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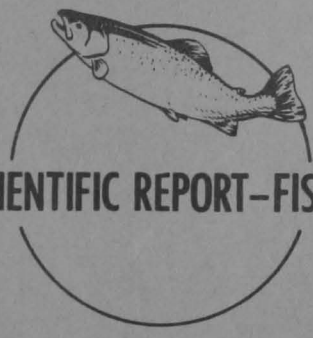
# SOURCES OF HYDROGRAPHIC AND METERIOLOGICAL DATA ON THE GREAT LAKES



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## Explanatory Note

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United States Department of the Interior, Fred A. Seaton, Secretary
Fish and Wildlife Service, Arnie J. Suoemla, Commissioner

# SOURCES OF HYDROGRAPHIC AND METERIOLOGICAL DATA ON THE GREAT LAKES

by

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# 1. INTRODUCTION

The Great Lakes are undoubtedly the most important single source of fresh water in the world. Their waters are utilized for numerous economic needs, such as commercial and sport fishing, power generation, municipal water supplies, industrial uses, recreation, and navigation. In line with this high degree of economic importance, the Great Lakes are now and will most likely continue to be the subjects of various scientific studies and investigations, carried out with a view toward obtaining a more lucid understanding of their physical, chemical, and biological properties and mechanisms. In conjunction with studies such as these, personnel of the Great Lakes Fisheries Investigations suggested that a great deal of limnological and meteorological information relative to the Lakes and their drainage basins would likely be available from agencies in both the United States and Canada. Likely sources would be those which routinely make use of raw lake water, such as municipal water treatment plants, disposal plants, power plants, and industries. In addition, it was believed that data might also be obtained from various governmental agencies--federal, state, and provincial. Parameters which might possibly be located were thought to include water temperature, turbidity, pH, color, and odor; chemical analyses of water; biological analyses, such as bacterial and plankton counts; water level; lake surface condition; and numerous meteorological observations, such as air temperature, precipitation, wind speed and direction, humidity, radiation, evaporation, pressure, visibility, and cloud cover.

Up to the present time little was known specifically about the availability, reliability, and extent of any data such as those enumerated above. In addition, data would likely be widely scattered and hence of little practical use to anyone interested in utilizing the contained information. It became apparent, therefore, that the location and evaluation of these collateral data should become the object of a special study.

It was proposed that the execution of such a study could best be accomplished in three phases, with the exact nature and extent of each succeeding phase governed by findings of the preceding one. Phase I would be designed to locate and determine the extent of records in the Great Lakes area that might be useful in developing a better understanding of Great Lakes hydrography. Phase II would involve a pilot study in a selected section of the Great Lakes in which all available data would be examined to determine the reliability and usefulness of the various types of records. In Phase III all records demonstrated by Phase II to be of value in hydrographic and biological studies of the Great Lakes would be accumulated over a period determined by the completeness and congruity of data, and recorded in a form suitable for easy reference and use in future studies.

Phase I was undertaken by the Great Lakes Research Institute during the past fiscal year, and is the subject of the present report.

Many persons, institutions, and agencies have been of immeasurable aid in the successful conduct of this investigation. The investigators wish to gratefully acknowledge the invaluable assistance and wholehearted cooperation of the following persons who, in various ways, were instrumental in helping locate sources of meteorological and hydrographic data: Dr. James W. Moffett, Chief, Great Lakes Fishery Investigations, U. S. Fish and Wildlife Service, Ann Arbor, Michigan; Dr. Stanford H. Smith,

Fishery Research Biologist, U. S. Fish and Wildlife Service, Ann Arbor, Michigan; Dr. Ralph Hile, Fishery Research Biologist, U. S. Fish and Wildlife Service, Ann Arbor, Michigan; Dr. Alfred M. Beeton, U. S. Fish and Wildlife Service, Ann Arbor, Michigan; James H. Johnson, Fishery Research Biologist, U. S. Fish and Wildlife Service, Ann Arbor, Michigan; Dr. D. V. Anderson, Ontario Department of Lands and Forests, Maple, Ontario; Dr. Albert Ballert, Great Lakes Commission, Ann Arbor, Michigan; N. H. Beamer, U. S. Geological Survey, Philadelphia, Pennsylvania; Dr. Albert E. Berry, General Manager, Ontario Water Resources Commission, Toronto, Ontario; Prof. Herbert M. Bosch, School of Public Health, University of Minnesota, Minneapolis, Minnesota; C. C. Boughner, Chief, Climatological Section, Department of Transport, Toronto, Ontario; A. V. DeLaporte, Director of Laboratories and Research, Ontario Water Resources Commission, Toronto, Ontario; Earl Devendorf, Director, Bureau of Environmental Sanitation, New York State Department of Health, Albany, New York; A. H. Eichmeier, State Climatologist, U. S. Weather Bureau, East Lansing, Michigan; N. G. Gray, Dominion Hydrographer, Department of Mines and Technical Surveys, Ottawa, Canada; J. R. Harvey, Regional Sanitary Engineer, Department of Health, Commonwealth of Pennsylvania, Meadville, Pennsylvania; J. H. Hubble, U. S. Geological Survey, Columbus, Ohio; Russell L. Johnson, Engineer in Charge, Michigan Department of Health, Escanaba, Michigan; Ray Joiner, Assistant to the Director, National Weather Records Center, U. S. Weather Bureau, Asheville, North Carolina; Lothar A. Joos, State Climatologist, U. S. Weather Bureau, Champaign, Illinois; Homer Knox, Principal Assistant Sanitary Engineer, State Department of Health, Columbus, Ohio; Robert Knutilla, U. S. Geological Survey, Escanaba, Michigan; W. T. Laidley, Chief Technical Assistant, U. S. Lake Survey Office, Detroit, Michigan; C. R. MacLean, Captain, U. S. Coast Guard, Chief, Operations Division, Ninth Coast Guard District, Cleveland, Ohio; Colin MacMillan, Marathon Paper Mills, Marathon, Ontario; Dr. O. J. Muegge, State Sanitary Engineer, State of Wisconsin Board of Health, Madison, Wisconsin; L. T. Pierce, State Climatologist, U. S. Weather Bureau, Columbus, Ohio; Dr. B. A. Poole, Director, Bureau of Environmental Sanitation, Indiana State Board of Health, Indianapolis, Indiana; H. W. Poston, Assistant Regional Engineer, U. S. Public Health Service, Chicago, Illinois; Jack Rademacher, Sanitary Engineer, U. S. Public Health Service, Chicago, Illinois; Lawrence A. Schaal, State Climatologist, U. S. Weather Bureau, Lafayette, Indiana; Cdr. E. O. Standish, Office of Chief of Naval Operations, U. S. Navy, Washington, D. C.; The State Climatologist, U. S. Weather Bureau, Albany, New York; Joseph H. Strub, Jr., State Climatologist, U. S. Weather Bureau, Minneapolis, Minnesota; J. F. J. Thomas, Head, Industrial Waters Section, Department of Mines and Technical Surveys, Ottawa, Ontario; Kenneth G. Tower, Regional Engineer, Federal Power Commission, Chicago, Illinois; T. L. Vander Velde, Chief, Section of Water Supply, Division of Engineering, Michigan Department of Health, Lansing, Michigan; Paul J. Waite, State Climatologist, U. S. Weather Bureau, Madison, Wisconsin; Fredrick H. Waring, Chief Engineer, State Department of Health, Columbus, Ohio; George Whetstone, U. S. Geological Survey, Columbus, Ohio; G. H. Wood, District Engineer, Department of Northern Affairs and National Resources, Water Resources Branch, Ottawa, Ontario; Frank L. Woodward, Director, Division of Environmental Sanitation, Minnesota Department of Health, Minneapolis, Minnesota.

The investigators are no less indebted to the various persons who were contacted at the individual agencies during the course of the study. The limitations of space do not permit listing them here, but the majority have been identified in the tabulation of sources in Table 1. To all these persons who provided essential information, and thereby contributed to the successful completion of this survey, we extend our sincere thanks.

## 2. PROCEDURE

In order to expedite the search for data sources, the study was divided into two basic parts: the hydrographic and the meteorological. This was a natural division since the bulk of the meteorological data was expected to originate at points apart from the sources of hydrographic data. However, it was known that certain agencies obtaining routine hydrographic data also obtained concomitant meteorological observations. In such cases, it became the responsibility of the personnel in the hydrographic division of the study to ascertain the necessary information relative to the meteorological observations, and to then transmit it to personnel in the meteorological division. The primary reason that many meteorological sources are different from hydrographic sources is because it was deemed necessary to obtain meteorological data not only around the periphery of the Lakes, but inland for some distance as well. The influence of the Lakes on weather conditions, and the influence of weather on the Lakes, is known to encompass an area around the Lakes as well as over the Lakes themselves. The exact limits of this "area of influence" are yet not completely determined, but for the purposes of this study have been confined to the drainage area of the Great Lakes (Fig. 7).

The first effort by project personnel to locate all pertinent sources of meteorological data within the Great Lakes basin was made by contacting the National Weather Records Center of the U. S. Weather Bureau at Asheville, North Carolina, and the Meteorological Division of the Canadian Department of Transport in Toronto, Ontario. These two agencies provided project personnel with information on meteorological data that is published. This comprised the largest source of all types of data uncovered by the project: 808 sources or 68.6 per cent of the total of 1177 sources (see Table 4, p. 133).

All other meteorological data sources ascertained by the project are comprised of unpublished, unprocessed data on file at each station or a central repository. The data are recorded by U. S. Coast Guard Stations (some of the data from a few of these are published in U. S. Weather Bureau climatological summaries), water treatment plants, industries and power plants, sewage treatment plants, paper mills, commercial and research lake vessels, and a few other sources such as university research groups, individual observers, and governmental and public service organizations.

The search for hydrographic sources was initiated by concentrating first upon the water treatment plants. Information concerning data available from such plants in the United States was obtained by contacting the head offices of the public health departments of the states bordering the Great Lakes: Illinois, Indiana, Michigan, Minnesota, Ohio, Pennsylvania, New York, and Wisconsin. In Michigan and Ohio, at least a portion of the data from these plants was found to be available from the head offices, where it is kept on file. In the other states, data are retained in the files of the individual plants, from which they may be obtained. Information on water treatment plants in Ontario was furnished by the Ontario Water Resources Commission.

Another source investigated early in the study comprised the power plants which utilize water from the Lakes. A list of all such plants on

the United States side of the Lakes was obtained from the Federal Power Commission at Chicago; this list included public utilities, industries, and municipal plants. For information on the Canadian side, the Hydro-Electric Power Commission of Ontario was contacted.

The pertinent water treatment plants and power plants were then contacted individually. In some cases personal visits were possible, but usually contact was by mail. Each potential data source not visited by project personnel was sent a letter outlining the project, its aims and purpose, and the type of cooperation sought. Included with the letter was a three-page questionnaire designed to facilitate the agency's reply. The questionnaire, which is reproduced in Figure 1, is a form on which each observation could be entered, whether hydrographic or meteorological. Space for pertinent information concerning the observation was also provided. It will be noted that a good deal of the information requested on the questionnaire, i.e., time of observation, type of instrument or process, instrument sensing element, and name of observer, are items which were not required under the terms of the study, but were considered pertinent and hence ascertained whenever possible. Information relating to these items was not determined for all cooperating agencies, and is not included in this report. That which is known is on file with the Great Lakes Research Institute.

It should be pointed out here that rigid adherence to a strict policy in contacting and obtaining information from the various agencies was not possible; that is, in some cases the use of questionnaires was impractical, in others they served to collect information that otherwise would likely have been overlooked.

The water treatment plants and power plants constituted the bulk of the hydrographic data sources from which any great variety of data were available. However, a number of additional agencies contacted also were able to make significant contributions. Specific reference to these agencies is made in section 3 of this report.

During the course of the investigation, items of pertinent literature appeared from time to time, and have been included in the Bibliography (Appendix I). Also included in the Bibliography are selected references from a bibliography of the Great Lakes (Van Oosten, John. Great Lakes Fauna, Flora, and their Environment. A Bibliography. Great Lakes Commission, Ann Arbor, Mich., 1957). Selection of these references was based upon applicability to the interest area of the project.

Contained within Van Oosten's bibliography are 138 papers from Lake Erie on subjects within the interest area of this project, 57 from Lake Michigan, 22 from Lake Superior, 19 from Lake Ontario, 13 from Lake Huron, and 42 pertinent to all the Great Lakes. Of these, there are certain papers which cover comparable subjects at different times and which have promise of providing direct material upon possible changes in the Great Lakes.

Figure 1

UNIVERSITY OF MICHIGAN
GREAT LAKES RESEARCH INSTITUTE
U. S. Dept. of Interior - Great Lakes Collateral Data

QUESTIONNAIRE ON METEOROLOGICAL AND HYDROGRAPHIC RECORDS

Organization_____ Address_____ Date_____

| Parameter Measured | Time of Observation | Period of Record | Type of Instrument or Process | Instrument Sensing Element | | Disposition of Data | Name of Observer | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Exposure | Location | | | |
| Air temperature | | | | | | | | |
| extremes | | | | | | | | |
| Water temperature | | | | | | | | |
| extremes | | | | | | | | |
| ice formation | | | | | | | | |
| ice dissipation | | | | | | | | |
| | | | | | | | | |

Figure 1 (cont.)

| Parameter Measured | Time of Observation | Period of Record | Type of Instrument or Process | Instrument Sensing Element | | Disposition of Data | Name of Observer | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Exposure | Location | | | |
| Precipitation | | | | | | | | |
| liquid | | | | | | | | |
| solid | | | | | | | | |
| solid cover | | | | | | | | |
| extremes | | | | | | | | |
| Wind speed | | | | | | | | |
| instantaneous | | | | | | | | |
| total movement | | | | | | | | |
| extremes | | | | | | | | |
| Wind direction | | | | | | | | |
| Humidity | | | | | | | | |
| dew point | | | | | | | | |
| Solar radiation | | | | | | | | |
| Evaporation | | | | | | | | |

Figure 1 (cont.)

| Parameter Measured | Time of Observation | Period of Record | Type of Instrument or Process | Instrument Sensing Element | | Disposition of Data | Name of Observer | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Exposure | Location | | | |
| Pressure | | | | | | | | |
| Visibility | | | | | | | | |
| Cloud cover | | | | | | | | |
| types | | | | | | | | |
| heights | | | | | | | | |
| | | | | | | | | |
| Other (specify) | | | | | | | | |
| Chemical Analyses | | | | | | | | |
| Total alkalinity | | | | | | | | |
| Total hardness | | | | | | | | |
| pH | | | | | | | | |
| Other (specify) | | | | | | | | |
| | | | | | | | | |

Figure 1 (cont.)

| Parameter Measured | Time of Observation | Period of Record | Type of Instrument or Process | Instrument Sensing Element | | Disposition of Data | Name of Observer | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | | Exposure | Location | | | |
| Physical Analyses | | | | | | | | |
| Turbidity | | | | | | | | |
| Color | | | | | | | | |
| Odor | | | | | | | | |
| Other (specify) | | | | | | | | |
| Biological Analyses | | | | | | | | |
| Standard plate count | | | | | | | | |
| Coliform | | | | | | | | |
| Plankton | | | | | | | | |
| Water level | | | | | | | | |
| Water currents | | | | | | | | |
| Wave heights | | | | | | | | |
| Other (specify) | | | | | | | | |

The bibliography appended to the report does not represent, and is not intended to represent, an exhaustive compilation of all literature pertinent to hydrographic and meteorological aspects of the Great Lakes. It is included for the convenience of the reader, as a compilation of pertinent literature that has come to the attention of the investigators during the course of this study.

## 3. COMPILATION OF INFORMATION

Most of the information relating to sources of data is of such nature that it can be readily tabulated. In Table 1 are listed sources of hydrographic and/or meteorological data that are located on the periphery of the Lakes. All meteorological stations located no farther than two miles from the lake shore are included in this table. Entries have been listed geographically, proceeding counterclockwise around each Lake, as noted in the table.

In Table 2 are listed all those sources of meteorological data occurring within the Great Lakes drainage basin but located more than two miles from the nearest Great Lake. Geographical listing by state or province is shown. It is not feasible in Table 2 to list each station geographically, hence items have been entered alphabetically by state or province. Individual stations may be located by use of the included coordinates.

To facilitate geographical orientation, a series of six orientation plates have been included, five within Table 1 and one preceding Table 2. Figures 2 through 6 depict the five Lakes: Superior, Michigan, Huron, Erie, and Ontario. The St. Marys River appears in Figure 2, and the St. Clair River, Lake St. Clair, Detroit River, and Niagara River in Figure 6. Figure 7 shows the entire area of the Great Lakes drainage basin. All meteorological sources within this basin that have been ascertained by the present research are listed, partly in Table 1 and in all of Table 2; all hydrographic data sources on the periphery of the Lakes are listed as part of Table 1. In addition, station circles are shown in Figure 7 outside the drainage basin periphery. These are meteorological stations that are in close proximity to the basin periphery. They are listed as part of the present research since there are frequent occurrences where suitable data sources close to the periphery, but within the basin, are not available.

Table 3 contains all those sources which, for specified reasons, had no usable data, or so few that they were considered unsuited to the purposes of this study.

## Table 1. Onshore Data Resources

### A. Pagination

The large volume of information pertinent to each data source has necessitated the use of two pages for each source. These appear on facing pages which are numbered consecutively. The information is presented in eight groups (five Lakes, three connecting waterways) beginning with Lake Superior and proceeding eastward. Data sources are listed geographically within each group beginning at an arbitrary point and proceeding counterclockwise around each Lake or through each of the waterways.

Each data source location is numbered serially within its group, the number appearing in the first column of each facing page. Numbers identify the location on the second page where designation by name has been omitted.

### B. Agency and Contact

In column 3, Agency refers to the particular organization which obtains data at the specific location designated in column 2; Contact refers to the person within the organization who should be consulted in regard to any data recorded.

In the tabulations a contact is not given for stations whose records are available from some central compilation office. Agencies included in this category are as follows:

1. U. S. Weather Bureau First Order, Second Order and Cooperative stations, U. S. Naval Air Stations, and U. S. Air Force Bases. Data from these agencies are filed with and obtainable from the National Weather Records Center, Asheville, North Carolina.

2. Canadian Meteorological Division Class I, II, III, and c stations. Data from these agencies are filed with and obtainable from the Climatological Section, Meteorological Division, Department of Transport, Toronto, Ontario.

3. U. S. Lake Survey water level records. Data are obtainable from the U. S. Lake Survey Office, 630 Federal Building, Detroit 26, Michigan.

4. Canada Hydrographic Service water level records. Data are obtainable from the Dominion Hydrographer, Canadian Hydrographic Service, Canada Department of Mines and Technical Surveys, Ottawa, Ontario.

5. U. S. Coast Guard installations. With respect to collection of

meteorological and lake state data, Coast Guard installations are divided into two categories: those making regular reports every six hours to the U. S. Weather Bureau, and those which take four-hourly observations; most of the latter are retained by the Coast Guard.

Data from the former category are obtainable from the National Weather Records Center at Asheville, and from the latter are obtainable from U. S. Coast Guard Headquarters, Washington, D. C. Coast Guard station personnel retain copies of the meteorological logs for a period of twelve months; hence, data for any immediately preceding year may be obtained directly from the station in question. In Table 1, the six-hourly and four-hourly stations are so designated.

6. Naval Air Stations; U. S. Air Force Bases. Data are filed with and obtainable from the National Weather Records Center at Asheville.

7. Michigan municipal water treatment plants. All plant records are filed with the Michigan Department of Health. Information on Upper Peninsula plants may be obtained from the Michigan Department of Health, 19th Street and 13th Avenue North, Escanaba, Michigan. Information on Lower Peninsula plants is obtainable from the Michigan Department of Health, Division of Engineering, Lansing 4, Michigan.

In Column 3 of Table 1, contacts for Michigan water treatment plants are indicated by either Escanaba or Lansing, to specify the data location.

## C. Modification of Contact Procedure

In regard to municipal water treatment plants located in Ohio, a modified contact procedure is recommended. Chemical data obtained at the plants are filed with the Ohio State Department of Health at Columbus, but some physical data may be retained at plants and may be obtained directly from the individual plant operators. Initial inquiries should be addressed to the Chief Engineer, State Department of Health, 301 Ohio Departments Building, Columbus, Ohio.

In Column 3 of Table 1, contacts for Ohio water treatment plants will indicate the name of the superintendent of the plant, followed by Columbus.

## D. Period of Record

The number of years over which records are available has been ascertained for a large number of the located data sources. Under the period of record for a particular agency, a specific date followed by a dash indicates that data are available from that year to the present. Records pertaining to U. S. Weather Bureau First and Second Order and Cooperative stations indicate the amount of data available in terms of total years. These are not necessarily consecutive years; hence, ascertainment of any missing record is accomplished only by examination of the complete history of the station in question. Accordingly, periods of record for U. S. Weather Bureau stations are entered in Table 1 as total years of data, and specific dates are not given.

An index and period of record listing for CMD stations in Ontario were made available to the project subsequent to the publication date. The index has been appended to this report as Appendix II; however, since the data had already been summarized for this report, Tables 1-5 and Figures 2-9 have not been changed to fit the new information in Appendix II. Footnotes have been added at applicable points to Tables 1 and 2 to call attention to this fact.

Information of the lengths of records of U. S. Coast Guard installations is not readily available, but may be obtained for four-hourly stations from the Coast Guard Headquarters at Washington, D. C., and for six-hourly stations from the National Weather Records Center at Asheville.

Water level records obtained from gaugings of the U. S. Lake Survey and Canadian Hydrographic Service are available back to 1860 for each Lake and for connecting waterways. The single exception is the St. Clair River, for which records are available back to 1898.

The water level records are regularly published as monthly means, in both tabular and hydrograph form, for each Lake taken as a unit. Records for individual gauges are available only upon specific request. Periods of record vary among individual gauges, and hence the date 1860 does not necessarily refer to any particular gauge, but rather to average values for each Lake.

• United States water level data are available from the U. S. Lake Survey, U. S. Army Corps of Engineers, 630 Federal Building, Detroit 26, Michigan.

Canadian water level data are available from the Dominion Hydrographer, Canadian Hydrographic Service, Canada Department of Mines and Technical Surveys, Ottawa, Ontario.

, The periods of record for some sources may vary internally, that is, different observations have been carried out for varying lengths of time. In such cases the notation "variable--see data" has been entered in the Period of Record column, and the appropriate dates have been entered in the individual parameter columns. In some of these cases, the period of record is known for some data, but not for others. In this event, observations known to be taken, but for which the period of record is unknown, are indicated by "(X)".

The symbol "X" (not enclosed by parentheses) is used in two instances, 1) whenever it is known that the period of record is homogeneous for the observations taken; that is, whenever there is a single known period of record which embraces all the observations made at the particular station, and 2) whenever it is known that observations are made at the station, but the period of record is not known for any of them.

Unmarked spaces in Table 1 indicate that, so far as it is known to the investigators, no observations are made of that parameter.

## E. Data

Many meteorological data are obtained by U. S. Weather Bureau First and Second Order stations, Canadian Meteorological Division Class I stations, U. S. Coast Guard installations, U. S. Naval Air Stations, and U. S. Air Force Bases. The distinctions between U. S. Coast Guard Stations, as far as their meteorological observations are concerned, are made on page 15. U. S. Naval Air Stations and Air Force Bases are equipped and staffed to record the data called for by WBAN (Weather Bureau-Air Force-Navy) Form 10; hence, for the purposes of this report, they are placed in the same classification as U. S. Weather Bureau First and Second Order stations.

The distinctions between U. S. Weather Bureau First and Second Order stations are as follows: First Order stations are staffed by full-time Civil Service personnel. The stations may or may not operate 24 hours per day, they may or may not be equipped with full instrumentation, hence they may or may not take special or synoptic observations. Those First Order stations that do not operate at all times or take full observations are functionally important in the work of the Bureau; there are only one or two included in this report. Second Order stations are staffed by certificated personnel to take full synoptic weather observations; they may or may not be Civil Service personnel. Examples of Second Order stations are U. S. Coast Guard Stations and Civil Aeronautics Administration communications stations at airports otherwise without Weather Bureau personnel.

A substation of the U. S. Weather Bureau is staffed by a volunteer individual or organization to make at least one observation per day. He is furnished with equipment to record precipitation and/or temperature extremes; he may or may not have equipment for measuring additional weather elements. This type of data source is referred to in this report as a USWB Cooperative.

The Canadian Meteorological Division Class II station also fits this description. Canadian Class III stations are equipped only with a rain gauge; Canadian c stations are equipped only with a sunshine recorder and/or an anemometer. These stations are referred to in this report, respectively, as CMD I, CMD II, CMD III, and CMD c.

To avoid lengthy repetition of citing the data in the tabulations that are recorded by USWB First and Second Order stations, CMD Class I stations, and U. S. Coast Guard, Naval Air, and Air Force stations, the parameters taken by each group are specified below. In Table I, a page and paragraph reference is given in the Other column under Meteorological Data, referring to the following parameters measured at each station:

1. U. S. Weather Bureau First and Second Order stations, U. S. Naval Air Stations, U. S. Air Force Bases, and Canadian Meteorological Division Class I stations:

| | |
|---|---|
| ceiling height | wind direction |
| sky condition | wind speed |
| visibility | air temperature |
| present weather | cloud types* |
| obstructions to vision | precipitation |
| sea level pressure | barometric tendency |
| dew point | unusual phenomena |

* Canadian Class I stations report cloud types in tenths of total sky covered; many record sunshine.

2. U. S. Coast Guard installations

a. Six-hourly reporting stations (data transmitted to U. S. Weather Bureau every six hours):

| | |
|---|---|
| sky cover | ice, kind |
| wind direction | ice thickness |
| wind speed | ice, effect on navigation |
| visibility | ice, change |
| present weather | air temperature |
| obstructions to vision | temperature, wet bulb |
| past weather | water temperature |
| waves, direction from | sea level pressure |
| wave period | unusual phenomena |
| wave height | |

b. Four-hourly reporting stations (data retained at Coast Guard Headquarters, Washington, D. C.):

| | |
|---|---|
| wind direction | present weather |
| wind speed | cloud types |
| sea level pressure | cloud direction |
| air temperature | cloud speed |
| humidity | lake state |
| water temperature | |

F. Second Page

The "second pages" of Table 1 are pertinent only to those installations which obtain hydrographic data. However, in order to maintain proper continuity, the serial numbers of all data sources, both meteorological and hydrographic, are entered on this page.

The second column indicates the position in the Lake of the raw water intake. The first number refers to the distance (in feet) that the intake is located from the shore. The second number, enclosed in parentheses, indicates the depth of the intake below the surface of the water in feet. This indicated depth must be taken as only an approximate figure in most cases, due to the difficulty in ascertaining the actual reference level used in computing the depth. It is usually the depth below mean lake level.

## G. U. S. Public Health Service Special Study

Certain water treatment plants on Lake Michigan are of particular interest in connection with a special study presently being conducted by the U. S. Public Health Service through its Chicago (Region V) offices. This study was prompted by the difficulty of many Lake Michigan plants to obtain effective water filtration, due primarily to intense seasonal plankton blooms. A portion of this study involves the identification of water quality conditions which contribute to the difficulty of obtaining proper filtration runs. In this connection, efforts are being made to standardize observation techniques utilized in the determination of chemical, physical, and biological characteristics of the raw water taken in by the various plants.

The study is at present designed to extend through, and possibly beyond, 1958. During the period of the study, all participating plants will make the following observations, using a standard methodology prescribed by the U. S. Public Health Service: water temperature, air temperature, weather conditions, wind direction, wind speed, lake surface current direction, turbidity, pH, alkalinity, chlorine demand, and chlorine residual. Many of the cooperating plants obtained these observations prior to the initiation of the special study; a few expanded their operations to include them at least through the present year.

Water treatment plants are involved at the following locations: Green Bay, Wisconsin; Sheboygan, Wisconsin; Milwaukee, Wisconsin; Waukegan, Illinois; Evanston, Illinois; Chicago (South District Filtration Plant), Illinois; Gary-Hobart, Indiana; Michigan City, Indiana; Benton Harbor, Michigan; Holland, Michigan; Grand Rapids, Michigan; and Muskegon, Michigan. These plants are identified in Table 1 in the remarks column by the notation USPH cooperator.

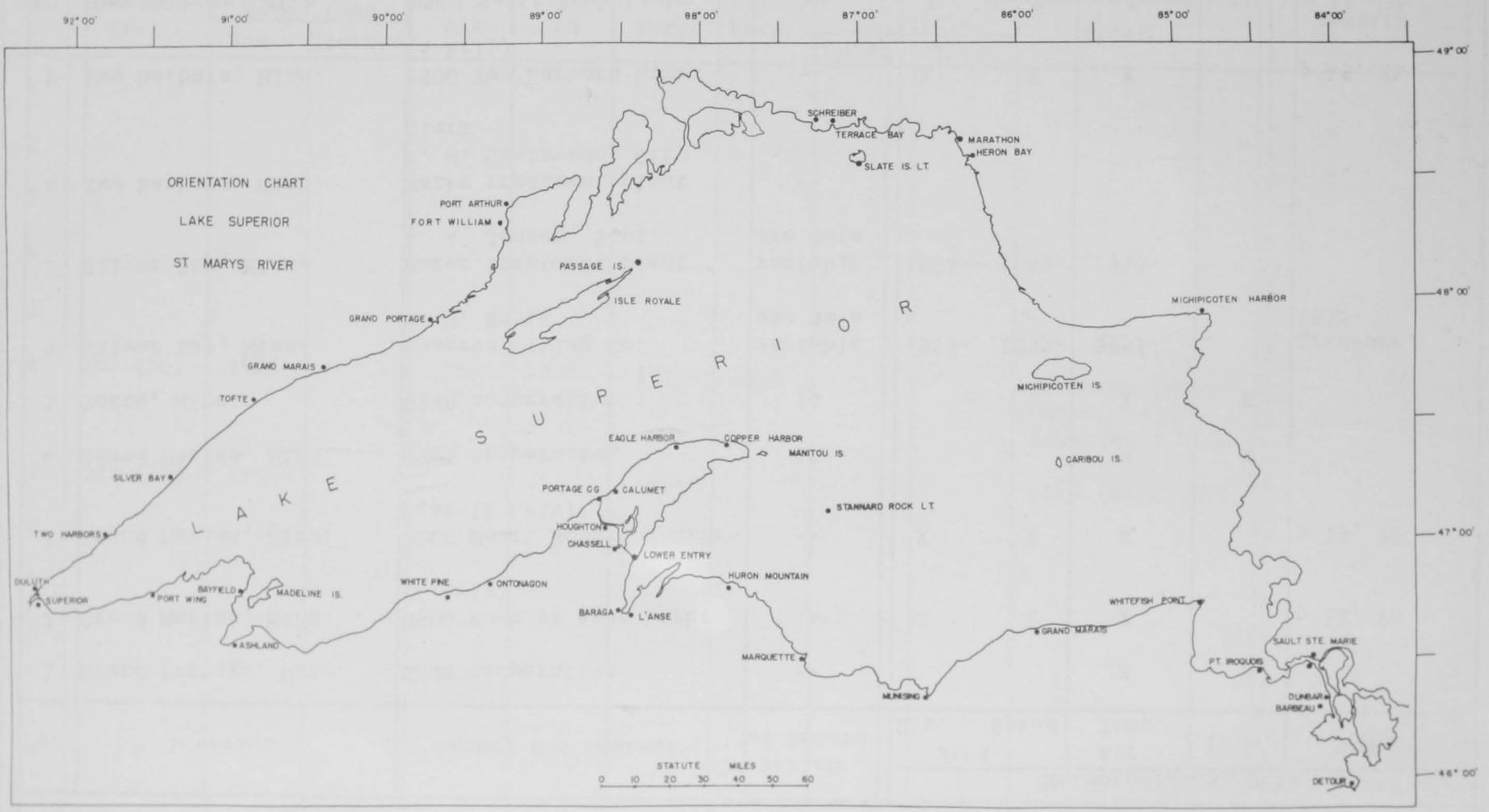


Figure 2. Orientation Chart, Lake Superior and St. Marys River

Table 1. Onshore Data Sources

LAKE SUPERIOR (beginning at international boundary and proceeding counterclockwise)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Grand Portage, Minn. | USWB cooperative | -- | | | X | X | |
| 2 | Grand Marias, Minn. | USCG Rock of Ages Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 3 | Grand Marias, Minn. | USCG North Superior Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2b |
| 4 | Grand Marias, Minn. | USWB cooperative | 50 | | | X | X | |
| 5 | Tofte, Minn. | USWB cooperative | 16 | | | X | X | |
| 6 | Silver Bay, Minn. | Reserve Mining Co. E. W. Davis | variable see data | 1955- | 1955- | 1955- | | pressure, 1955- |
| 7 | Silver Bay, Minn. | Water treatment plant A. A Jensen, Supt. | variable see data | 1955- | 1955- | 1955- | | |
| 8 | Two Harbors, Minn. | Water treatment plant R. W. Gustavson, City Clerk | -- | | | | | |
| 9 | Two Harbors, Minn. | USCG Two Harbors Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 10 | Two Harbors, Minn. | USCG Split Rock Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | 680 (50) | 1955- | | 1955- | 1955- | 1956- | 1955- | | | plankton (once/ year), 1956- lake level 1954 | |
| 7 | 525 (52) | 1954- | | | | 1954- | | | | lake level 1955 | |
| 8 | -- | (X) | | | | (X) | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 11 | Two Harbors, Minn. | USWB cooperative | 65 | | | X | X | |
| 12 | Two Harbors, Minn. | U. S. Lake Survey | -- | | | | | |
| 13 | Duluth, Minn. | Water treatment plant A. V. Biele, Chemist | 1948- | | | | | |
| 14 | Duluth, Minn. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 15 | Duluth, Minn. | USCG Superior Entry Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 16 | Duluth, Minn. | USWB First Order | 80 | X | X | X | X | p 15, 1 |
| 17 | Duluth, Minn. | Minnesota Power & Light Co. Hubbell Carpenter, Vice Pres. & Ch. Engr. | -- | | | X | | weather |
| 18 | Duluth, Minn. | U. S. Lake Survey | -- | | | | | |
| 19 | Superior, Wisc. | Superior Water, Light, and Power Co. W. R. Olsen, Ch. Engr. | 1942- | | | | | |
| 20 | Superior, Wisc. | USWB cooperative | 50 | | | X | X | |
| 21 | Port Wing, Wisc. | USWB cooperative | 12 | | | X | X | |
| 22 | Bayfield, Wisc. | USCG Devils Island Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | lake level (cont.) | |
| 13 | 1500 (65) | X | | X | X | X | X | | | $NH_3$, Diss. $O_2$, Total Fe, BOD, Plankton (see remarks) | Plankton studies during 1939, 40, 41 |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | lake level (cont.) | |
| 19 | slip at shoreline, 12 ft deep | X | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 23 | Bayfield, Wisc. | USCG Outer Island Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 24 | Bayfield, Wisc. | USCG Mooring (4 hrly) | -- | X | X | X | | p 15, 2b |
| 25 | Bayfield, Wisc. | USCG La Pointe Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 26 | Bayfield, Wisc. | USWB cooperative | 38 | | | X | X | |
| 27 | Madeline Is., Wisc. | USWB cooperative | 14 | | | X | X | |
| 28 | Ashland, Wisc. | USWB cooperative | variable see data | | | 55 | 58 | |
| 29 | Ashland, Wisc. | Water treatment plant J. A. Snow, Mgr. | "many years" | (X) | | | | |
| 30 | Ashland, Wisc. | Lake Superior District Power Co., K. S. Austin, Ch. Engr. | 1949- | | | | | |
| 31 | Ashland, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 32 | White Pine, Mich. | Water Treatment Plant (White Pine Copper Co.) (Escanaba) | variable see data | 1956- | | 1955- | | cloud cover, 1952 |
| 33 | Ontonagan, Mich. | USWB cooperative | 1916- | | | | X | |
| 34 | Ontonagan, Mich. | USWB cooperative | 38 | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | 2000 (22) | (X) | | | | | | (X) | | | |
| 30 | slip on W. side of plant | (X) | | | | | | | | | intake water artificially heated in winter |
| 31 | | | | | | | | | | | |
| 32 | -- (30) | 1955- | | 1954- | 1954- | 1952- | 1954- | 1952- | | color, 1952<br>fluoride, 1955 | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 23 | Bayfield, Wisc. | USCG Outer Island Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 24 | Bayfield, Wisc. | USCG Mooring (4 hrly) | -- | X | X | X | | p 15, 2b |
| 25 | Bayfield, Wisc. | USCG La Pointe Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 26 | Bayfield, Wisc. | USWB cooperative | 38 | | | X | X | |
| 27 | Madeline Is., Wisc. | USWB cooperative | 14 | | | X | X | |
| 28 | Ashland, Wisc. | USWB cooperative | variable see data | | | 55 | 58 | |
| 29 | Ashland, Wisc. | Water treatment plant J. A. Snow, Mgr. | "many years" | (X) | | | | |
| 30 | Ashland, Wisc. | Lake Superior District Power Co., K. S. Austin, Ch. Engr. | 1949- | | | | | |
| 31 | Ashland, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 32 | White Pine, Mich. | Water Treatment Plant (White Pine Copper Co.) (Escanaba) | variable see data | 1956- | | 1955- | | cloud cover, 1952 |
| 33 | Ontonagan, Mich. | USWB cooperative | 1916- | | | | X | |
| 34 | Ontonagan, Mich. | USWB cooperative | 38 | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | 2000 (22) | (X) | | | | | | (X) | | | |
| 30 | slip on W. side of plant | (X) | | | | | | | | | intake water artificially heated in winter |
| 31 | | | | | | | | | | | |
| 32 | -- (30) | 1955- | | 1954- | 1954- | 1952- | 1954- | 1952- | | color, 1952<br>fluoride, 1955 | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 35 | Portage, Mich. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 36 | Houghton-Keweenaw, Mich. | USCG Houghton-Keweenaw Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 37 | Calumet, Mich. | Calumet & Heckla water treatment plant (Escanaba) | variable see data | 1955- | 1955- | | | |
| 38 | Calumet, Mich. | Tamarack water treatment plant (Escanaba) | 1955- | X | X | | | |
| 39 | Eagle Harbor, Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 40 | Copper Harbor, Mich. | USWB cooperative | 16 | | | | X | |
| 41 | Manitou Island, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 42 | Keweenaw (Chassell), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 43 | Lower Entry, Mich. | U. S. Lake Survey | -- | | | | | |
| 44 | Baraga, Mich. | USWB cooperative | 16 | | | | X | |
| 45 | Baraga, Mich. | Water treatment plant (Escanaba) | 1955- | X | X | | | |
| 46 | L'Anse, Mich. | Water treatment plant (Escanaba) | variable see data | 1950- | | | | |
| 47 | L'Anse, Mich. | USWB cooperative | 20 | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 35 | | | | | | | | | | | |
| 36 | | | | | | | | | | | |
| 37 | 900 (12) | 1955- | | | | 1956- | | 1955- | | | weekly temps 1950-; weekly coli. 1950- |
| 38 | 350 (16) | X | | | | X | | X | | | weekly turbidity and coliform 1950- |
| 39 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 41 | | | | | | | | | | | |
| 42 | | | | | | | | | | | |
| 43 | | | | | | | | | | lake level (tri-daily) | |
| 44 | | | | | | | | | | | |
| 45 | --(16) | X | | | | | | X | | | hourly temps, but unreliable thermometer |
| 46 | 1000 (48) | 1954- | | | 1956- | 1956- | | 1955- | | color, 1956- | |
| 47 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 48 | Huron Mountain, Mich. | USWB cooperative | -- | | | | X | |
| 49 | Stannard Rock, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 50 | Marquette, Mich. | USWB First Order | 87 | X | X | X | X | p 15, 1 |
| 51 | Marquette, Mich. | USCG Passage Island Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 52 | Marquette, Mich. | U.S. Lake Survey | -- | | | | | |
| 53 | Marquette, Mich. | Northern Mich. Coll. of Ed., Geography Dept. | -- | | | X | X | pressure, rel. hum., dew pt. |
| 54 | Marquette, Mich. | Water treatment plant (Escanaba) | variable see data | | | 1953- | | |
| 55 | Marquette, Mich. | Cliffs Dow Chemical R. W Jenner, Vice Pres. and Gen. Mgr. | 1957- | | | | | |
| 56 | Marquette, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 57 | Munising, Mich. | USWB cooperative | 62 | | | X | X | |
| 58 | Munising, Mich. | Water treatment plant (Escanaba) | 1955- | X | | X | | |
| 59 | Munising, Mich. | Munising Paper Co. P. A. Haag, Plant Engr. | | | | | | |
| 60 | Munising, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft.) | Hydrographic Data | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | Remarks |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 48 | | | | | | | | | | | |
| 49 | | | | | | | | | | | |
| 50 | | | | | | | | | | | |
| 51 | | | | | | | | | | | |
| 52 | | | | | | | | | | lake level (cont.) | |
| 53 | | | | | | | | | | | |
| 54 | 1000 (68) | 1953- | | | 1955- | 1953- | | 1951- | | | recording thermograph |
| 55 | 700 (20) | X | | | | | | | | | |
| 56 | | | | | | | | | | | |
| 57 | | | | | | | | | | | |
| 58 | -- (50) | X | | | | | | X | | | |
| 59 | 450 (40) | X | | | | | | | | | |
| 60 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 61 | Au Sable (Grand Marais), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 62 | Grand Marais, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 63 | Whitefish Point, Mich. | USWB cooperative | variable see data | | | 49 | 51 | |
| 64 | Whitefish Point, Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 65 | Caribou Island, Ont. | Canada Dept. of Transport (lighthouse) CMD II | variable see data | 16 | 16 | 53 | 53 | sunshine 14, weather |
| 66 | Michipicoten Harbor, Ont. | Canadian Hydrographic Service | -- | | | | | |
| 67 | Heron Bay, Ont. | CMD II | ** | | | X | X | |
| 68 | Marathon, Ont. | CMD II | ** | | | X | X | |
| 69 | Marathon, Ont. | Marathon Paper Co. Colin MacMillan | 1947- | | | X | solid cover only | pressure, 1954 |
| 70 | Slate Island, Ont. | Canada Dept. of Transport (lighthouse) | -- | X | X | | | weather |
| 71 | Terrace Bay, Ont. | Kimberly-Clark Paper Co. J. Wade, Tech. Supt. | variable see data | | | | | |
| 72 | Schreiber, Ont. | CMD II | 1909- | | | 49 | 49 | (cloud cover) |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 61 | | | | | | | | | | | |
| 62 | | | | | | | | | | | |
| 63 | | | | | | | | | | | |
| 64 | | | | | | | | | | | |
| 65 | | | | | | | | | | | |
| 66 | | | | | | | | | | | |
| 67 | | | | | | | | | | | |
| 68 | | | | | | | | | | | |
| 69 | 1600 (30) | X hourly | | | X 1/mo. | X 1/mo. | X 1/mo. | X 1/wk. | | Ca,Mg,Fe,Cl,$SO_4$, 1/mo. | chem data available from J.F.J. Thomas, Head, Ind. Waters Sec., Ind. Mins. Div., Dept. Mines & Tech. Surveys, Ottawa, Ont. |
| 70 | | | | | | | | | | | |
| 71 | 1600 (34) | 1948- | | 55-56 | | | | | | plankton, 1955 | |
| 72 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 73 | Port Arthur, Ont. | Water treatment plant, Public Utilities Comm., E. A. Vigars, Mgr. | 1938- | X | | X | | date of ice formation; weather |
| 74 | Port Arthur, Ont. | Canadian Hydrographic Service | -- | | | | | |
| 75 | Fort William, Ont. | CMD I | ** | X | X | X | X | p 15, 1 |
| 76 | Isle Royale, Mich. | Mott Is. (USWB cooperative | 18 | | | X | X | |
| 77 | Isle Royale, Mich. | Washington Harbor (USWB cooperative) | 20 | | | X | X | |
| 78 | Passage Island, Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |

