO CI	757	1897-1979
367029	41.733	-75.450	PLEASANT MOUNT 1 W	1807	1951-1990
367073	39.717	-79.900	POINT MARION LOCK 8	810	1948-1979
367116	40.583	-76.033	PORT CLINTON	450	1931-1979
367149	40.250	-75.650	POTTSTOWN	127	1896-1901
367167	40.650	-78.550	PRINCE GALLITZIN ST PAR	1528	1982-1990
367183	41.300	-75.217	PROMISED LAND ST PARK	1758	1951-1990
367186	41.583	-75.317	PROMPTON DAM	1500	1951-1990
367217	40.950	-79.000	PUNXSUTAWNEY	1307	1913-1919
367229	40.933	-79.283	PUTNEYVILLE 2 SE DAM	1287	1943-1990
367239	40.433	-75.333	QUAKERTOWN	496	1896-1969
367285	41.633	-78.567	RASSELAS	2100	1948-1990
367312	40.433	-78.000	RAYSTOWN LAKE 2	847	1974-1990
367314	40.483	-78.000	RAYSTOWN DAM	625	1974-1990
367318	40.333	-75.967	READING WB CITY	275	1897-1973
367322	40.367	-75.933	READING 3 N	270	1896-1990
367409	41.333	-77.733	RENOVO	667	1898-1990
367411	41.367	-77.733	RENOVO 3 NNE	164	1972-1973

STN #	LAT	LON	STATION NAME	ELEV	POR
367417	41.200	-76.100	RETREAT 1 SW	574	1933-1953
367477	41.417	-78.750	RIDGWAY	1366	1913-1990
367480	41.417	-78.733	RIDGWAY 1 NE	1355	1948-1990
367578	40.550	-75.717	RODALE RESEARCH CTR.	558	1983-1990
367782	40.517	-79.550	SALINA 3 W	1115	1953-1990
367851	41.050	-77.633	SAYERS DAM	676	1948-1990
367902	41.417	-75.667	SCRANTON	755	1896-1974
367905	41.333	-75.733	SCRANTON WB AIRPORT	935	1955-1963
367931	40.800	-76.867	SELINSGROVE	428	1896-1990
368073	40.050	-77.517	SHIPPENSBURG	688	1932-1990
368078	40.617	-80.433	SHIPPINGPORT WB	745	1955-1957
368184	41.050	-80.067	SLIPPERY ROCK 1 SSW	1258	1949-1990
368190	41.817	-78.433	SMETHPORT	1477	1896-1905
368244	40.000	-79.083	SOMERSET	2106	1896-1925
368249	40.017	-79.083	SOMERSET MAIN ST	2155	1917-1958
368359	41.800	-80.383	SPRINGBORO	905	1955-1959
368395	39.733	-79.167	SPRINGS 1 SW	2504	1931-1958
368449	40.800	-77.867	STATE COLLEGE	1177	1896-1990
368452	40.800	-77.867	STATE COLLEGE 2	1180	1948-1990
368469	41.400	-78.017	STEVENSON DAM	937	1969-1990
368560	40.100	-78.950	STOYSTOWN	1807	1961-1990
368596	41.000	-75.183	STROUDSBURG	486	1911-1990
368635	40.317	-76.917	SUMMERDALE (NEAR)	500	1935-1941