** See Appendix II, p. 160.

| No. | Intake location (ft.) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 73 | 2400 (25) | X | | | | | | | | complete chemical analysis of raw water made July-August, 1950 | |
| 74 | | | | | | | | | | water level, wave height | |
| 75 | | | | | | | | | | | |
| 76 | | | | | | | | | | | |
| 77 | | | | | | | | | | | |
| 78 | | | | | | | | | | | |

ST. MARYS RIVER

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Sault Ste. Marie, Mich. | Water treatment plant (Escanaba) | variable see data | 1955- | 1955- | | | (ice thickness) |
| 2 | Sault Ste. Marie, Mich. | USWB First Order | 70 | X | X | X | X | p 15, 1 |
| 3 | Sault Ste. Marie, Mich. | USCG Lansing Shoal Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 4 | Sault Ste. Marie, Mich. | U. S. Lake Survey | -- | | | | | |
| 5 | Sault Ste. Marie, Ont. | CMD II | ** | | | X | X | |
| 6 | Sault Ste. Marie, Ont. | CMD II (Insectary) | ** | | | X | X | |
| 7 | Sault Ste. Marie, Ont. | Canadian Hydrographic Service | -- | | | | | |
| 8 | Point Iroquois (Brimley), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 9 | Point Iroquois, Mich. | U. S. Lake Survey | -- | | | | | |
| 10 | Little Rapids Cut (Sault Ste. Marie), Mich. | USCG Light Attendant (4 hrly) | -- | X | X | X | | p 15, 2b |
| 11 | Middle Neebish Cut (Barbeau), Mich. | USCG Light Attendant (4 hrly) | -- | X | X | X | | p 15, 2b |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | 1300 (42) | (X) | | | | 1950- | | 1950- | | | coli. on daily basis only since 1957 |
| 2 | | | | | | | | | | | period of record not entirely ascertained |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | water level (cont.) | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | water level (cont.) | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | water level (cont.) | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 12 | Dunbar, Mich. | USWB cooperative | 16 | | | X | X | |
| 13 | Detour, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 14 | Detour, Mich. | USCG Light Attendant (4 hrly) | -- | X | X | X | | p 15, 2b |
| 15 | Detour, Mich. | USWB cooperative | 28 | | | | X | |
| 16 | Detour, Mich. | U. S. Lake Survey | -- | | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | water level (cont.) | |

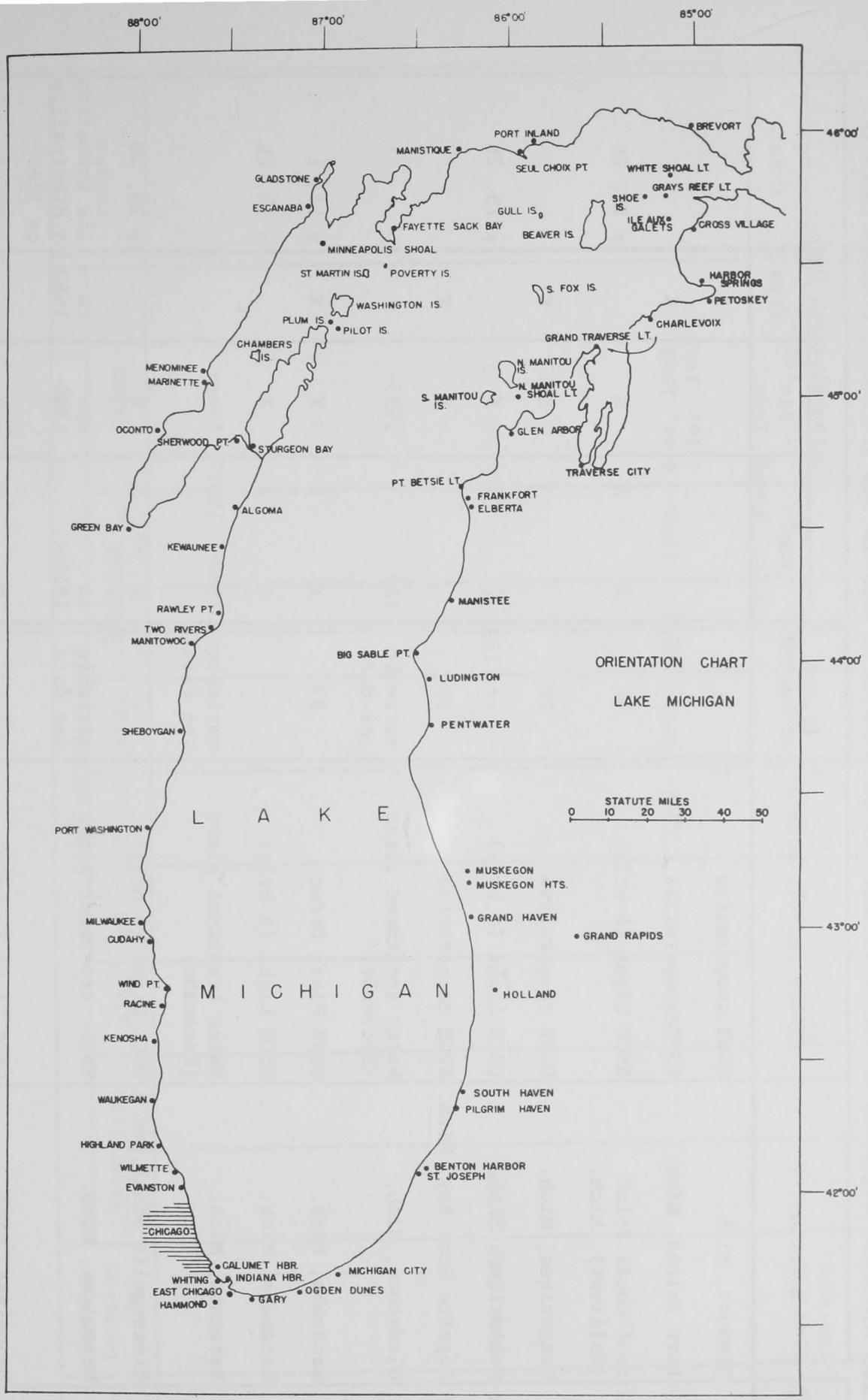


Figure 3. Orientation Chart, Lake Michigan

LAKE MICHIGAN (beginning on the north shore at the Straits of Mackinac and proceeding counterclockwise)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Brevort, Mich. | USWB cooperative | 5 | | | | X | |
| 2 | Port Inland, Mich. | USWB cooperative | 5 | | | | X | |
| 3 | Seul Choix Point (Gulliver), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 4 | Manistique, Mich. | USWB cooperative | 22 | | | X | X | |
| 5 | Manistique, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 6 | Fayette Sack Bay, Mich. | USWB cooperative | 38 | | | X | X | |
| 7 | Gladstone, Mich. | Water treatment plant (Escanaba) | variable see data | (X) | | 1935- | | |
| 8 | Escanaba, Mich. | USWB First Order | 87 | X | X | X | X | p 15, 1 |
| 9 | Escanaba, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 10 | Escanaba, Mich. | Water treatment plant (Escanaba) | variable see data | 1953- | 1957- | 1946- | | |
| 11 | Minneapolis Shoal, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 12 | Menominee, Mich. | Water treatment plant | variable see data | ca 1880— | | ca 1880- | ca 1880- | ice formation & dissipation ca 1880- |
| 13 | Menominee, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | 1500 (35) | 1955- | | | | | | 1954- | | color, 1954- | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | -- (--) | 1953- | | 1953- | 1953- | 1954- | 1953- | 1948- | 1948- | odor, 1948-; color, 1948- | |
| 11 | | | | | | | | | | | |
| 12 | conflicting info. | 1945- | | 1951- | 1945- | 1945- | (X) | 1945- | 1945- | color, 1945- | |
| 13 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 14 | Marinette, Wisc. | Water treatment plant | -- | | | | | |
| 15 | Marinette, Wisc. | USWB cooperative | 40 | | | X | X | |
| 16 | Oconto, Wisc. | USWB cooperative | variable see data | | | 69 | 48 | |
| 17 | Green Bay, Wisc. | Water treatment plant A. Marx, Chemist | 1957- | X | X | X | | weather |
| 18 | Green Bay, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 19 | Green Bay, Wisc. | USCG Light Attendant (4 hrly) | -- | X | X | X | | p 15, 2b |
| 20 | Green Bay, Wisc. | U. S. Lake Survey | -- | | | | | |
| 21 | Sherwood Point (Sturgeon Bay), Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 22 | Chambers Island (Fish Creek), Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 23 | Plum Island, Wisc. (c/o Washington Is.) | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 24 | Pilot Island (Washington Is.), Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 25 | St. Martin Island (Washington Is.), Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | 6000 (47) | X | | X | X | X | X | X | X | | intake in L. Michigan approx. 3 mi N of Kewaunee; USPH cooperator |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | lake level (cont.) | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 26 | Poverty Is. (Washington Is.), Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 27 | Washington Is., Wisc. | USWB cooperative | 14 | | | X | X | |
| 28 | Sturgeon Bay, Wisc. | USWB cooperative | variable see data | | | 61 | 54 | |
| 29 | Sturgeon Bay, Wisc. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 30 | Sturgeon Bay, Wisc. | U. S. Lake Survey | -- | | | | | |
| 31 | Algoma, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 32 | Kewaunee, Wisc. | USWB cooperative | 46 | | | X | X | |
| 33 | Kewaunee, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 34 | Rawley Point (Two Rivers), Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 35 | Two Rivers, Wisc. | Water treatment plant (USWB cooperative) | variable see data | | | 8 | 8 | |
| 36 | Two Rivers, Wisc. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 37 | Manitowoc, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 38 | Manitowoc, Wisc. | USWB cooperative | variable see data | | | 75 | 96 | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | lake level (cont.) | |
| 31 | | | | | | | | | | | |
| 32 | | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 35 | 6123 (33) | 1933- | | 1933- | 1933- | 1933- | | | | | |
| 36 | | | | | | | | | | | |
| 37 | | | | | | | | | | | |
| 38 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 39 | Sheboygan, Wisc. | Water treatment plant<br>C. Blabaum, Plant Supt. | 1931- | X | X | X | | weather, lake current dir. during 1958 |
| 40 | Sheboygan, Wisc. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 41 | Sheboygan, Wisc. | USWB cooperative | variable see data | | | 62 | 60 | |
| 42 | Port Washington, Wisc. | Water treatment plant | 1949- | X | | X | | |
| 43 | Port Washington, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 44 | Port Washington, Wisc. | USWB cooperative | 19 | | | | X | |
| 45 | Milwaukee, Wisc. | Water treatment plant<br>T. E. Dolan, Chemist | variable see data | 1958 | 1958 | 1958 | | weather, lake current dir. 1958 |
| 46 | Milwaukee, Wisc. | USWB cooperative | 7 | | | X | X | |
| 47 | Milwaukee, Wisc. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 48 | Milwaukee, Wisc. | USWB First Order City | 84 | X | X | X | X | p 15, 1 |
| 49 | Milwaukee, Wisc. | U. S. Lake Survey | -- | | | | | |
| 50 | Cudahy, Wisc. | Water treatment plant<br>J. J. Tiry, Director Pub. Works | 1954- | X | X | X | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 39 | 5000 (-)<br>1800 (-) | X | | X | X | X | | | | | 5000 ft intake used most USPH cooperator |
| 40 | | | | | | | | | | | |
| 41 | | | | | | | | | | | |
| 42 | 3450 (32) | X | | X | X | X | | X | X | | |
| 43 | | | | | | | | | | | |
| 44 | | | | | | | | | | | |
| 45 | 6500 (67) | X | | X | X | X | | X | X | plankton | USPH cooperator |
| 46 | | | | | | | | | | | |
| 47 | | | | | | | | | | | |
| 48 | | | | | | | | | | | |
| 49 | | | | | | | | | | lake level (cont.) | |
| 50 | 2400 (24) | X | | X | X | X | | X | X | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 51 | Wind Point, Wisc. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 52 | Racine, Wisc. | Water treatment plant G. H. Ruston, Mgr. | 1930- | X | | X | X | |
| 53 | Racine, Wisc. | USWB cooperative | variable see data | | | 65 | 62 | |
| 54 | Kenosha, Wisc. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 55 | Kenosha, Wisc. | USWB cooperative | 16 | | | X | X | |
| 56 | Waukegan, Ill. | North Shore Sanitary Dist., R. E. Anderson, Chem-Engr. | | | | | | |
| | | (a) Waukegan Disposal Plant | variable see data | 1947- | | | liquid 1938-; solid 1947-1952 | cloud cover 1947-48 |
| 57-76 | Waukegan, Ill. | (b) 20 obs. pts. between Wisc. & Cook Co., Ill., borders | 1948- | X | X | | | weather, lake condition |
| 77 | Waukegan, Ill. | Water treatment plant H. C. Domke, Supt. | 1928- | X | X | | | atmos. cond. lake level |
| 78 | Waukegan, Ill. | USWB cooperative | 35 | | | X | X | |
| 79 | Waukegan, Ill. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 80 | Highland Park, Ill. | Water treatment plant | 1929- | | | X | | atmos. cond. |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 51 | | | | | | | | | | | |
| 52 | 3960 (40) | X | | X | X | X | | X | X | | |
| 53 | | | | | | | | | | | |
| 54 | | | | | | | | | | | |
| 55 | | | | | | | | | | | |
| 56 | | | | | | | | | | | |
| 57-76 | | X | | | X | X | | X | | | locations of obs. pts. obtainable from R. E. Anderson |
| 77 | -- (--) | X | | X | X | X | | X | X | | USPH cooperator |
| 78 | | | | | | | | | | | |
| 79 | | | | | | | | | | | |
| 80 | 3400 (25)<br>2000 (25) | X | | X | X | X | | X | X | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 81 | Wilmette, Ill. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 82 | Evanston, Ill. | Water treatment plant H. R. Frye, Supt. | 1913- | X | X | X | X | |
| 83 | Evanston, Ill. | USWB cooperative | 17 | | | | X | |
| 84 | Chicago, Ill. | USWB First Order City | 88 | X | X | X | X | p 15, 1 |
| 85 | Chicago, Ill. | Chicago Univ. USWB cooperative | 87 | X | X | X | X | |
| 86 | Chicago, Ill. | Loyola Univ. USWB cooperative | 25 | | | X | X | |
| 87 | Chicago, Ill. | Chicago Lakeview Pump. Sta. (USWB cooperative) | 25 | | | | X | |
| 88 | Chicago, Ill. | Chicago Sanitary Dist. Off. (USWB cooperative) | 32 | | | | X | |
| 89 | Chicago, Ill. | South Dist. Filtration Plt. (USWB cooperative) J. R. Baylis, Engr. of Water Purification | 1945- | X | X | X | X | |
| 90 | Chicago, Ill. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 91 | Chicago, Ill. | U. S. Lake Survey | -- | | | | | |
| 92 | Jackson Park (Chicago), Ill. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 81 | | | | | | | | | | | |
| 82 | 5690 (16) | X | | X | X | X | | X | X | plankton | USPH cooperator |
| 83 | | | | | | | | | | | |
| 84 | | | | | | | | | | | |
| 85 | | | | | | | | | | | |
| 86 | | | | | | | | | | | |
| 87 | | | | | | | | | | | |
| 88 | | | | | | | | | | | |
| 89 | -- (--) | X | | X | X | X | | X | X | plankton, lake level | USPH cooperator |
| 90 | | | | | | | | | | | |
| 91 | | | | | | | | | | | |
| 92 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 93 | South Chicago, Ill. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 94 | Hammond, Ind. | Water treatment plant M. Papach, Act. Supt. | 1936- | X | X | X | | visibility |
| 95 | Whiting, Ind. | USWB cooperative | 48 | | | X | X | |
| 96 | Whiting, Ind. | Water treatment plant M. H. Abraham, Supt. | 1955- | X | | | | |
| 97 | Indiana Harbor, Ind. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 98 | Gary, Ind. | USWB cooperative | 22 | | | X | X | |
| 99 | Gary, Ind. (Gary-Hobart) | Water treatment plant H. L. Plowman, Jr., Ch. Chem. | 1954- | X | | X | | |
| 100 | Gary, Ind. | U. S. Steel; T. W. Hunter, Gen. Supt.; D. T. Seaman, Div. Supt. of Power & Fuel | variable see data | | | | | |
| 101 | Gary, Ind. | Northern Ind. Public Serv. Co., D. H. Mitchell Plant, E. B. Heise, Mgr. Electric Production | Dec. 1956- | X | X | X | | |
| 102 | Ogden Dunes, Ind. | USWB cooperative | 7 | | | X | X | |
| 103 | Michigan City, Ind. | Water treatment plant D. Ungareit, Pl. Supt. | 1935- | X | | | | atmos. cond. |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 93 | | | | | | | | | | | |
| 94 | 1)5000(24)<br>2)1934(17)<br>3)1400(15) | X | | X | X | X | | X | | odor; lake surface | intakes: 1) used all yr; 2) & 3) used May-Sept. |
| 95 | | | | | | | | | | | |
| 96 | 1696 (16) | X | | | | X | | | | | |
| 97 | | | | | | | | | | | |
| 98 | | | | | | | | | | | |
| 99 | ca 6000 (35-38) | X | | X | X | X | X | X | X | plankton, color, odor | USPH cooperator |
| 100 | 1) 2900 (6-16)<br>2) 100 (-) | 1950- | | | | | 1953- | | | Ca, Mg, non-$CO_3$ salts, 1953- | |
| 101 | shoreline (6) | X | | | | | | | | unspecified chem. anal.;water level | |
| 102 | | | | | | | | | | | |
| 103 | 3000 (35) | X | | X | X | X | | X | X | | 2 intakes at same location; 24" & 42"diam. USPH cooperator |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 104 | Michigan City, Ind. | Northern Ind. Public Serv. Co., Michigan City Plant; E. B. Heise, Mgr. Electric Production | 1931- | X | X | X | | |
| 105 | Michigan City, Ind. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 106 | St. Joseph, Mich. | Water treatment plant (Lansing) | 1952- | | | | | |
| 107 | St. Joseph, Mich. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 108 | Benton Harbor, Mich. | Water treatment plant (Lansing) | 1951- | X | X | X | | |
| 109 | Benton Harbor, Mich. | USWB cooperative | 75 | | | X | X | |
| 110 | Pilgrim Haven, Mich. | C. W. Shinn | 3 | X | X | X | X | pressure |
| 111 | South Haven, Mich. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 112 | South Haven, Mich. | Water treatment plant (Lansing) | 1926- | X | | | | |
| 113 | South Haven, Mich. | USWB cooperative | 63 | | | X | X | |
| 114 | South Haven, Mich. | Municipal power plant Roy Ewers, Mgr. | 1915- | | | | | pressure |
| 115 | Holland, Mich. | Water treatment plant (Lansing) | 1957- | X | | X | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 104 | shoreline (14) | X | | | | | | | | unspecified chem. anal., water level | |
| 105 | | | | | | | | | | | |
| 106 | 1500 (25) | X | | X | | X | | X | | odor | |
| 107 | | | | | | | | | | | |
| 108 | 3500 (28) | X | | X | X | X | X | X | X | odor | USPH cooperator |
| 109 | | | | | | | | | | | |
| 110 | | | | | | | | | | | |
| 111 | | | | | | | | | | | |
| 112 | 5600 (35) | X | | X | X | X | | X | X | color, odor | |
| 113 | | | | | | | | | | | |
| 114 | | | | | | | | | | | |
| 115 | 4360 (46-50) | X | | X | X | X | | X | X | plankton, odor, $CO_3$, diss. $CO_2$, $HCO_3$ | USPH cooperator |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 116 | Holland, Mich. | USCG Moorings (4 hrly) | -- | X | X | X | | p 15, 2b |
| 117 | Grand Rapids, Mich. | Water treatment plant (Lansing) | 1912- | | | | | |
| 118 | Grand Haven, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 119 | Grand Haven, Mich. | USWB cooperative | 16 | | | | X | |
| 120 | Grand Haven, Mich. | USWB cooperative | 88 | | | X | X | |
| 121 | Muskegon Heights, Mich. | Water treatment plant (Lansing) | 1941- | X | | | | |
| 122 | Muskegon, Mich. | Water treatment plant (Lansing) | 1937- | | | X | | |
| 123 | Muskegon, Mich. | USWB First Order | 62 | X | X | X | X | p 15, 1 |
| 124 | Muskegon, Mich. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 125 | Pentwater, Mich. | USCG Moorings (4 hrly) | -- | X | X | X | | p 15, 2b |
| 126 | Ludington, Mich. | Water treatment plant (Lansing) | 1954- | X | | | | weather |
| 127 | Ludington, Mich. | USWB cooperative | -- | | | X | X | |
| 128 | Ludington, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 129 | Ludington, Mich. | USWB cooperative | 62 | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 116 | | | | | | | | | | | |
| 117 | 6100 (57) | X | | X | X | X | X | X | X | plankton, Mg, Cl, color | USPH cooperator |
| 118 | | | | | | | | | | | |
| 119 | | | | | | | | | | | |
| 120 | | | | | | | | | | | |
| 121 | 4600 (42) | | X | X | X | X | X | X | X | color, odor | |
| 122 | 7000 (50) | X | | X | X | X | | X | X | Fl, Cl, color, odor | USPH cooperator |
| 123 | | | | | | | | | | | |
| 124 | | | | | | | | | | | |
| 125 | | | | | | | | | | | |
| 126 | 2600 (45) | X | | | | X | | X | | | |
| 127 | | | | | | | | | | | |
| 128 | | | | | | | | | | | |
| 129 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 130 | Ludington, Mich. | U. S. Lake Survey | -- | | | | | |
| 131 | Big Sable Point (Ludington), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 132 | Manistee, Mich. | USWB cooperative | 63 | | | X | X | |
| 133 | Manistee, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 134 | Elberta, Mich. | USWB cooperative | 56 | | | X | X | |
| 135 | Frankfort, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 136 | Point Betsie, Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 137 | Glen Arbor, Mich. | USWB cooperative | 4 | | | X | X | |
| 138 | South Manitou Is., Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 139 | North Manitou Is., Mich. | USWB cooperative | 4 | | | X | X | |
| 140 | North Manitou Is., Mich. | USWB cooperative | -- | | | X | X | |
| 141 | North Manitou Shoals (Leland), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 142 | Grand Traverse (Northport), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 130 | | | | | | | | | | lake level (cont.) | |
| 131 | | | | | | | | | | | |
| 132 | | | | | | | | | | | |
| 133 | | | | | | | | | | | |
| 134 | | | | | | | | | | | |
| 135 | | | | | | | | | | | |
| 136 | | | | | | | | | | | |
| 137 | | | | | | | | | | | |
| 138 | | | | | | | | | | | |
| 139 | | | | | | | | | | | |
| 140 | | | | | | | | | | | |
| 141 | | | | | | | | | | | |
| 142 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 143 | Traverse City, Mich. | Water treatment plant (Lansing) | 1954- | | | | | |
| 144 | Traverse City, Mich. | USWB Second Order CAA AP | 64 | X | X | X | X | p 15, 1 |
| 145 | Traverse City, Mich. | Naval Air Station | 1942-1945 | X | X | X | X | p 15, 1 |
| 146 | Charlevoix, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 147 | Charlevoix, Mich. | USWB cooperative | 71 | | | | X | |
| 148 | Petoskey, Mich. | Penn-Dixie Portland Cement Co., G. Davis, Supt. | -- | | | | | |
| 149 | Petoskey, Mich. | USWB cooperative | 6 | | | X | X | |
| 150 | Little Traverse (Harbor Springs), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 151 | Cross Village, Mich. | USWB cooperative | 5 | | | | X | |
| 152 | White Shoal (Cross Village), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 153 | Lansing Shoal, Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 154 | Grays Reef (Charlevoix), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 155 | Ile Aux Galets (Charlevoix), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 143 | 1700 (34) | X | | | | X | | X | | | |
| 144 | | | | | | | | | | | |
| 145 | | | | | | | | | | | |
| 146 | | | | | | | | | | | |
| 147 | | | | | | | | | | | |
| 148 | 50 (6) | X | | | | | | | | | |
| 149 | | | | | | | | | | | |
| 150 | | | | | | | | | | | |
| 151 | | | | | | | | | | | |
| 152 | | | | | | | | | | | |
| 153 | | | | | | | | | | | |
| 154 | | | | | | | | | | | |
| 155 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 156 | Beaver Is., Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 157 | Beaver Is., Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 158 | Beaver Is., Mich. | USWB cooperative | -- | | | X | X | |
| 159 | Gull Is., Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 160 | South Fox Is., Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 161 | Shoe Island, Mich. | USWB cooperative | -- | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 156 | | | | | | | | | | | |
| 157 | | | | | | | | | | | |
| 158 | | | | | | | | | | | |
| 159 | | | | | | | | | | | |
| 160 | | | | | | | | | | | |
| 161 | | | | | | | | | | | |

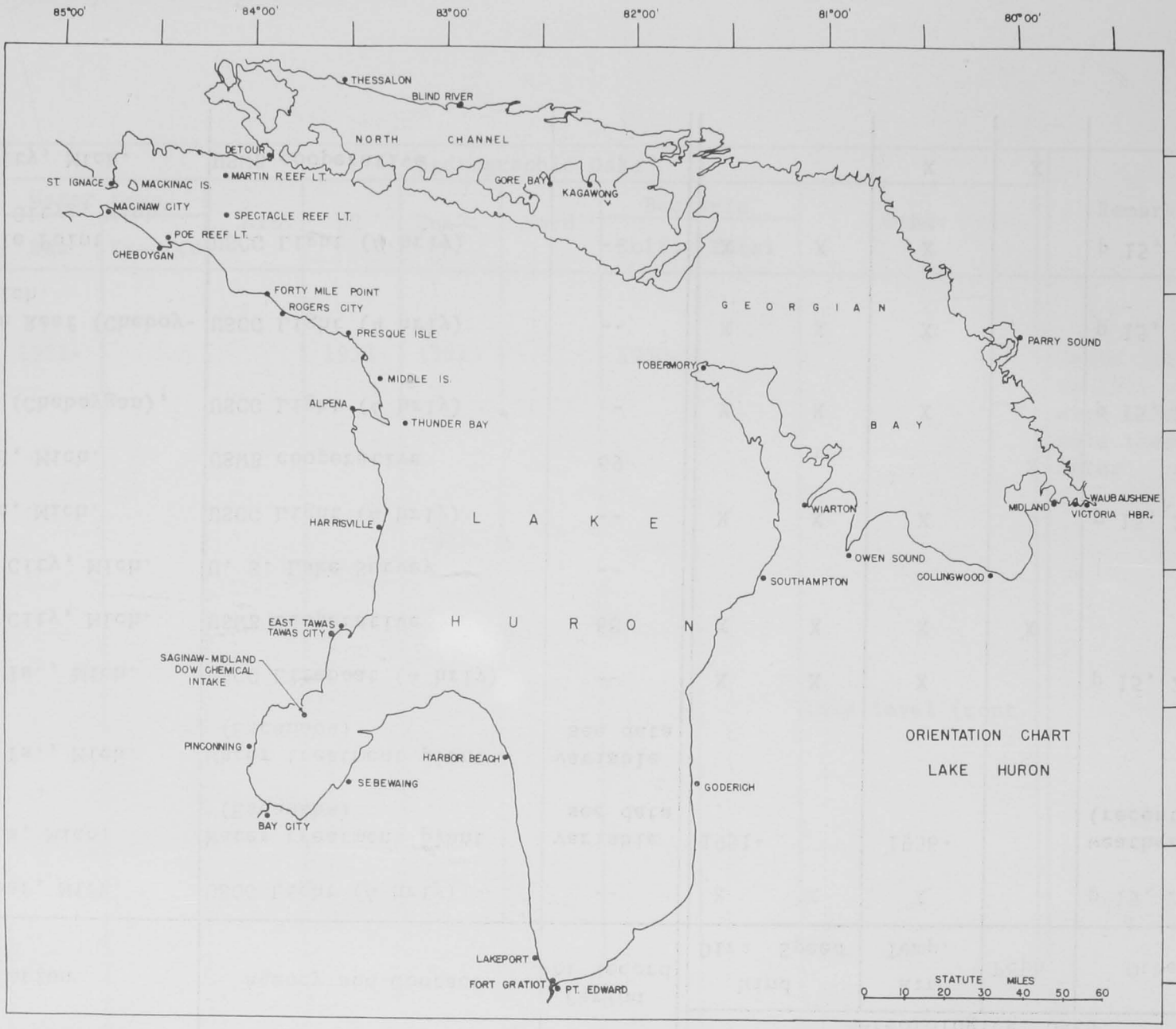


Figure 4. Orientation Chart, Lake Huron

LAKE HURON (starting at international boundary at False Detour Passage and proceeding counterclockwise)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Martin Reef, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 2 | St. Ignace, Mich. | Water treatment plant (Escanaba) | variable see data | 1951- | | 1956- | | weather (recent data) |
| 3 | Mackinac Is., Mich. | Water treatment plant (Escanaba) | variable see data | | | | | |
| 4 | Mackinac Is., Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 5 | Mackinaw City, Mich. | USWB cooperative | 68 | X | X | X | X | |
| 6 | Mackinaw City, Mich. | U. S. Lake Survey | -- | | | | | |
| 7 | Cheboygan, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 8 | Cheboygan, Mich. | USWB cooperative | 69 | | | | X | |
| 9 | Poe Reef (Cheboygan), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 10 | Spectacle Reef (Cheboygan), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 11 | Forty Mile Point (Rogers City), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 12 | Rogers City, Mich. | USWB cooperative | 7 | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | | | | | | | | | | | |
| 2 | before 1955: 225 (13) since 1955: 480 (20) | 1951- | | | 1952- | 1952- | | 1950- | | | temps prior to 1951 obs. with unreliable thermometer |
| 3 | -- (--) | | | | | 1957- | | 1946- | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | lake level (cont.) | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 13 | Rogers City, Mich. | Mich. Limestone and Chem. Div., U.S. Steel D. T. Van Zandt, Mgr. | "Several years" | | | | | |
| 14 | Presque Isle, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 15 | Middle Is. (Alpena), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 16 | Thunder Bay Is. (Alpena), Mich. | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 17 | Alpena, Mich. | USWB First Order | 86 | X | X | X | X | p 15, 1 |
| 18 | Alpena, Mich. | Water treatment plant (Lansing) | 1945- | X | | | | |
| 19 | Alpena, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 20 | Harrisville, Mich. | USWB cooperative | 79 | | | X | X | |
| 21 | East Tawas, Mich. | USWB cooperative | 64 | | | X | X | |
| 22 | Tawas City, Mich. | USCG Tawas Point Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 23 | Saginaw-Midland intake, Mich. | Water treatment plant (Lansing) | 1948- | | | | | |
| 24 | Midland, Mich. | Dow Chemical Co. M. Whiting, Mgr., Service Depts. | 1949- | X | X | X | X | rel. humid. |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 13 | shoreline (6) | X | | | | | | | | "chemical anal." of raw water made once per year | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | 2000 (10) | | X | X | X | X | X | X | | color | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | Whitestone Pt., north shore Saginaw Bay; (40) | X | | X | X | X | X | X | X | free $CO_2$, Mg, Cl, color | |
| 24 | (see remarks) | X | | X | X | X | X | | | Cl, $SO_4$, Si, Na | same intake as Saginaw-Midland |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 25 | Pinconning, Mich. | Water treatment plant (Lansing) | 1948- | X | | | | |
| 26 | Bay City, Mich. | Water treatment plant (Lansing) | 1925- | X | | | | |
| 27 | Bay City, Mich. | USWB cooperative | 63 | | | X | X | |
| 28 | Bay City, Mich. | USCG Saginaw River Range Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 29 | Bay City, Mich. | U. S. Lake Survey | -- | | | | | |
| 30 | Sebewaing, Mich. | USWB cooperative | 2 | | | | X | |
| 31 | Harbor Beach, Mich. | Water treatment plant (Lansing) | 1937- | | | | | |
| 32 | Harbor Beach, Mich. | U. S. Lake Survey | -- | | | | | |
| 33 | Harbor Beach, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 34 | Lakeport, Mich. | U. S. Lake Survey | -- | | | | | |
| 35 | Fort Gratiot, Mich. | U. S. Lake Survey | -- | | | | | |
| 36 | Point Edward, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 37 | Goderich, Ontario | CMD II | variable see data ** | | | (X) | 57 | |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 25 | 5400 (6) | | X | X | X | | | X | | Cl, odor | |
| 26 | 18480 (19) | | X | X | X | X | X | X | X | Mg, Cl, free $CO_2$, color, odor | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | lake level (cont.) | |
| 30 | | | | | | | | | | | |
| 31 | 2600 (14) | | X | X | X | X | | X | X | color, odor | |
| 32 | | | | | | | | | | lake level (cont.) | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | lake level (cont.) | |
| 35 | | | | | | | | | | lake level (cont.) | |
| 36 | | | | | | | | | | lake level (cont.) | |
| 37 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 38 | Goderich, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 39 | Southampton, Ontario | CMD II | variable see data | 28 | 28 | 81 | 81 | |
| 40 | Tobermory, Ontario | CMD II | variable see data | | | 43 | 43 | |
| 41 | Wiarton, Ontario | CMD I | ** | X | X | X | X | p 15, 1 |
| 42 | Owen Sound, Ontario | CMD II | variable see data | | | 76 | 76 | |
| 43 | Collingwood, Ontario | CMD II | ** | | | X | X | |
| 44 | Collingwood, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 45 | Midland, Ontario | CMD III | ** | | | | X | |
| 46 | Victoria Harbor, Ont. | CMD III | ** | | | | X | |
| 47 | Waubaushene, Ontario | CMD II | ** | | | X | X | |
| 48 | Parry Sound, Ontario | CMD II | variable see data | 28 | 28 | 63 | 63 | |
| 49 | Kagawong, Ontario | CMD II | ** | | | X | X | |
| 50 | Gore Bay, Ontario | CMD I | ** | X | X | X | X | p 15, 1 |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 38 | | | | | | | | | | lake level (cont.) | |
| 39 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 41 | | | | | | | | | | | |
| 42 | | | | | | | | | | | |
| 43 | | | | | | | | | | | |
| 44 | | | | | | | | | | lake level (cont.) | |
| 45 | | | | | | | | | | | |
| 46 | | | | | | | | | | | |
| 47 | | | | | | | | | | | |
| 48 | | | | | | | | | | | |
| 49 | | | | | | | | | | | |
| 50 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 51 | Gore Bay, Ontario | CMD II | variable see data | 10 | 10 | 43 | 43 | |
| 52 | Blind River, Ontario | CMD II | variable see data | | | 15 | 15 | |
| 53 | Thessalon, Ontario | Canadian Hydrographic Service | -- | | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 51 | | | | | | | | | | | |
| 52 | | | | | | | | | | | |
| 53 | | | | | | | | | | lake level (cont.) | |

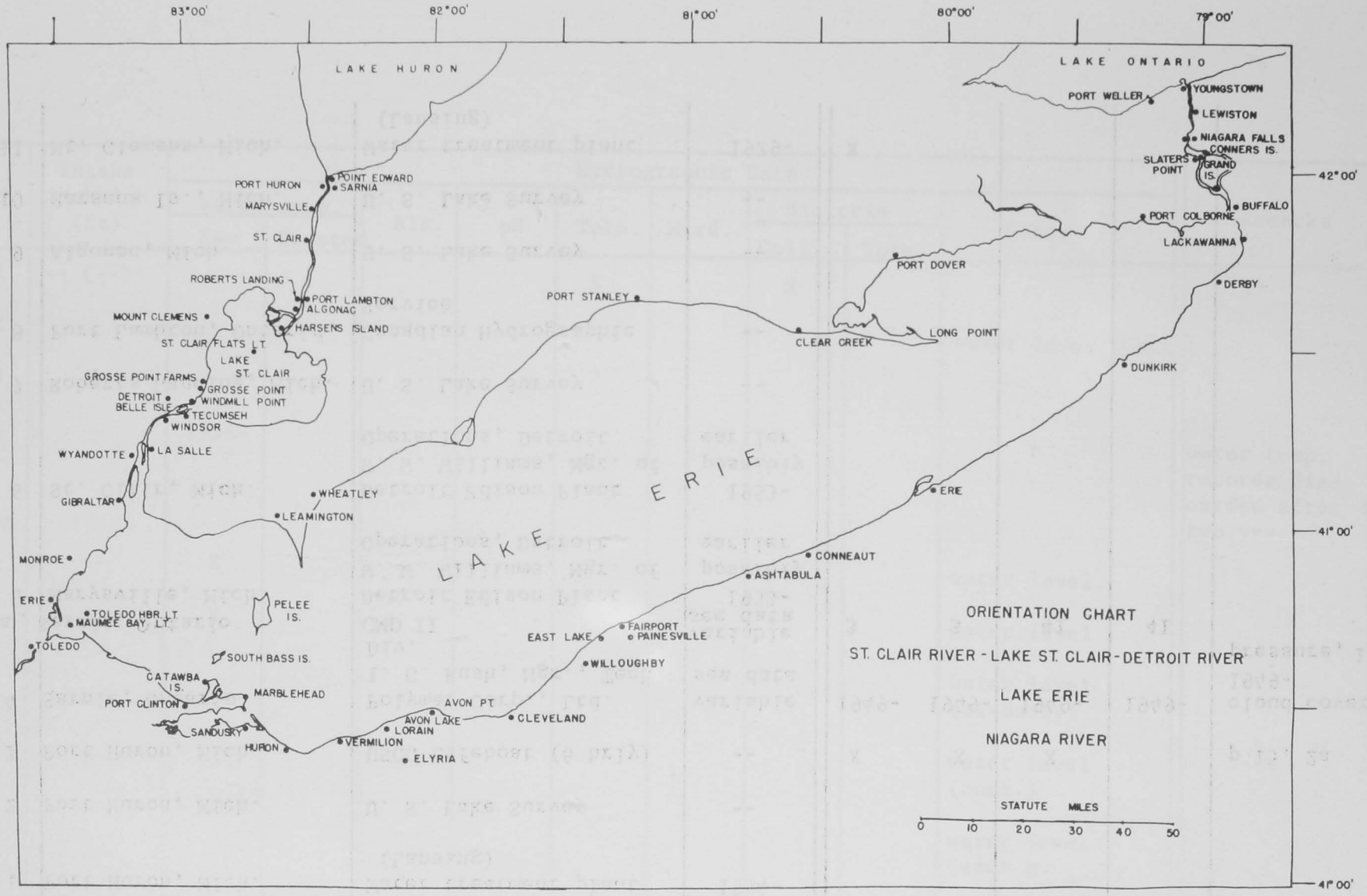


Figure 5. Orientation Chart, Lake Erie (including St. Clair River, Lake St. Clair, Detroit River, and Niagara River)

ST. CLAIR RIVER-LAKE ST. CLAIR-DETROIT RIVER (starting at the southern extreme of Lake Huron)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Port Huron, Mich. | Water treatment plant (Lansing) | 1954- | | | | | |
| 2 | Port Huron, Mich. | U. S. Lake Survey | -- | | | | | |
| 3 | Port Huron, Mich. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 4 | Sarnia, Ontario | Polymer Corp., Ltd. I. C. Rush, Mgr., Tech. Div. | variable see data | 1949- | 1949- | 1949- | 1949- | cloud cover, 1949- pressure, 1957- |
| 4a | Sarnia, Ontario | CMD II | variable see data | 3 | 3 | 41 | 41 | |
| 5 | Marysville, Mich. | Detroit Edison Plant W. W. Williams, Mgr. of Operations, Detroit | 1953- possibly earlier | | | | | |
| 6 | St. Clair, Mich. | Detroit Edison Plant W. W. Williams, Mgr. of Operations, Detroit | 1953- possibly earlier | | | | | |
| 7 | Roberts Landing, Mich. | U. S. Lake Survey | -- | | | | | |
| 8 | Port Lambton, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 9 | Algonac, Mich. | U. S. Lake Survey | -- | | | | | |
| 10 | Harsens Is., Mich. | U. S. Lake Survey | -- | | | | | |
| 11 | Mt. Clemens, Mich. | Water treatment plant (Lansing) | 1929- | X | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | -- (--) | | | | | X | | X | | | |
| 2 | | | | | | | | | | water level (cont.) | |
| 3 | | | | | | | | | | | |
| 4 | -- | 1956- | | | | | | | | | water temp. records discarded after two yrs. |
| 4a | | | | | | | | | | | |
| 5 | -- | X | | | | | | | | water level | |
| 6 | -- | X | | | | | | | | water level | |
| 7 | | | | | | | | | | water level (bi-daily) | |
| 8 | | | | | | | | | | water level (cont.) | |
| 9 | | | | | | | | | | water level (cont.) | |
| 10 | | | | | | | | | | water level (tri-daily) | |
| 11 | 5000 (16) | | X | X | X | X | X | X | | color, odor | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 12 | Mt. Clemens, Mich. | Selfridge Air Force Base | 59 | X | X | X | X | p 15, 1 |
| 13 | St. Clair Flats (Sans Souci), Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 14 | Grosse Point Farms, Mich. | Water treatment plant (Lansing) | 1931- | | | | | |
| 15 | Grosse Point, Mich. | U. S. Lake Survey | -- | | | | | |
| 16 | Windmill Point, Mich. | U. S. Lake Survey | -- | | | | | |
| 17 | Tecumseh, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 18 | Windsor, Ontario | Water treatment plant G. H. Strickland, Supt. | variable see data | | | 1930- | | |
| 19 | Windsor, Ontario | Hydro-Electric Power Comm. of Ontario, J. C. Keith, Plant R. Shepley, Sta. Supt. | variable see data | | | | | |
| 20 | Detroit, Mich. | Water treatment plant (Water Works Park) (Lansing) | 1924- | X | | | | |
| 21-24 | Detroit, Mich. | Detroit Edison Plants: Conners Creek, Delray, River Rouge, Trenton Channel W. W. Williams, Mgr. of Oper., Detroit | 1953- possibly earlier | | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | 2000 (14-16) | | X | X | X | X | | X | X | odor | alk, pH reported rarely |
| 15 | | | | | | | | | | water level (cont.) | |
| 16 | | | | | | | | | | water level (cont.) | |
| 17 | | | | | | | | | | water level (cont.) | |
| 18 | 1926-1954: 350 (40) 1954-: 300 (40) | 1930- | | 1950- | 1950- | 1928- | 1950- | 1930- | 1930- | taste, odor, 1928- plankton, 1930- water level, 1956- | |
| 19 | see remks. | 1952- | | 1955- | 1955- | | 1955- | | | Cl, conductivity, 1955- | intake is channel dredged ca 15 ft deep 140 ft from shore |
| 20 | -- (26) | | X | X | X | X | | X | X | odor, plankton | |
| 21-24 | -- | X | | | | | | | | water level | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 25 | Detroit, Mich. | U. S. Lake Survey | -- | | | | | |
| 26 | La Salle, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 27 | Wyandotte, Mich. | Water treatment plant (Lansing) | 1946- | X | X | | | pressure, cloud cover |
| 28 | Wyandotte, Mich. | Wyandotte Chemical Corp. J. F. Hunter, Pollution Control Engineer | variable see data | | | | | |
| 29 | Wyandotte, Mich. | U. S. Lake Survey | -- | | | | | |
| 30 | Belle Isle, Mich. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 31 | Grosse Ile, Mich. | Naval Air Station | 1942- | X | X | X | X | p 15, 1 |
| 32 | Gibraltar, Mich. | U. S. Lake Survey | -- | | | | | |
| 33 | Gibraltar, Mich. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 25 | | | | | | | | | | water level (cont.) | |
| 26 | | | | | | | | | | water level (cont.) | |
| 27 | 1800 (25) | X | | X | X | X | X | X | X | Cl, Fl, odor | total bact. discont. after 1956 |
| 28 | -- | 1950- | | 1937- | | | 1937- | | | Cl, Ca, 1937- | |
| 29 | | | | | | | | | | water level (cont.) | |
| 30 | | | | | | | | | | | |
| 31 | | | | | | | | | | | |
| 32 | | | | | | | | | | water level (cont.) | |
| 33 | | | | | | | | | | | |

LAKE ERIE (starting on United States side at mouth of Detroit River and proceeding counterclockwise)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Monroe, Mich. | Water treatment plant (Lansing) | 1937- | X | | | | |
| 2 | Monroe, Mich. | Univ. of Mich. Research | 1956- | X | X | X | X | lapse rate |
| 3 | Monroe, Mich. | USWB cooperative | 41 | | | X | X | |
| 4 | Monroe, Mich. | U. S. Lake Survey | -- | | | | | |
| 5 | Erie, Mich. | Consumers Power Co., M. C. Stiff, Electric Prod. Supt., Jackson, Mich. | 1955-56- | | | | | |
| 6 | Toledo, Ohio | Water treatment plant R. R. Henderson, Supt. (Columbus) | 1941- | | | | | |
| 7 | Toledo, Ohio | Interlake Iron Corp. J. L. Johnson, Gen. Supt. | variable see data | | (X) | 1953- | | humidity, 1953- pressure, 1953- |
| 8 | Toledo, Ohio | Toledo Edison Co., Bay Shore Plant J. S. Grant, Chief Chemist | 1952-53 1956- | | | | | |
| 9 | Toledo, Ohio | USWB cooperative | 9 | | | X | X | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | 5360 (23) | | X | X | X | X | X | X | X | Ca, Mg, odor | |
| 2 | | | | | | | | | | | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | lake level (cont.) | |
| 5 | see remarks | X (summer only) | | X | X | X | X | | | conductivity, surf. tension, susp. solids, diss. solids, total solids, Ca, Cl, Mg, Fe, Cu, Mn, Na, K, N, $NH_3$, $NO_3$, $SiO_2$, $SO_4$, $Al_2O_3$, $CO_2$, $O_2$ consumed, loss of solids by ignition, phenols, sulfides, odor | intake in 15-19 ft deep dredged channel originating at end of, and enclosed by, a N-S peninsula |
| 6 | 10560 (10) | | | X | X | X | X | X | X | Mg | |
| 7 | shore line (0.4 to 13.4 ft.) | 1 yr. | | (X) | (X) | | (X) | | | lake level, 1 yr. | intake figs re to water level of 570.15 ft. |
| 8 | -- | X | | | | | | | | unspecified "chemical data" | no winter temp data |
| 9 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 10 | Toledo, Ohio | USWB cooperative | 7 | | | X | X | |
| 11 | Toledo, Ohio | U. S. Lake Survey | -- | | | | | |
| 12 | Toledo Harbor, Ohio | USCG Light (6 hrly) | -- | X | X | X | | p 15, 2a |
| 13 | Maumee Bay (Toledo), Ohio | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 14 | Port Clinton, Ohio | Water treatment plant W. F. Crohen, Supt. (Columbus) | 1912- | | | | | |
| 15 | Catawba Is., Ohio | USWB cooperative | variable see data | | | 42 | 41 | |
| 16 | South Bass Is. (Put-in-Bay), Ohio | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 17 | Gibraltar Is. (South Bass Is.), Ohio | USWB cooperative | variable see data | | | 42 | 41 | |
| 18 | Marblehead, Ohio | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 19 | Sandusky, Ohio | Water treatment plant O. F. Schoepfle, Supt. (Columbus) | 1910- | | | | | |
| 20 | Sandusky, Ohio | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 21 | Sandusky, Ohio | USWB First Order | 81 | X | X | X | X | p 15, 1 |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 10 | | | | | | | | | | | |
| 11 | | | | | | | | | | lake level (cont.) | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | 1000 (0-8) | | | X | X | X | X | X | X | | variable intake depth due to observed fluctuations in lake level (per plant supt.) |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | 2500 (19.5) | | | X | X | X | | X | X | | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 22 | Huron, Ohio | Water treatment plant S. R. Hetrick, Supt. (Columbus) | 1909- | | | | | weather |
| 23 | Huron, Ohio | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 24 | Vermilion, Ohio | Water treatment plant W. K. Eisenhauer, Supt. (Columbus) | 1916- | | | | | |
| 25 | Lorain, Ohio | Water treatment plant G. Walkenshaw, Supt. (Columbus) | 1910- | X | | X | | weather, lake surface |
| 26 | Lorain, Ohio | Ohio Edison Co., Edgewater Plant J. W. Mikels, Gen. Supt. of Power Production | variable see data | 1956- (see remarks) | 1956- | | | |
| 27 | Lorain, Ohio | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 28 | Elyria, Ohio | Water treatment plant N. J. Humason, Supt. (Columbus) | 1903- | | | | | |
| 29 | Avon Lake, Ohio | Water treatment plant R. R. Underhill, Supt. (Columbus) | 1928- | | | | | |
| 30 | Avon Point, Ohio | Cleveland Elec. and Illum. Co., Avon Plant, C. A. Dauber, Dir. Civil & Mech. Engr., Cleveland | variable see data | 1956- | 1956- | 1956- | | humidity, 1956- |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 22 | 1000 (13 | X | | X | X | X | X | X | | | |
| 23 | | | | | | | | | | | |
| 24 | 1904-50: 1300 (8) 1950-: 1300 (12) | X | | X | X | X | X | X | X | | |
| 25 | 2000 (--) | X | | X | X | X | X | X | X | | |
| 26 | see remarks | 1948- | | | | | | | | water level 1948- | intake is 800 ft channel 30 ft wide, 8-10 ft deep meteorological data on file at Battelle Memorial Inst., Columbus, O.; letter of release needed from Ohio Ed. |
| 27 | | | | | | | | | | | |
| 28 | 1500 (ca 13) | X | | X | X | X | X | X | X | | |
| 29 | 1200 (15) | | | X | | X | | X | | | |
| 30 | see remarks | X | | | | | | | | | intake is 1000 ft channel dredged to 18 ft depth |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 31 | Cleveland, Ohio | Water treatment plant F. J. Schwemler, Commissioner of Water; Columbus | 1917- | | | | | |
| 32 | Cleveland, Ohio | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 33 | Cleveland, Ohio | USWB cooperative (Cleveland Easterly Sewage Pl.) | 3 | | | | X | |
| 34 | Cleveland, Ohio | USWB cooperative (Euclid Ave.) | 14 | | | X | X | pressure |
| 35 | Cleveland, Ohio | Cleveland Electric & Illuminating Co., Lake Shore Plant (5 mi. E downtown Cleveland) C. A. Dauber, Dir. Civil & Mech. Engr., Cleveland | 1932- | | | | | |
| 36 | Cleveland, Ohio | U. S. Lake Survey | -- | | | | | |
| 37 | East Lake, Ohio | Cleveland Electric & Illuminating Co., East Lake Plant, C. A. Dauber, Dir. Civil & Mech. Engr., Cleveland | variable see data | 1955- | 1955- | | | |
| 38 | Willoughby, Ohio | USWB cooperative | 53 | | | | X | |
| 39 | Fairport, Ohio | Water treatment plant E. Thomas, Supt. (Columbus) | 1936- | | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 31 | see remarks | | | X | X | X | X | X | X | Mg | 4 plants, with intakes: Div. Ave.: 4 mi. (36) Baldwin: 4 mi. (28) Nottingham: 3.5 mi. (40) Clague Rd. (under const.) 2.5 mi. (35) |
| 32 | | | | | | | | | | | |
| 33 | | | | | | | | | | | |
| 34 | | | | | | | | | | | |
| 35 | see remarks | X | | | | | | | | | intake is "very short" dredged chan. |
| 36 | | | | | | | | | | lake level (cont.) | |
| 37 | see remarks | 1953- | | | | | | | | | intake is 1000 ft channel dredged to 18 ft depth |
| 38 | | | | | | | | | | | |
| 39 | 1000 (12) | | | X | X | X | X | X | X | Cl | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 40 | Fairport, Ohio | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 41 | Painesville, Ohio | Water treatment plant E. W. Russell, Supt. (Columbus) | 1914- | | | | | |
| 42 | Painesville, Ohio | Diamond Alkali Co., R. E. Frey, Asst. Works Mgr. | 1945- | | | | | |
| 43 | Painesville, Ohio | USWB cooperative | 9 | | | X | X | |
| 44 | Ashtabula, Ohio | Water treatment plant F. J. Hull, Chemist (Columbus) | 1909- | | | | | |
| 45 | Ashtabula, Ohio | Cleveland Elec. & Illum. Co., Ashtabula Plt., C. A. Dauber, Dir. Civil & Mech. Engr., Cleveland | 1930- | | | | | |
| 46 | Ashtabula, Ohio | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 47 | Conneaut, Ohio | Water treatment plant W. V. Kantola, Supt. (Columbus) | 1900- | | | | | |
| 48 | Conneaut, Ohio | USWB cooperative | 19 | | | | X | |
| 49 | Conneaut, Ohio | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 50 | Erie, Pennsylvania | Water treatment plant J. D. Johnson, Gen. Supt. | -- | | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 40 | | | | | | | | | | | |
| 41 | 1914-57: 1000 (8) 1957-: 4000 (16) | X | | X | X | X | X | X | X | Cl | |
| 42 | 3488 (22) | X | | | | | | | | $HCO_3$, Cl, $CO_3$, Ca, Mg, Na, $SiO_2$, loss on ignition, total solids | |
| 43 | | | | | | | | | | | |
| 44 | 1500 (25) | | | X | X | X | X | X | X | | |
| 45 | see remarks | X | | | | | | | | | intake is 1000 ft channel dredged to 18 ft depth |
| 46 | | | | | | | | | | | |
| 47 | see remarks | | | X | X | X | X | X | X | | present intake in use since 1934: 1500 (16). No info. on prev. intk. |
| 48 | | | | | | | | | | | |
| 49 | | | | | | | | | | | |
| 50 | 5200 (22) | | | X | | X | | X | | color, OCCASIONAL ANALY: Fe, Ca, Mg, Na, $NO_3$, Cl, chlorinity, total slds. | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 51 | Erie, Pennsylvania | USWB First Order Ap. | 6 | X | X | X | X | p 15, 1 |
| 52 | Erie, Pennsylvania | USWB First Order City | 79 | X | X | X | X | p 15, 1 |
| 53 | Erie, Pennsylvania | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 54 | Erie, Pennsylvania | U. S. Lake Survey | -- | | | | | |
| 55 | Dunkirk, N. Y. | Niagara Mohawk Power Corp. Dunkirk Station P. A. Burt, Supt. | 1950- | | | X | X | |
| 56 | Dunkirk, N. Y. | USWB cooperative | 5 | | | | X | |
| 57 | Dunkirk, N. Y. | U. S. Lake Survey | -- | | | | | |
| 58 | Dunkirk, N. Y. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 59 | Derby, N. Y. | USWB cooperative | 14 | | | X | X | |
| 60 | Lackawanna, N. Y. | Erie County Water Auth. H. S. Dewey, Adm. Dir., Ellicott Square Bldg., Buffalo 3, N. Y. | variable see data | | | | | |
| 61 | Buffalo, N. Y. | USCG Base (6 hrly) | -- | X | X | X | | p 15, 2a |
| 62 | Buffalo, N. Y. | U. S. Lake Survey | -- | | | | | |
| 63 | Port Colborne, Ontario | Canadian Hydrographic Service | -- | | | | | |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 51 | | | | | | | | | | | |
| 52 | | | | | | | | | | | |
| 53 | | | | | | | | | | | |
| 54 | | | | | | | | | | lake level (cont.) | |
| 55 | at break-wall (see remarks) | X | | | X | X | X | | | conductivity, $SO_2$, $SO_4$, Cl, $HCO_3$, lake level | intake samples entire water column between 8 and 21 feet |
| 56 | | | | | | | | | | | |
| 57 | | | | | | | | | | lake level (cont.) | |
| 58 | | | | | | | | | | | |
| 59 | | | | | | | | | | | |
| 60 | -- (--) | | | 1926- | 1926- | 1928- | 1926- | 1926- | 1926- | color, odor, 1928- summer plankton, 1930- | |
| 61 | | | | | | | | | | | |
| 62 | | | | | | | | | | lake level (cont.) | |
| 63 | | | | | | | | | | lake level (cont.) | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 64 | Port Dover, Ontario | CMD II | variable see data | | | 80 | 80 | |
| 65 | Long Point, Ontario | CMD II | variable see data | 32 | 32 | 40 | 40 | |
| 66 | Clear Creek, Ontario | CMD I | ** | X | X | X | X | p 15, 1 |
| 67 | Port Stanley, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 68 | Wheatley, Ontario | Ont. Dept. Lands & Forests Station Dr. D. V. Anderson, Maple, Ontario | -- | | | | | |
| 69 | Leamington, Ohtario | CMD II | variable see data | | | 42 | 42 | |
| 70 | Pelee Is., Ontario | CMD II | variable see data | | | 67 | 67 | |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 64 | | | | | | | | | | | |
| 65. | | | | | | | | | | | |
| 66 | | | | | | | | | | | |
| 67 | | | | | | | | | | lake level (cont.) | |
| 68 | | X | | | | | | | | | recording thermograph at station |
| 69 | | | | | | | | | | | |
| 70 | | | | | | | | | | | |

NIAGARA RIVER (proceeding south to north)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Grand Is. (Tonawanda), N. Y. | Niagara Mohawk Power Corp., Huntley Station W. G. Godfrey, Supt. | 1948- | | | | | |
| 2 | Slater's Point, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 3 | Conner's Is., N. Y. | U. S. Lake Survey | -- | | | | | |
| 4 | Niagara Falls, N. Y. | U. S. Lake Survey | -- | | | | | |
| 5 | Niagara Falls, N. Y. | Naval Air Station | 1943-53 | X | X | X | X | p 15, 1 |
| 6 | Niagara Falls, Ontario | CMD II | ** | | | X | X | |
| 7 | Niagara Falls, Ontario | CMD II | ** | | | X | X | |
| 8 | Lewiston, N. Y. | USWB cooperative | variable see data | | | 42 | 37 | |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | shoreline (27) | X | | X | X | X | X | | | $SO_4$, Cl; water level from 1933 | |
| 2 | | | | | | | | | | water level (cont.) | |
| 3 | | | | | | | | | | water level (cont.) | |
| 4 | | | | | | | | | | water level (cont.) | |
| 5 | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 7 | | | | | | | | | | | |
| 8 | | | | | | | | | | | |

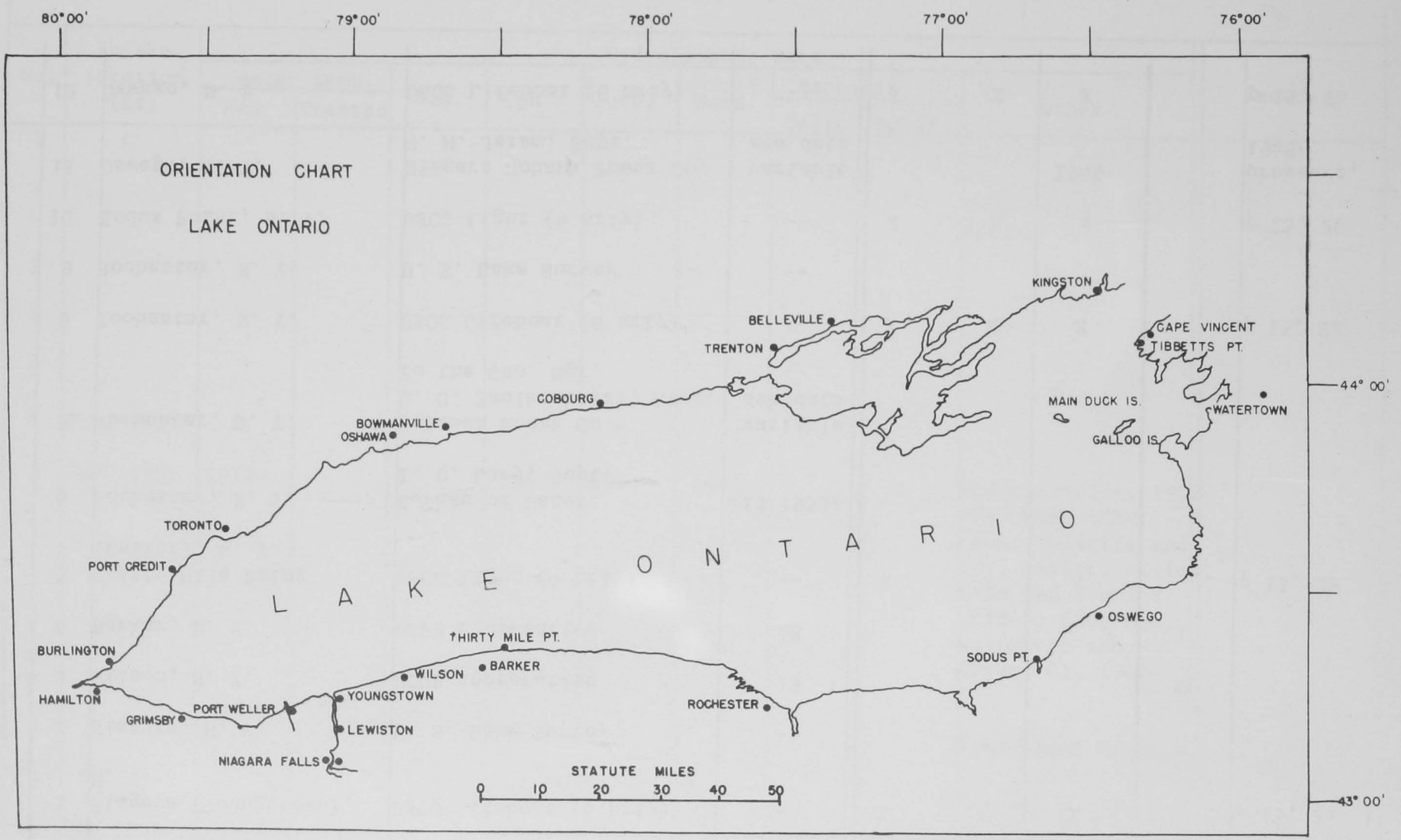


Figure 6. Orientation Chart, Lake Ontario

LAKE ONTARIO (starting at mouth of Niagara River and proceeding counterclockwise)

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 1 | Niagara (Youngstown), N. Y. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 2 | Niagara, N. Y. | U. S. Lake Survey | -- | | | | | |
| 3 | Wilson, N. Y. | USWB cooperative | 18 | | | | X | |
| 4 | Barker, N. Y. | USWB cooperative | 18 | | | | X | |
| 5 | Thirty Mile Point (Barker), N. Y. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 6 | Rochester, N. Y. | Bureau of Water<br>I. Q. Lacy, Supt. | mid 1955- | | | | | |
| 7 | Rochester, N. Y. | Eastman Kodak Co.<br>L. C. Faulkenberry, Asst. to the Gen. Mgr. | variable<br>see data | | | | | |
| 8 | Rochester, N. Y. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2a |
| 9 | Rochester, N. Y. | U. S. Lake Survey | -- | | | | | |
| 10 | Sodus Point, N. Y. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 11 | Oswego, N. Y. | Niagara Mohawk Power Co.<br>W. M. Jeram, Supt. | variable<br>see data | | | 1948- | | pressure, 1948- |
| 12 | Oswego, N. Y. | USCG Lifeboat (6 hrly) | -- | X | X | X | | p 15, 2b |

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 1 | | | | | | | | | | | |
| 2 | | | | | | | | | | lake level (tri-daily) | |
| 3 | | | | | | | | | | | |
| 4 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 6 | 8300 (50) | X | | X | X | X | | | | | |
| 7 | 7800 (55) | 1937- | | | 1947- | 1952- | 1947- | | | radioactivity, 1952- FOLLOWING CHEM ANAL: volatile and org. matter, silica, iron and alumina oxides, CaO, MgO, sulphuric anhydride, Cl, 1947-. | |
| 8 | | | | | | | | | | | |
| 9 | | | | | | | | | | lake level (cont.) | |
| 10 | | | | | | | | | | | |
| 11 | 550 (20) | 1948- | | | 1940- | | 1940- | | | $CO_3$, $HCO_3$, Cl, $SO_4$, $SiO_2$, total diss. solids, conductivity, 1940-. Lake level, 1955-. | |
| 12 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 13 | Oswego, N. Y. | USWB cooperative | variable see data | | | 104 | 112 | |
| 14 | Oswego, N. Y. | U. S. Lake Survey | -- | | | | | |
| 15 | Galloo Is., (Sacketts Hbr.), N. Y. | USCG Lifeboat (4 hrly) | -- | X | X | X | | p 15, 2b |
| 16 | Watertown, N. Y. | USWB Second Order CAA Ap | 10 | X | X | X | X | p 15, 1 |
| 17 | Tibbetts Point (Cape Vincent), N. Y. | USCG Light (4 hrly) | -- | X | X | X | | p 15, 2b |
| 18 | Cape Vincent, N. Y. | USCG Light Attendant (4 hrly) | -- | X | X | X | | p 15, 2b |
| 19 | Cape Vincent, N. Y. | U. S. Lake Survey | -- | | | | | |
| 20 | Kingston, Ontario | CMD c | variable see data | 20 | 20 | 72 | 72 | sunshine, 76 |
| 21 | Kingston, Ontario | CMD II | ** | | | X | X | |
| 22 | Kingston, Ontario | CMD II | ** | | | X | X | |
| 23 | Kingston, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 24 | Main Duck Is., Ontario | CMD c | 10 | 10 | 10 | | | (weather) |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | lake level (cont.) | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
| 19 | | | | | | | | | | lake level (cont.) | |
| 20 | | | | | | | | | | | |
| 21 | | | | | | | | | | | |
| 22 | | | | | | | | | | | |
| 23 | | | | | | | | | | lake level (cont.) | |
| 24 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 25 | Belleville, Ontario | CMD II | variable see data | | | 29 | 29 | sunshine, 25 |
| 26 | Belleville, Ontario | CMD II | 68 | | | 68 | 68 | |
| 27 | Trenton, Ontario | CMD I | ** | X | X | X | X | p 15, 1 |
| 28 | Trenton, Ontario | CMD II | ** | | | X | X | |
| 29 | Cobourg, Ontario | CMD II | variable see data | 24 | 24 | 12 | 12 | |
| 30 | Cobourg, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 31 | Bowmanville, Ontario | CMD II | ** | | | X | X | |
| 32 | Oshawa, Ontario | CMD II | ** | | | X | X | |
| 33 | Toronto, Ontario | Water treatment plant D. P. Scott, Deputy Comm. of Works | variable see data | ca 1948- | | | | |
| 34 | Toronto, Ontario | Hydro-Elec. Power Comm. of Ontario, R. L. Hearn Generating Station, E. D. Holdup, Plant Supt. | variable see data | | | | | |
| 35 | Toronto, Ontario | West Hill CMD III | ** | | | | X | |
| 36 | Toronto, Ontario | Scarborough CMD III | ** | | | | X | |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 25 | | | | | | | | | | | |
| 26 | | | | | | | | | | | |
| 27 | | | | | | | | | | | |
| 28 | | | | | | | | | | | |
| 29 | | | | | | | | | | | |
| 30 | | | | | | | | | | lake level (cont.) | |
| 31 | | | | | | | | | | | |
| 32 | | | | | | | | | | | |
| 33 | before 1918: 3800 (35 1918-pres: 3800 (69) | 1936- | | 1912- | 1925- | 1913- | 1912-17 1922-23 1931 | 1912- | 1914- | plankton, 1922- nitrogen, Cl, diss. $O_2$ (period uncertain) lake level, 1912- | |
| 34 | see remarks | 1952- | | 1955- | 1955- | | 1955- | | | conductivity, 1955- | |
| 35 | | | | | | | | | | | |
| 36 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 37 | Toronto, Ontario | Birchcliffe CMD III | ** | | | | X | |
| 38 | Toronto, Ontario | Admiral Road CMD III | ** | | | | X | |
| 39 | Toronto, Ontario | Balmy Beach CMD III | ** | | | | X | |
| 40 | Toronto, Ontario | Hyde Park CMD III | ** | | | | X | |
| 41 | Toronto, Ontario | Highland CMD II | ** | | | X | X | |
| 42 | Toronto, Ontario | Newtonbrook CMD II | ** | | | X | X | |
| 43 | Toronto, Ontario | CMD I | variable see data | 36 | 36 | 119 | 119 | sunshine, 77 p 15, 1 |
| 44 | Toronto, Ontario | Canadian Hydrographic Service | -- | | | | | |
| 45 | Port Credit, Ontario | CMD II | ** | | | X | X | |
| 46 | Burlington, Ontario | CMD II | ** | | | X | X | |
| 47 | Hamilton, Ontario | Water treatment plant D. H. Matheson, Dir. of Laboratories | variable see data | 1957- | 1957- | 1951- | (X) (gauges op. by City Engrs. Dept.) | |
| 48 | Hamilton, Ontario | CMD III (Gage Park) | ** | | | | X | |
| 49 | Hamilton, Ontario | CMD II (Hamilton) | ** | | | (X) | 58 | |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 37 | | | | | | | | | | | |
| 38 | | | | | | | | | | | |
| 39 | | | | | | | | | | | |
| 40 | | | | | | | | | | | |
| 41 | | | | | | | | | | | |
| 42 | | | | | | | | | | | |
| 43 | | | | | | | | | | | |
| 44 | | | | | | | | | | lake level (cont.) | |
| 45 | | | | | | | | | | | |
| 46 | | | | | | | | | | | |
| 47 | TWO IN-TAKES 2200 (30) 3000 (30) | 1934- | | 1933- | 1933- | 1934- | 1933- | 1933- | 1934- | chem, phys, biol. work on Burlington Bay at intervals since 1935 lake level, 1952- | |
| 48 | | | | | | | | | | | |
| 49 | | | | | | | | | | | |

| No. | Location | Agency and Contact | Period of Record | Meteorological Data | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Wind Dir. | Wind Speed | Air Temp. | Pcpn. | Other |
| 50 | Hamilton, Ontario | CMD I | ** | X | X | X | X | p 15, 1 |
| 51 | Grimsby, Ontario | CMD II | ** | | | X | X | |
| 52 | Grimsby, Ontario | CMD II | ** | | | X | X | |
| 53 | Port Weller, Ontario | Canadian Hydrographic Service | -- | | | | | |

** See Appendix II, p. 160.

| No. | Intake location (ft) | Hydrographic Data | | | | | | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Water temp. | | Alk. | pH | Turb. | Hard. | Bacteria | | Other | |
| | | Raw | Treated | | | | | Coli. | Total | | |
| 50 | | | | | | | | | | | |
| 51 | | | | | | | | | | | |
| 52 | | | | | | | | | | | |
| 53 | | | | | | | | | | lake level (cont.) | |

H. Non-tabulated Data

Information relating to river discharge has not been included in the tabulations. Discharge figures for major streams and rivers tributary to the Great Lakes are obtained from gaugings in both the United States and Canada. In the United States, the responsible agency is the U. S. Geological Survey. Records pertinent to the Great Lakes basin are published yearly in the publication Surface Water Supply of the St. Lawrence River Basin.

In Canada, discharge records are obtained by the Canada Department of Northern Affairs and National Resources, Water Resources Branch. Records are published yearly in Water Resources Papers, which are very similar to those issued by the U. S. Geological Survey.

Both of the above publications are generally two to three years in arrears. More recent data, if desired, are available from individual U. S. Geological Survey offices in the United States, or from the Department of Northern Affairs and National Resources, Water Resources Branch, Ottawa, Ontario.

There are several sources of meteorological data that are not shown in Table 1. Principally, these are data collected by commercial vessels operating on the Lakes. These have not been listed in Table 1 since the data are obtained in varying quantities and locations during the year.

There are approximately 37 commercial lake vessels operated by United States companies and about half that many Canadian commercial vessels that make meteorological measurements when operating more than four miles from shore. These data are transmitted by radio to collection agencies in Canada and the United States for use by marine meteorological personnel and for dissemination over meteorological communications networks.

In addition, there is a smaller number of research and other special purpose vessels which take meteorological data at whatever time they may be conducting operations. This group is comprised of fisheries investigations vessels, U. S. Lake Survey vessels such as the "Williams", the paper mill cruiser operated in northeastern Lake Superior by Colin A. MacMillan of the Marathon Paper Company, and the U. S. Coast Guard cutter "Mackinac." The latter vessel makes six-hourly reports to the U. S. Weather Bureau at Cleveland, Ohio, whenever operating farther than four miles from shore.

Table 2. Inland Data Sources

Table 2 lists all meteorological data sources that were inland from the sources listed in Table 1. An inland source was defined to be suitable for inclusion in Table 2 if it was more than two miles from the nearest Lake shoreline. As was indicated earlier, an irregular area surrounding the Lakes was specified to be important as far as the meteorological effects on the Lakes are concerned. This "area of influence" was selected as the drainage basin of the Great Lakes. The basin has been determined by the U. S. Lakes Survey (see Fig. 7, p. 112).