368668	40.850	-76.800	SUNBURY	446	1957-1976
368673	40.883	-76.783	SUNBURY 2 N AIRPORT	454	1942-1949
368674	40.833	-76.833	SUNBURY RIVER GAGE	408	1948-1949
368725	41.283	-76.133	SWEET VALLEY	1346	1965-1970
368770	41.400	-77.850	TAMARACK 2 S FIRE TOWER	2226	1943-1960
368776	41.033	-75.300	TANNERSVILLE	910	1965-1970
368873	41.483	-79.433	TIONESTA 2 SE DAM	1205	1921-1990
368880	41.600	-79.667	TITUSVILLE 2 S	1524	1943-1954
368888	41.633	-79.700	TITUSVILLE WATER WORKS	1227	1954-1990
368893	41.183	-75.417	TOBYHANNA	1948	1961-1990
368905	41.750	-76.417	TOWANDA 1 ESE	758	1896-1990
368908	40.583	-76.567	TOWER CITY	864	1949-1951
368912	40.583	-76.517	TOWER CITY 2E	846	1961-1965
368982	41.567	-75.900	TUNKHANNOCK	627	1945-1973
369050	39.917	-79.717	UNIONTOWN 1 NE	967	1890-1990
369058	41.283	-76.533	UNITYVILLE 3 NW	1340	1961-1965
369074	39.967	-75.300	UPPER DARBY	2005	1950-1958
369103	40.100	-75.100	VALLEY FORGE NATL PARK	160	1950-1958
369128	40.600	-79.550	VANDERGRIFT	804	1914-1947
369298	41.850	-79.150	WARREN	1217	1896-1990
369318	40.150	-80.267	WASHINGTON 2 SW	1288	1975-1990
369322	40.100	-80.317	WASHINGTON 6 SW	1248	1981-1981
369362	39.900	-80.217	WAYNESBURG 2 W	984	1931-1962
369367	39.900	-80.167	WAYNESBURG 1 E	947	1948-1990
369407	41.750	-77.283	WELLSBORO	1324	1896-1950
369408	41.700	-77.267	WELLSBORO 3 S	1867	1948-1990
369420	40.050	-76.950	WELLSVILLE	504	1946-1958
369464	39.967	-75.633	WEST CHESTER 1 W	457	1896-1990
369490	41.983	-77.567	WESTFIELD 5 N	1888	1981-1988
369503	39.800	-75.800	WEST GROVE 1 SE	456	1963-1976
369702	41.283	-75.850	WILKES-BARRE 4 NE	668	1896-1910
369705	41.333	-75.733	W BARRE SCRANT WSO AP	937	1964-1990
369723	41.217	-76.950	WILLIAMSPORT 4 SE TWR	1994	1896-1925
369728	41.250	-76.917	WILLIAMSPORT WSO AP	528	1948-1990
369733	41.233	-77.000	WILLIAMSPORT	504	1931-1944
369741	40.583	-76.633	WILLIAMSTOWN	784	1931-1949
369742	40.583	-76.617	WILLIAMSTOWN 1 NE	1185	1951-1951
369933	39.917	-76.750	YORK 3 SSW PUMP STA	394	1896-1990
369950	40.117	-76.717	YORK HAVEN	317	1964-1979
369982	40.700	-76.383	ZERBEY AIRPORT	1708	1965-1979
369990	40.900	-76.217	ZION GROVE	947	1963-1973