All data sources in the drainage basin (or watershed) of the Lakes, that could be ascertained by the project, are listed. Tabulations are made geographically by state and province, but alphabetically by stations under each province and state. Accordingly, the geographical coordinates of inland stations are shown in degrees and minutes of arc. The type of data source is indicated in the second column; abbreviations have the following meanings: FO - USWB First Order; SO - USWB Second Order; Co - USWB Cooperative; I - CMD Class I; II, III, and c - CMD Classes II, III, and c, respectively; and R - research facility. Some locations have more than one First Order station. Usually one is located at an airport; hence the abbreviation Ap is used in the tabulations. If the installation is in the city, City is used, and if the facility is military, the following are used: NAS for Naval Air Stations, and AFB for Air Force Bases. The letters CAA and USCG refer to Civil Aeronautics Administration and U. S. Coast Guard facilities, respectively.

With respect to future use of the material compiled in Tables 1 and 2, project personnel adjudged that data sources in close juxtaposition to the watershed boundary, but outside it, should be included in the tabulation. This procedure was justified on the grounds that meteorological events (precipitation, for example), although occurring outside the basin would, nevertheless, be representative of conditions in the immediate vicinity of the basin boundary. The number and locations of extra-basin stations were arbitrarily selected. Here again, the stations outside the watershed used by the U. S. Lake Survey in computation of precipitation regimes for lake level studies were used as a basic group. In addition to these, several First Order and Class I stations were included even though they were located somewhat farther distant than most from the basin boundary. All stations outside the boundary are indicated in Table 2 by an asterisk preceding the location name.

The same system for indicating length of record and parameters measured is used here that was employed in Table 1; that is, the numbers appearing in the columns to the right of the location specifications are years of record. Where it is known that an element is measured but the length of record is not known, "X" appears in the space. All parameters taken that are not specified in the table may be determined by consulting the reference given in the last column to the right.

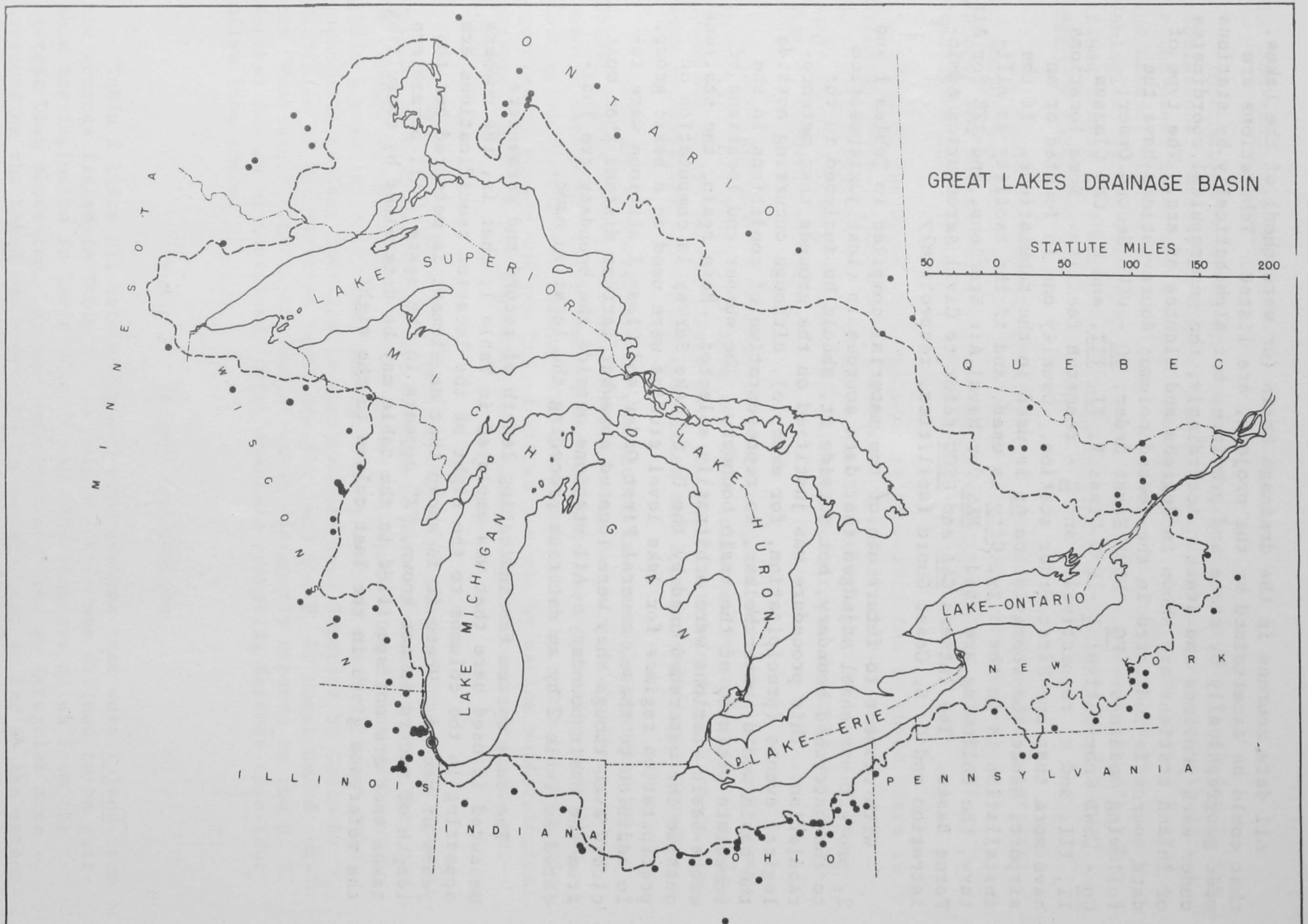


Figure 7. Orientation Chart, Great Lakes Drainage Basin

Table 2. Inland Data Sources

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MINNESOTA | | | | | | | | | | |
| 1 | Co | *Babbitt | 47 | 41 | 91 | 55 | 39 | 38 | 39 | | | |
| 2 | Co | Brimson | 47 | 16 | 91 | 52 | -- | | X | | | |
| 3 | Co | Cloquet Exp. For. | 48 | 42 | 94 | 18 | 48 | 48 | 48 | | | |
| 4 | FO | Duluth Airport | 46 | 50 | 92 | 11 | 18 | 18 | 18 | 18 | 18 | p 15, 1:(18) |
| 5 | Co | Gunflint Lake | 48 | 05 | 90 | 42 | 8 | | 8 | | | |
| 6 | Co | Hibbing Power Substation | 47 | 27 | 92 | 57 | -- | | X | | | |
| 7 | Co | Holyoke | 46 | 28 | 92 | 23 | 16 | | 16 | | | |
| 8 | Co | Isabella 1 mi. W | 47 | 37 | 91 | 22 | 1 | 1 | 1 | | | |
| 9 | Co | Island Lake Reservoir | 46 | 59 | 92 | 14 | -- | | X | | | |
| 10 | Co | Mahoning Mine | 47 | 28 | 92 | 59 | 38 | 37 | 38 | | | |
| 11 | Co | Meadowlands 2 mi. SSW | 47 | 03 | 92 | 45 | 49 | 48 | 49 | | | |
| 12 | Co | *Moose Lake 1 mi. SE | 46 | 27 | 92 | 45 | 37 | 35 | 37 | | | |
| 13 | Co | *Moose Lake Ranger Station | 46 | 27 | 92 | 46 | 30 | | 30 | | | |
| 14 | Co | Virginia OMIC Lab. | 47 | 32 | 92 | 32 | 65 | 65 | 65 | | | |
| 15 | Co | Wales 2 mi. E | 47 | 13 | 91 | 43 | 15 | | 15 | | | |
| 16 | Co | Whiteface Reservoir | 47 | 17 | 92 | 11 | -- | | X | | | |
| | | WISCONSIN | | | | | | | | | | |
| 1 | Co | *Antigo | 45 | 09 | 89 | 09 | 65 | 65 | 65 | | | |
| 2 | Co | Appleton | 44 | 15 | 88 | 23 | 55 | 55 | 55 | | | |
| 3 | Co | Berlin | 43 | 58 | 88 | 57 | 18 | | 18 | | | |
| 4 | Co | Bowler | 44 | 52 | 88 | 59 | 21 | | 21 | | | |
| 5 | Co | Breakwater | 45 | 50 | 88 | 15 | 37 | | 37 | | | |
| 6 | Co | Brillion | 44 | 11 | 88 | 04 | 35 | | 35 | | | |
| 7 | Co | Brule Ranger Sta. | 46 | 32 | 91 | 35 | 28 | | 28 | | | |
| 8 | Co | Brule Island | 45 | 57 | 88 | 13 | 37 | 23 | 37 | | | |
| 9 | Co | *Burnett | 43 | 30 | 88 | 42 | 56 | 56 | 56 | | | |
| 10 | Co | Chilton Sewage Plant | 44 | 02 | 88 | 09 | 32 | 32 | 32 | | | |
| 11 | Co | Clintonville | 44 | 37 | 88 | 45 | 18 | 6 | 18 | | | |
| 12 | Co | *Coddington 1 mi. E | 44 | 22 | 89 | 32 | 38 | 38 | 38 | | | |
| 13 | Co | Crivitz High Falls | 45 | 17 | 88 | 12 | 48 | 48 | 48 | | | |
| 14 | Co | Dalton | 43 | 39 | 89 | 12 | 14 | 14 | 14 | | | |
| 15 | Co | Drummond | 46 | 20 | 91 | 15 | 16 | | 16 | | | |
| 16 | Co | Eldurado 1 mi. SE | 43 | 48 | 88 | 37 | 20 | 20 | 20 | | | |
| 17 | Co | *Flambeau Reservoir | 46 | 04 | 90 | 14 | 33 | | 33 | | | |
| 18 | Co | Fond du Lac | 43 | 47 | 88 | 27 | 73 | 73 | 73 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | WISCONSIN cont. | | | | | | | | | | |
| 19 | Co | Germantown 2 mi. W | 43 | 13 | 88 | 09 | 15 | 15 | 15 | | | |
| 20 | FO | Green Bay Airport | 44 | 29 | 88 | 08 | 72 | 72 | 72 | 72 | 72 | p 15, 1:(72) |
| 21 | Co | Gurney | 46 | 28 | 90 | 30 | 6 | 6 | 6 | | | |
| 22 | Co | Hancock Exp. Farm | 44 | 07 | 89 | 32 | 67 | 67 | 67 | | | |
| 23 | Co | *Hayward Ranger Station | 46 | 00 | 91 | 29 | 27 | | 27 | | | |
| 24 | Co | Lac Vieux Desert | 46 | 08 | 89 | 08 | 14 | | 14 | | | |
| 25 | Co | *Lake Geneva | 42 | 36 | 88 | 26 | 14 | 14 | 14 | | | |
| 26 | Co | Laona 4 mi. SSW | 45 | 30 | 88 | 42 | 29 | 28 | 29 | | | |
| 27 | Co | Lily | 45 | 19 | 88 | 51 | 17 | | 17 | | | |
| 28 | Co | Longlake Dam | 45 | 54 | 89 | 08 | 51 | 51 | 51 | | | |
| 29 | FO | *Madison Airport | 43 | 08 | 89 | 20 | 19 | 19 | 19 | 19 | 19 | p 15, 1:(19) |
| 30 | FO | *Madison City | 43 | 05 | 89 | 24 | 90 | 90 | 90 | 90 | 90 | p 15, 1:(90) |
| 31 | FO | *Madison Truax AFB | 43 | 18 | 89 | 21 | -- | X | X | X | X | p 15, 1:(X) |
| 32 | Co | Mellen 2 mi. N | 46 | 21 | 90 | 37 | 33 | 33 | 33 | | | |
| 33 | Co | Mercer Ranger Sta. | 46 | 10 | 90 | 04 | 25 | | 25 | | | |
| 34 | FO | Milwaukee Ap. | 42 | 57 | 87 | 54 | 31 | 31 | 31 | 31 | 31 | p 15, 1:(31) |
| 35 | Co | Montello | 43 | 48 | 89 | 19 | 63 | 51 | 63 | | | |
| 36 | Co | New London | 44 | 23 | 88 | 44 | 63 | 63 | 63 | | | |
| 37 | Co | *Oconomowoc 1 mi. SW | 43 | 06 | 88 | 31 | 20 | 20 | 20 | | | |
| 38 | Co | Oshkosh | 44 | 03 | 88 | 32 | 70 | 70 | 70 | | | |
| 39 | SO | *Park Falls | 45 | 56 | 90 | 27 | 48 | 48 | 48 | X | X | p 15, 1:(X) |
| 40 | Co | Peshtigo | 45 | 04 | 87 | 44 | 13 | | 13 | | | |
| 41 | Co | *Phelps Deerskin Dam | 46 | 03 | 89 | 02 | 49 | | 49 | | | |
| 42 | Co | Pine River 3 mi. NE | 44 | 11 | 89 | 02 | 7 | 7 | 7 | | | |
| 43 | Co | Plymouth | 43 | 45 | 87 | 59 | 49 | 49 | 49 | | | |
| 44 | Co | Portage | 43 | 32 | 89 | 27 | 70 | 66 | 70 | | | |
| 45 | Co | Rest Lake | 46 | 08 | 89 | 53 | 49 | 49 | 49 | | | |
| 46 | Co | *Rhinelander | 45 | 38 | 89 | 25 | 57 | 54 | 57 | | | |
| 47 | Co | Ripon 5 mi. NE | 43 | 52 | 88 | 45 | -- | | X | | | |
| 48 | Co | Rosholt Collins | 44 | 36 | 89 | 20 | 18 | X | 18 | | | |
| 49 | Co | Shawano | 44 | 47 | 88 | 37 | 63 | 63 | 63 | | | |
| 50 | Co | Solon Springs | 46 | 21 | 91 | 49 | 53 | 53 | 53 | | | |
| 51 | Co | South Pelican | 45 | 32 | 89 | 12 | 14 | | 14 | | | |
| 52 | Co | *Stevens Point | 44 | 30 | 89 | 34 | 66 | 66 | 66 | | | |
| 53 | Co | Summit Lake Ranger Station | 45 | 23 | 89 | 12 | 19 | | 19 | | | |
| 54 | Co | Townsend | 45 | 20 | 88 | 35 | 14 | 14 | 14 | | | |
| 55 | Co | *Union Grove | 42 | 42 | 88 | 03 | 18 | | 18 | | | |
| 56 | Co | Waupaca | 44 | 22 | 89 | 05 | 64 | 63 | 64 | | | |
| 57 | Co | *Wausau | 44 | 59 | 89 | 39 | 14 | | 14 | | | |
| 58 | SO | *Wausau CAA Ap. | 44 | 55 | 89 | 37 | 64 | 64 | 64 | X | X | p 15, 1:(X) |
| 59 | Co | *Wausau Old P.O. | 44 | 57 | 89 | 38 | 25 | 25 | 25 | | | |
| 60 | Co | Wausaukee | 45 | 23 | 87 | 57 | 26 | | 26 | | | |
| 61 | Co | West Allis | 43 | 01 | 87 | 59 | 7 | 7 | 7 | | | |
| 62 | Co | West Bend | 43 | 25 | 88 | 11 | 45 | 45 | 45 | | | |
| 63 | Co | *Wisconsin Dells | 43 | 38 | 89 | 47 | 36 | 36 | 36 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:rys) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ILLINOIS | | | | | | | | | | |
| 1 | Co | *Antioch | 42 | 29 | 88 | 06 | 38 | 38 | 38 | | | |
| 2 | Co | *Arlington Hgts. 4 mi. SSE | 42 | 02 | 87 | 58 | 8 | | 8 | | | |
| 3 | Co | *Chicago Calumet Treatment Works | 41 | 40 | 87 | 36 | 21 | | 21 | | | |
| 4 | Co | *Chgo Mayfair Pmpg. Station | 41 | 58 | 87 | 45 | 32 | | 32 | | | |
| 5 | Co | *Chgo N. Br. Pmpg. Station | 41 | 58 | 87 | 42 | 25 | | 25 | | | |
| 6 | Co | *Chgo Roseland Pmpg. Station | 41 | 42 | 87 | 38 | 32 | | 32 | | | |
| 7 | Co | *Chgo San. Dist. Disp. Plant | 41 | 50 | 87 | 42 | 27 | | 27 | | | |
| 8 | Co | *Chgo Springfield Pmpg. Station | 41 | 55 | 87 | 44 | 32 | | 32 | | | |
| 9 | FO | *Chicago Midway Airport | 41 | 47 | 87 | 45 | 30 | 30 | 30 | 30 | 30 | p 15, 1:(30) |
| 10 | FO | *Chicago O'Hare Airport | 42 | 00 | 87 | 53 | -- | X | X | X | X | p 15, 1:(X) |
| 11 | Co | *Elgin | 42 | 02 | 88 | 17 | 51 | | 51 | | | |
| 12 | FO | *Glenview NAS | 42 | 05 | 87 | 49 | 15 | 15 | 15 | 15 | 15 | p 15, 1:(X) |
| 13 | Co | *Joliet Brandon Rd. | 41 | 30 | 88 | 06 | 67 | | 67 | | | |
| 14 | SO | *Joliet CAA Ap. | 41 | 36 | 88 | 05 | -- | X | X | X | X | p 15, 1:(X) |
| 15 | Co | *Joliet | 41 | 32 | 88 | 05 | 17 | 16 | 17 | | | |
| 16 | R | *Lemont Argonne National Lab. | 41 | 40 | 88 | 00 | 10 | 10 | 10 | 10 | 10 | radiation, micrometeorological measurements (10) |
| 17 | Co | *McHenry | 42 | 21 | 88 | 16 | 19 | | 19 | | | |
| 18 | Co | *McHenry 2 mi. S | 42 | 19 | 88 | 15 | 17 | | 17 | | | |
| 19 | Co | *Peotone | 41 | 20 | 87 | 48 | 18 | | 18 | | | |
| 20 | Co | *Wheaton College | 41 | 52 | 88 | 06 | 30 | X | 30 | | | |
| 21 | Co | *Skokie | 42 | 02 | 87 | 45 | 4 | 4 | 4 | | | |
| 22 | Co | *Skokie N. Side Treatment Works | 42 | 01 | 87 | 43 | -- | | X | | | |
| | | INDIANA | | | | | | | | | | |
| 1 | Co | Angola | 41 | 38 | 85 | 00 | 60 | 60 | 60 | | | |
| 2 | Co | Berne | 40 | 40 | 84 | 57 | 48 | 48 | 48 | | | |
| 3 | Co | *Bluffton | 40 | 44 | 85 | 11 | 62 | | 62 | | | |
| 4 | Co | *Bluffton Sewage Plant | 40 | 45 | 85 | 11 | 18 | | 18 | | | |
| 5 | Co | *Bluffton Water Works | 40 | 44 | 85 | 10 | 10 | X | 10 | | | |
| 6 | Co | *Columbia City | 41 | 09 | 85 | 29 | 56 | 21 | 56 | | | |
| 7 | Co | *Columbia City 1 mi. S | 41 | 08 | 85 | 29 | 18 | | 18 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | INDIANA cont. | | | | | | | | | | |
| 8 | Co | Decatur | 40 | 51 | 84 | 56 | 27 | | 27 | | | |
| 9 | Co | Elkhart | 41 | 41 | 85 | 58 | 8 | | 8 | | | |
| 10 | Co | Ft. Wayne Disposal Plant | 41 | 06 | 85 | 07 | 13 | | 13 | | | |
| 11 | FO | Ft. Wayne Airport | 41 | 00 | 85 | 12 | 47 | 47 | 47 | 47 | 47 | p 15, 1:(47) |
| 12 | Co | Fremont | 41 | 44 | 84 | 56 | 9 | | 9 | | | |
| 13 | SO | Goshen CAA Airport | 41 | 32 | 85 | 48 | 18 | X | 18 | X | X | p 15, 1:(X) |
| 14 | Co | Goshen College | 41 | 34 | 85 | 50 | 44 | 44 | 44 | | | |
| 15 | Co | Hobart | 41 | 32 | 87 | 15 | 39 | 39 | 39 | | | |
| 16 | Co | Kendallville | 41 | 27 | 85 | 15 | 12 | 12 | 12 | | | |
| 17 | Co | Kendallville | 41 | 26 | 85 | 16 | 18 | | 18 | | | |
| 18 | Co | Lagrange | 41 | 39 | 85 | 25 | 18 | | 18 | | | |
| 19 | Co | La Porte | 41 | 36 | 86 | 43 | 64 | 61 | 64 | | | |
| 20 | Co | Monroeville 3 mi. ENE | 40 | 59 | 84 | 49 | 18 | | 18 | | | |
| 21 | Co | *Plymouth Power Substation | 41 | 20 | 86 | 20 | 54 | 53 | 54 | | | |
| 22 | FO | South Bend Airport | 41 | 42 | 86 | 19 | 71 | 65 | 71 | 65 | 65 | p 15, 1:(65) |
| 23 | Co | Valparaiso Water Works | 41 | 31 | 87 | 02 | 59 | 58 | 59 | X | | evaporation (X) |
| 24 | Co | Waterloo | 41 | 25 | 85 | 02 | 21 | 19 | 21 | | | |
| 25 | Co | Waterloo Highway Garage | 41 | 26 | 85 | 01 | 18 | | 18 | | | |
| 26 | Co | *Wheatfield | 41 | 11 | 87 | 04 | 41 | 41 | 41 | | | |
| | | MICHIGAN | | | | | | | | | | |
| 1 | Co | Adrian | 41 | 54 | 84 | 02 | 81 | 81 | 81 | | | |
| 2 | Co | Alberta Ford Forestry Court | 46 | 39 | 88 | 29 | 1 | 1 | 1 | | | |
| 3 | Co | Albion Rice Creek Station | 42 | 17 | 84 | 46 | 49 | | 49 | | | |
| 4 | Co | Allegan Sewage Pl. | 42 | 32 | 85 | 51 | 70 | 70 | 70 | | | |
| 5 | Co | Alma | 43 | 23 | 84 | 40 | 72 | 72 | 72 | | | |
| 6 | Co | Ann Arbor Univ. Sta. | 42 | 17 | 83 | 44 | 79 | 79 | 79 | 1 | | suns., press. (2) |
| 7 | Co | Atlanta 3 mi. ENE | 45 | 01 | 84 | 06 | 32 | 32 | 32 | | | |
| 8 | Co | Bad Axe | 43 | 48 | 83 | 01 | 34 | 34 | 34 | | | |
| 9 | Co | Baldwin St. Forest | 43 | 54 | 85 | 51 | 31 | 31 | 31 | | | |
| 10 | SO | Battle Creek Ap. | 42 | 18 | 85 | 14 | 75 | 75 | 75 | X | X | p 15, 1:(X) |
| 11 | Co | Beavertown Pwr. Pl. | 43 | 53 | 84 | 29 | 11 | | 11 | | | |
| 12 | Co | Beechwood 7 mi. WNW | 46 | 11 | 88 | 53 | -- | X | X | | | |
| 13 | Co | Bellaire Hydro. Plant | 44 | 59 | 85 | 12 | 13 | | 13 | | | |
| 14 | Co | Bergland Hydro. Plant | 46 | 35 | 89 | 33 | 35 | 26 | 35 | | | |
| 15 | Co | Big Rapids Water Works | 43 | 42 | 85 | 29 | 63 | 63 | 63 | | | |
| 16 | Co | Bloomingdale | 42 | 23 | 85 | 57 | -- | X | X | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MICHIGAN cont. | | | | | | | | | | |
| 17 | Co | Boyne Falls St. Nursery | 45 | 13 | 84 | 48 | -- | X | X | | | |
| 18 | Co | Burnside 1 mi. E | 43 | 12 | 83 | 03 | 16 | | 16 | | | |
| 19 | Co | Cadillac Water Works | 44 | 15 | 85 | 24 | 50 | 50 | 50 | | | |
| 20 | Co | Caro State Hosp. | 43 | 27 | 83 | 24 | 31 | 31 | 31 | | | |
| 21 | Co | Casnovia 1 mi. N | 43 | 15 | 85 | 48 | 16 | | 16 | | | |
| 22 | Co | Champion Van Riper Park | 46 | 31 | 87 | 59 | -- | X | X | | | |
| 23 | Co | Charlotte | 42 | 32 | 84 | 50 | 55 | 55 | 55 | | | |
| 24 | Co | Chatham Exp. Farm | 46 | 21 | 86 | 56 | 58 | 55 | 58 | | | |
| 25 | Co | Coldwater St. Sch | 41 | 57 | 85 | 00 | 68 | 68 | 68 | | | |
| 26 | Co | Coldwater Sewage Treatment Plant | 41 | 56 | 85 | 01 | -- | | X | | | |
| 27 | Co | Crystal Falls 6 mi. NE | 46 | 10 | 88 | 14 | 16 | | 16 | | | |
| 28 | Co | Dearborn | 42 | 18 | 83 | 14 | 6 | 6 | 6 | 6 | | evaporation (6) |
| 29 | FO | Detroit City Ap. | 42 | 24 | 83 | 00 | 88 | 88 | 88 | 88 | 88 | p 15, 1:(88) |
| 30 | FO | Detroit Wayne Co. Airport | 42 | 13 | 83 | 19 | 5 | | | | 5 | ceiling, visibility(5) |
| 31 | FO | Detroit Willow Run Airport | 42 | 14 | 83 | 32 | 8 | 8 | 8 | 8 | 8 | p 15, 1:(8) |
| 32 | R | Detroit Int'l Joint Comm. Res. | 42 | 28 | 83 | 14 | 3 | 3 | | | | lapse rate to 870 ft (3) |
| 33 | Co | Dowagiac | 41 | 59 | 86 | 07 | 5 | 5 | 5 | | | |
| 34 | Co | East Jordan | 45 | 10 | 85 | 07 | 33 | 33 | 33 | 33 | 33 | |
| 35 | Co | East Lansing Exp. Farm | 42 | 42 | 84 | 28 | -- | X | X | X | | evaporation (X) |
| 36 | FO | East Lansing | 42 | 44 | 84 | 29 | 48 | 48 | 48 | 48 | 48 | p 15, 1:(48) |
| 37 | Co | East Lansing Hort. Farm | 42 | 43 | 84 | 28 | 1 | 1 | 1 | 1 | | evaporation (1) |
| 38 | Co | Eaton Rapids | 42 | 31 | 84 | 39 | 39 | | 39 | | | |
| 39 | Co | Eau Claire 4 mi. NE | 42 | 01 | 86 | 15 | 35 | 35 | 35 | | | |
| 40 | Co | Edmore | 43 | 24 | 85 | 02 | 5 | | 5 | | | |
| 41 | Co | Evart | 43 | 54 | 85 | 16 | 7 | 7 | 7 | | | |
| 42 | Co | Ewen | 46 | 32 | 89 | 16 | 16 | | 16 | | | |
| 43 | Co | Fife Lake 2 mi. S | 44 | 33 | 85 | 21 | 40 | 40 | 40 | | | |
| 44 | FO | Flint Airport | 42 | 58 | 83 | 44 | 70 | 70 | 70 | 21 | 21 | p 15, 1:(21) |
| 45 | Co | Freesoil 4 mi. SW | 44 | 04 | 86 | 17 | 16 | | 16 | | | |
| 46 | Co | Gaylord Cons. Dpt. | 45 | 02 | 84 | 41 | 49 | 39 | 49 | | | |
| 47 | Co | Germfask Wildlife Refuge | 46 | 17 | 85 | 57 | 19 | 19 | 19 | X | | evaporation (X) |
| 48 | SO | Gladwin CAA Ap. | 43 | 59 | 84 | 29 | 54 | 54 | 54 | X | X | p 15, 1:(X) |
| 49 | Co | Glennie Alcona Dam | 44 | 56 | 85 | 55 | 11 | | 11 | | | |
| 50 | Co | Grand Haven Fire Dept. | 44 | 34 | 83 | 48 | 88 | 88 | 88 | | | |
| 51 | Co | Grand Ledge | 42 | 45 | 84 | 46 | 41 | | 41 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MICHIGAN cont. | | | | | | | | | | |
| 52 | FO | Grand Rapids Ap. | 42 | 54 | 85 | 40 | 109 | 109 | 104 | 109 | 109 | p 15, 1:(98) |
| 53 | Co | Grayling Military Reservation | 44 | 38 | 84 | 47 | 69 | 69 | 69 | | | |
| 54 | Co | Greenville | 43 | 11 | 85 | 15 | 46 | 46 | 46 | | | |
| 55 | Co | Gull Lake Exp. Farm | 42 | 24 | 85 | 23 | 30 | 30 | 30 | | | |
| 56 | Co | Gwinn | 46 | 17 | 87 | 27 | -- | | X | | | |
| 57 | Co | Hale Five Channels Dam | 44 | 28 | 83 | 41 | 46 | 46 | 46 | | | |
| 58 | Co | Harrison | 44 | 01 | 84 | 48 | 52 | | 52 | | | |
| 59 | Co | Hart | 43 | 42 | 86 | 22 | 69 | 69 | 69 | | | |
| 60 | Co | Hastings Fisher. | 42 | 39 | 85 | 18 | 66 | 66 | 66 | | | |
| 61 | Co | Hesperia | 43 | 34 | 86 | 02 | 22 | 13 | 22 | | | |
| 62 | Co | Higgins Lake | 44 | 31 | 84 | 45 | 58 | 58 | 58 | | | |
| 63 | Co | Hillsdale | 41 | 55 | 84 | 38 | 71 | 62 | 71 | | | |
| 64 | Co | Holland | 42 | 47 | 86 | 07 | 54 | 54 | 54 | | | |
| 65 | SO | Houghton CAA Ap. | 47 | 10 | 88 | 30 | 6 | 6 | 6 | X | X | p 15, 1:(X) |
| 66 | R | Houghton Univ. of Michigan res. | 47 | 14 | 88 | 29 | 1 | 1 | 1 | 1 | | snow depth (1); radiation, humd. and press. (1) |
| 67 | R | Houghton U.S. Army Sig. Corps | 47 | 12 | 88 | 30 | 5 | 5 | 5 | 5 | 5 | min. and max. temp., hum., (5) |
| 68 | Co | Houghton Lake 3 mi. NW | 44 | 20 | 84 | 49 | 44 | 44 | 44 | | | |
| 69 | Co | Howell Sewage Pl. | 42 | 36 | 83 | 56 | 53 | | 53 | | | |
| 70 | Co | Howell 7 mi. NE | 42 | 42 | 83 | 53 | 9 | | 9 | | | |
| 71 | Co | Hubbard Lake Dam | 44 | 51 | 83 | 36 | -- | | X | | | |
| 72 | Co | Interlochen State Park | 44 | 38 | 85 | 46 | 16 | | 16 | | | |
| 73 | Co | Ionia Gas Plant | 42 | 59 | 85 | 04 | 28 | 28 | 28 | | | |
| 74 | Co | Iron Mtn. Water Works | 45 | 50 | 88 | 04 | 59 | 59 | 59 | | | |
| 75 | Co | Ironwood | 46 | 27 | 90 | 10 | 57 | 57 | 57 | | | |
| 76 | Co | Ishpeming | 46 | 29 | 87 | 39 | 60 | 60 | 60 | | | |
| 77 | SO | Jackson CAA Ap. | 42 | 16 | 84 | 28 | 62 | 62 | 62 | X | X | p 15, 1:(X) |
| 78 | Co | Jackson 3 mi. N | 42 | 17 | 84 | 24 | 18 | | 18 | | | |
| 79 | Co | Kalamazoo Power Plant | 42 | 18 | 85 | 34 | 18 | | 18 | | | |
| 80 | Co | Kalamazoo State Hospital | 42 | 17 | 85 | 36 | 83 | 83 | 83 | | | |
| 81 | Co | Kalkaska | 44 | 44 | 85 | 10 | 19 | | 19 | | | |
| 82 | Co | Kent City 2 mi. SW | 43 | 12 | 85 | 46 | 39 | | 39 | | | |
| 83 | Co | Kenton U.S. For. | 46 | 29 | 88 | 53 | 18 | 18 | 18 | | | |
| 84 | FO | Kinross AFB | 46 | 15 | 84 | 28 | 5 | 5 | 5 | X | X | p 15, 1:(X) |
| 85 | Co | Lapeer | 43 | 03 | 83 | 20 | -- | X | 15 | | | |
| 86 | Co | Lowell 5 mi. NW | 42 | 59 | 85 | 25 | 44 | | 44 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MICHIGAN cont. | | | | | | | | | | |
| 87 | Co | Lupton | 44 | 26 | 84 | 02 | 8 | | 8 | | | |
| 88 | Co | Lupton 1 mi. SW | 44 | 25 | 84 | 02 | 7 | 7 | 7 | 7 | | evaporation (7) |
| 89 | Co | Millington 3 mi. SW | 43 | 14 | 83 | 34 | 57 | | 57 | | | |
| 90 | Co | Mio Hydro. Plant | 44 | 40 | 84 | 08 | 55 | 55 | 55 | | | |
| 91 | Co | Montague | 43 | 25 | 86 | 22 | 8 | 8 | 8 | | | |
| 92 | Co | Montague 2 mi. N | 43 | 27 | 86 | 21 | 16 | | 16 | | | |
| 93 | Co | Mt. Pleasant Col. | 43 | 36 | 84 | 47 | 58 | 58 | 58 | | | |
| 94 | Co | Newaygo Croton Dam | 43 | 27 | 85 | 40 | 51 | 51 | 51 | | | |
| 95 | Co | Newberry State Hospital | 46 | 20 | 85 | 30 | 60 | 60 | 60 | | | |
| 96 | Co | Niles | 41 | 51 | 86 | 16 | 2 | | 2 | | | |
| 97 | FO | Oscoda AFB | 44 | 28 | 83 | 22 | -- | X | X | X | X | p 15, 1:(X) |
| 98 | Co | Onaway Black L. Forest | 45 | 25 | 84 | 14 | 15 | | 15 | | | |
| 99 | Co | Owosso Swg. Plant | 43 | 01 | 84 | 11 | 63 | 63 | 63 | | | |
| 100 | Co | Paw Paw 2 mi. E | 42 | 13 | 85 | 51 | 38 | 38 | 38 | | | |
| 101 | SO | Pelston CAA Ap. | 45 | 34 | 84 | 48 | 17 | 17 | 17 | X | X | p 15, 1:(X) |
| 102 | Co | Pontiac | 42 | 39 | 83 | 18 | 71 | 71 | 66 | | | |
| 103 | Co | Rexton | 46 | 10 | 85 | 15 | 6 | 6 | 6 | | | |
| 104 | Co | Rock | 46 | 04 | 87 | 10 | 18 | | 18 | | | |
| 105 | Co | Romeo 1 mi. N | 42 | 49 | 83 | 01 | 24 | | 24 | | | |
| 106 | Co | Roscommon Forest Exp. Station | 44 | 28 | 84 | 35 | -- | | X | | | |
| 107 | Co | Rose City | 44 | 26 | 84 | 07 | 8 | | 8 | | | |
| 108 | Co | Saginaw Center Radio Station | 43 | 29 | 84 | 02 | 3 | 3 | 3 | | | |
| 109 | SO | Saginaw-Midland-Bay City CAA Ap. | 43 | 32 | 84 | 05 | 62 | 62 | 62 | X | X | p 15, 1:(X) |
| 110 | Co | St. Charles | 43 | 18 | 84 | 08 | 17 | 6 | 17 | | | |
| 111 | Co | St. Johns 5 mi. NNW | 43 | 04 | 84 | 35 | 38 | 38 | 35 | | | |
| 112 | Co | Sandusky | 43 | 25 | 82 | 50 | 40 | 40 | 40 | | | |
| 113 | Co | Scottville 1 mi. NE | 43 | 58 | 86 | 16 | 34 | | 34 | | | |
| 114 | Co | Sebewaing 3 mi. E | 43 | 44 | 83 | 23 | 17 | | 17 | | | |
| 115 | Co | Spalding | 43 | 43 | 83 | 27 | 5 | | 5 | | | |
| 116 | Co | Stambaugh | 46 | 05 | 88 | 38 | 63 | 63 | 63 | | | |
| 117 | Co | Standish 2 mi. S | 43 | 57 | 83 | 58 | 25 | 25 | 25 | | | |
| 118 | Co | Stanton | 43 | 17 | 85 | 04 | 3 | | 3 | | | |
| 119 | Co | Stephenson 5 mi. W | 45 | 24 | 87 | 43 | -- | X | 19 | | | |
| 120 | Co | Steuben 2 mi. WNW | 46 | 12 | 86 | 30 | 19 | | 19 | | | |
| 121 | Co | Suttons Bay 4 mi. NW | 45 | 01 | 85 | 42 | 19 | | 19 | | | |
| 122 | Co | Thompsonville | 44 | 31 | 85 | 56 | 19 | | 19 | | | |
| 123 | Co | Three Rivers | 41 | 56 | 85 | 38 | 62 | 62 | 62 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MICHIGAN cont. | | | | | | | | | | |
| 124 | Co | Trout Lake 2 mi. ESE | 46 | 11 | 84 | 59 | -- | | X | | | |
| 125 | Co | Vanderbilt Trout Station | 45 | 10 | 84 | 27 | 46 | 46 | 46 | | | |
| 126 | Co | Wakefield | 45 | 29 | 89 | 55 | 16 | | 16 | | | |
| 127 | Co | Watersmeet Fish Hatchery | 46 | 18 | 89 | 05 | 20 | 20 | 20 | | | |
| 128 | Co | Wellston Tippey Dam | 44 | 15 | 85 | 57 | 38 | | 38 | | | |
| 129 | Co | West Branch State Forest | 44 | 20 | 84 | 17 | 56 | | 56 | | | |
| 130 | Co | Williamston 1 mi. NE | 42 | 41 | 84 | 16 | 22 | | 22 | | | |
| 131 | Co | Willis 1 mi. NE | 42 | 05 | 83 | 35 | 29 | 29 | 29 | | | |
| 132 | Co | Yale | 43 | 08 | 82 | 48 | 32 | | 32 | | | |
| | | OHIO | | | | | | | | | | |
| 1 | FO | *Akron-Canton Ap. | 40 | 55 | 81 | 26 | 11 | 11 | 11 | 11 | 11 | p 15, 1:(11) |
| 2 | FO | *Akron Municipal Airport | 41 | 02 | 81 | 27 | 30 | 30 | 30 | 25 | 25 | p 15, 1:(25) |
| 3 | Co | *Akron Swg. Wks. | 41 | 09 | 81 | 34 | 1 | | 1 | | | |
| 4 | Co | *APCO Ravenna Arsenal | 41 | 10 | 81 | 05 | 11 | 11 | 11 | | | |
| 5 | Co | *Ashland 2 mi.ENE | 40 | 54 | 82 | 18 | 49 | | 49 | | | |
| 6 | Co | *Ashland 3 mi. NW | 40 | 53 | 82 | 22 | 58 | 56 | 58 | | | |
| 7 | Co | Ashtabula | 41 | 51 | 80 | 48 | 8 | 8 | 8 | | | |
| 8 | Co | Botzum Swg. Plant | 41 | 09 | 81 | 34 | 18 | | 18 | | | |
| 9 | Co | Bowling Green Sewage Plant | 41 | 23 | 83 | 38 | 77 | 64 | 77 | | | |
| 10 | Co | Bucyrus Swg. Pl. | 40 | 48 | 82 | 58 | 65 | 63 | 65 | | | |
| 11 | Co | Burton | 41 | 29 | 81 | 09 | 9 | | 9 | | | |
| 12 | Co | *Canton Reposi-tory | 40 | 48 | 81 | 23 | 6 | 6 | 6 | | | |
| 13 | Co | *Canton Hwy. Dpt. | 40 | 48 | 81 | 22 | 19 | | 19 | | | |
| 14 | Co | Chardon | 41 | 35 | 81 | 12 | 13 | 13 | 13 | | | |
| 15 | Co | *Charles Mill Dam | 40 | 44 | 82 | 22 | 18 | 18 | 18 | X | | evaporation (X) |
| 16 | Co | *Chippewa Lake | 41 | 05 | 81 | 54 | 63 | 63 | 63 | | | |
| 17 | FO | Cleveland Airport | 41 | 24 | 81 | 51 | 32 | 32 | 32 | 32 | 32 | p 15, 1:(32) |
| 18 | FO | Cleveland City | 41 | 30 | 81 | 42 | 88 | 88 | 88 | 88 | 88 | p 15, 1:(88) |
| 19 | Co | *Columbus Ohio State Univ. | 40 | 00 | 83 | 01 | 74 | 74 | 74 | X | | evaporation (X) |
| 20 | Co | *Columbus Sullivant Ave. | 39 | 56 | 83 | 05 | 8 | 8 | 8 | | | |
| 21 | Co | *Columbus Valley Cross | 39 | 56 | 82 | 57 | 42 | 42 | 42 | | | |
| 22 | FO | *Columbus Airport | 40 | 00 | 82 | 53 | 28 | 28 | 28 | 28 | 28 | p 15, 1:(28) |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OHIO cont. | | | | | | | | | | |
| 23 | FO | *Columbus City | 39 | 58 | 83 | 00 | 79 | 79 | 79 | 79 | 79 | p 15, 1:(79) |
| 24 | Co | *Dayton | 39 | 45 | 84 | 10 | 23 | 23 | 23 | X | | evaporation (X) |
| 25 | FO | *Dayton Airport | 39 | 54 | 84 | 12 | 28 | 28 | 28 | 28 | 28 | p 15, 1:(28) |
| 26 | Co | Defiance | 41 | 17 | 84 | 23 | 54 | 48 | 54 | | | |
| 27 | Co | Defiance Pwr. Pl. | 41 | 17 | 84 | 28 | 17 | | 17 | | | |
| 28 | Co | Dorset 2 mi. E | 41 | 41 | 80 | 38 | 2 | 2 | 2 | | | |
| 29 | Co | Edgerton | 41 | 27 | 84 | 44 | 17 | | 17 | | | |
| 30 | Co | *Ellsworth | 41 | 01 | 80 | 51 | 43 | | 43 | | | |
| 31 | Co | Elyria 3 mi. E | 41 | 23 | 82 | 04 | 10 | 10 | 10 | | | |
| 32 | SO | Findlay CAA Ap. | 41 | 01 | 83 | 40 | 17 | X | 17 | X | X | p 15, 1:(X) |
| 33 | Co | Findlay Swg. Pl. | 41 | 03 | 83 | 40 | 69 | 69 | 69 | | | |
| 34 | Co | Fremont | 41 | 20 | 83 | 07 | 18 | 6 | 18 | | | |
| 35 | Co | *Galion Wtr. Wks. | 40 | 43 | 82 | 47 | 12 | | 12 | | | |
| 36 | Co | *Hiram | 41 | 19 | 81 | 09 | 78 | 74 | 78 | | | |
| 37 | Co | Hoytville 2 mi. NE | 41 | 12 | 83 | 47 | 7 | 7 | 7 | | | |
| 38 | Co | Kenton Ohio Pwr. Co. | 40 | 38 | 83 | 37 | 17 | | 17 | | | |
| 39 | Co | *Kenton 2 mi. W | 40 | 39 | 83 | 39 | 66 | 65 | 66 | | | |
| 40 | Co | *Lakeview 3 mi. NE | 40 | 32 | 83 | 54 | 42 | | 42 | | | |
| 41 | Co | *La Rue | 40 | 34 | 83 | 23 | 40 | | 40 | | | |
| 42 | Co | Lima Swg. Plant | 40 | 43 | 84 | 07 | 59 | 56 | 59 | | | |
| 43 | Co | Lima Water Works | 40 | 45 | 84 | 05 | 17 | | 17 | | | |
| 44 | R | Lima Standard Oil Co. | 40 | 44 | 84 | 08 | -- | X | X | X | | |
| 45 | Co | *Louisville | 40 | 50 | 81 | 16 | 12 | | 12 | | | |
| 46 | Co | Lyons High School | 41 | 42 | 84 | 04 | 18 | | 18 | | | |
| 47 | Co | *Mansfield 6 mi. W | 40 | 45 | 82 | 38 | 59 | 39 | 59 | | | |
| 48 | SO | Mansfield CAA Ap. | 40 | 47 | 82 | 32 | -- | X | X | X | X | p 15, 1:(X) |
| 49 | Co | *Marion Wtr. Wks. | 40 | 36 | 83 | 10 | 15 | X | 15 | | | |
| 50 | Co | *Marshallville | 40 | 54 | 81 | 43 | 10 | | 10 | | | |
| 51 | Co | Montpelier | 41 | 35 | 84 | 36 | 67 | 56 | 67 | | | |
| 52 | Co | Napoleon | 41 | 23 | 84 | 07 | 72 | 64 | 72 | | | |
| 53 | Co | Norwalk | 41 | 15 | 82 | 37 | 74 | 64 | 74 | | | |
| 54 | Co | Oberlin | 41 | 17 | 82 | 13 | 82 | 74 | 82 | | | |
| 55 | Co | Painesville Hwy. Department | 41 | 43 | 81 | 13 | 19 | | 19 | | | |
| 56 | Co | Pandora 2 mi. NE | 40 | 58 | 83 | 51 | 17 | 17 | 17 | | | |
| 57 | Co | Paulding | 41 | 08 | 84 | 35 | 68 | 63 | 68 | | | |
| 58 | Co | Plymouth | 41 | 00 | 82 | 40 | 25 | 25 | 25 | | | |
| 59 | Co | Rockford 5 mi. WNW | 40 | 42 | 84 | 45 | 4 | | 4 | | | |
| 60 | Co | Rockford 0.3 mi. W | 40 | 38 | 84 | 48 | 19 | | 19 | | | |
| 61 | Co | St. Marys 2 mi. W | 40 | 32 | 84 | 25 | 20 | | 20 | | | |
| 62 | Co | St. Marys Water Works | 40 | 32 | 84 | 24 | 21 | | 21 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | OHIO cont. | | | | | | | | | | |
| 63 | Co | S. New Lyme 1 mi. W | 41 | 35 | 80 | 46 | 12 | | 12 | | | |
| 64 | Co | Tiffin | 41 | 07 | 83 | 10 | 77 | 72 | 77 | | | |
| 65 | FO | Toledo Exp. Ap. | 41 | 36 | 83 | 48 | 4 | 4 | 4 | 4 | 4 | p 15, 1:(4) |
| 66 | Co | Toledo Blade | 41 | 39 | 83 | 32 | 7 | 7 | 7 | | | |
| 67 | FO | Toledo City | 41 | 40 | 83 | 34 | 85 | 85 | 85 | 85 | 85 | p 15, 1:(85) |
| 68 | Co | Upper Sandusky | 40 | 50 | 83 | 17 | 75 | 74 | 75 | | | |
| 69 | Co | Upper Sandusky Water Works | 40 | 49 | 83 | 17 | 18 | | 18 | | | |
| 70 | Co | Van Wert | 40 | 52 | 84 | 35 | 44 | 43 | 44 | | | |
| 71 | Co | *Warren | 41 | 15 | 80 | 51 | 69 | 65 | 69 | | | |
| 72 | Co | *Warren Ohio Edison | 41 | 13 | 80 | 48 | 24 | | 24 | | | |
| 73 | Co | Wauseon Sewage PL | 41 | 33 | 84 | 08 | 88 | 88 | 86 | | | |
| 74 | FO | *Youngstown Ap. | 41 | 16 | 80 | 40 | 87 | 87 | 16 | 16 | 16 | p 15, 1:(16) |
| | | PENNSYLVANIA | | | | | | | | | | |
| 1 | Co | *Coudersport 3 mi. NW | 41 | 49 | 78 | 03 | 3 | 3 | 3 | | | |
| 2 | Co | *Coudersport 7 mi. E | 41 | 46 | 77 | 53 | 12 | | 12 | | | |
| 3 | Co | *Linesville | 41 | 41 | 80 | 31 | 41 | 7 | 41 | | | |
| 4 | Co | North East 2 mi. SE | 42 | 12 | 79 | 49 | 9 | | 9 | | | |
| 5 | Co | Springboro | 41 | 48 | 80 | 23 | 4 | 4 | 4 | | | |
| | | NEW YORK | | | | | | | | | | |
| 1 | Co | Albion 3 mi. NE | 43 | 16 | 78 | 08 | 21 | 21 | 21 | | | |
| 2 | Co | Alexandria Bay | 44 | 20 | 75 | 55 | 27 | 23 | 27 | | | |
| 3 | Co | Alfred | 42 | 15 | 77 | 47 | 66 | 62 | 66 | | | |
| 4 | Co | Angelica | 42 | 18 | 78 | 02 | 74 | 74 | 74 | | | |
| 5 | Co | Arcade | 42 | 32 | 78 | 25 | 36 | 7 | 36 | | | |
| 6 | Co | Arnot Lodge | 42 | 16 | 76 | 38 | 4 | | 4 | | | |
| 7 | Co | Arnot SCS | 42 | 14 | 76 | 37 | 11 | | 11 | | | |
| 8 | Co | Auburn Wtr. Wks. | 42 | 54 | 76 | 32 | 95 | 95 | 89 | X | | |
| 9 | Co | Aurora Research Farm | 42 | 44 | 76 | 39 | 2 | 2 | 2 | 2 | | evaporation (2) |
| 10 | Co | Avon | 42 | 55 | 77 | 45 | 63 | | 63 | | | |
| 11 | Co | Baldwinsville | 43 | 09 | 76 | 20 | 60 | 21 | 60 | | | |
| 12 | Co | Batavia | 43 | 00 | 78 | 11 | 28 | 28 | 28 | | | |
| 13 | Co | Beaver Falls | 43 | 53 | 75 | 26 | 25 | | 25 | | | |
| 14 | Co | Big Moose 3 mi. E | 43 | 49 | 74 | 52 | 28 | | 28 | | | |
| 15 | FO | *Binghamton | 42 | 13 | 75 | 59 | 8 | 8 | 8 | 8 | 8 | p 15, 1:(8) |
| 16 | Co | *Binghamton | 42 | 06 | 75 | 55 | 69 | 69 | 69 | | | |
| 17 | Co | Black R. 1 mi. SW | 44 | 00 | 75 | 49 | 19 | | 19 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NEW YORK cont. | | | | | | | | | | |
| 18 | Co | Boonville 2 mi. N | 43 | 31 | 75 | 21 | 36 | | 36 | | | |
| 19 | Co | Boonville 2 mi. SSW | 43 | 27 | 75 | 21 | 10 | 10 | 10 | X | | evaporation (X) |
| 20 | Co | Brewerton Lock 23 | 43 | 14 | 76 | 12 | 27 | | 27 | | | |
| 21 | Co | Bristol Springs | 42 | 43 | 77 | 22 | 27 | | 27 | | | |
| 22 | Co | Brockport 2 mi. NW | 43 | 15 | 77 | 58 | 9 | 9 | 9 | | | |
| 23 | FO | Buffalo Airport | 42 | 56 | 78 | 44 | 108 | 108 | 102 | 88 | 88 | p 15, 1:(88) |
| 24 | Co | Burdett 1 mi. NE | 42 | 25 | 76 | 50 | 27 | | 27 | | | |
| 25 | Co | Camden | 43 | 20 | 75 | 44 | 13 | | 13 | | | |
| 26 | Co | Canandaigua 3 mi. S | 42 | 51 | 77 | 17 | 27 | 25 | 27 | | | |
| 27 | Co | Canaserage | 42 | 28 | 77 | 47 | 5 | | 5 | | | |
| 28 | Co | Canastota 1 mi. SW | 43 | 04 | 75 | 45 | 27 | | 27 | | | |
| 29 | Co | *Candor | 42 | 14 | 76 | 21 | 15 | | 15 | | | |
| 30 | Co | *Canton | 44 | 36 | 75 | 10 | 97 | 97 | 92 | | | |
| 31 | Co | Cayuga Lock 1 | 42 | 57 | 76 | 44 | 32 | | 32 | | | |
| 32 | Co | Churchville | 43 | 06 | 77 | 53 | 5 | | 5 | | | |
| 33 | Co | *Cincinnatus | 42 | 32 | 75 | 54 | 22 | | 22 | | | |
| 34 | Co | Clyde Lock 26 | 43 | 04 | 76 | 50 | 41 | | 41 | | | |
| 35 | Co | Colden | 42 | 40 | 78 | 41 | -- | X | X | | | soil temp.(X) |
| 36 | Co | *Colton 3 mi. N | 44 | 35 | 74 | 57 | 25 | | 25 | | | |
| 37 | Co | Constantia | 43 | 15 | 76 | 00 | 7 | | 7 | | | |
| 38 | Co | *Cortland | 42 | 36 | 76 | 11 | 98 | 98 | 81 | | | |
| 39 | Co | Dansville | 42 | 34 | 77 | 42 | 41 | 38 | 41 | | | |
| 40 | Co | Delta | 43 | 17 | 75 | 27 | 40 | | 40 | | | |
| 41 | Co | Eagle Bay | 43 | 46 | 74 | 49 | 6 | | 6 | | | |
| 42 | Co | Eagle Falls | 43 | 54 | 75 | 11 | 34 | | 34 | | | |
| 43 | Co | *East Homer 1 | 42 | 42 | 76 | 07 | 19 | | 19 | | | |
| 44 | Co | *East Homer 2 | 42 | 43 | 76 | 07 | 10 | | 10 | | | |
| 45 | Co | Elma | 42 | 51 | 78 | 39 | 17 | 17 | 17 | 6 | | evaporation (6) |
| 46 | Co | *Elmira | 42 | 05 | 76 | 48 | 80 | 79 | 80 | | | |
| 47 | SO | Elmira CAA Airport | 42 | 10 | 76 | 54 | 19 | 11 | 19 | X | X | p 15, 1:(X) |
| 48 | Co | Forestport | 43 | 26 | 75 | 13 | 25 | | 25 | | | |
| 49 | Co | *Franklinville | 42 | 21 | 78 | 27 | 10 | 10 | 10 | | | |
| 50 | Co | Fredonia | 42 | 26 | 79 | 22 | 72 | 72 | 63 | | | |
| 51 | Co | Freeville 2 mi. NE | 42 | 32 | 76 | 19 | 19 | | 19 | | | |
| 52 | Co | Fulton | 43 | 19 | 76 | 25 | 33 | | 33 | | | |
| 53 | Co | Garbutt | 43 | 01 | 77 | 47 | 5 | | 5 | | | |
| 54 | Co | Geneva Exp. Sta. | 42 | 53 | 77 | 00 | 70 | 89 | 70 | | | |
| 55 | FO | Geneva Sampson AFB | 42 | 50 | 77 | 00 | -- | X | X | X | X | p 15, 1:(X) |
| 56 | Co | Gouverneur | 44 | 20 | 75 | 28 | 53 | 22 | 53 | | | |
| 57 | Co | Gowanda St. Hosp. | 42 | 29 | 78 | 56 | 14 | 13 | 14 | | | |
| 58 | Co | Gravesville 2 mi. N | 43 | 16 | 75 | 07 | 9 | 9 | 9 | | | humidity (X) |
| 59 | Co | Hammondsport 1 mi S | 42 | 24 | 77 | 13 | 5 | | 5 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref;yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NEW YORK cont. | | | | | | | | | | |
| 60 | Co | Hemlock | 42 | 47 | 77 | 37 | 61 | 61 | 61 | | | |
| 61 | Co | Highmarket | 43 | 35 | 75 | 31 | 35 | | 35 | | | |
| 62 | Co | Highmarket 1 mi. SE | 43 | 35 | 75 | 30 | 19 | | 19 | | | |
| 63 | Co | Hilton | 43 | 17 | 77 | 47 | 14 | 14 | 14 | | | |
| 64 | Co | Hinckley | 43 | 18 | 75 | 07 | 41 | | 41 | | | |
| 65 | Co | *Hoffmeister | 43 | 23 | 74 | 43 | 53 | | 53 | | | |
| 66 | Co | Honeoye Falls | 42 | 57 | 77 | 35 | 5 | | 5 | | | |
| 67 | Co | Hooker | 43 | 41 | 75 | 45 | 27 | | 27 | | | |
| 68 | Co | Hornell Almond Dam | 42 | 21 | 77 | 42 | 5 | | 5 | | | |
| 69 | Co | *Indian Lake 2 mi. SW | 43 | 45 | 74 | 17 | 60 | 59 | 60 | | | |
| 70 | Co | Ithaca Cornell Univ. | 42 | 27 | 76 | 28 | 41 | 27 | 40 | 41 | | evap. (41), sunshine (X), pressure (X) |
| 71 | Co | *Lincklaen | 42 | 41 | 75 | 53 | 6 | | 6 | | | |
| 72 | Co | Linden | 42 | 52 | 78 | 10 | 40 | | 40 | | | |
| 73 | Co | Locke 4 mi. W | 42 | 40 | 76 | 28 | 27 | | 27 | | | |
| 74 | Co | Lockport 2 mi. NE | 43 | 11 | 78 | 39 | 73 | 67 | 73 | | | |
| 75 | Co | Lowville | 43 | 48 | 75 | 29 | 98 | 93 | 98 | | | |
| 76 | Co | Lyons Falls | 43 | 37 | 75 | 22 | 45 | | 45 | | | |
| 77 | Co | Macedon | 43 | 04 | 77 | 18 | 40 | | 40 | | | |
| 78 | Co | Marcellus SCS | 42 | 59 | 76 | 23 | 19 | | 19 | | | |
| 79 | Co | Mays Pt. Lock 25 | 43 | 00 | 76 | 46 | 40 | | 40 | | | |
| 80 | Co | Mt. Morris 2 mi. W | 42 | 44 | 77 | 54 | 9 | 9 | 9 | | | |
| 81 | Co | Newark | 43 | 03 | 77 | 06 | 39 | | 39 | | | |
| 82 | Co | Newark Valley | 42 | 13 | 76 | 12 | 4 | | 4 | | | |
| 83 | Co | New London Lock 22 | 43 | 12 | 75 | 37 | 39 | | 39 | | | |
| 84 | Co | Ogdensburg Hosp. 3 mi. NE | 44 | 44 | 75 | 27 | 68 | 68 | 66 | | | |
| 85 | Co | Old Forge 2 mi. SW | 43 | 42 | 75 | 00 | 12 | 11 | 12 | | | |
| 86 | Co | Ovid | 42 | 40 | 76 | 50 | 27 | | 27 | | | |
| 87 | Co | Penn Yan | 42 | 39 | 77 | 04 | 107 | 53 | 107 | | | |
| 88 | Co | Prattsburg 2 mi. NW | 42 | 32 | 77 | 18 | 18 | | 18 | | | |
| 89 | Co | Pulaski | 43 | 34 | 76 | 08 | -- | X | X | | | |
| 90 | FO | Rochester Airport | 43 | 07 | 77 | 20 | 130 | 129 | 130 | 88 | 88 | p 15, 1:(88) |
| 91 | FO | Rome Griffiss AFB | 43 | 14 | 75 | 25 | 16 | 16 | 16 | 16 | 16 | p 15, 1:(16) |
| 92 | Co | Rushford 3 mi. SW | 42 | 22 | 78 | 18 | 5 | | 5 | | | |
| 93 | Co | Sabattis 3 mi. NE | 44 | 07 | 74 | 40 | 26 | | 26 | | | |
| 94 | Co | Sabattis Whitney Park | 44 | 03 | 74 | 38 | 3 | 3 | 3 | | | |
| 95 | Co | Saranac Lake | 44 | 19 | 74 | 07 | 29 | 29 | 29 | | | |
| 96 | Co | Scio | 42 | 10 | 77 | 59 | 30 | | 30 | | | |
| 97 | Co | Sherman | 42 | 10 | 79 | 36 | 8 | | 8 | | | |
| 98 | Co | Skaneateles | 42 | 57 | 76 | 26 | 65 | | 65 | | | |
| 99 | Co | Sodus 2 mi. SSW | 43 | 13 | 77 | 04 | 30 | 30 | 30 | | | |
| 100 | Co | S. Edwards 1 mi. E | 44 | 16 | 75 | 12 | 32 | | 32 | | | |