WISCONSIN

STN #	LAT	LON	STATION NAME	ELEV	POR
470045	42.617	-89.067	AFTON	747	1987-1990
470124	44.333	-91.933	ALMA DAM 4	677	1949-1990
470175	45.300	-92.367	AMERY	1076	1922-1990
470205	44.467	-98.283	AMHERST, PORTAGE CO.	1194	1896-1908
470239	45.133	-89.150	ANTIGO 1 SSW	1456	1896-1990
470265	44.250	-88.383	APPLETON	758	1901-1990
470273	43.033	-89.433	ARBORETUM U OF WISC	877	1971-1990
470307	43.333	-89.367	ARLINGTON	1044	1931-1971
470308	43.300	-89.350	ARLINGTON UNIV FARM	1088	1962-1990
470349	46.567	-90.967	ASHLAND EXPERIMENT FARM	656	1905-1990
470516	43.467	-89.733	BARABOO	824	1949-1990
470565	45.500	-91.833	BARRON, BARRON CO.	1115	1896-1920
470603	46.883	-90.817	BAYFIELD 6 N	825	1896-1990
470645	43.450	-88.850	BEAVER DAM	845	1953-1990
470696	42.500	-89.033	BELOIT	785	1896-1990
470740	43.983	-88.950	BERLIN	768	1904-1906
470773	45.550	-90.950	BIG FALLS HYDRO	1228	1983-1990
470786	45.917	-89.533	BIG SAINT GERMAIN DAM	1627	1931-1971
470882	44.300	-91.233	BLAIR	867	1925-1990
470904	45.100	-91.483	BLOOMER	987	1947-1990
470991	44.867	-88.983	BOWLER	1085	1959-1990
471044	45.050	-88.417	BREED 6 SSE	877	1959-1990
471078	42.617	-89.383	BRODHEAD	796	1898-1990
471139	45.950	-88.217	BRULE ISLAND	1257	1936-1989
471205	42.667	-88.267	BURLINGTON	765	1951-1990
471213	43.467	-88.700	BURNETT 3 S	976	1903-1970
471245	46.018	-90.492	BUTTERNUT, ASHLAND CO.	1508	1896-1908
471280	43.750	-90.783	CASHTON	1386	1949-1990
471282	43.717	-90.767	CASHTON 2 S	1336	1966-1968
471416	43.050	-89.467	CHARMANY FARM	917	1959-1990
471568	44.033	-88.150	CHILTON	846	1896-1990
471578	44.933	-91.383	CHIPPEWA FALLS	856	1924-1930
471676	44.617	-88.750	CLINTONVILLE	805	1952-1990
471708	44.367	-89.533	CODDINGTON 1 E	1068	1921-1984
471836	46.867	-91.083	CORNUCOPIA	640	1912-1937
471847	45.867	-91.450	COUDERAY 7 W	1307	1951-1990
471875	45.567	-88.900	CRANDON RANGER STATION	1644	1896-1919
471897	45.283	-88.200	CRIVITZ HIGH FALLS	1058	1931-1990
471923	45.533	-92.017	CUMBERLAND	1246	1932-1990
471970	43.650	-89.200	DALTON	864	1944-1990
471978	46.017	-92.367	DANBURY	955	1920-1990
472001	42.683	-90.117	DARLINGTON	937	1901-1990
472050	42.633	-88.317	DELEVAN, WALWORTH CO.	920	1896-1922
472165	44.133	-91.550	DODGE	685	1959-1990
472173	42.967	-90.117	DODGEVILLE 1 NE	1118	1896-1990
472209	45.05	-92.10	DOWNING, DUNN CO.	983	1902-1937
472240	46.333	-91.267	DRUMMOND	1347	1962-1990
472314	45.917	-89.250	EAGLE RIVER	1657	1990-1990
472423	44.817	-91.500	EAU CLAIRE	775	1897-1960
472428	44.867	-91.483	EAU CLAIRE FAA AIRPORT	896	1949-1990
472507	43.800	-88.633	EL DORADO 1 SSW	898	1939-1981
472556	44.733	-92.483	ELLSWORTH	1038	1908-1990
472678	44.600	-90.967	FAIRCHILD RANGER STA	1085	1959-1990
472820	45.93	-88.25	FLORENCE, FLORENCE CO.	1290	1896-1930
472839	43.800	-88.450	FOND DU LAC	766	1896-1990
472844	42.550	-88.583	FONTANA	1057	1959-1968
472869	42.883	-88.833	FORT ATKINSON	807	1941-1990
472889	46.500	-92.283	FOXBORO	936	1963-1990
472893	46.417	-92.250	FOXBORO 6 SSE	1266	1960-1963
472934	45.650	-92.467	FREDERIC	1247	1952-1970
473022	43.317	-90.850	GAYS MILLS	708	1986-1990
473038	43.567	-91.233	GENOA DAM 8	646	1945-1990
473058	43.217	-88.117	GERMANTOWN	856	1944-1990
473174	45.617	-88.350	GOODMAN	1397	1959-1990
473186	46.250	-91.800	GORDON	1047	1951-1990
473214	43.767	-89.300	GRAND RIVER LOCK	774	1908-1954
473242	45.783	-92.683	GRANTSBURG	1104	1896-1950
473244	45.783	-92.700	GRANTSBURG	997	1950-1990
473269	44.483	-88.133	GREEN BAY WSO AP	687	1896-1990
473332	46.467	-90.500	GURNEY	986	1952-1990
473405	44.117	-89.533	HANCOCK EXPERIMENT FARM	1085	1903-1990
473453	43.317	-88.400	HARTFORD 2 W	988	1953-1990
473471	44.400	-90.733	HATFIELD HYDRO PLANT	956	1908-1990
473511	46.000	-91.483	HAYWARD RANGER STATION	1205	1896-1974
473550	46.833	-91.263	HERBSTER, BAYFIELD CO.	-999	1907-1909
473649	43.650	-90.333	HILLSBORO	1004	1896-1958
473654	43.650	-90.333	HILLSBORO	945	1959-1990
473698	45.217	-91.133	HOLCOMBE	1035	1942-1990
473756	43.450	-88.633	HORICON	887	1970-1990
473800	45.417	-90.167	HURLEY	-999	1987-1990
473917	46.567	-91.403	IRON RIVER, BAYFIELD CO.	1096	1909-1947
473979	42.667	-89.017	JANESVILLE	765	1944-1987
474080	45.367	-90.767	JUMP RIVER 3 E	1277	1962-1990
474174	42.550	-87.783	KENOSHA	607	1944-1990
474195	44.433	-87.517	KEWAUNEE 5 S	657	1908-1990
474295	45.383	-89.183	KOEPENICK, LANGLADE CO.	1683	1896-1925
474367	43.817	-91.233	LA CROSSE STATE U	656	1955-1970
474370	43.867	-91.250	LA CROSSE FAA AP	657	1896-1990
474375	43.800	-91.250	LA CROSSE WB CITY	715	1948-1952
474391	45.467	-91.083	LADYSMITH	1168	1949-1983
474396	45.467	-91.133	LADYSMITH RANGER STA	1166	1901-1906
474457	42.600	-88.433	LAKE GENEVA	884	1946-1990
474482	43.067	-88.917	LAKE MILLS	857	1907-1990
474523	45.333	-88.500	LAKEWOOD 3 NE	1296	1968-1990
474546	42.833	-90.783	LANCASTER 4 WSW	1047	1896-1990
474555	46.167	-89.217	LAND O LAKES	1715	1941-1954
474582	45.517	-88.750	LAONA 6 SW	1537	1927-1990
474821	43.200	-90.183	LONE ROCK FAA AP	717	1947-1983
474829	45.900	-89.133	LONG LAKE DAM	1634	1908-1990
474894	45.567	-92.467	LUCK	1227	1971-1990
474937	43.217	-91.100	LYNXVILLE DAM 9	636	1945-1990
474953	46.833	-90.633	MADELINE ISLAND	624	1944-1990
474961	43.133	-89.333	MADISON WSO AP	867	1948-1990
474966	43.083	-89.400	MADISON WB CITY	945	1896-1963
475017	44.100	-87.683	MANITOWOC	666	1896-1990
475091	45.100	-87.633	MARINETTE	615	1919-1990
475120	44.650	-90.133	MARSHFIELD EXP FARM	1257	1913-1990
475164	44.183	-90.367	MATHER 3 NW	977	1903-1990
475178	43.783	-90.067	MAUSTON 1 SE	875	1905-1990
475236	44.233	-90.233	MEADOW VALLEY R S	1006	1931-1947
475255	45.133	-90.350	MEDFORD	1477	1896-1990
475286	46.433	-90.617	MELLEN 4 NE	1307	1926-1990
475298	44.200	-88.467	MENASHA	745	1920-1956
475330	44.867	-91.917	MENOMONIE	895	1938-1957
475335	44.883	-91.933	MENOMONIE	786	1957-1990
475364	45.183	-89.683	MERRILL	1257	1905-1990