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NEW YORK cont. | | | | | | | | | | |
| 101 | Co | S. Wales Emery Pk. | 42 | 43 | 78 | 36 | 28 | 28 | 28 | | | |
| 102 | Co | Stafford | 42 | 59 | 78 | 05 | 28 | 28 | 28 | | | |
| 103 | Co | Stillwater Reserv. | 43 | 53 | 75 | 02 | 38 | 32 | 38 | | | |
| 104 | FO | Syracuse Airport | 43 | 07 | 76 | 07 | 71 | 71 | 62 | 62 | 62 | p 15, 1:(62) |
| 105 | Co | Theresa | 44 | 13 | 75 | 47 | 18 | | 18 | | | |
| 106 | Co | *Troupsburg 4 mi. NE | 42 | 04 | 77 | 29 | 18 | | 18 | | | |
| 107 | Co | Truxton | 42 | 43 | 76 | 02 | 19 | | 19 | | | |
| 108 | SO | Utica CAA Airport | 43 | 09 | 75 | 23 | 19 | X | 19 | X | X | p 15, 1:(X) |
| 109 | Co | Wales | 42 | 45 | 78 | 31 | 17 | | 17 | | | |
| 110 | Co | Wanakena Ranger School | 44 | 09 | 74 | 54 | 49 | 48 | 49 | | | |
| 111 | Co | Warsaw 5 mi. SW | 42 | 41 | 78 | 12 | 7 | 7 | 7 | | | |
| 112 | Co | Waterloo | 42 | 54 | 76 | 52 | 36 | | 36 | | | |
| 113 | Co | Watertown | 43 | 58 | 75 | 52 | 69 | 67 | 69 | | | |
| 114 | Co | Wellsville | 42 | 07 | 77 | 57 | 3 | | 3 | | | |
| 115 | Co | Westfield 2 mi. SW | 42 | 17 | 79 | 37 | 43 | 38 | 43 | | | |
| 116 | Co | Whitesville | 42 | 02 | 77 | 46 | 5 | | 5 | | | |
| 117 | Co | Wiscoy | 42 | 30 | 78 | 05 | 19 | 19 | 19 | | | |
| 118 | Co | Wolcott | 43 | 14 | 46 | 49 | 20 | | 20 | | | |
| | | ONTARIO | | | | | ** | ** | ** | ** | ** | ** |
| 1 | II | Agincourt | 43 | 47 | 79 | 16 | -- | X | X | 50 | | |
| 2 | III | Aldershot | 43 | 18 | 79 | 54 | -- | | X | | | |
| 3 | II | Aldershot (HEPC) | 43 | 18 | 79 | 52 | -- | X | X | | | |
| 4 | II | Algonquin Park | 45 | 35 | 78 | 33 | -- | 31 | 31 | | | |
| 5 | III | Alliston | 44 | 08 | 79 | 58 | -- | | X | | | |
| 6 | III | Alloa | 43 | 43 | 79 | 52 | -- | | X | | | |
| 7 | II | Alton | 43 | 51 | 80 | 05 | -- | 51 | 51 | | | |
| 8 | II | Angus | 44 | 19 | 79 | 52 | -- | X | X | | | |
| 9 | II | Apsley | 44 | 46 | 78 | 05 | -- | X | X | | | |
| 10 | I | Armstrong | 50 | 18 | 88 | 55 | -- | 24 | 24 | 94 | X | p 15, 1:(X) |
| 11 | II | *Atikokan | 48 | 44 | 91 | 38 | -- | 34 | 34 | | | |
| 12 | II | Barrie | 44 | 24 | 79 | 41 | -- | 56 | 56 | | | |
| 13 | II | *Bear Island | 46 | 59 | 80 | 05 | -- | X | X | | | |
| 14 | II | Beatrice | 45 | 08 | 76 | 16 | -- | 62 | 66 | | | |
| 15 | II | Beaverton | 44 | 25 | 79 | 09 | -- | X | X | | | |
| 16 | II | Beeton | 44 | 06 | 79 | 47 | -- | X | X | | | |
| 17 | III | Benny | 46 | 31 | 81 | 38 | -- | | X | | | |
| 18 | II | Bingham Chute | 46 | 06 | 79 | 24 | -- | X | X | | | |
| 19 | II | Biscotasing | 47 | 17 | 82 | 07 | -- | 34 | 34 | | | |
| 20 | II | Black Sturgeon Lk. | 49 | 20 | 88 | 50 | -- | X | X | | | |
| 21 | II | Bradford | 44 | 06 | 79 | 30 | -- | X | X | | | |
| 22 | II | Brampton | 43 | 41 | 79 | 46 | -- | X | X | | | |
| 23 | II | Brantford | 43 | 08 | 80 | 16 | -- | 62 | 62 | | | |
| 24 | II | Brockville | 44 | 33 | 75 | 40 | -- | 33 | X | | | |
| 25 | III | Broddytown | 43 | 37 | 79 | 36 | -- | | X | | | |
| 26 | II | Brucefield | 43 | 33 | 81 | 33 | -- | 45 | 45 | | | |

** See Appendix II, p. 160

| No. | Class | Location | Lat deg | N min | Long deg | W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ONTARIO cont. | | | | | ** | ** | ** | ** | ** | ** |
| 27 | III | Burnhamthorpe | 43 | 37 | 79 | 36 | -- | | X | | | |
| 28 | II | Caledonia | 43 | 06 | 79 | 57 | -- | X | X | | | |
| 29 | II | Cameron Falls | 49 | 09 | 88 | 21 | -- | 25 | 25 | | | |
| 30 | III | Campbellford | 44 | 18 | 77 | 48 | -- | | X | | | |
| 31 | II | Canboro | 42 | 59 | 79 | 35 | -- | X | X | | | |
| 32 | II | Caramat | 49 | 37 | 86 | 09 | -- | X | X | | | |
| 33 | I | Centralia | 43 | 18 | 81 | 31 | -- | X | X | X | X | p 15, 1:(X) |
| 34 | I | *Chalk River | 46 | 00 | 77 | 26 | -- | 20 | 21 | 50 | X | sunshine (21); p 15, 1:(X) |
| 35 | II | Chapleau | 47 | 50 | 83 | 25 | -- | 35 | 35 | | | |
| 36 | II | Chatham | 42 | 23 | 82 | 12 | -- | 59 | 71 | | | sunshine (21) |
| 37 | II | Chatham (CFCO) | 42 | 23 | 82 | 12 | -- | X | X | | | |
| 38 | III | Chatsworth | 44 | 24 | 80 | 54 | -- | | X | | | |
| 39 | II | Clarkson | 43 | 33 | 79 | 37 | -- | X | X | | | |
| 40 | I | Clear Creek | 42 | 35 | 80 | 34 | -- | X | X | X | X | p 15, 1:(X) |
| 41 | III | Clifford | 43 | 57 | 80 | 58 | -- | | X | | | |
| 42 | II | Coe Hill | 44 | 53 | 77 | 50 | -- | X | X | | | |
| 43 | II | Coldwater | 44 | 42 | 79 | 40 | -- | X | X | | | |
| 44 | II | Coniston | 46 | 28 | 80 | 49 | -- | X | X | | | |
| 45 | II | Crystal Falls | 46 | 27 | 79 | 55 | -- | X | X | | | |
| 46 | II | Delhi | 42 | 52 | 80 | 32 | -- | X | X | | | sunshine (21) |
| 47 | III | Dog Lake Dam | 48 | 05 | 89 | 38 | -- | | X | | | |
| 48 | III | *Domville | 44 | 47 | 75 | 32 | -- | | X | | | |
| 49 | III | Dona | 48 | 30 | 89 | 31 | -- | | X | | | |
| 50 | III | Doon | 43 | 24 | 80 | 27 | -- | | X | | | |
| 51 | II | Dorset | 45 | 15 | 78 | 53 | -- | X | X | | | |
| 52 | III | Dunnville | 42 | 55 | 79 | 42 | -- | | X | | | |
| 53 | II | Durham | 44 | 13 | 80 | 48 | -- | X | X | | | |
| 54 | I | *Earlton | 47 | 42 | 79 | 51 | -- | 16 | 16 | 60 | X | p 15, 1:(X) |
| 55 | III | Eugenia | 44 | 18 | 80 | 33 | -- | | 34 | | | |
| 56 | III | Fenelon Falls | 44 | 23 | 78 | 44 | -- | | X | | | |
| 57 | II | Fergus | 43 | 48 | 80 | 20 | -- | X | X | | | |
| 58 | II | *Foleyet | 48 | 15 | 82 | 26 | -- | X | X | | | |
| 59 | II | Forest | 43 | 06 | 82 | 00 | -- | X | X | | | |
| 60 | II | Franz | 48 | 27 | 84 | 24 | -- | 30 | 30 | | | |
| 61 | II | Galt | 43 | 22 | 80 | 19 | -- | X | X | | | |
| 62 | II | Georgetown | 43 | 38 | 79 | 55 | -- | 44 | 73 | | | |
| 63 | II | *Geraldton | 49 | 42 | 86 | 53 | -- | X | X | | | |
| 64 | III | *Geraldton (HEPC) | 49 | 46 | 86 | 57 | -- | | X | | | |
| 65 | II | Gilmour | 44 | 51 | 77 | 56 | -- | X | X | | | |
| 66 | II | Glencoe | 42 | 42 | 81 | 42 | -- | X | X | | | |
| 67 | II | Gooderham | 44 | 55 | 78 | 23 | -- | X | X | | | |
| 68 | III | Gore's Landing | 44 | 08 | 78 | 13 | -- | | X | | | |
| 69 | I | *Graham | 49 | 16 | 90 | 35 | -- | X | X | X | X | p 15, 1:(X) |
| 70 | III | Green River | 43 | 54 | 79 | 11 | -- | | X | | | |
| 71 | III | Grey Co. Forest | 44 | 07 | 80 | 48 | -- | | X | | | |
| 72 | III | Grimsby (Rock Chapel) | 43 | 09 | 79 | 42 | -- | | X | | | |

** See Appendix II, page 160.

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ONTARIO cont. | | | | | ** | ** | ** | ** | ** | ** |
| 73 | II | Guelph | 43 | 33 | 80 | 16 | -- | 55 | 55 | 105 | | sunshine (34) |
| 74 | III | Hagersville | 43 | 00 | 80 | 03 | -- | | X | | | |
| 75 | II | Haliburton | 45 | 01 | 78 | 28 | -- | 57 | 57 | | | |
| 76 | II | Haliburton (2) | 45 | 03 | 78 | 29 | -- | X | X | | | |
| 77 | II | Harrow | 42 | 02 | 82 | 53 | -- | 31 | 31 | | | sunshine (32) |
| 78 | II | Helen Mine | 48 | 04 | 84 | 45 | -- | X | X | | | |
| 79 | II | Holstein | 44 | 03 | 80 | 46 | -- | X | X | | | |
| 80 | III | Hopeville | 44 | 05 | 80 | 34 | -- | | X | | | |
| 81 | III | Hornby | 43 | 33 | 79 | 50 | -- | | X | | | |
| 82 | II | *Hornepayne | 49 | 14 | 84 | 51 | -- | 31 | 31 | | | |
| 83 | II | Huntsville | 45 | 19 | 79 | 15 | -- | 41 | 41 | | | |
| 84 | III | Ilderton | 43 | 07 | 81 | 23 | -- | | X | | | |
| 85 | II | Jarvis Lake | 49 | 15 | 87 | 49 | -- | X | X | | | |
| 86 | II | Kakabeka Falls | 48 | 24 | 89 | 37 | -- | 41 | 41 | | | |
| 87 | II | Kemptville | 45 | 02 | 75 | 39 | -- | X | X | | | |
| 88 | III | *Kenogami Dam | 49 | 55 | 86 | 28 | -- | | X | | | |
| 89 | II | Killala | 49 | 09 | 86 | 28 | -- | X | X | | | |
| 90 | I | *Killaloe | 45 | 34 | 77 | 24 | -- | 16 | 16 | 50 | X | p 15, 1:(X) |
| 91 | II | Kohler | 42 | 56 | 79 | 52 | -- | X | X | | | |
| 92 | II | Lafontaine | 44 | 45 | 80 | 05 | -- | X | X | | | |
| 93 | III | Lakeport | 43 | 59 | 77 | 55 | -- | | X | | | |
| 94 | II | Lindsay | 44 | 20 | 78 | 44 | -- | 68 | 68 | | | sunshine (68) |
| 95 | II | Listowel | 43 | 45 | 80 | 58 | -- | X | X | | | |
| 96 | I | London | 43 | 02 | 81 | 09 | -- | 65 | 65 | 52 | X | p 15, 1:(X) |
| 97 | II | *Longlac | 49 | 45 | 86 | 30 | -- | 29 | 29 | | | |
| 98 | II | *Longlac (P & P) | 49 | 45 | 86 | 30 | -- | X | X | | | |
| 99 | II | Long Lake Control Dam | 49 | 05 | 87 | 03 | -- -- | X | X | | | |
| 100 | II | Long Point | 42 | 33 | 80 | 03 | -- | X | X | 45 | | |
| 101 | II | Lucan | 43 | 11 | 81 | 24 | -- | X | X | | | |
| 102 | II | Lucknow | 43 | 58 | 81 | 31 | -- | 58 | 58 | | | |
| 103 | II | Macdiarmid | 49 | 26 | 88 | 09 | -- | X | X | | | |
| 104 | II | McVittie | 46 | 17 | 80 | 52 | -- | X | X | | | |
| 105 | II | *Madawaska | 45 | 30 | 77 | 59 | -- | X | X | | | |
| 106 | II | Magnetawan | 45 | 40 | 79 | 38 | -- | X | X | | | |
| 107 | I | Malton | 43 | 41 | 79 | 38 | -- | 17 | 17 | 69 | X | humidity (X); p 15, 1:(X) |
| 108 | II | Manitou Falls | 49 | 12 | 86 | 06 | -- | X | X | | | |
| 109 | III | *Mattagami Lake Dam | 48 | 01 | 81 | 33 | -- | | X | | | |
| 110 | II | Melville | 43 | 55 | 80 | 03 | -- | X | X | | | |
| 111 | III | Meyersburg | 44 | 17 | 77 | 48 | -- | | X | | | |
| 112 | II | Midhurst | 44 | 27 | 79 | 44 | -- | X | X | | | |
| 113 | III | Mildmay | 44 | 03 | 81 | 07 | -- | | X | | | |
| 114 | III | Miller Lake For. | 45 | 05 | 81 | 25 | -- | | X | | | |
| 115 | II | Millgrove | 43 | 21 | 79 | 56 | -- | X | X | | | |
| 116 | III | Mink Lake | 47 | 01 | 82 | 04 | -- | | X | | | |

** See Appendix II, p. 160

| No. | Class | Location | Lat N deg | min | Long W deg | min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ONTARIO cont. | | | | | ** | ** | ** | ** | ** | ** |
| 117 | II | Mitchell | 43 | 28 | 81 | 11 | -- | X | X | | | |
| 118 | II | Montreal Falls | 47 | 15 | 84 | 24 | -- | X | X | | | |
| 119 | II | *Montreal River | 47 | 07 | 79 | 29 | -- | 37 | 37 | | | |
| 120 | III | *Moose Lake | 48 | 50 | 91 | 36 | -- | | X | | | |
| 121 | III | Morriston | 43 | 28 | 80 | 07 | -- | | X | | | |
| 122 | I | Muskoka | 44 | 58 | 79 | 19 | -- | 16 | 16 | 52 | X | p 15, 1:(X) |
| 123 | I | *Nakina | 50 | 11 | 86 | 42 | -- | 16 | 16 | 57 | X | humidity (X); p 15, 1:(X) |
| 124 | II | North Bay | 46 | 19 | 79 | 28 | -- | 28 | 34 | | | |
| 125 | I | North Bay (A) | 46 | 22 | 79 | 25 | -- | 16 | 16 | 60 | X | p 15, 1:(X) |
| 126 | II | Oak Ridges | 43 | 58 | 79 | 28 | -- | 30 | 30 | 90 | | sunshine (29) |
| 127 | II | Oil City | 42 | 55 | 82 | 02 | -- | X | X | | | |
| 128 | II | Orillia | 44 | 37 | 79 | 24 | -- | 49 | 49 | | | |
| 129 | II | Orono | 43 | 59 | 78 | 35 | -- | X | X | | | |
| 130 | I | *Ottawa (Uplands) | 45 | 20 | 75 | 41 | -- | 76 | 76 | 72 | | sunshine (53) |
| 131 | II | Oxaline Lake | 49 | 42 | 87 | 34 | -- | X | X | | | |
| 132 | I | *Pagwa | 50 | 02 | 85 | 16 | -- | 16 | 16 | 52 | X | p 15, 1:(X) |
| 133 | II | Pays Plat | 49 | 43 | 87 | 34 | -- | X | X | | | |
| 134 | II | Pefferlaw | 44 | 19 | 79 | 13 | -- | X | X | | | |
| 135 | II | Peshu Lake | 46 | 37 | 83 | 10 | -- | X | X | | | |
| 136 | II | Peterboro | 44 | 17 | 78 | 19 | -- | 66 | 71 | | | |
| 137 | III | Peterboro (HEPC) | 44 | 20 | 78 | 19 | -- | | X | | | |
| 138 | II | Peters Corners | 43 | 17 | 80 | 04 | -- | X | X | | | |
| 139 | III | Petrolia | 42 | 57 | 82 | 05 | -- | | X | | | |
| 140 | III | Pine Portage | 49 | 18 | 88 | 19 | -- | | X | | | |
| 141 | II | *Port Elmsley | 44 | 53 | 76 | 08 | -- | X | X | | | |
| 142 | II | Portland | 44 | 42 | 76 | 12 | -- | X | X | | | |
| 143 | II | Preston | 43 | 40 | 80 | 25 | -- | X | X | | | |
| 144 | II | *Quorn | 49 | 25 | 90 | 05 | -- | 33 | 33 | | | |
| 145 | II | Ragged Rapids | 45 | 01 | 79 | 40 | -- | X | X | | | |
| 146 | III | Ramsay | 46 | 58 | 82 | 21 | -- | | X | | | |
| 147 | II | Ranger Lake | 46 | 55 | 83 | 30 | -- | X | X | | | |
| 148 | III | Rayner | 46 | 27 | 83 | 23 | -- | | X | | | |
| 149 | III | Red Cedar Lake Dam | 46 | 41 | 80 | 01 | -- | | X | | | |
| 150 | II | Redickville | 44 | 13 | 80 | 13 | -- | X | X | | | |
| 151 | III | *Rideau Ferry | 44 | 51 | 76 | 09 | -- | | X | | | |
| 152 | II | Ridgetown | 42 | 26 | 81 | 55 | -- | X | X | | | |
| 153 | II | Ridgeville | 43 | 04 | 79 | 08 | -- | X | X | | | |
| 154 | I | *Rockcliffe | 45 | 28 | 75 | 38 | -- | 14 | 14 | X | X | p 15, 1:(X) |
| 155 | II | Ruel | 47 | 18 | 81 | 27 | -- | 33 | 33 | | | |
| 156 | II | St. Catherines | 43 | 09 | 79 | 17 | -- | 33 | 32 | | | sunshine (21) |
| 157 | II | St. Catherines (Path. Lab.) | 43 | 10 | 79 | 17 | -- | X | X | | | |
| 158 | III | St. Joachim | 42 | 10 | 82 | 38 | -- | | X | | | |
| 159 | II | St. Thomas | 42 | 48 | 81 | 11 | -- | X | X | | | |
| 160 | II | Sand Lake | 47 | 47 | 84 | 32 | -- | X | X | | | |
| 161 | III | Sauble Forest | 44 | 41 | 81 | 15 | -- | | X | | | |
| 162 | III | Scotia Junction | 45 | 31 | 79 | 17 | -- | | X | | | |
| 163 | II | Simcoe | 42 | 52 | 80 | 20 | -- | 32 | 32 | | | |

** See Appendix II, p. 160.

| No. | Class | Location | Lat N deg | Lat N min | Long W deg | Long W min | Per of Rec | Temp Yrs | Pcpn Yrs | Wind Yrs | Wea Yrs | Other (ref:yrs) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ONTARIO cont. | | | | | ** | ** | ** | ** | ** | ** |
| 164 | II | Smithfield | 44 | 05 | 77 | 40 | -- | X | X | | | |
| 165 | II | Smoky Falls | 50 | 04 | 82 | 10 | -- | X | X | | | |
| 166 | III | Snelgrove | 43 | 45 | 79 | 50 | -- | | X | | | |
| 167 | II | Stayner | 44 | 28 | 80 | 06 | -- | X | X | | | |
| 168 | I | Stirling | 44 | 19 | 77 | 38 | -- | 15 | 15 | 55 | X | p 15, 1:(X) |
| 169 | II | Stratford | 43 | 23 | 81 | 00 | -- | X | X | | | |
| 170 | II | Strathroy | 42 | 58 | 81 | 38 | -- | X | X | | | |
| 171 | I | Sudbury | 46 | 29 | 80 | 59 | -- | 27 | 27 | X | X | p 15, 1:(X) |
| 172 | III | Talbotville | 42 | 48 | 81 | 15 | -- | | X | | | |
| 173 | III | Toronto (Downsview South) | 43 | 43 | 79 | 29 | -- | | X | | | |
| 174 | II | Toronto (East York) | 43 | 42 | 79 | 20 | -- | X | X | | | |
| 175 | III | Toronto (Glenview) | 43 | 42 | 79 | 27 | -- | | X | | | |
| 176 | II | Toronto (Islington West) | 43 | 39 | 79 | 33 | -- | X | X | | | |
| 177 | III | Toronto (Kingsway) | 43 | 39 | 79 | 31 | -- | | X | | | |
| 178 | III | Toronto (Scarlett Road) | 43 | 40 | 79 | 30 | -- | | X | | | |
| 179 | II | Toronto (South Leaside) | 43 | 42 | 79 | 22 | -- | X | X | | | |
| 180 | III | Toronto (Wexford) | 43 | 45 | 79 | 18 | -- | | X | | | |
| 181 | III | Toronto (Willowdale) | 46 | 47 | 79 | 26 | -- | | X | | | |
| 182 | II | Toronto (Wilson Heights) | 43 | 44 | 79 | 26 | -- | X | X | | | |
| 183 | III | Trethewey Falls | 44 | 59 | 79 | 17 | -- | | X | | | |
| 184 | II | Turbine | 46 | 23 | 81 | 34 | -- | 34 | 34 | | | sunshine (30) |
| 185 | II | Tweed | 44 | 30 | 77 | 19 | -- | X | X | | | |
| 186 | III | Unionville | 43 | 52 | 79 | 20 | -- | | X | | | |
| 187 | II | *Upsala | 49 | 03 | 90 | 28 | -- | X | X | | | |
| 188 | II | Uxbridge | 44 | 07 | 79 | 06 | -- | X | X | | | |
| 189 | II | Vineland | 43 | 10 | 79 | 19 | -- | X | X | | | sunshine (35) |
| 190 | II | Walkerton | 44 | 03 | 81 | 09 | -- | 33 | 33 | 70 | | |
| 191 | II | Wallaceburg | 42 | 35 | 82 | 24 | -- | 41 | 41 | | | |
| 192 | III | Wasdells | 44 | 47 | 79 | 18 | -- | | X | | | |
| 193 | III | Washago | 44 | 35 | 79 | 20 | -- | | X | | | |
| 194 | III | Waterford | 42 | 58 | 80 | 17 | -- | | X | | | |
| 195 | II | Waterloo | 43 | 28 | 80 | 27 | -- | X | X | | | |
| 196 | II | Welland | 42 | 59 | 79 | 17 | -- | 56 | 56 | | | |
| 197 | I | White River | 48 | 35 | 85 | 17 | -- | 62 | 62 | 55 | X | p 15, 1:(X) |
| 198 | I | Windsor | 42 | 17 | 82 | 58 | -- | X | 59 | 18 | X | p 15, 1:(X) |
| 199 | II | Woodbridge | 43 | 50 | 79 | 36 | -- | X | X | | | |
| 200 | II | Woodslee | 42 | 13 | 82 | 42 | -- | X | X | | | |
| 201 | II | Woodstock | 43 | 08 | 80 | 47 | -- | 76 | 76 | | | sunshine (58) |

** See Appendix II, p. 160

Table 3. Unusable Data Sources.

The facilities listed in Table 3 are those that were uncovered by the project but which were adjudged to be unsuitable for inclusion in Tables 1 or 2. One of three situations described the reason for deletion. Most of the sources were contacted, but the data recorded by the installations were of such short record or of such a nature that there was no immediate future use deemed possible for it by the investigators. These cases are listed in the first column. In a few cases, data of interest to the project are taken, but for technical reasons, such as intake location or instrument exposure, they were considered unrepresentative. These are shown in the second column. In a few cases the existence of potential data sources was determined, but for a variety of reasons no contact with source authorities was possible. Only 16 cases of this type occurred -- 1.4 per cent of the total of 1177 sources.

Table 3. Unusable Data Sources

| Location | Installation | Few or No Data | Data Not Repres. | No Contact |
|---|---|---|---|---|
| Red Rock, Ont. | St. Lawrence Corp. | | | X |
| Port Arthur, Ont. | Abitibi Pulp & Paper Co. | | | X |
| Port Arthur, Ont. | Provincial Paper Co. | | | X |
| Grand Marais, Ont. | water treatment plant | | | X |
| Two Harbors, Minn. | municipal power plant | | | X |
| Ontonagon, Mich. | water treatment plant | X | | |
| Eagle River, Mich. | water treatment plant | X | | |
| Eagle Harbor, Mich. | water treatment plant | X | | |
| Copper Harbor, Mich. | water treatment plant | X | | |
| Gay, Mich. | water treatment plant | X | | |
| Pequaming, Mich. | water treatment plant | X | | |
| Sault Ste. Marie, Ont. | Algoma Steel Co. | | | X |
| Nahma, Mich. | water treatment plant | X | | |
| Waukegan, Ill. | Commonwealth Edison Co. | X | | |
| Great Lakes NTS | power plant | X | | |
| Winnetka, Ill. | municipal power plant | | | X |
| East Chicago, Ind. | water treatment plant | | | X |
| Indiana Harbor, Ind. | Youngstown Sheet & Tube Company | X | | |
| Ludington, Mich. | Dow Chemical Co. | | X | |
| Muskegon, Mich. | Consumers Power Co. | | X | |
| Essexville, Mich. | Consumers Power Co. | | X | |
| Traverse City, Mich. | municipal power plant | X | | |
| Alpena, Mich. | Huron Portland Cement Co. | | | X |
| East Tawas, Mich. | water treatment plant | X | | |
| Lorain, Ohio | National Tube Co. | X | | |
| Painesville, Ohio | Industrial Rayon Corp. | | | X |
| Ashtabula, Ohio | Union Carbide and Carbon Corp. | | | X |
| Erie, Penn. | Pennsylvania Elec. Co. | X | | |
| Dunkirk, N. Y. | water treatment plant | X | | |
| Buffalo, N. Y. | water treatment plant | X | | |
| Buffalo, N. Y. | Republic Steel Co. | X | | |
| Wilson, N. Y. | water treatment plant | X | | |
| Newfane, N. Y. | water treatment plant | X | | |
| Barker, N. Y. | water treatment plant | X | | |
| Lyndonville, N. Y. | water treatment plant | X | | |
| Brockport, N Y. | water treatment plant | X | | |
| Hilton, N. Y. | water treatment plant | X | | |
| Williamson, N. Y. | water treatment plant | X | | |
| Sodus Point, N. Y. | water treatment plant | X | | |
| Wolcott, N. Y. | water treatment plant | X | | |
| Oswego, N. Y. | water treatment plant | X | | |
| Sacketts Harbor, N. Y. | water treatment plant | X | | |
| Oshawa, Ont. | General Motors of Canada | | | X |
| Oshawa, Ont. | Oshawa Public Utilities | | | X |
| Hamilton, Ont. | Steel Co. of Canada | | | X |
| (unknown) | Upper Peninsula Generating Co. | | | X |
| (unknown) | Produce Terminal Co. | | | X |

# 5. SUMMARY

The entire Great Lakes drainage basin was reviewed for sources of hydrographic and meteorological data, potentially applicable to studies of Great Lakes hydrography and fisheries. Agencies which were found to obtain either or both of these types of data were: water treatment plants; power plants; industrial concerns; U. S. Coast Guard; paper mills; Sanitary District Observers; U. S. Weather Bureau First Order, Second Order and Cooperative stations; Canadian Meteorological Division Class I, II, III, and c stations; U. S. Lake Survey; Canadian Hydrographic Service; U. S. Geological Survey; Canadian Department of Northern Affairs and National Resources, Water Resources Branch; independent research installations; and several miscellaneous uncategorized agencies.

Tables 4 and 5 present a summarization of knowledge of data sources appearing in Tables 1, 2, and 3. Table 4, entitled Summary of Knowledge of All Potential Data Sources, indicates the number and per cent of agencies contained within each source type that have usable or unusable data and those agencies with which no contact was possible (no contact). Following the format utilized throughout this report, these agencies have been categorized as either onshore or inland. Entries appearing in the usable column have been derived from Tables 1 and 2. Entries in the unusable column have been derived from the first two columns of Table 3, and entries in the no contact column, from the third column of Table 3.

For example, 97 water treatment plants were located which utilize Great Lakes water. These plants constituted 8.3 per cent of the total potential sources located. Of these, 73 (75 per cent) possessed usable data, 22 (23 per cent) possessed no data of use to the purposes of this investigation, and 2 (2 per cent) could not, for various reasons, be adequately ascertained.

A total of 1177 separate possible data sources were located in the drainage basin. Of the total, slightly less than half (44.2 per cent) are located within two miles of the Lake shores (onshore), whereas 55.8 per cent are more than two miles from the shoreline (inland).

A high percentage of all onshore agencies have proved to possess apparently usable meteorological and/or hydrographic data, namely, 91 per cent; only 6 per cent of the reviewed data is unusable and 3 per cent is for plants with which no contact was established.

The percentage distribution of onshore agencies by type of installation is of interest as shown in Table 4. The Coast Guard, meteorological substations, and water treatment plants all represent, numerically, data sources of the same order of magnitude. The numbers of data to be found in power plants and industries, and from the U. S. Lake Survey and the Canadian Hydrographic Service are each about half of the percentage represented by the aforementioned three source types. Other meteorological sources and the Sanitary District Observers are, in turn, nearly equal and each less than half the percentage of the latter two source types. There are very few paper mills, research, and special organizations that were uncovered as data sources by the project (together about 1 per cent of the total).

Table 4

Summary of Knowledge of All Potential Data Sources

| TYPE OF INSTALLATION | USABLE | | UNUSABLE | | NO CONTACT | | TOTAL | |
|---|---|---|---|---|---|---|---|---|
| | No. | % | No. | % | No. | % | No. | % |
| ONSHORE | | | | | | | | |
| Water treatment plants | 73 | 75 | 22 | 23 | 2 | 2 | 97 | 8.3 |
| Power plants and industries | 34 | 62 | 10 | 18 | 11 | 20 | 55 | 4.7 |
| U. S. Coast Guard | 124 | 100 | 0 | 0 | 0 | 0 | 124 | 10.5 |
| Paper mills | 3 | 50 | 0 | 0 | 3 | 50 | 6 | 0.5 |
| Sanitary District Observers | 21 | 100 | 0 | 0 | 0 | 0 | 21 | 1.8 |
| U. S. Weather Bureau 1st & 2nd Order, U.S. Naval & Air Force Bases, Canadian Meteorological Division I | 24 | 100 | 0 | 0 | 0 | 0 | 24 | 2.0 |
| U. S. Weather Bureau Cooperatives, Canadian Meteorological Division II, III, c | 132 | 100 | 0 | 0 | 0 | 0 | 132 | 11.2 |
| U. S. Lake Survey, Canadian Hydrographic Service | 55 | 100 | 0 | 0 | 0 | 0 | 55 | 4.7 |
| Other (research, individuals) | 6 | 100 | 0 | 0 | 0 | 0 | 6 | 0.5 |
| TOTAL ONSHORE | 472 | 90.8 | 32 | 6.2 | 16 | 3.0 | 520 | 44.2 |
| INLAND | | | | | | | | |
| U. S. Weather Bureau 1st & 2nd Order, U.S. Naval & Air Force Bases, Canadian Meteorological Division I | 67 | 100 | 0 | 0 | 0 | 0 | 67 | 5.7 |
| U. S. Weather Bureau Cooperatives, Canadian Meteorological Division II, III, c | 585 | 100 | 0 | 0 | 0 | 0 | 585 | 49.7 |
| Research installations | 5 | 100 | 0 | 0 | 0 | 0 | 5 | 0.4 |
| TOTAL INLAND | 657 | 100 | 0 | 0 | 0 | 0 | 657 | 55.8 |
| TOTAL ONSHORE AND INLAND SOURCES | 1129 | 95.9 | 32 | 2.7 | 16 | 1.4 | 1177 | 100.0 |

The 657 inland sources are, with the exception of five research installations, U. S. Weather Bureau, U. S. Naval Air, U. S. Air Force, or Canadian Meteorological Division stations. Data for all stations are usable, and all except those taken by the research groups are published.

The USWB Cooperatives and CMD Class II, III, and c stations comprise by far the largest single source of data ascertained by the project. This source represents half of the total number of hydrographic and meteorological stations existing within the Great Lakes watershed. Data recorded by these stations, while few in variety, are basic to future studies that may examine applicability of meteorological parameters to hydrographic and fisheries problems.

Table 5, entitled Summary of Knowledge of Usable Data Sources, presents a breakdown of sources from which data of apparent use to studies of Great Lakes hydrography and meteorology are available. Entries in this table have, as in Table 4, been categorized as onshore or inland, and are presented in terms of absolute number and per cent of total for each type agency.

The principal difference between Table 5 and Table 4 is the effect of the 47 water and power plant installations for which there were few usable data or with which no contact was established. These are not accounted for in Table 5 which shows the percentage distribution for usable data sources only. The reduction in numbers is reflected by the drop from 8.3 per cent in Table 4 to 6.5 per cent of the total in Table 5. Power plant and industries percentage took an even greater proportionate drop since 21 of the 55 plants possessed few usable data or else no contact could be established with plant personnel.

The results of this investigation are displayed in Tables 1, 2, and 3. The following data sources are not included in the Tables for reasons given on p. 110:

1. River discharge information obtainable from the U. S. Geological Survey and Canada Department of Northern Affairs and National Resources.
2. Information relating to meteorological observations obtained by lake freighters and other vessels.

Table 1 lists the sources of usable hydrographic and/or meteorological data that are located within two miles of the lake shores.

Table 2 lists the sources of usable meteorological data located more than two miles from the lake shores, but within the confines of the Great Lakes drainage basin. There are certain exceptions, namely, 126 U. S. Weather Bureau and Canadian Meteorological Division weather stations which lie just outside the limits of the drainage basin, but have been included in the compilation to provide more complete coverage in certain areas.

Table 3 lists the potential sources which were investigated and found to possess no usable data. This table also includes those agencies with which suitable liason or contact could not be established.

Table 5

Summary of Knowledge of Usable Data Sources

| TYPE OF INSTALLATION | FREQUENCY OF USABLE DATA SOURCES No. | % |
|---|---|---|
| ONSHORE | | |
| Water treatment plants | 73 | 6.5 |
| Power plants and industries | 34 | 3.0 |
| U. S. Coast Guard | 124 | 11.0 |
| Paper mills | 3 | 0.3 |
| Sanitary District Observers | 21 | 1.9 |
| U. S. Weather Bureau 1st & 2nd Order, U. S. Naval & Air Force Bases, Canadian Meteorological Division I | 24 | 2.1 |
| U. S. Weather Bureau Cooperatives, Canadian Meteorological Division II, III, c | 132 | 11.7 |
| U. S. Lake Survey, Canadian Hydrographic Service | 55 | 4.9 |
| Other (research, individuals) | 6 | 0.5 |
| TOTAL ONSHORE | 472 | 41.9 |
| INLAND | | |
| U. S. Weather Bureau 1st & 2nd Order, U. S. Naval & Air Force Bases, Canadian Meteorological Division I | 67 | 5.9 |
| U. S. Weather Bureau Cooperatives, Canadian Meteorological Division II, III, c | 585 | 51.8 |
| Research installations | 5 | 0.4 |
| TOTAL INLAND | 657 | 58.1 |
| TOTAL ONSHORE AND INLAND SOURCES | 1129 | 100.0 |

Figure 8 is a histogram of the information contained in Table 4. The contribution of each type of data source is shown by percentage frequency distribution. The open portion of each bar indicates the percentage of usable sources, and the shaded portions indicate the percentages of unusable and "no contact" sources.

Figure 9, also a histogram, summarizes the percentage of usable, unusable, and no contact sources for (1) the onshore sources, (2) the inland sources, and (3) the total sources for the entire drainage basin.

A bibliography is appended to this report which gives references on the subjects of hydrography and meteorology as they pertain to potentially applicable scientific problems of the Great Lakes.

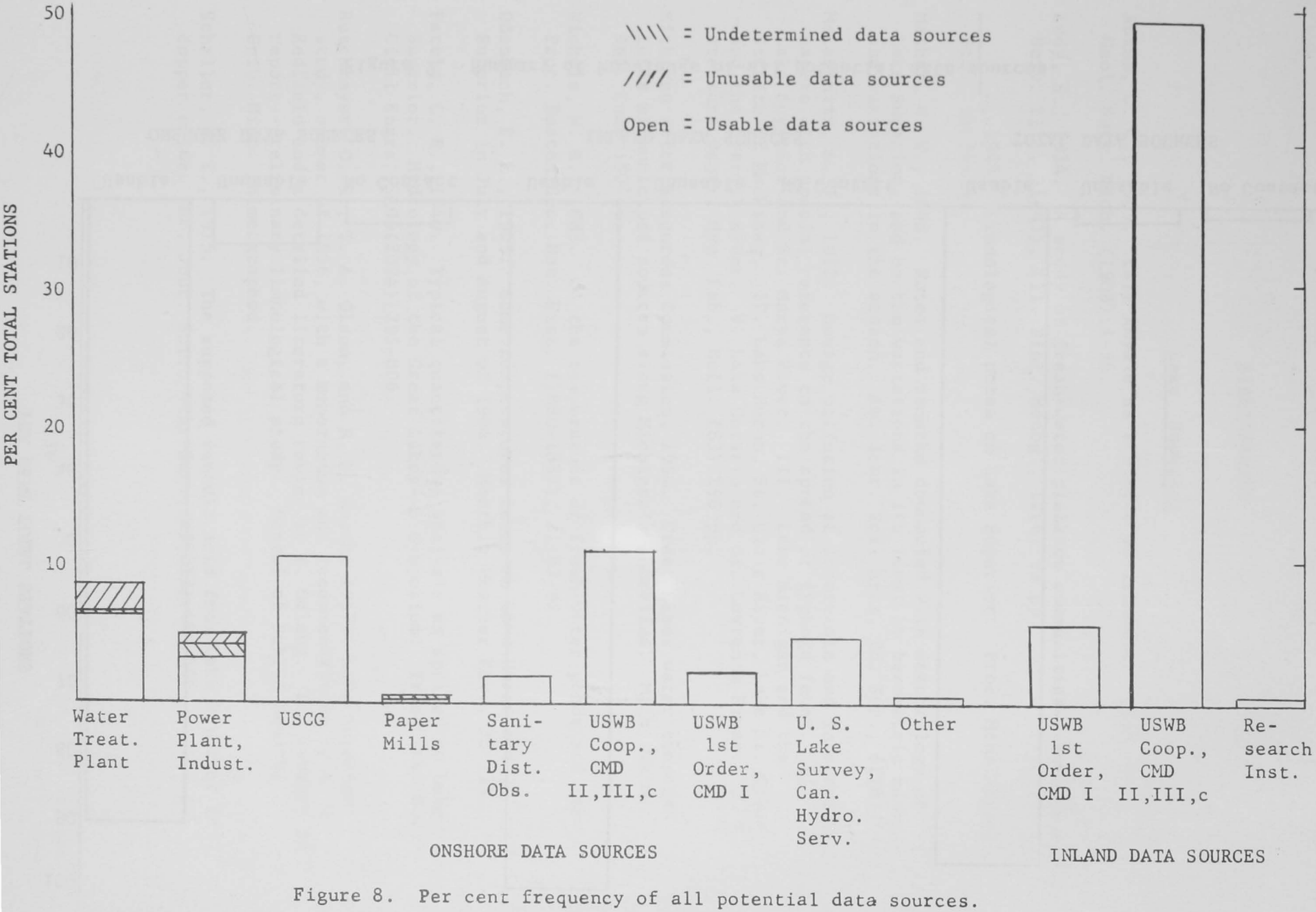


Figure 8. Per cent frequency of all potential data sources.

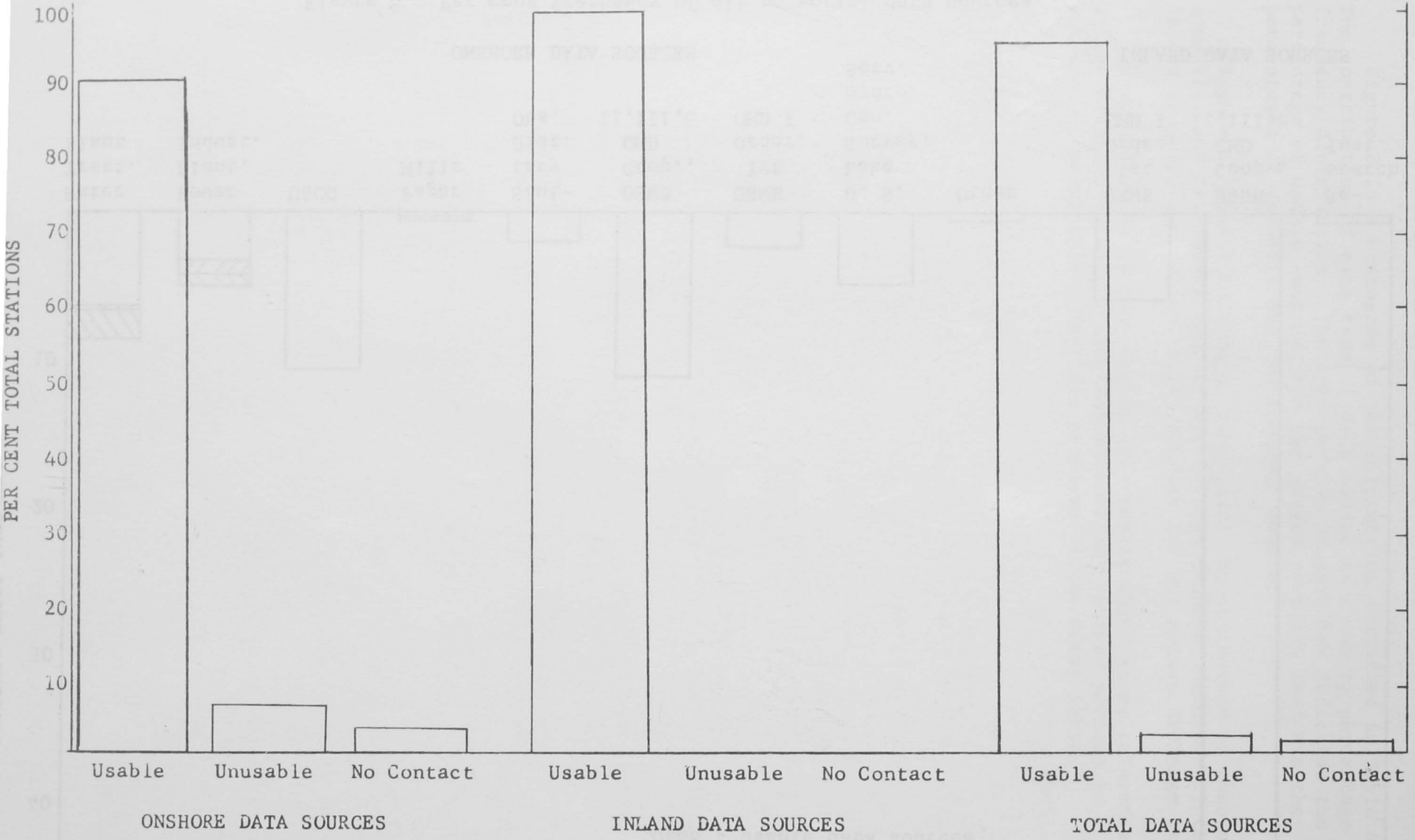


Figure 9. Summary of knowledge of all potential data sources.

Appendix I

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# APPENDIX II

## INDEX AND PERIOD OF RECORD FOR METEOROLOGICAL STATIONS IN ONTARIO

## JULY 1958

This appendix contains listings of all Ontario stations that make observations of the following meteorological elements:

1. Wind
2. Sunshine
3. Temperature
4. Precipitation

This index should be used as a supplement to the information on Ontario stations given in tables 1 and 2. There are many more stations reported here than are listed for Ontario in the two tables, because the tables were prepared to show only stations within the Great Lakes Drainage Basin. In this regard, the symbols OS, DB, DB*, and Out are used in the Notes column of the Appendix. These indicate into which classification the stations should be placed according to whether they are, respectfully, onshore stations, stations greater than two miles inland from the shore but within the Drainage Basin, within a few miles of the Drainage Basin boundary but geographically outside, or completely outside the Basin.

The parenthetical suffixes following the station listing indicate the type of observational facility, A for airport, R for radio range, etc. The notation A under the Active 1958 column heading indicates the station so marked was in operation at the time the index was compiled.

Explanatory prefaces to each of the sections of the Index are included as prepared by the Climatological Section of the Canadian Meteorological Division. Grateful acknowledgment is herewith tendered to that office for its cooperation and assistance.

### Index of Wind Reporting Stations in the Province of Ontario

1. Stations: This index contains a list of all the stations in the Province of Ontario which have reported autographic wind data since January 1922. Since January 1955, stations without autographic wind equipment, but which record hourly observations of wind as part of the aviation weather reports, have been included. Most of the stations will have fairly continous homogeneous records over the period of years involved, but at some the position of the anemometer may have been changed one or more times. For practical purposes, we have considered each station record as homogeneous.

2. Location: Precise location of each station is given in the January issues of the Monthly Record. In the list that follows, the county in which each observation station is located has been listed. Where stations have had different names, or where the period of record does not extend over the whole year, such facts are noted at the right hand side of the index.

3. Period of Record: The first month where data are available in the Meteorological Headquarters abstracts is shown as the date on which the station was opened. Similarly, the last month of record from the abstract is shown as the closed date. Stations in operation in July 1958 have been so marked in the proper column. When a station has appreciable break in the records, this fact has been noted.

4. Data: Percentage frequencies of wind direction and mean wind speed are shown for most of these stations in Climatic Summaries Volume II. From 1922 to 1954 the data have been abstracted from anemograms obtained from anemometers of the Robinson cup type. At the beginning of the period the four-cup anemometer was used, but during the early 1930's these were replaced by the three-cup anemometer. The anemograms record the number of miles of wind in each hour along with prevailing direction. Since January 1955, at those stations where hourly observations of the wind speed and direction are taken and recorded, these data have been processed instead of anemogram data. For practical purposes, data from the two sources should be considered as being the

same. At each observing station the anemometer is placed in the most representative location possible and an attempt is made to place the anemometer head thirty feet above the surface of the ground. A more complete discussion of wind data is to be found in the wind text of Climatic Summaries Volume II, Canadian Meteorological Division.

WIND RECORDS

| Station | County or District | Open | Closed | Active 1958 | Notes |
|---|---|---|---|---|---|
| Agincourt | York | Jan 1922 | Dec 1945 | | DB |
| | | Jan 1950 | | A | |
| Armstrong (A) | Thunder Bay | Aug 1938 | | A | Wagaming; DB |
| Camp Borden (A) | Simcoe | Jan 1940 | Oct 1945 | | DB |
| Caribou Island | Thunder Bay | Apr 1942 | | A | Summer station; OS |
| Centralia (A) | Huron | Aug 1950 | | A | DB |
| Chalk River | Renfrew | Sept 1931 | | A | DB |
| Clear Creek (R) | Norfolk | Jan 1955 | | A | OS |
| Cobourg | Northumberland | Jan 1926 | Apr 1950 | | OS |
| Cochrane | Cochrane | Jan 1924 | Dec 1938 | | Out |
| Earlton (A) | Timiskaming | Oct 1938 | | A | DB |
| Fergus | Wellington | Mar 1955 | | A | DB |
| Fort William (A) | Thunder Bay | Sept 1941 | | A | Lakehead Airport; OS |
| Fullarton | Perth | Jan 1958 | | A | DB |
| Gore Bay (A) | Manitoulin | Aug 1948 | | A | OS |
| Graham (A) | Thunder Bay | June 1951 | | A | DB |
| Guelph | Wellington | Jan 1922 | | A | DB |
| Haileybury | Timiskaming | Nov 1931 | Dec 1952 | | Out |
| Hamilton (Marine) | Wentworth | Nov 1953 | | A | OS |
| Hamilton (R.B.G.) | Wentworth | July 1951 | | A | OS |
| Kapuskasing (A) | Cochrane | June 1938 | | A | Out |
| Kenora (A) | Kenora | Feb 1923 | | A | Out |
| Killaloe (A) | Renfrew | Sept 1938 | | A | DB |
| Kingston | Frontenac | Jan 1922 | June 1942 | | OS |
| Lansdowne House | Patricia | Jan 1957 | | A | Out |
| London (A) | Middlesex | Aug 1940 | | A | DB |
| London (Lambeth) | Middlesex | Mar 1931 | July 1940 | | DB |
| Long Point | Norfolk | Apr 1922 | Dec 1954 | | Summer station; OS |
| Main Duck Island | Prince Edward | May 1944 | Nov 1954 | | Summer station; OS |
| Maitland | Grenville | Dec 1952 | June 1953 | | OS |
| Malton (A) | York | Nov 1937 | | A | Toronto Malton Airport; DB |
| Moosonee | Cochrane | Jan 1938 | Mar 1939 | | |
| | | Feb 1943 | | A | Out |
| Muskoka (A) | Muskoka | Aug 1938 | | A | DB |
| Nakina (A) | Thunder Bay | May 1939 | | A | DB |
| North Bay (A) | Nipissing | Jan 1939 | | A | DB |
| Oak Ridges | York | Jan 1922 | Sept 1941 | | Aurora; DB |
| Ottawa (A) | Carleton | Nov 1939 | | A | Ottawa Uplands Airport; DB* |
| Ottawa (Exp. Farm) | Carleton | May 1934 | Dec 1940 | | Out |
| Ottawa (N.R.C.) | Carleton | Dec 1951 | | A | Out |
| Pagwa (A) | Cochrane | Nov 1938 | | A | DB* |

| Station | County or District | Open | Close | Active 1958 | Notes |
|---|---|---|---|---|---|
| Parry Sound | Parry Sound | Jan 1922 | Dec 1949 | | OS |
| Pickle Lake | Patricia | Nov 1955 | | A | Out |
| Porquis Junction (A) | Cochrane | Jan 1939 | Mar 1955 | A | Out |
| Port Arthur | Thunder Bay | Jan 1922 | July 1941 | | OS |
| Rockcliffe (A) | Carleton | Aug 1950 | | A | Ottawa Rockcliffe Airport; DB* |
| St. Catharines (P. Lab.) | Lincoln | July 1952 | | A | DB |
| Sarnia (R) | Lambton | Sept 1948 | June 1951 | | OS |
| Sioux Lookout (A) | Kenora | Jan 1936 | June 1950 | | Out |
| | | Jan 1955 | | | |
| Southampton | Bruce | Jan 1922 | Dec 1945 | | |
| | | Nov 1951 | Nov 1952 | | |
| | | Dec 1954 | | A | Broken from 1955 on; OS |
| South Bay Mouth | Manitoulin | July 1954 | | A | OS |
| Stirling (R) | Hastings | Mar 1940 | | A | DB |
| Sudbury (A) | Sudbury | Jan 1954 | | A | DB |
| Sudbury | Sudbury | Oct 1947 | Jan 1955 | | DB |
| Timmins (A) | Cochrane | Apr 1955 | | A | Out |
| Toronto | York | Jan 1922 | | A | OS |
| Toronto (Downsview) (A) | York | Oct 1956 | | A | DB |
| Trenton (A) | Hastings | Apr 1941 | Dec 1941 | | |
| | | Jan 1947 | | A | OS |
| Trout Lake | Patricia | July 1953 | | A | Out |
| Vineland | Lincoln | Apr 1932 | Feb 1958 | | DB |
| White River | Algoma | Jan 1922 | | A | DB |
| Wiarton (A) | Bruce | Jan 1955 | | A | OS |
| Windsor (A) | Essex | Sept 1940 | | A | DB |

## Index of Bright Sunshine Reporting Stations in the Province of Ontario

1. Stations: This index is a list of all the stations in the Province of Ontario which have reported bright sunshine data since 1881. While there have been relocations of some of the stations, for practical purposes, all the data for each station should be considered as homogeneous.

2. Location: The precise location of each station in this index is shown in the January issue of the Monthly Record during many of the years of record for each station. Alternate station names and whether or not the record is complete for the year as a whole is shown on the right hand side of the index.

3. Period of Record: The first month where data are available in Meteorological Headquarters abstracts is shown as the date on which the station opened. Similarly, the last month of record in the abstract is shown as the closed date. Where stations were in operation in July 1958 the symbol A has been shown in the proper column.

4. Bright Sunshine Data: In Canada, bright sunshine is recorded on a Campbell-Stokes recorder. By means of a glass sphere, sunshine is focused to produce a burn on a narrow sunshine chart from which the observer is able to scale off the number of hours a day on which a bright sun was shining. These daily totals, which are scaled off to a tenth of an hour, are added to give the monthly total of bright sunshine in hours. The recorder, which is usually placed on a stand, is mounted free from all obstructions from horizon to horizon so that no shadows will fall across

the recorder in any season. Attention should be given to the fact that the Canadian bright sunshine values differ from the U.S.W.B. values of visible sunshine. Visible sunshine values are usually considerably higher than bright sunshine values since the sunshine will not register on a Campbell-Stokes recorder when there is a thin layer of high cloud or in the intervals about one half an hour after sunrise and before sunset.

SUNSHINE RECORDS

| Station | County or District | Open | Close | Active 1958 | Notes |
|---|---|---|---|---|---|
| Armstrong (A) | Thunder Bay | Aug 1938 | | A | Wagaming; DB |
| Barrie | Simcoe | Dec 1882 | Aug 1903 | | |
| | | Sept 1905 | Dec 1931 | | DB |
| Belleville (Par. Lab.) | Hastings | Sept 1929 | Apr 1953 | | OS |
| Brampton | Peel | July 1950 | | A | DB |
| Caribou Island | Thunder Bay | May 1944 | | A | Summer station; OS |
| Chalk River | Renfrew | Sept 1931 | | A | DB |
| Chatham | Kent | Oct 1933 | | A | DB |
| Combermere | Renfrew | Feb 1957 | | A | Out |
| Cornwall | Stormont | Sept 1882 | Dec 1887 | | Out |
| Cornwall (O. Hydro.) | Stormont | Mar 1957 | | A | Out |
| Delhi | Norfolk | Nov 1934 | | A | DB |
| Durham | Grey | Oct 1897 | July 1901 | | DB |
| Fullarton | Perth | Nov 1957 | | A | DB |
| Gravenhurst | Muskoka | May 1902 | Nov 1908 | | |
| | | Feb 1915 | May 1922 | | DB |
| Guelph | Wellington | Oct 1914 | | A | DB |
| Haileybury | Timiskaming | June 1906 | Aug 1922 | | Out |
| Harrow | Essex | May 1918 | | A | DB |
| Hearst | Cochrane | Jan 1931 | Mar 1931 | | Out |
| Kapuskasing | Cochrane | May 1918 | | A | Experimental Farm; Out |
| Kingston | Frontenac | Oct 1882 | | A | OS |
| Kingsville | Essex | Oct 1890 | Sept 1892 | | OS |
| Kohler | Haldimand | June 1949 | | A | DB |
| Lindsay | Victoria | Aug 1882 | | A | DB |
| London (Lambeth) | Middlesex | Nov 1935 | July 1941 | | DB |
| London (A) | Middlesex | Aug 1942 | | A | DB |
| Maitland | Grenville | June 1953 | Apr 1954 | | OS |
| Moosonee | Cochrane | Oct 1932 | | A | Out |
| New Liskeard | Timiskaming | Jan 1924 | Apr 1933 | | |
| | | May 1935 | Feb 1937 | | |
| | | July 1943 | | A | Out |
| Oak Ridges | York | Mar 1920 | Nov 1957 | | Aurora; DB |
| Ottawa (City) | Carleton | Jan 1916 | Dec 1919 | | DB* |
| Ottawa (Exp. Farm) | Carleton | Jan 1898 | | A | DB* |
| Pembroke | Renfrew | May 1883 | May 1888 | | Out |
| St. Catharines | Lincoln | Aug 1882 | Dec 1884 | | DB |
| St. Catharines (P. Lab.) | Lincoln | Nov 1928 | | A | DB |

| Station | County or District | Open | Close | Active 1958 | Notes |
|---|---|---|---|---|---|
| Stratford | Perth | Sept 1882 | June 1888 | | DB |
| Sudbury | Sudbury | Nov 1944 | Dec 1946 | | DB |
| Toronto | York | Aug 1881 | | A | OS |
| Turbine | Sudbury | Jan 1921 | | A | High Falls; DB |
| Vineland | Lincoln | Feb 1915 | | A | DB |
| Walker's Point | Muskoka | Nov 1928 | Nov 1934 | | DB |
| Windsor | Essex | Sept 1882 | Dec 1887 | | OS |
| Woodstock | Oxford | Nov 1881 | | A | DB |

## Index of Temperature and Precipitation Reporting Stations in the Province of Ontario

1. Stations: This index contains the names of all the stations in the Province of Ontario which have reported temperature and precipitation data for a period of six months or longer. Where two or more names have been used for a station, the other names are shown in the remarks column. In most cases the most recent official station name is used, but in some instances where there is more than one station at a city or town, a differentiation is made in the station name to point out the different sites of the observation stations. However, usually no indication is given whether or not the station location has been changed over the period of record. While some stations will have continuous homogeneous records over a long period of years, other stations have been moved frequently with the result that the data may not be strictly homogeneous.