475469	43.033	-87.967	MILWAUKEE MARQ HIGH	-999	1948-1951
475474	43.067	-88.033	MILWAUKEE MT MARY COL	726	1946-1990
475477	43.117	-87.933	MILWAUKEE N SIDE	637	1949-1976
475479	42.950	-87.900	MILWAUKEE WSO AP	677	1927-1990
475484	43.033	-87.900	MILWAUKEE WB CITY	625	1896-1954
475516	45.883	-89.733	MINOCQUA DAM	1594	1903-1990
475525	46.083	-91.917	MINONG 5 WSW	1086	1961-1990
475563	44.567	-91.683	MONDOVI	838	1908-1990
475581	43.800	-89.317	MONTELLO	786	1954-1990
475677	43.000	-89.767	MOUNT HOREB 1 WSW	1225	1904-1920
475718	43.200	-90.433	MUSCODA	718	1909-1990
475786	44.033	-90.083	NECEDAH	937	1953-1990
475808	44.533	-90.633	NEILLSVILLE 3 SW	1056	1896-1990
475863	45.783	-88.700	NEWALD 4 N	1547	1959-1990
475932	44.383	-88.733	NEW LONDON	766	1896-1990
475948	45.133	-92.550	NEW RICHMOND, ST. CROIX	987	1905-1918
476122	45.633	-89.250	NORTH PELICAN	1615	1948-1990
476200	43.100	-88.500	OCONOMOWOC	867	1944-1990
476208	44.900	-87.950	OCONTO 4 W	666	1896-1990
476320	45.367	-92.750	OSCEOLA, POLK CO.	806	1898-1920
476330	44.050	-88.550	OSHKOSH	758	1896-1990
476357	44.950	-90.533	OWEN	1245	1946-1990
476398	45.933	-90.450	PARK FALLS	1525	1910-1990
476594	44.183	-89.033	PINE RIVER 3 NE	908	1896-1982
476622	44.433	-90.133	PITTSVILLE	1037	1938-1987
476646	42.750	-90.483	PLATTEVILLE	1026	1947-1990
476667	45.317	-86.950	PLUM ISLAND, DOOR CO.	588	1908-1943
476678	43.750	-87.983	PLYMOUTH	876	1910-1990
476718	43.533	-89.433	PORTAGE	808	1896-1990
476750	44.333	-89.883	PORT EDWARDS, WOOD CO.	969	1910-1919
476764	43.383	-87.867	PORT WASHINGTON	605	1896-1990
476772	46.767	-91.383	PORT WING 2 E	858	1948-1985
476827	43.033	-91.150	PRAIRIE DU CHIEN	666	1896-1990
476838	43.317	-89.733	PRAIRIE DU SAC 2 N	785	1911-1990
476854	45.550	-90.300	PRENTICE	1546	1900-1902
476859	45.517	-90.283	PRENTICE 2	1547	1899-1990
476922	42.717	-87.783	RACINE	608	1896-1990
476939	45.833	-89.550	RAINBOW RESERVOIR	1607	1946-1990
477052	43.533	-90.017	REEDSBURG	916	1914-1990
477092	46.133	-89.883	REST LAKE	1604	1913-1990
477113	45.633	-89.417	RHINELANDER	1586	1908-1990
477132	45.500	-91.750	RICE LAKE	1136	1952-1990
477158	43.333	-90.383	RICHLAND CENTER	734	1908-1990
477174	45.217	-91.883	RIDGELAND 1 NNE	966	1961-1990
477209	43.867	-88.750	RIPON 5 NE	934	1910-1925
477226	44.867	-92.617	RIVER FALLS	905	1918-1990
477349	44.767	-89.250	ROSHOLT 9 NNE	1168	1947-1990
477464	45.417	-92.650	ST CROIX FALLS	776	1950-1990
477480	45.900	-89.450	SAINT GERMAIN 2 SE	1637	1910-1990
477612	46.500	-90.383	SAXON 1 NE	1105	1948-1950
477708	44.767	-88.617	SHAWANO	817	1896-1990
477725	43.750	-87.717	SHEBOYGAN	656	1899-1990
477792	43.100	-87.900	SHOREWOOD	666	1959-1966
477810	42.567	-91.233	SHULLBURG, LAFAYETTE CO.	1019	1906-1918
477892	46.350	-91.817	SOLON SPRINGS	1085	1906-1990
477997	43.933	-90.817	SPARTA	787	1917-1990
478027	45.817	-91.883	SPOONER EXPERIMENT FARM	1106	1896-1990
478110	44.967	-90.933	STANLEY	1127	1903-1990