2. County: Location of each station listed is restricted to the name of the county or district in which the station lies. Complete location information in the form of latitude and longitude coordinates and heights above sea level are given in the January issues of the Monthly Record. These indexes are available from 1916 to 1955 except for the even numbered years during the decade of the 1940's. For stations in operation prior to 1916 an index with coordinates is shown in each issue of the Annual Report of the Meteorological Service of Canada.

3. Period of Record: The first month where data are available in the Meteorological Headquarters abstracts is shown as the date on which the station opened. Similarly, the last month of record in the abstract is shown as the closed date. Where stations are in operation in July 1958, the symbol A has been shown in the proper column. Breaks in the record of less than six months have not been indicated. However, where there are breaks of more than six months but less than a year, this fact has been entered in the remarks column. When the break is more than a year, the period of record is shown in two segments.

4. Temperature: The temperature data referred to have been obtained from temperature observations read from official thermometers in standard shelters. These shelters protect thermometers against radiation and weather and during the early part of the period were located on a north wall. However, for the past several decades at each station the thermometers have been housed in a Stevenson screen over a relatively level grassy surface with the bulbs of the thermometers about four feet above the surface of the ground.

5. Precipitation: Precipitation data consists of rainfall data taken from official raingauge observations and snowfall data which are observed as the snow lies on the ground. The top of the raingauge is usually located one foot above a level grassy surface. In reducing snowfall data to the water equivalent, a ten to one arbitrary relationship is assumed, that is, the equivalent of ten inches of snow is taken to be one inch of water.

6. Classification of Station: All stations should be considered as having both temperature extremes and precipitation data except those marked with a capital P in the proper column. Sometimes a station started as a "precipitation only" station and then at a later date became a temperature reporting station. This fact is noted in the remarks column. Further information on "summer only" stations and other notes of value to the user of the data will be found in this column. For explanation of the symbols OS, DB, DB*, and Out, see the introductory remarks on page 160.