STN # - STATION NUMBER, LAT - LATITUDE, LON - LONGITUDE, ELEV - ELEVATION, POR - PERIOD OF RECORD, 99.999 - UNKNOWN LATITUDE, 999.999 - UNKNOWN LONGITUDE, -999 - UNKNOWN ELEVATION

STN #	LAT	LON	STATION NAME	ELEV	POR
478171	44.500	-89.567	STEVENS POINT	1085	1896-1990
478229	42.917	-89.217	STOUGHTON	847	1948-1990
478267	44.867	-87.333	STURGEON BAY EXP FARM	665	1905-1990
478349	46.700	-92.017	SUPERIOR	636	1909-1990
478528	45.433	-89.750	TOMAHAWK SPIRIT RES	1444	1902-1977
478561	45.333	-88.583	TOWNSEND	1365	1945-1968
478589	44.000	-91.433	TREMPEALEAU DAM 6	666	1948-1990
478672	44.150	-87.567	TWO RIVERS	605	1950-1990
478805	44.000	-90.450	VALLEY JUNCTION, MONROE	929	1896-1916
478827	43.567	-90.900	VIROQUA	1208	1896-1990
478872	42.533	-88.567	WALWORTH	1005	1958-1958
478905	45.367	-86.933	WASHINGTON ISLAND	616	1944-1990
478919	43.200	-88.717	WATERTOWN	828	1896-1990
478937	43.017	-88.233	WAUKESHA	865	1896-1987
478951	44.350	-89.067	WAUPACA	846	1896-1990
478963	44.867	-89.650	WAUSAU	1186	1896-1930
478968	44.917	-89.617	WAUSAU FAA AIRPORT	1205	1941-1990
478971	44.950	-89.617	WAUSAU RECORD HERALD	1225	1900-1960
478978	45.383	-87.950	WAUSAUKEE	755	1897-1902
479046	43.017	-87.983	WEST ALLIS	725	1951-1987
479050	43.400	-88.183	WEST BEND	946	1896-1990
479119	43.900	-91.083	WEST SALEM	744	1944-1954
479144	45.400	-91.383	WEYERHAUSER 2 SSE	1208	1906-1990
479190	42.850	-88.733	WHITEWATER	805	1949-1990
479226	42.583	-88.533	WILLIAMS BAY	895	1921-1958
479236	45.717	-89.850	WILLOW RESERVOIR	1564	1934-1990
479304	45.883	-91.067	WINTER 6 NNW	1316	1915-1990
479319	43.633	-89.783	WISCONSIN DELLS	848	1931-1990
479335	44.383	-89.800	WISCONSIN RAPIDS	1045	1920-1990

Appendix B: Listing of Stations with Identical Data by State, Stations, and Year(s)

State	No. of Station Pairs	Page
Illinois	2	39
Indiana	4	39
Michigan	0	39
Minnesota	4	39
New York	27	39
Ohio	2	41
Penn.	50	41
Wisconsin	1	44

ILLINOIS	stations	years with identical data
	111572: 111582	1907, 1908, 1912, 1914, 1915, 1916, 1918, 1919, 1920, 1921, 1923, 1924, 1925
	118179: 118184	1955

INDIANA	stations	years with identical data
	122813: 127090	1902
	124113: 125080	1905, 1906, 1907, 1908, 1909
	126462: 129557	1898, 1899, 1900
	126465: 128187	1939

MICHIGAN	stations	years with identical data
	NO IDENTICAL DATA FOUND	

MINNESOTA	stations	years with identical data
	213793: 213795	1920
	216780: 216795	1926, 1927, 1928, 1929, 1930
	216785: 216795	1908, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1921, 1923, 1924
	217377: 217740	1956

NEW YORK	stations	years with identical data
	300047: 300049	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970
	300360: 300362	1948, 1949, 1950, 1951, 1952, 1953, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	300889: 301285	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	301101: 301103	1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1953, 1960, 1961, 1962, 1963, 1964, 1965, 1966
	301272: 301415	1948, 1949, 1950, 1951
	302615: 302675	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960
	303102: 303553	1948, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978
	305441: 305500	1973, 1974, 1975, 1976, 1977, 1978, 1979
	306301: 306546	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959

NY (cont.)	stations	years with identical data
	306441: 306768	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	306464: 306701	1987, 1988, 1989, 1990
	306820: 306823	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	306820: 306825	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	306820: 306827	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	306823: 306825	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	306823: 306827	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	306825: 306827	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	307077: 307160	1948, 1949, 1950, 1951, 1952
	307167: 307578	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	307167: 307617	1948, 1949, 1950, 1951, 1952, 1953, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990

NY (cont.)	stations	years with identical data
	307497: 307498	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	307514: 307515	1988, 1989, 1990
	307578: 307617	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, -1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	307633: 307636	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	308058: 308068	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979
	308152: 308290	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967
	308248: 308631	1935

OHIO	stations	years with identical data
	331541: 335118	1897, 1899, 1900, 1904, 1907, 1908, 1910, 1911, 1912, 1914, 1915, 1916, 1918, 1919, 1920, 1921, 1922, 1924, 1926, 1929, 1930
	334872: 334874	1931, 1932, 1933, 1934, 1935, 1936

PENNSYLVANIA	stations	years with identical data
	360134: 360139	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967
	360259: 360777	1954, 1956, 1957
	360259: 360778	1954, 1956, 1957
	360777: 360778	1953, 1954, 1955, 1956, 1957
	361581: 361961	1948, 1949
	362116: 362215	1951, 1952, 1953, 1954, 1955, 1956, 1957, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988
	362363: 362532	1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977

PA (cont.)	stations	years with identical data
	362363: 362868	1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964' 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972: 1973, 1974, 1975, 1976, 1977
	362532: 362868	1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964: 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977
	362537: 362838	1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	362537: 363155	1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	362838: 363155	1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	362942: 363295	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955 1956, 1957, 1958, 1959, 1960, 1961, 1962: 1963: 1967, 1968, 1969, 1971 1972, 1973, 1974, 1975, 1976, 1977 1978, 1979' 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987', 1988, 1989, 1990
	363699: 363706	1948, 1950, 1951, 1952, 1953, 1954, 1955 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955 1956, 1957, 1958, 1959, 1960, 1961 1962, 1963' 1964, 1965, 1966, 1967, 1968, 1969: 1970, 1971' 1970, 1971, 1972, 1975, 1976, 1977, 1978, 1979: 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	363699: 363952	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963' 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971' 1970, 1971, 1972, 1975, 1976, 1977: 1978, 1979: 1983, 1984, 1986, 1987, 1988, 1989, 1990
	363706: 363952	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987: 1988, 1989, 1990
	363761: 363762	1948, 1949, 1950, 1952, 1953, 1954, 1956, 1957,
	363761: 363859	1948, 1949
	363762: 363859	1948, 1949
	364076: 364118	1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	364141: 364311	1971, 1972, 1973
	364214: 364219	1947
	364270: 364597	1948, 1949, 1951, 1952, 1953, 1955, 1956 1954, 1955, 1956, 1957, 1958, 1959
	364477: 364545	1973, 1974, 1975
	364778: 364792	1950, 1951, 1952, 1955, 1956, 1957, 1958, 1959, 1968, 1969, 1970, 1963, 1964, 1965, 1966, 1967, 1976, 1977, 1978, 1971, 1972, 1973, 1974, 1975, 1984, 1985, 1986, 1979, 1980, 1981, 1982, 1983, 1987, 1988, 1989

PA (cont.)	stations	years with identical data
	364853: 364982	1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	365738: 366050	1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975
	366734: 366792	1948, 1949, 1950, 1951, 1952, 1953, 1954
	366879: 366881	1954, 1957, 1960, 1961, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978
	366879: 366882	1954, 1957, 1960, 1961, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978
	366881: 366882	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971: 1972, 1973, 1974, 1975, 1976, 1977, 1978
	366916: 366976	1948, 1949, 1950, 1951, 1952, 1954, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990'
	366916: 367285	1948, 1949, 1950, 1951, 1952, 1954, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	366927: 366932	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	366976: 367285	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	366997: 367073	1950, 1951, 1952, 1953, 1954; 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973', 1974, 1975, 1976, 1977, 1978, 1979
	367029: 367183	1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	367183: 367186	1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990

PA (cont.)	stations	years with identical data
	367183: 367186	1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	367312: 367314	1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	367477: 367480	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	367477: 367851	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	367480: 367851	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	368449: 368452	1948, 1949, 1950, 1951, 1952, 1953, 1954, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990
	368673: 368674	1948, 1949
	368725: 368776	1965, 1966, 1967, 1968, 1969, 1970
	368912: 369058	1961, 1962, 1963, 1964, 1965
	369074: 369103	1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958

WISCONSIN	stations	years with identical data
	473405: 473649	1903