TEMPERATURE AND PRECIPITATION RECORDS

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Abitibi Canyon | Cochrane | Jan 1931 | | A | | Out |
| Agincourt | York | Jan 1896 | | A | | DB |
| Aguasabon | Thunder Bay | June 1950 | | A | | Out |
| Ailsa Craig | Middlesex | Jan 1871 | June 1873 | | | |
| | | Jan 1883 | Apr 1888 | | | DB |
| Albany | Patricia | June 1934 | May 1939 | | | Broken record; Out |
| Albion | Peel | Apr 1956 | | A | P | DB |
| Aldershot | Halton | Feb 1947 | | A | P | DB |
| Aldershot (O. Hydro.) | Halton | Apr 1951 | | A | | Burlington T.S.; DB |
| Alexandria | Glengarry | July 1888 | Dec 1893 | | | Out |
| Algonquin Park | Nipissing | July 1917 | | A | | DB |
| Alliston | Simcoe | Mar 1953 | | A | P | DB |
| Alloa | Peel | Nov 1950 | Nov 1954 | | | Broken record; DB |
| Almonte | Lanark | Feb 1912 | Apr 1922 | | | |
| | | Sept 1948 | Nov 1949 | | | Out |
| Alton | Peel | Jan 1887 | | A | | Data doubtful since 1936; DB |
| Amherstburg | Essex | June 1883 | July 1884 | | P | OS |
| Angus | Simcoe | Jan 1930 | | A | | DB |
| Apple Hill | Glengarry | Nov 1950 | | A | | Out |
| Apsley | Peterborough | Mar 1922 | Dec 1940 | | | |
| | | Dec 1944 | Mar 1957 | | | Broken record; DB |
| Arden | Frontenac | Jan 1895 | Jan 1911 | | | DB |
| Armstrong (A) | Thunder Bay | Aug 1938 | | A | P | Wagaming; DB |
| Armstrong | Thunder Bay | May 1926 | Oct 1947 | | | Summer station 1939-1947; DB |
| Atikokan | Rainy River | Feb 1916 | Oct 1916 | | | |
| | | Feb 1918 | | A | | DB |
| Augusta | Grenville | Jan 1883 | July 1883 | | P | DB |
| Aurora | York | May 1884 | Apr 1919 | | | DB |
| Axe Lake | Parry Sound | Feb 1885 | Dec 1898 | | P | Broken record (Spence); DB |
| Aylmer | Elgin | Sept 1883 | May 1888 | | | |
| | | May 1948 | June 1956 | | | |
| | | June 1957 | | A | P | Out |
| Aylmer (2) | Elgin | June 1958 | | A | | Out |
| Ayr | Waterloo | Apr 1956 | | A | | DB |
| Bala | Muskoka | July 1883 | Dec 1907 | | | Whiteside; DB |
| Bancroft | Hastings | Jan 1884 | Mar 1886 | | | |
| | | Oct 1889 | Dec 1900 | | | |
| | | Jan 1905 | Sept 1945 | | | |
| | | Dec 1946 | Dec 1947 | | | |
| | | Apr 1949 | Dec 1955 | | | DB* |
| Barclay | Kenora | Apr 1887 | Dec 1890 | | P | |
| | | Apr 1894 | Nov 1896 | | | DB |
| Bark Lake Dam | Renfrew | Jan 1950 | | A | | DB* |
| Barrett Chute | Renfrew | May 1950 | | A | P | Out |
| Barrie | Simcoe | Mar 1866 | Dec 1901 | | | Broken record |
| | | Jan 1907 | Dec 1921 | | | |
| | | Sept 1923 | Feb 1924 | | | |
| | | Jan 1927 | July 1936 | | | |
| | | June 1950 | | A | | DB |
| Bear Island | Nipissing | May 1916 | Jan 1917 | | | Beards - |
| | | Aug 1918 | July 1949 | | | Broken record; DB |
| | | June 1950 | | A | | |
| Beatrice | Muskoka | Mar 1876 | | A | | Rosehill; DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Beaverton | Ontario | Mar 1948 | June 1949 | | | |
| | | Jan 1951 | | A | | Broken record; DB |
| Beeton | Simcoe | Nov 1916 | | A | | DB |
| Beggsboro | Parry Sound | June 1884 | Feb 1901 | | | Sprucedale; DB |
| Bell Rock | Frontenac | May 1957 | | A | P | to T and P; DB |
| Belleville | Hastings | Jan 1866 | May 1878 | | | |
| | | May 1883 | Sept 1890 | | | |
| | | Jan 1892 | Apr 1904 | | | |
| | | Jan 1921 | | A | | OS |
| Belleville (Par. Lab.) | Hastings | Aug 1929 | | A | | OS |
| Benny | Sudbury | Nov 1948 | Oct 1956 | | P | Espanola; DB |
| Big Chaudiere Falls | Parry Sound | May 1918 | Nov 1919 | | | |
| | | Jan 1921 | Dec 1930 | | P | DB |
| Big Chute (Buckskin) | Muskoka | May 1913 | May 1916 | | | |
| | | May 1920 | Feb 1924 | | | Broken record |
| | | Dec 1956 | | A | P | DB |
| Bingham Chute | Parry Sound | Feb 1933 | | A | | DB |
| Birnam | Lambton | Oct 1882 | Mar 1915 | | | Arkona broken; DB |
| Biscotasing | Sudbury | Oct 1887 | Apr 1889 | | | |
| | | June 1890 | July 1891 | | | |
| | | Jan 1895 | July 1896 | | | |
| | | Jan 1900 | Dec 1900 | | | |
| | | Dec 1926 | | A | | DB |
| Black Sturgeon Lake | Thunder Bay | May 1951 | Aug 1954 | | | Summer station; DB |
| Black Sturgeon River | Thunder Bay | Oct 1957 | | A | | DB |
| Blenheim | Kent | Apr 1883 | Dec 1897 | | P | DB |
| Blind River | Algoma | Apr 1926 | Dec 1940 | | | |
| | | July 1956 | Oct 1957 | | | Broken record; OS |
| Bloomfield | Prince Edward | Apr 1896 | June 1903 | | | |
| | | Feb 1906 | Dec 1933 | | | OS |
| Bobcaygen | Victoria | May 1883 | May 1897 | | P | DB |
| Bognor | Grey | May 1883 | Sept 1900 | | | Bond Head; DB |
| Bowmanville | Durham | Aug 1947 | Dec 1957 | | | OS |
| Bow Park (Brantford) | Brant | Oct 1912 | Dec 1913 | | | DB |
| Bracebridge | Muskoka | Sept 1882 | Mar 1886 | | P | DB |
| Bradford | Simcoe | Sept 1951 | June 1957 | | P | in 1957; DB |
| Bradford (2) | Simcoe | Aug 1954 | | A | | DB |
| Brampton | Peel | Jan 1871 | Dec 1888 | | | DB |
| | | May 1948 | | A | | DB |
| Brantford | Brant | Jan 1876 | May 1878 | | | |
| | | Apr 1881 | Aug 1915 | | | |
| | | Jan 1917 | Dec 1920 | | | |
| | | Jan 1922 | May 1930 | | | |
| | | Jan 1931 | Jan 1957 | | | Broken record |
| | | Mar 1958 | | A | | DB |
| Brechin | Simcoe | Jan 1883 | Oct 1883 | | P | DB |
| Brighton | Northumberland | May 1948 | Aug 1950 | | | OS |
| Brockville | Leeds | Nov 1871 | June 1879 | | | |
| | | Jan 1889 | Apr 1890 | | | |
| | | July 1915 | | A | | DB |
| Broddytown | Peel | July 1951 | Aug 1956 | | | DB |
| Brucefield | Huron | Apr 1903 | | A | | Clinton; DB |
| Bruce Mines | Algoma | Sept 1898 | Dec 1914 | | | OS |
| Brule Lake | Nipissing | May 1926 | Aug 1933 | | P | DB |
| Buda | Thunder Bay | Jan 1887 | June 1887 | | | |
| | | June 1890 | Dec 1892 | | | DB |
| Burleigh | Peterborough | June 1883 | Nov 1887 | | P | DB |
| Burlington | Halton | Apr 1947 | May 1950 | | | |
| | | Mar 1951 | | A | | OS |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Burnamthorpe | Peel | May 1951 | Mar 1955 | | P | DB |
| Calabogie | Renfrew | Jan 1950 | Mar 1956 | | P | Out |
| Caledonia | Haldimand | Jan 1931 | | A | | DB |
| Calvin | Nipissing | Apr 1895 | Dec 1922 | | | Out |
| Cameron Falls | Thunder Bay | June 1924 | | A | | Broken record; DB |
| Campbellcroft | Durham | May 1948 | Sept 1950 | | P | Summer station; DB |
| Campbellford | Northumberland | July 1915 | | A | | DB |
| Campbellford (2) | Northumberland | Feb 1929 | Nov 1937 | | P | Healey Falls; DB |
| Camp Borden (A) | Simcoe | Sept 1926 | Feb 1928 | | | |
| | | May 1934 | Oct 1945 | | | DB |
| Canboro | Haldimand | Sept 1946 | | A | | DB |
| Cannington | Ontario | May 1883 | Nov 1885 | | | |
| | | Jan 1889 | June 1890 | | P | DB |
| Capreol | Sudbury | Mar 1916 | Dec 1920 | | P | DB |
| Caramat | Thunder Bay | May 1949 | Aug 1957 | | | DB |
| Caribou Island | Thunder Bay | May 1935 | | A | | Summer station; OS |
| Caribou Lake | Thunder Bay | Aug 1930 | Sept 1936 | | P | Summer station; DB |
| Carleton Place | Lanark | Aug 1948 | | A | P | Out |
| Cartier | Sudbury | Jan 1887 | July 1901 | | | Broken record |
| | | Oct 1945 | Apr 1948 | | | DB |
| Cayuga | Haldimand | Apr 1885 | Sept 1887 | | P | Broken record |
| | | Apr 1889 | June 1890 | | | |
| | | Jan 1892 | July 1903 | | | DB |
| Centralia (A) | Huron | Oct 1942 | | A | | DB |
| Central Patricia | Patricia | Aug 1953 | | A | | Out |
| Chalk River | Renfrew | Sept 1931 | | A | | DB |
| Chapleau | Sudbury | Aug 1889 | Feb 1891 | | | |
| | | July 1913 | | A | | DB |
| Charlinch | Muskoka | Aug 1883 | Dec 1892 | | | Hoodstown; DB |
| Chatham | Kent | Apr 1883 | Sept 1946 | | | DB |
| Chatham (CFCO) | Kent | Oct 1946 | | A | | DB |
| Chats Falls | Carleton | June 1950 | | A | | Out |
| Chatsworth | Grey | Dec 1952 | | A | | DB |
| Cheltenham | Peel | Oct 1950 | Oct 1951 | | P | DB |
| Chenaux | Renfrew | May 1950 | | A | | Out |
| City View | Carleton | Oct 1953 | | A | P | Out |
| Clarkson | Peel | Nov 1949 | | A | | DB |
| Clear Creek (R) | Norfolk | May 1942 | | A | | OS |
| Clifford | Wellington | Aug 1950 | | A | P | DB |
| Clinton | Huron | Mar 1956 | | A | | DB |
| Clontarf | Renfrew | June 1882 | | A | | Out |
| Cobourg | Northumberland | May 1925 | Dec 1932 | | | Broken record |
| | | Nov 1948 | Nov 1951 | | | |
| | | Apr 1956 | | A | | OS |
| Cochrane | Cochrane | June 1910 | | A | | Out |
| Cochrane (For.) | Cochrane | May 1926 | Dec 1932 | | | Out |
| Cockburn Island | Manitoulin | Oct 1897 | Feb 1910 | | | OS |
| Coe Hill | Hastings | Apr 1948 | Sept 1957 | | P | to T and P; DB |
| Colborne | Northumberland | Jan 1883 | Mar 1886 | | | Carlow |
| | | June 1924 | Mar 1925 | | | OS |
| Coldstream | Simcoe | July 1888 | Aug 1899 | | P | DB |
| Coldwater | Simcoe | May 1883 | Jan 1923 | | | |
| | | Dec 1925 | | A | | Broken record; DB |
| Collingwood | Simcoe | Nov 1869 | Jan 1873 | | | |
| | | Jan 1892 | Oct 1906 | | | |
| | | Aug 1910 | Apr 1917 | | | |
| | | Jan 1920 | Dec 1926 | | | 1925 obs. no good |
| | | Jan 1935 | | A | P | DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Collingwood (Blue Mtns.) | Simcoe | Jan 1896 | May 1901 | | | DB |
| Combermere | Renfrew | Jan 1956 | May 1957 | | | Out |
| Conistogo | Waterloo | June 1880 | Dec 1890 | | | |
| | | Jan 1894 | Oct 1898 | | | DB |
| Coniston | Sudbury | Apr 1921 | | A | | DB |
| Copetown | Wentworth | June 1882 | Sept 1892 | | P | Nelson; DB |
| Copper Cliff | Sudbury | Nov 1906 | Oct 1914 | | | DB |
| Cornwall | Stormont | Jan 1867 | Dec 1887 | | P | |
| | | Apr 1948 | May 1950 | | P | Out |
| Cornwall (CKSF) | Stormont | Nov 1950 | | A | | Out |
| Cornwall (O. Hydro.) | Stormont | Dec 1954 | | A | | Out |
| Cornwall (St. L.H.S.) | Stormont | Jan 1958 | | A | | Out |
| Cottam | Essex | June 1882 | Feb 1922 | | | DB |
| Couchiching Falls | Simcoe | July 1918 | Oct 1923 | | P | DB |
| Credit | Peel | Sept 1880 | Oct 1890 | | P | Summer only; DB |
| Crewson Corners | Wellington | Oct 1957 | | A | P | DB |
| Croydon | Lennox & Add. | Jan 1895 | July 1908 | | P | DB |
| Crystal Falls | Nipissing | May 1922 | | A | | Formerly called Smoky Falls; DB |
| Dacre | Renfrew | June 1926 | Aug 1936 | | | Summer station; Out |
| Dale | Durham | June 1957 | | A | | Summer station; DB |
| Dalhousie Lake | Lanark | Sept 1923 | | A | P | High Falls; DB* |
| Dalhousie Mills | Glengarry | Apr 1899 | Dec 1901 | | | Out |
| Dealtown | Kent | Apr 1883 | Sept 1904 | | P | DB |
| De Cewsville | Haldimand | Feb 1889 | Dec 1890 | | | |
| | | Jan 1892 | Dec 1897 | | | DB |
| Delaware | Middlesex | Jan 1883 | Oct 1886 | | P | DB |
| Delhi | Norfolk | June 1934 | | A | | DB |
| Denbigh | Lennox & Add. | June 1883 | Dec 1896 | | P | Out |
| Des Joachims | Renfrew | May 1950 | | A | P | Out |
| Desoronto | Hastings | June 1882 | Sept 1905 | | | OS |
| Dog Lake | Thunder Bay | July 1950 | | A | | DB |
| Dog Lake Dam | Thunder Bay | July 1923 | Nov 1930 | | P | Kaminstikwia; DB |
| Dog River | Thunder Bay | Sept 1957 | | A | | DB |
| Dome | Cochrane | Mar 1911 | June 1915 | | | South Porcupine; Out |
| Domville | Grenville | Feb 1948 | Aug 1954 | | P | DB |
| Dona | Thunder Bay | Oct 1926 | | A | P | DB |
| Doon | Waterloo | May 1948 | Dec 1953 | | P | DB |
| Dorset | Muskoka | Aug 1949 | Oct 1954 | | | DB |
| Drayton | Wellington | May 1883 | Aug 1889 | | P | DB |
| Dresden | Kent | July 1956 | | A | | DB |
| Dryden | Kenora | Feb 1914 | | A | | Out |
| Dunbarton | Ontario | Nov 1956 | | A | P | Summer station; OS |
| Dundas | Wentworth | Apr 1870 | Feb 1874 | | | DB |
| Dunnville | Haldimand | Jan 1900 | Dec 1902 | | | Pcpn only to 1957 |
| | | Oct 1953 | | A | | DB |
| Dunnville (A) | Haldimand | May 1941 | Oct 1944 | | | DB |
| Dunnville (2) | Haldimand | July 1956 | May 1957 | | | DB |
| Dunvegan | Glengarry | Oct 1947 | Aug 1949 | | | Out |
| Durham | Grey | June 1882 | July 1901 | | | |
| | | Sept 1927 | Dec 1928 | | | |
| | | Sept 1935 | Jan 1937 | | | |
| | | Nov 1947 | | A | | Edgehill; DB |
| Dutton | Elgin | Mar 1913 | July 1922 | | | |
| | | Jan 1926 | Feb 1928 | | | DB |
| Dutton (Cowal) | Elgin | Apr 1883 | Dec 1914 | | P | Broken record; DB |
| Dyment | Kenora | Dec 1925 | Oct 1927 | | | Out |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Ear Falls | Patricia | Oct 1928 | Aug 1939 | | | |
| | | Jan 1950 | | A | | Out |
| Earlton (A) | Timiskaming | Sept 1938 | | A | | DB |
| Edwardsburg | Grenville | June 1882 | Dec 1887 | | P | DB |
| Egmondsville | Huron | July 1882 | Dec 1887 | | P | DB |
| Egremont | Grey | Mar 1880 | Dec 1893 | | | DB |
| Elk Lake | Timiskaming | July 1926 | Oct 1927 | | P | Out |
| Elmira | Waterloo | May 1955 | | A | | Summer station; DB |
| Elmvale | Simcoe | May 1947 | Jan 1952 | | Pc | Pcpn only to 1951; DB |
| Elora | Wellington | Jan 1882 | Apr 1895 | | | |
| | | Apr 1909 | Jan 1923 | | | DB |
| Elsas | Algoma | Dec 1924 | Oct 1930 | | | Out |
| Emo | Rainy River | Apr 1922 | | A | | Out |
| Emo (2) | Rainy River | May 1957 | | A | | Pcpn only to 1958; Out |
| Emsdale | Parry Sound | Jan 1895 | June 1924 | | | |
| | | June 1934 | Sept 1952 | | P | DB |
| Englehart | Timiskaming | May 1948 | | A | | Out |
| Ennismore | Peterborough | May 1882 | Jan 1910 | | P | DB |
| Erasmus | Dufferin | Jan 1896 | Dec 1903 | | | DB |
| Espanola | Sudbury | Mar 1920 | July 1930 | | | Broken record; DB |
| Eugenia | Grey | May 1916 | | A | P | DB |
| Fenelon Falls | Victoria | July 1915 | Aug 1917 | | P | |
| | | Jan 1921 | | A | | DB |
| Fergus | Wellington | Jan 1883 | June 1894 | | P | |
| | | Oct 1939 | | A | | DB |
| Fitzroy Harbour | Carleton | Apr 1870 | Dec 1884 | | | |
| | | Jan 1886 | Nov 1887 | | | Out |
| Florence | Lambton | Feb 1883 | May 1887 | | | DB |
| Foleyet | Sudbury | Apr 1931 | | A | | DB |
| Fonthill | Welland | Nov 1945 | Dec 1947 | | | Ridgeville; DB |
| Forest | Lambton | Sept 1924 | | A | | DB |
| Fort Frances | Rainy River | Jan 1892 | Sept 1896 | | | |
| | | Sept 1912 | Feb 1915 | | | |
| | | Oct 1916 | | A | | Out |
| Fort Frances (For) | Rainy River | May 1943 | | A | | Summer station; Out |
| Fort Hope | Patricia | Jan 1879 | June 1881 | | | Martins Falls to 1881 |
| | | Jan 1895 | Dec 1909 | | | |
| | | Jan 1917 | Aug 1923 | | | Out |
| Fort William (A) | Thunder Bay | May 1924 | June 1931 | | | Broken record |
| | | Aug 1941 | | A | | Fort William/Port Arthur, Lakehead Airport; OS |
| Franz | Algoma | July 1917 | Apr 1951 | | | |
| | | Feb 1953 | | A | | DB |
| Franz (Forestry) | Algoma | May 1944 | Aug 1952 | | | Summer only, broken record; DB |
| Frederickhouse Lake Dam | Cochrane | Jan 1950 | | A | | Out |
| Fournier | Prescott | May 1957 | | A | | Out |
| Foymount | Renfrew | Apr 1956 | | A | P | Out |
| Fullarton | Perth | Aug 1956 | | A | | DB |
| Galt | Waterloo | Jan 1878 | June 1898 | | | |
| | | Apr 1948 | | A | | DB |
| Geraldton (O. Hydro.) | Thunder Bay | June 1950 | | A | P | DB |
| Geraldton (For) | Thunder Bay | July 1948 | | A | | (1948-51 summer station); DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Georgetown | Halton | Jan 1885 | | A | | DB |
| Georgina (Sutton) | York | Oct 1869 | Mar 1908 | | | Broken record; DB |
| Gilmour | Hastings | June 1948 | Feb 1955 | | | |
| | | Jan 1956 | Sept 1957 | | | Broken record; DB |
| Glastonbury | Lennox & Add. | Apr 1883 | Nov 1885 | | P | |
| | | Jan 1892 | July 1894 | | | |
| | | Jan 1896 | Dec 1897 | | | DB |
| Glen Allen | Wellington | Aug 1955 | Oct 1957 | | P | Summer station; DB |
| Glen Cairn | Simcoe | May 1883 | Dec 1886 | | P | DB |
| Glencoe | Middlesex | Apr 1870 | June 1873 | | | |
| | | Oct 1882 | Sept 1883 | | P | |
| | | May 1948 | | A | | DB |
| Glen Collin | Elgin | Mar 1958 | | A | | DB |
| Gloucester | Carleton | June 1954 | Dec 1954 | | P | Out |
| Goderich | Huron | Dec 1866 | Dec 1887 | | | |
| | | Aug 1929 | Jan 1951 | | | OS |
| Goderich Lighthouse | Huron | Jan 1875 | Dec 1887 | | P | |
| | | Jan 1906 | Mar 1911 | | | |
| | | Mar 1912 | Dec 1914 | | | OS |
| Goderich Township | Huron | Mar 1915 | | A | | Goderich (Ridge - crest); OS |
| Gogama | Sudbury | May 1926 | Nov 1934 | | P | Out |
| Goodham | Haliburton | June 1948 | | A | | Broken record; DB |
| Goose Island | Patricia | July 1930 | Nov 1936 | | | Summer station; Out |
| Gore Bay | Manitoulin | Oct 1915 | | A | | OS |
| Gore Bay (A) | Manitoulin | July 1947 | | A | | OS |
| Gores Landing | Northumberland | Aug 1943 | | A | | DB |
| Graham (A) | Thunder Bay | Oct 1948 | | A | | DB |
| Grand Valley | Dufferin | Mar 1910 | Nov 1917 | | P | |
| | | May 1934 | Nov 1939 | | | DB |
| Granton | Middlesex | Jan 1873 | Dec 1886 | | | DB |
| Grasset | Algoma | Sept 1913 | Dec 1914 | | | Instruments moved to Franz; DB |
| Gravenhurst | Muskoka | Nov 1870 | Apr 1916 | | | |
| | | Feb 1918 | June 1921 | | | |
| | | Apr 1948 | Sept 1949 | | P | DB |
| Green River | York | Apr 1953 | Sept 1957 | | P | DB |
| Grey County Forest | Grey | June 1953 | Nov 1953 | | P | Sept only in 1954; DB |
| Grimsby | Lincoln | June 1910 | Dec 1917 | | | |
| | | Mar 1921 | Sept 1929 | | | |
| | | May 1931 | Mar 1932 | | | |
| | | Sept 1934 | Mar 1935 | | | |
| | | Jan 1937 | Nov 1939 | | | |
| | | Nov 1944 | | A | | OS |
| Grimsby (Rock Chapel) | Lincoln | Jan 1915 | Dec 1928 | | | |
| | | Jan 1931 | | A | | DB |
| Guelph | Wellington | May 1881 | Dec 1894 | | | |
| | | Dec 1898 | | A | | DB |
| Hagersville (A) | Haldimand | Dec 1941 | Aug 1945 | | | Broken record; DB |
| Hagersville | Haldimand | Apr 1948 | | A | P | DB |
| Hagersville (2) | Haldimand | July 1956 | | A | | DB |
| Haileybury | Timiskaming | Nov 1894 | July 1922 | | | |
| | | May 1930 | Dec 1952 | | | Out |
| Haliburton | Haliburton | Apr 1883 | | A | | DB |
| Haliburton (2) | Haliburton | May 1949 | Dec 1955 | | | DB |
| Hamilton | Wentworth | Mar 1866 | Dec 1887 | | | |
| | | Jan 1898 | May 1904 | | | |
| | | Jan 1911 | Dec 1929 | | | |
| | | May 1938 | | A | | OS |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Hamilton (Gage Park) | Wentworth | Sept 1953 | May 1956 | | P | OS |
| Hamilton (R.B.G.) | Wentworth | Apr 1950 | | A | | OS |
| Hanlon | Peel | Oct 1950 | Nov 1951 | | P | DB |
| Hanover Lake | Thunder Bay | May 1952 | Sept 1955 | | | Summer station; Out |
| Harrow | Essex | May 1917 | | A | | DB |
| Harrowsmith | Frontenac | June 1883 | July 1889 | | | DB |
| Harwood | Northumberland | July 1953 | Oct 1954 | | | Summer station; DB |
| Hastings | Northumberland | Apr 1883 | Nov 1885 | | P | DB |
| Hawkesbury | Prescott | Sept 1950 | | A | | Out |
| Hearst | Cochrane | July 1929 | Sept 1934 | | P | Summer station |
| | | Oct 1951 | May 1952 | | | Out |
| Heart Lake | Peel | June 1957 | | A | | DB |
| Heaslip | Timiskaming | Nov 1928 | | A | | Out |
| Heeley Falls | Northumberland | Jan 1921 | Dec 1930 | | | |
| | | Apr 1931 | Nov 1937 | | | DB |
| Heeley Falls (2) | Northumberland | Jan 1931 | 1940 | | | DB |
| Helen Mine | Algoma | May 1940 | | A | | DB |
| Heron Bay | Thunder Bay | Oct 1886 | June 1891 | | | |
| | | Jan 1893 | Feb 1902 | | | |
| | | July 1913 | Nov 1920 | | | Broken record |
| | | Aug 1953 | July 1954 | | | Summer station; OS |
| Hespeler | Waterloo | June 1946 | June 1947 | | | Summer station; DB |
| Hillier | Prince Edward | July 1912 | Jan 1920 | | | OS |
| Hillsport | Thunder Bay | July 1929 | May 1931 | | | |
| | | June 1951 | Aug 1952 | | P | Summer station; Out |
| Holland Marsh | York | Aug 1946 | Feb 1948 | | | DB |
| Holstein | Grey | Feb 1953 | Apr 1956 | | | |
| | | Jan 1957 | | A | | DB |
| Hopeville | Grey | Nov 1947 | | A | P | DB |
| Hornby | Halton | June 1947 | | A | P | DB |
| Hornpayne | Algoma | June 1917 | | A | | Broken record; DB |
| Hound Chute | Timiskaming | May 1950 | | A | | Pcpn only to 1958; Out |
| Humber | York | May 1888 | May 1890 | | P | DB |
| Hunta | Cochrane | Feb 1950 | | A | | Out |
| Huntsville | Muskoka | Jan 1892 | Dec 1904 | | | |
| | | Jan 1906 | Aug 1908 | | | |
| | | July 1923 | | A | | Broken record; DB |
| Ignace | Kenora | July 1889 | June 1891 | | | |
| | | Jan 1914 | | | | Out |
| Ilderton | Middlesex | June 1951 | Aug 1956 | | | Pcpn only to 1953; DB |
| Indian Bay | Kenora | Mar 1914 | | A | | Shoal Lake; Out |
| Indian Chute | Timiskaming | Jan 1912 | Dec 1912 | | | Elk Lake |
| | | Feb 1950 | | A | | Out |
| Ingersoll | Oxford | Apr 1870 | Dec 1876 | | | |
| | | July 1879 | Nov 1888 | | | |
| | | May 1956 | Sept 1957 | | P | Summer only; DB |
| Ingolf | Kenora | Nov 1927 | Sept 1941 | | | Out |
| Iroquois Falls | Cochrane | Apr 1913 | | A | | Out |
| Island Falls | Cochrane | Mar 1955 | | A | | Out |
| Jackson Manion | Patricia | Sept 1928 | July 1929 | | | Out |
| Jarvis (A) | Haldimand | Sept 1939 | Apr 1942 | | | USWB Form 1135; DB |
| Jarvis | Haldimand | May 1954 | May 1956 | | | DB |
| Jarvis Lake Tower | Thunder Bay | Aug 1952 | Aug 1956 | | | Summer station; DB |
| Jermyn | Peterborough | Aug 1895 | Aug 1905 | | | DB |
| Joly | Parry Sound | Feb 1885 | July 1892 | | P | DB |
| Judge | Timiskaming | Dec 1907 | Apr 1909 | | | Out |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Kagawong | Manitoulin | Jan 1951 | | A | | OS |
| Kakabeka Falls | Thunder Bay | Nov 1908 | | A | | DB |
| Kapuskasing (A) | Cochrane | Feb 1938 | | A | | Out |
| Kapuskasing | Cochrane | Jan 1918 | | A | | Experimental Farm; Out |
| Kapuskasing (2) | Cochrane | June 1934 | Nov 1934 | | | Out |
| Kashbowie | Thunder Bay | Sept 1956 | Feb 1958 | | | DB |
| Katrine | Parry Sound | Apr 1949 | Oct 1949 | | | DB |
| Kawene | Rainy River | Sept 1935 | Jan 1951 | | | DB |
| Kemptville | Grenville | Nov 1928 | Feb 1937 | | | |
| | | May 1939 | | A | | DB |
| Kenogami Dam | Thunder Bay | June 1950 | | A | P | DB |
| Kenora (A) | Kenora | Aug 1938 | | A | | Out |
| Kenora | Kenora | Sept 1899 | Mar 1939 | | | Rat Portage; Out |
| Killala Lake | Thunder Bay | May 1945 | July 1948 | | | |
| | | Aug 1952 | Sept 1954 | | | Summer station; DB |
| Killaloe (A) | Renfrew | Sept 1938 | | A | | DB |
| Kincardine | Bruce | May 1870 | Dec 1882 | | | |
| | | Jan 1888 | Dec 1891 | | | |
| | | Jan 1894 | June 1898 | | P | OS |
| Kingston (A) | Frontenac | Oct 1930 | Mar 1932 | | | |
| | | Aug 1943 | Sept 1945 | | | OS |
| Kingston (Barriefield) | Frontenac | Apr 1939 | July 1943 | | | OS |
| Kingston (Alcan) | Frontenac | Feb 1947 | Nov 1949 | | | OS |
| Kingston (Frontenac) | Frontenac | Oct 1945 | | A | | OS |
| Kingston (Queens U) | Frontenac | Jan 1874 | Apr 1939 | | | |
| | | Nov 1945 | Dec 1946 | | | |
| | | Oct 1951 | Mar 1957 | | | OS |
| Kingsville | Essex | Jan 1890 | Sept 1892 | | | |
| | | Jan 1898 | Dec 1904 | | | |
| | | Jan 1908 | Sept 1919 | | P | OS |
| Kinmount | Victoria | Dec 1921 | Apr 1926 | | | |
| | | Oct 1948 | June 1950 | | | DB |
| Kirkfield | Victoria | Apr 1883 | Dec 1883 | | | DB |
| Kirkland Lake | Timiskaming | Nov 1915 | June 1916 | | | |
| | | Apr 1941 | Feb 1942 | | | |
| | | Feb 1950 | | A | | Out |
| Kirkton | Huron | Sept 1883 | Dec 1886 | | P | DB |
| Kitchener | Waterloo | Oct 1914 | | A | | Berlin; DB |
| Kohler | Haldimand | May 1949 | | | | DB |
| La Cave | Nipissing | May 1950 | | A | | Out |
| Lac Seul | Patricia | Sept 1914 | Apr 1934 | | P | Out |
| Lafontaine | Simcoe | Sept 1947 | Jan 1950 | | | |
| | | July 1953 | | A | | DB |
| Lakefield | Peterborough | Sept 1874 | Nov 1875 | | | |
| | | Oct 1876 | Feb 1949 | | | DB |
| Lakeport | Northumberland | Apr 1952 | | A | | DB |
| Lake St. Joseph | Patricia | July 1930 | Dec 1930 | | P | Out |
| Lamable | Hastings | Apr 1883 | July 1887 | | P | Hastings; Out |
| Lansdowne | Leeds | June 1895 | Jan 1910 | | P | DB |
| Lansdowne House | Patricia | Mar 1941 | | A | | Out |
| Leamington | Essex | Mar 1916 | | A | | OS |
| Lindsay | Victoria | Jan 1880 | | A | | DB |
| Lions Head | Bruce | Oct 1883 | Dec 1896 | | P | OS |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Listowel | Perth | May 1880 | Apr 1889 | | | |
| | | May 1899 | July 1904 | | | |
| | | Jan 1906 | Dec 1906 | | | |
| | | Nov 1912 | Dec 1916 | | | |
| | | Jan 1918 | Dec 1918 | | | |
| | | Mar 1921 | Sept 1923 | | | |
| | | Nov 1924 | Mar 1925 | | | |
| | | Sept 1950 | Mar 1955 | | | |
| | | Jan 1957 | | A | | DB |
| Little Current | Manitoulin | Aug 1871 | Dec 1881 | | | Broken record |
| | | Aug 1886 | Oct 1890 | | | |
| | | July 1892 | Dec 1892 | | | OS |
| Little Forks | Rainy River | Nov 1890 | May 1893 | | | Out |
| Lodi | Stormont | July 1882 | May 1883 | | P | Out |
| London | Middlesex | Dec 1871 | Apr 1874 | | | |
| | | Oct 1878 | Dec 1879 | | | |
| | | Jan 1881 | Jan 1887 | | | DB |
| London (2) | Middlesex | Mar 1883 | July 1890 | | | DB |
| London (South) | Middlesex | Sept 1890 | Jan 1932 | | | DB |
| London (Lambeth) | Middlesex | May 1932 | Mar 1941 | | | Old London Airport; DB |
| London (A) | Middlesex | July 1940 | | A | | Crumlin Airport; DB |
| London (Roehampton) | Middlesex | July 1956 | Sept 1957 | | P | DB |
| London (Sharon Dr.) | Middlesex | Sept 1956 | | A | P | DB |
| Long Branch | York | Jan 1951 | Dec 1951 | | P | OS |
| Long Lac | Thunder Bay | Mar 1921 | Oct 1957 | | | DB |
| Long Lac Control Dam | Thunder Bay | June 1950 | Oct 1957 | | P | DB |
| Long Lac (P & P) | Thunder Bay | Jan 1951 | | A | | DB |
| Long Point | Norfolk | Oct 1914 | Dec 1954 | | | OS |
| Lorne Park | Peel | Dec 1908 | Apr 1912 | | | DB |
| Low Bush | Cochrane | May 1951 | Nov 1954 | | | Out |
| Lower Sturgeon | Cochrane | Sept 1950 | | A | P | Out |
| Lucan | Middlesex | Mar 1871 | June 1873 | | | |
| | | Jan 1881 | Dec 1883 | | | |
| | | Aug 1915 | | A | | DB |
| Lucknow | Bruce | Jan 1885 | | A | | Broken record; DB |
| Lundys Lane | Welland | Apr 1885 | Dec 1893 | | | |
| | | June 1913 | Sept 1915 | | | |
| | | Feb 1920 | Nov 1922 | | P | Niagara; DB |
| Luther Dam | Dufferin | Jan 1951 | Aug 1954 | | | Pcpn only in 1951; DB |
| Lyons | Elgin | May 1883 | Oct 1894 | | P | DB |
| Mac Diarmid | Thunder Bay | July 1926 | | A | P | Summer only to 1931 and since 1951; DB |
| Mac Cue | Lanark | May 1883 | Sept 1918 | | P | Oliver's Ferry; DB |
| Madawaska | Nipissing | Aug 1915 | | A | | DB |
| Madoc | Hastings | Jan 1905 | July 1914 | | | DB |
| Maidstone | Essex | May 1882 | Dec 1890 | | P | DB |
| Magnetawan | Parry Sound | Jan 1924 | | A | | DB |
| Maitland | Grenville | June 1953 | Apr 1954 | | | OS |
| Mamainse | Algoma | Jan 1883 | Jan 1885 | | P | DB |
| Manitou Falls | Thunder Bay | May 1948 | July 1955 | | | Summer only, broken record; DB |
| Manitou Lake | Thunder Bay | Sept 1931 | Sept 1937 | | | Summer only; DB |
| Manitowadge | Thunder Bay | Feb 1956 | | A | | DB |
| Manitowaning | Manitoulin | July 1880 | Jan 1882 | | | |
| | | Jan 1933 | Sept 1941 | | | |
| | | Feb 1943 | June 1943 | | | OS |
| Manotick | Carleton | Oct 1953 | Dec 1956 | | P | Out |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Mansfield | Dufferin | May 1947 | Dec 1947 | | P | DB |
| Maple | York | Oct 1887 | July 1888 | | | |
| | | May 1957 | | A | P | DB |
| Marathon | Thunder Bay | July 1945 | Sept 1945 | | | |
| | | Feb 1950 | Sept 1950 | | | |
| | | Aug 1951 | | A | | Broken record; OS |
| Markdale | Grey | Apr 1912 | Jan 1920 | | | DB |
| Markham | York | Dec 1869 | Dec 1872 | | | |
| | | Feb 1957 | | A | P | DB |
| Martin | Kenora | Sept 1957 | | A | | Out |
| Matheson | Cochrane | May 1911 | Oct 1911 | | | Hyslop; Out |
| Mattagami Dam | Sudbury | Nov 1950 | Aug 1951 | | | |
| | | Dec 1952 | Feb 1957 | | | DB |
| Mattagami Patrol Dam | Sudbury | Feb 1957 | | A | | DB |
| Mattawa | Nipissing | July 1882 | June 1883 | | | |
| | | May 1886 | Sept 1899 | | | Out |
| McVittie | Sudbury | Apr 1899 | Sept 1910 | | | |
| | | May 1950 | | A | | DB |
| Meaford | Grey | June 1913 | Jan 1924 | | | |
| | | Apr 1948 | Mar 1949 | | | |
| | | June 1957 | | A | | OS |
| Merrickville | Grenville | May 1882 | Sept 1885 | | | |
| | | Jan 1888 | Aug 1890 | | P | Out |
| Meyersburg | Northumberland | Oct 1930 | | A | | DB |
| Michipicotin Falls | Algoma | Dec 1916 | Dec 1928 | | P | DB |
| Midhurst | Simcoe | July 1952 | | A | | DB |
| Midland | Simcoe | Nov 1888 | Jan 1915 | | | |
| | | May 1948 | | A | | OS |
| Midlothian | Parry Sound | Nov 1888 | Dec 1896 | | P | Burks Falls; DB |
| Mildmay | Bruce | Aug 1950 | Oct 1953 | | | Broken record; DB |
| Miller Lake Forest | Bruce | Oct 1952 | | A | P | DB |
| Millgrove | Wentworth | June 1951 | | A | | DB |
| Milton West | Halton | Oct 1950 | Mar 1952 | | | DB |
| Minaki | Kenora | May 1930 | Sept 1946 | | | Summer only; Out |
| Minden | Haliburton | Mar 1886 | June 1890 | | | |
| | | Oct 1942 | Sept 1950 | | P | DB |
| Minden (2) | Haliburton | Oct 1948 | Apr 1949 | | | |
| | | Jan 1956 | | A | | DB |
| Minden (Forestry) | Haliburton | June 1948 | May 1955 | | | Broken record; DB |
| Mine Centre | Rainy River | Nov 1914 | | A | | Out |
| Minesing | Simcoe | July 1925 | Mar 1926 | | P | DB |
| Mink Lake | Algoma | Apr 1948 | Apr 1951 | | | DB |
| Mistinikon | Timiskaming | June 1950 | | A | P | To July 1952; Out |
| Missinabie | Sudbury | Sept 1889 | Dec 1901 | | | DB |
| Mitchell | Perth | Nov 1948 | | A | | DB |
| Mitchell (2) | Perth | May 1956 | July 1957 | | P | Summer only; DB |
| Mobert | Thunder Bay | July 1929 | Sept 1930 | | P | DB |
| Mono Mills | Dufferin | May 1922 | Sept 1924 | | | DB |
| Montague | Lanark | Jan 1896 | Dec 1914 | | | Smith Falls; Out |
| Monticello | Dufferin | Oct 1954 | | A | | DB |
| Montreal Falls | Algoma | Jan 1942 | Apr 1946 | | | |
| | | Nov 1949 | Dec 1955 | | | DB |
| Montreal River | Timiskaming | Dec 1910 | | A | | DB |
| Moose Factory | Cochrane | Jan 1878 | May 1882 | | | |
| | | Jan 1884 | Dec 1884 | | | |
| | | Oct 1889 | Dec 1938 | | | Out |
| Moose Lake | Rainy River | June 1950 | | A | P | DB |
| Moosonee | Cochrane | Oct 1932 | | A | | Out |
| Morrisburg | Dundas | June 1913 | | A | | Out |
| Morriston | Wellington | Apr 1948 | | A | P | DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Mount Brydges | Middlesex | Jan 1958 | | A | | DB |
| Mount Forest | Wellington | Jan 1881 | Dec 1898 | | | |
| | | July 1915 | Dec 1948 | | | DB |
| Mount Hope (A) | Wentworth | Nov 1941 | Aug 1945 | | | DB |
| Mount Oliver | Peel | Nov 1950 | July 1951 | | P | DB |
| Muir | Oxford | July 1955 | Aug 1956 | | P | DB |
| Muskoka (A) | Muskoka | July 1934 | Dec 1937 | | P | Reay |
| | | Dec 1938 | | | | DB |
| Nakina (A) | Thunder Bay | June 1939 | | A | | DB |
| Nakina (Forestry) | Thunder Bay | June 1929 | May 1944 | | P | Summer station; DB |
| Nakina | Thunder Bay | June 1934 | Aug 1936 | | | DB |
| Nestor Falls | Kenora | May 1932 | Sept 1934 | | | Out |
| Newburgh | Lennox & Add. | June 1882 | Sept 1883 | | P | DB |
| New Glasgow | Elgin | July 1957 | | A | | OS |
| New Liskeard | Timiskaming | Oct 1923 | Apr 1933 | | | |
| | | May 1935 | | A | | Out |
| Newmarket | York | May 1871 | Aug 1873 | | | Summer only |
| | | Apr 1875 | Dec 1882 | | | |
| | | July 1956 | | A | | DB |
| Niagara | Welland | Apr 1871 | Sept 1872 | | | OS |
| Niagara Falls | Welland | July 1918 | Dec 1918 | | | |
| | | Jan 1920 | Dec 1922 | | | |
| | | Jan 1934 | | A | | OS |
| Niagara Falls (O. Hydro.) | Welland | Sept 1921 | | A | | Niagara Falls View; OS |
| Niagara Falls S. | Welland | Apr 1885 | Dec 1892 | | | |
| | | July 1919 | Dec 1921 | | | OS |
| Niagara-on-the-Lake | Lincoln | Jan 1935 | June 1936 | | | OS |
| Nipigon | Thunder Bay | Sept 1886 | June 1898 | | | |
| | | July 1913 | Dec 1914 | | | |
| | | June 1920 | Dec 1922 | | | OS |
| Nipissing | Nipissing | Oct 1915 | Nov 1919 | | | |
| | | Jan 1925 | Jan 1933 | | | DB |
| North Bay | Nipissing | Jan 1887 | Oct 1889 | | | |
| | | Jan 1895 | Apr 1898 | | | |
| | | June 1915 | Mar 1920 | | | |
| | | Aug 1924 | | A | | DB |
| North Bay (A) | Nipissing | Jan 1939 | | A | | DB |
| North Bay (2) | Nipissing | July 1934 | Mar 1935 | | | DB |
| North Bruce | Bruce | June 1888 | Dec 1922 | | | DB |
| Northcote | Renfrew | May 1880 | Dec 1887 | | | Out |
| North Glandford | Wentworth | June 1882 | June 1890 | | P | DB |
| North Gower | Carleton | Jan 1906 | Dec 1925 | | | Out |
| North Gwillimbury | York | Oct 1869 | Dec 1877 | | | DB |
| North Lake | Thunder Bay | June 1921 | Oct 1941 | | | DB* |
| Norwich | Oxford | May 1887 | Oct 1888 | | P | DB |
| Norwood | Peterborough | Jan 1876 | Dec 1880 | | | |
| | | July 1883 | Dec 1889 | | | |
| | | Oct 1912 | Jan 1918 | | | DB |
| Oakville | Halton | Sept 1956 | | A | | OS |
| Oak Ridges | York | June 1918 | | A | | DB |
| Oba | Algoma | Feb 1926 | Oct 1940 | | | Out |
| Oil City | Lambton | Nov 1953 | | A | | DB |
| Oil Springs | Lambton | May 1883 | Mar 1892 | | P | DB |
| Orangeville | Dufferin | Jan 1884 | Dec 1912 | | P | |
| | | July 1949 | | A | | Melville; DB |
| Orillia | Simcoe | May 1871 | Dec 1918 | | | |
| | | Jan 1926 | | A | | DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Orillia (S.T.P.) | Simcoe | Feb 1957 | | A | P | DB |
| Orleans (V.P.G.) | Carleton | Dec 1953 | | A | P | Broken record; Out |
| Orono | Durham | May 1923 | | A | | DB |
| Oscar | Thunder Bay | Jan 1914 | Mar 1915 | | | DB |
| Oshawa | Ontario | Sept 1882 | Jan 1891 | | | |
| | | Nov 1912 | Dec 1918 | | | |
| | | June 1923 | Dec 1925 | | | |
| | | Dec 1952 | | | | OS |
| Otonabee | Peterborough | Jan 1895 | May 1911 | | | DB |
| Ottawa | | | | | | |
| (City) | Carleton | Apr 1872 | Mar 1890 | | | |
| | | Apr 1899 | Mar 1935 | | | Out |
| (Albion Rd.) | Carleton | Apr 1954 | Nov 1954 | | P | Out |
| (Bayview) | Carleton | Nov 1953 | Dec 1955 | | | Out |
| (Beckwith Rd.) | Carleton | Jan 1955 | | A | | Out |
| (Billings Bdge) | Carleton | Oct 1953 | Oct 1954 | | P | Out |
| (Exp. Farm) | Carleton | Apr 1890 | Mar 1899 | | | |
| | | Jan 1915 | | A | | Out |
| (Hogs Back) | Carleton | Oct 1953 | Nov 1954 | | P | Out |
| (LaSalle Acad.) | Carleton | Dec 1954 | | A | P | Out |
| (Lemieux Is.) | Carleton | Oct 1953 | | A | P | Out |
| (N.R.C.) | Carleton | Nov 1951 | | A | | Out |
| (Rockcliffe) (A) | Carleton | Apr 1942 | | A | | DB* |
| (University) | Carleton | Oct 1954 | Mar 1955 | | | Out |
| (Uplands (A) | Carleton | Oct 1938 | | A | | DB* |
| Otterville | Oxford | Sept 1882 | Dec 1887 | | P | DB |
| Owen Sound | Grey | July 1878 | Feb 1912 | | | |
| | | Jan 1916 | | A | | OS |
| Oxaline Lake | Thunder Bay | Aug 1952 | Sept 1956 | | | DB |
| Pagwa | Cochrane | May 1918 | Aug 1934 | | | Out |
| Pagwa (A) | Cochrane | Aug 1938 | | A | | DB* |
| Palgrave | Peel | Jan 1956 | | A | | DB |
| Paris | Brant | Apr 1884 | Oct 1945 | | | DB |
| Parkhill | Middlesex | Jan 1871 | Mar 1873 | | | DB |
| Parma | Lennox & Add. | Jan 1906 | Mar 1907 | | | DB |
| Parry Sound | Parry Sound | Oct 1874 | Dec 1888 | | | |
| | | Jan 1907 | Dec 1909 | | | |
| | | Jan 1911 | | A | | OS |
| Pays Plat | Thunder Bay | Aug 1944 | | A | | DB |
| Pelee Island | Essex | Jan 1882 | Apr 1898 | | | |
| | | Oct 1899 | Dec 1903 | | | |
| | | Jan 1905 | Aug 1913 | | | |
| | | June 1915 | June 1917 | | | Broken record |
| | | Apr 1919 | Mar 1931 | | | |
| | | July 1933 | | A | | OS |
| Pefferlaw | York | May 1948 | | A | P | Only to 1950; DB |
| Pembroke | Renfrew | Feb 1866 | May 1888 | | | |
| | | July 1915 | | A | | Out |
| Pembroke (Forestry) | Renfrew | May 1926 | Sept 1942 | | P | Summer station; Out |
| Penetanguishene | Simcoe | Jan 1882 | July 1884 | | P | OS |
| Perth | Lanark | Oct 1947 | Feb 1949 | | | Out |
| Peshu Lake | Algoma | May 1950 | Aug 1955 | | | Summer station; DB |
| Peterbell | Algoma | Mar 1929 | Sept 1930 | | | Out |
| Peterborough (O. Hydro.) | Peterborough | Sept 1949 | | A | P | DB |
| Peterborough | Peterborough | Apr 1866 | Dec 1887 | | | |
| | | Jan 1891 | | A | | DB |
| Peters Corners | Wentworth | Apr 1952 | | A | | DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Petrolia | Lambton | Apr 1883 | June 1888 | | | |
| | | Nov 1953 | | A | P | DB |
| Petrolia (2) | Lambton | Dec 1885 | June 1888 | | P | DB |
| Pickle Lake | Patricia | July 1930 | Sept 1930 | | P | |
| | | June 1933 | | A | | Broken record; Out |
| Picton | Prince Edward | Nov 1915 | July 1920 | | P | |
| | | Jan 1934 | Aug 1938 | | P | |
| | | Oct 1956 | Oct 1957 | | | OS |
| Pine Grove | York | July 1957 | | A | P | DB |
| Pine Portage | Thunder Bay | June 1950 | | A | P | DB |
| Plattsville | Oxford | July 1871 | Dec 1872 | | | DB |
| Point Clark | Bruce | Jan 1871 | Mar 1914 | | | OS |
| Pontypool | Durham | Sept 1947 | Oct 1949 | | P | DB |
| Poplar Mills | Middlesex | Mar 1956 | | A | P | DB |
| Porcupine | Cochrane | Jan 1914 | June 1915 | | | Out |
| Porquis Junction (A) | Cochrane | Oct 1938 | Mar 1955 | | | Out |
| Port Albert (A) | Huron | July 1941 | Nov 1945 | | | OS |
| Port Arthur | Thunder Bay | Jan 1880 | July 1941 | | | OS |
| Port Arthur (Forestry) | Thunder Bay | June 1926 | Sept 1934 | | P | OS |
| Port Arthur (2) | Thunder Bay | Jan 1936 | Apr 1939 | | | Storm Signal Sta. A; OS |
| Port Burwell | Elgin | Jan 1904 | Feb 1916 | | | OS |
| | | Aug 1917 | Aug 1918 | | | |
| | | Jan 1920 | July 1921 | | | Broken record; OS |
| Port Credit | Peel | Nov 1948 | Mar 1949 | | | |
| | | Nov 1951 | | A | P | OS |
| Port Dalhousie | Lincoln | Jan 1875 | Dec 1878 | | | |
| | | Jan 1910 | June 1921 | | P | Grantham |
| | | May 1957 | | A | | OS |
| Port Dover | Norfolk | Jan 1874 | | A | | Observations no good 1924-28; OS |
| Port Elmsley | Lanark | Mar 1948 | | A | | (Perth) P to 1951; DB |
| Port Hope | Durham | Jan 1884 | Dec 1890 | | | |
| | | Dec 1891 | Dec 1892 | | | |
| | | Apr 1896 | Feb 1910 | | | OS |
| Port Perry | Ontario | Apr 1885 | Dec 1889 | | P | DB |
| Portland | Leeds | Apr 1953 | Feb 1958 | | | DB |
| Port Rowan | Norfolk | Jan 1894 | Oct 1898 | | P | OS |
| Port Stanley | Elgin | Jan 1874 | Mar 1924 | | | |
| | | Aug 1948 | Jan 1950 | | | |
| | | Aug 1957 | | | | OS |
| Presqu' Isle | Grey | July 1875 | Aug 1898 | | P | OS |
| Preston | Waterloo | May 1953 | | A | | DB |
| Princeton | Oxford | Apr 1883 | Aug 1913 | | P | DB |
| Prospect Hill | Perth | Mar 1956 | | A | P | DB |
| Providence Bay | Manitoulin | July 1897 | Dec 1903 | | | |
| | | May 1911 | Apr 1940 | | | OS |
| Purdy | Hastings | July 1955 | | A | P | Out |
| Putnam | Middlesex | Apr 1883 | June 1886 | | P | DB |
| Queensboro | Hastings | Aug 1914 | Dec 1946 | | | Broken record; DB |
| Queenston | Welland | Mar 1922 | July 1928 | | | OS |
| Quorn | Kenora | Apr 1915 | | A | | DB |
| Ragged Rapids | Muskoka | May 1950 | | A | | DB |
| Rainy River | Rainy River | Apr 1916 | Dec 1927 | | | Out |
| Ramsay | Sudbury | Nov 1948 | | A | P | DB |
| Ranelagh | Brant | May 1883 | Oct 1885 | | P | DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Ranger Lake | Sudbury | May 1938 | Apr 1943 | | | |
| | | Nov 1949 | Apr 1953 | | | Broken record; DB |
| Rat Rapids | Patricia | July 1934 | July 1953 | | | Out |
| Ravenna | Grey | June 1948 | Jan 1953 | | | DB |
| Rayner | Algoma | May 1950 | | A | | DB |
| Red Cedar Lake Dam | Nipissing | May 1950 | Sept 1954 | | P | DB |
| Redickville | Dufferin | Oct 1944 | | A | | DB |
| Red Lake | Patricia | Aug 1930 | Aug 1934 | | | |
| | | Aug 1938 | July 1957 | | | Out |
| Redmond | Thunder Bay | June 1952 | Sept 1956 | | | Summer station; Out |
| Regent | Algoma | Jan 1932 | Nov 1935 | | | DB |
| Renfrew | Renfrew | Aug 1882 | Oct 1899 | | | |
| | | July 1902 | | A | | Out |
| Reserve 40 | Kenora | June 1913 | Dec 1913 | | | Ingolf; Out |
| Richards Landing | Algoma | Apr 1924 | July 1926 | | | OS |
| Rideau Canal | | | | | | |
| (Bobs Lake) | Frontenac | Dec 1953 | | A | | Out |
| (Burrits Ldg) | Lanark | Dec 1953 | | A | | Out |
| (Jones Falls) | Leeds | Dec 1953 | | A | | DB |
| (Kilmarnock) | Lanark | Dec 1953 | | A | | Out |
| (Long Island) | Carleton | Dec 1953 | | A | | Out |
| (Narrows) | Lanark | Dec 1953 | | A | | DB |
| (Upper Brewers) | Frontenac | Dec 1953 | | A | | DB |
| (Wolfe Lake) | Frontenac | Dec 1953 | | A | | DB |
| Rideau Ferry | Lanark | May 1948 | | A | P | DB |
| Ridgetown | Kent | Apr 1883 | June 1903 | | | |
| | | June 1923 | | A | | DB |
| Ridgeville | Welland | Feb 1950 | | A | | Broken record; DB |
| Roblin's Mills | Prince Edward | Jan 1896 | Dec 1899 | | P | DB |
| Rockcliffe | Nipissing | Jan 1877 | Oct 1921 | | | Stonecliff; DB |
| Rocklyn | Grey | Feb 1901 | Dec 1904 | | | DB |
| Ronville | Muskoka | Jan 1908 | Sept 1926 | | | DB |
| Rossport | Thunder Bay | Nov 1915 | May 1916 | | P | OS |
| Rouge Hills | Ontario | Feb 1954 | Oct 1955 | | P | OS |
| Round Lake | Timiskaming | June 1934 | Nov 1934 | | | DB |
| Ruel | Sudbury | Aug 1915 | | A | | DB |
| Russell | Russell | Mar 1954 | | A | | Out |
| Rutherglen | Nipissing | Apr 1891 | Oct 1894 | | | |
| | | Apr 1895 | Sept 1940 | | | Lake Talon Calvin; DB* |
| St. Ann's | Lincoln | Mar 1895 | Apr 1900 | | | |
| | | Aug 1923 | July 1925 | | | DB |
| St. Catharines (P. Lab.) | Lincoln | Nov 1928 | | A | | DB |
| St. Catharines | Lincoln | Nov 1901 | Oct 1903 | | | |
| | | Mar 1911 | July 1912 | | | |
| | | June 1915 | Dec 1915 | | | |
| | | July 1918 | Nov 1956 | | | DB |
| St. George | Brant | Apr 1883 | Dec 1916 | | | DB |
| St. Joachim | Essex | June 1951 | | A | | P till 1953; DB |
| St. Marys | Perth | Jan 1888 | July 1901 | | | DB |
| St. Thomas | Elgin | July 1882 | Dec 1887 | | | |
| | | Feb 1890 | Dec 1894 | | | |
| | | Oct 1925 | | A | | DB |
| St. Williams | Norfolk | Apr 1954 | | A | | OS |
| Sand Hill | Peel | May 1946 | Oct 1947 | | | DB |
| Sand Lake | Algoma | Nov 1950 | Apr 1951 | | | |
| | | Nov 1951 | Mar 1952 | | | |
| | | May 1953 | Aug 1956 | | | Summer station; DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Sandy Falls | Cochrane | Sept 1950 | | A | P | Out |
| Sarnia | Lambton | July 1882 | Apr 1912 | | | |
| | | Nov 1926 | July 1927 | | | |
| | | Nov 1948 | | A | | Sykeston; OS |
| Sarnia (R) | Lambton | Sept 1948 | June 1951 | | | OS |
| Sauble Forest | Bruce | Dec 1952 | | A | P | DB |
| Sault Ste Marie | Algoma | July 1889 | Aug 1895 | | | |
| | | Apr 1921 | Oct 1933 | | | |
| | | June 1945 | | A | | OS |
| Sault Ste Marie (2) | Algoma | Sept 1957 | | A | | OS |
| Sault Ste Marie (For) | Algoma | June 1926 | Apr 1931 | | | |
| | | May 1943 | Sept 1944 | | | Summer station 1943-44; OS |
| Sault Ste Marie (Insect) | Algoma | May 1950 | Sept 1954 | | | Point aux Pins Insectary; OS |
| Sault Ste Marie (Shingwauk) | Algoma | Sept 1954 | Nov 1955 | | | Shingwauk School; OS |
| Savanne | Thunder Bay | Jan 1885 | July 1906 | | | |
| | | Jan 1914 | Sept 1946 | | | DB* |
| Savant Lake | Thunder Bay | July 1930 | July 1944 | | P | Summer station; Out |
| Scarboro | York | May 1883 | Dec 1906 | | | |
| | | Oct 1911 | Apr 1912 | | | DB |
| Schreiber | Thunder Bay | Apr 1909 | | A | | OS |
| Scotia Junction | Parry Sound | July 1924 | | A | P | DB |
| Seaforth | Huron | Nov 1870 | Mar 1873 | | | Broken record; OS |
| Searchmont | Algoma | Aug 1915 | Sept 1918 | | | DB |
| Seeley | Muskoka | Jan 1875 | Dec 1884 | | | Huntsville; DB |
| Sellwood Junction | Nipissing | May 1915 | Dec 1915 | | | Out |
| Shannonville | Hastings | Jan 1884 | Dec 1894 | | | OS |
| Sharon | York | Apr 1886 | Dec 1892 | | | DB |
| Shelburne | Dufferin | Sept 1909 | Feb 1913 | | | DB |
| Shirley Bay | Carleton | Feb 1954 | Oct 1956 | | P | Out |
| Simcoe | Norfolk | Mar 1866 | Jan 1888 | | | |
| | | Jan 1921 | | A | | DB |
| Sioux Lookout (2) | Kenora | Jan 1914 | Sept 1934 | | | Out |
| Sioux Lookout (A) | Kenora | Aug 1930 | | A | | In town before 1935; Out |
| Sioux Lookout (3) | Kenora | Apr 1930 | Dec 1933 | | | Summer station; Out |
| Sioux Narrows | Kenora | Oct 1933 | Sept 1936 | | | |
| | | June 1940 | Aug 1955 | | | Out |
| Smith Falls | Lanark | May 1902 | Dec 1905 | | | |
| | | May 1921 | May 1923 | | | Broken record; DB* |
| Smithfield | Northumberland | Aug 1949 | | A | | DB |
| Smoky Falls | Cochrane | May 1922 | | A | | Crystal Falls; DB |
| Snelgrove | Peel | Nov 1950 | | A | P | DB |
| Sombra | Lambton | Mar 1887 | Dec 1892 | | | Broken record; OS |
| South Bay Mouth | Manitoulin | Aug 1954 | | A | | OS |
| South Falls | Muskoka | June 1920 | Jan 1925 | | | |
| | | Nov 1956 | | A | | Muskoka Falls; DB |
| Southampton | Bruce | Jan 1874 | Nov 1952 | | | |
| | | Sept 1953 | Dec 1956 | | | Saugeen; OS |
| Spencerville | Grenville | Feb 1953 | | A | | Out |
| Stayner | Simcoe | Feb 1870 | July 1879 | | | |
| | | Apr 1948 | Feb 1953 | | | |
| | | Jan 1954 | Dec 1957 | | | Broken record; DB |
| Stayner (2) | Simcoe | Apr 1955 | | A | | DB |
| Steep Hill Falls | Algoma | Mar 1915 | Aug 1939 | | | DB |
| Stevens | Thunder Bay | Jan 1945 | June 1946 | | | |
| | | Sept 1949 | Sept 1955 | | | Out |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Stevens (Camp 102) | Thunder Bay | May 1948 | Mar 1949 | | | Out |
| Stewartville | Renfrew | May 1950 | | A | P | Out |
| Stirling | Hastings | May 1883 | Nov 1885 | | | DB |
| Stirling (R) | Hastings | Mar 1940 | | A | | DB |
| Stoney Creek | Wentworth | Jan 1884 | Oct 1927 | | | OS |
| Stoney Point | Essex | May 1882 | Dec 1883 | | | OS |
| Stouffville | York | Feb 1895 | July 1901 | | | DB |
| Stratford | Perth | Sept 1860 | Dec 1887 | | | |
| | | Jan 1894 | | A | | DB |
| Strathburn | Middlesex | Sept 1939 | Apr 1942 | | | USWB Form 1135; DB |
| Strathroy | Middlesex | Mar 1879 | Apr 1885 | | | |
| | | Jan 1907 | Nov 1913 | | | |
| | | Oct 1953 | Aug 1954 | | P | DB |
| Sturgeon Falls | Nipissing | Jan 1883 | July 1884 | | | |
| | | May 1900 | Oct 1901 | | | |
| | | Mar 1915 | Dec 1922 | | | DB |
| Sudbury | Sudbury | July 1887 | Nov 1889 | | | |
| | | Aug 1914 | July 1930 | | | DB |
| | | May 1918 | July 1930 | | | DB |
| | | Aug 1947 | Jan 1955 | | | DB |
| (A) | Sudbury | Feb 1954 | | A | | DB |
| (Forestry) | Sudbury | May 1926 | Nov 1934 | | | DB |
| Summit Control Dam | Thunder Bay | June 1950 | | A | P | Out |
| Sundridge | Parry Sound | Jan 1914 | May 1915 | | | |
| | | May 1928 | Oct 1928 | | | DB |
| Sunshine | Huron | Apr 1883 | Dec 1904 | | | DB |
| Swains Lake | Patricia | June 1933 | Oct 1934 | | P | Out |
| Sydenham | Frontenac | Sept 1903 | Feb 1917 | | P | DB |
| Talbotville | Elgin | July 1953 | | A | P | DB |
| Tavistock | Oxford | June 1956 | Nov 1956 | | P | DB |
| Tecumseh | Essex | Jan 1883 | July 1883 | | P | OS |
| Teeswater | Bruce | May 1883 | Nov 1885 | | | |
| | | Apr 1887 | Sept 1887 | | P | DB |
| Thedford | Lambton | Apr 1883 | Feb 1897 | | P | DB |
| Thompson | Algoma | Feb 1890 | Dec 1899 | | P | OS |
| Thornbury | Grey | May 1948 | Sept 1951 | | P | Summer station; OS |
| Thornhill | York | Feb 1870 | Jan 1872 | | | DB |
| Thorold | Welland | Dec 1893 | Feb 1897 | | P | DB |
| Tilbury | Kent | Mar 1948 | Feb 1949 | | P | DB |
| Timagami | Nipissing | May 1934 | Sept 1940 | | | Broken record; Out |
| Timagami (Post) | Nipissing | June 1926 | Sept 1928 | | | Out |
| Timmins | Cochrane | Apr 1922 | | A | | Out |
| (A) | Cochrane | Apr 1955 | | A | | Out |
| (Ont. Hydro.) | Cochrane | July 1951 | | A | P | Out |
| Tobermory | Bruce | Feb 1914 | Sept 1955 | | | |
| | | June 1956 | | A | | Broken record; OS |
| Toronto | York | Dec 1839 | | A | | Longest record in Canada. Homogeneous record begins Jan. 1841; OS |
| Toronto | | | | | | |
| (Admiral Rd) | York | Mar 1949 | Oct 1954 | | | OS |
| (Beverley Hills) | York | Nov 1957 | | A | P | DB |
| (Birch Cliff) | York | Dec 1952 | Dec 1953 | | P | OS |
| (Balmy Beach) | York | Jan 1953 | Aug 1956 | | P | OS |
| (Bloordale) | York | June 1957 | | A | P | DB |
| (Broadview) | York | Dec 1955 | | A | P | DB |
| (Centre Is.) | York | Jan 1951 | Jan 1952 | | P | DB |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Toronto (cont'd) | | | | | | |
| (Deer Park) | York | Sept 1890 | Jan 1933 | | P | DB |
| (Dorset Park) | York | Nov 1957 | | A | P | DB |
| (Downsview)(A) | York | Sept 1956 | | A | | DB |
| (Downsview S) | York | Jan 1951 | | A | P | DB |
| (Dufferin)(A) | York | Apr 1930 | Mar 1932 | | | DB |
| East | York | Mar 1907 | July 1911 | | | |
| | | May 1947 | May 1951 | | | DB |
| (East York) | York | Jan 1951 | June 1957 | | P | To July 1952; DB |
| (Fairbank) | York | Apr 1948 | June 1949 | | P | DB |
| (Fallingbrook) | York | Nov 1956 | | A | P | DB |
| (Glendale) | York | Nov 1957 | | A | P | DB |
| (Glenview) | York | Jan 1953 | | A | P | DB |
| (Highland Creek) | York | Nov 1955 | | A | P | OS |
| (High Park) | York | Jan 1951 | | A | P | OS |
| (Humber Bay) | York | Dec 1956 | | A | P | DB |
| (Island) | York | Jan 1905 | Aug 1927 | | P | Lakeside Home |
| | | May 1953 | | A | | OS |
| (Island)(A) | York | Feb 1957 | | A | | OS |
| (Islington West) | York | Jan 1951 | | A | P | DB |
| (Kingsway) | York | Jan 1951 | | A | P | DB |
| (Mimico) | York | Feb 1958 | | A | P | OS |
| (Malton)(A) | York | Nov 1937 | | A | | Malton (A); DB |
| (Newtonbrook) | York | Oct 1953 | June 1957 | | | OS |
| (Northcliffe) | York | Oct 1957 | | A | P | DB |
| (Queensway) | York | Jan 1951 | Sept 1951 | | P | DB |
| (Rexdale) | York | Oct 1957 | | A | P | DB |
| (Scarborough) | York | May 1953 | Oct 1953 | | P | OS |
| (Scarlett Rd) | York | Jan 1951 | Dec 1954 | | P | DB |
| (South Leaside) | York | June 1951 | Jan 1958 | | P | Broken record; DB |
| (Sunnyside) | York | Jan 1951 | July 1951 | | P | DB |
| (Victoria) | York | Oct 1957 | | A | P | DB |
| (West Hill) | York | Jan 1951 | Jan 1958 | | P | OS |
| (Wexford) | York | Apr 1953 | Feb 1958 | | P | DB |
| (Willowdale) | York | Nov 1953 | June 1955 | | | |
| | | May 1956 | | A | P | DB |
| (Wilson Heights) | York | July 1953 | | A | | DB |
| Trenton | Hastings | Apr 1883 | Sept 1886 | | | OS |
| Trenton (O. Hydro.) | Hastings | July 1915 | | A | | OS |
| Trenton (A) | Hastings | Jan 1935 | | A | | OS |
| Trethewey | Muskoka | May 1950 | Oct 1956 | | P | DB |
| Trout Lake | Patricia | Nov 1915 | Dec 1927 | | | |
| | | Feb 1939 | | A | | Broken record; Out |
| Turbine (High Falls) | Sudbury | June 1914 | | A | | DB |
| Tweed | Hastings | Apr 1925 | Nov 1948 | | | |
| | | Dec 1950 | | A | | DB |
| Twin Falls | Cochrane | Mar 1955 | | A | | P only in 1957; Out |
| Uchi Lake | Patricia | July 1950 | May 1953 | | P | Out |
| Uplands | Parry Sound | July 1886 | Feb 1913 | | | DB |
| Upper Notch | Timiskaming | Sept 1929 | Nov 1934 | | | |
| | | June 1950 | | A | P | Out |
| Upsala | Thunder Bay | July 1947 | | A | | DB |
| Ursa | Haliburton | Jan 1895 | Mar 1907 | | | |
| | | Jan 1909 | Sept 1913 | | | DB |
| Uxbridge | Ontario | May 1899 | Dec 1923 | | | |
| | | Oct 1929 | Sept 1950 | | | DB |
| Uxbridge (2) | Ontario | Apr 1948 | | A | | P to 1950; DB |
| Valora | Kenora | Sept 1957 | | A | | Out |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Vankleek Hill | Prescott | Jan 1903 | Feb 1906 | | | |
| | | Nov 1915 | June 1925 | | | |
| | | Dec 1936 | Mar 1938 | | | Out |
| Victoria | Peel | Feb 1952 | Nov 1954 | | P | OS |
| Vienna | Elgin | June 1875 | Nov 1877 | | | DB |
| Vineland | Lincoln | Oct 1924 | | A | | DB |
| Virgil | Lincoln | Jan 1894 | Dec 1898 | | P | DB |
| Waboose Dam | Thunder Bay | Aug 1941 | Sept 1956 | | | Out |
| Wagaming | Thunder Bay | June 1934 | Nov 1936 | | | |
| | | Aug 1938 | Dec 1939 | | | Armstrong; DB |
| Waldemar | Dufferin | July 1955 | | A | | DB |
| Walkers Point | Muskoka | Nov 1928 | Feb 1935 | | | DB |
| Walkerton | Bruce | July 1915 | | A | | DB |
| Walkerton (2) | Bruce | Apr 1957 | | A | | DB |
| Walkerville | Essex | Dec 1929 | Sept 1931 | | | OS |
| Wallaceburg | Kent | Jan 1905 | | A | | Broken record; DB |
| Wanapitei | Sudbury | June 1950 | Jan 1952 | | P | To Jan. 1951; DB |
| Wanstead | Lambton | Apr 1887 | June 1890 | | | DB |
| Wasdells | Ontario | May 1920 | Sept 1921 | | | |
| | | May 1950 | Mar 1957 | | P | from 1953-57; DB |
| Washago | Simcoe | Jan 1928 | | A | P | DB |
| Warkworth | Northumberland | May 1887 | Dec 1888 | | P | DB |
| Watcomb | Kenora | June 1933 | Sept 1935 | | | Summer station; Out |
| Waterford | Norfolk | Jan 1894 | Dec 1896 | | | |
| | | Mar 1948 | | A | P | DB |
| Watford | Lambton | Apr 1883 | Dec 1901 | | | |
| | | Jan 1912 | Dec 1915 | | | |
| | | Jan 1919 | Aug 1923 | | | |
| | | Nov 1924 | Mar 1929 | | | DB |
| Wattenwyl | Parry Sound | Mar 1912 | Mar 1913 | | P | DB |
| Waubaushene | Simcoe | May 1936 | Nov 1956 | | | OS |
| Wawaitin Falls | Cochrane | Jan 1913 | | A | | Out |
| Welland | Welland | Oct 1872 | Aug 1879 | | | |
| | | Sept 1880 | Dec 1886 | | | |
| | | Mar 1892 | | A | | DB |
| Wellington | Prince Edward | May 1948 | June 1951 | | | OS |
| Wesley | Wellington | Feb 1909 | Jan 1913 | | P | DB |
| Westminster | Middlesex | Jan 1883 | Dec 1933 | | P | Wilton Grove; DB |
| Weston | York | Oct 1869 | July 1871 | | | |
| | | Apr 1948 | Mar 1950 | | P | DB |
| Weston (Humber Hts.) | York | Mar 1948 | Nov 1948 | | | DB |
| Westport | Leeds | Jan 1901 | Dec 1920 | | P | DB* |
| Wexford | York | May 1912 | July 1929 | | | DB |
| Wheatley | Essex | June 1887 | July 1889 | | | OS |
| Whitefish | Kenora | Jan 1915 | Dec 1930 | | P | |
| | | Jan 1934 | Sept 1946 | | | DB |
| White River | Algoma | Sept 1886 | | A | | DB |
| Wiarton | Bruce | May 1883 | Mar 1932 | | | |
| | | May 1934 | Nov 1936 | | P | OS |
| Wiarton (A) | Bruce | July 1947 | | A | | OS |
| Widder | Lambton | Feb 1870 | Apr 1872 | | | DB |
| Wilsonville | Norfolk | July 1883 | Aug 1886 | | | Broken record; DB |
| Windsor | Essex | June 1866 | Dec 1887 | | | |
| | | Jan 1897 | Dec 1915 | | | |
| | | Aug 1924 | Aug 1929 | | | OS |
| Windsor (A) | Essex | Aug 1940 | | A | | DB |
| Windsor South | Essex | June 1952 | Mar 1955 | | | OS |
| Winona | Wentworth | Mar 1890 | Dec 1890 | | | |
| | | Jan 1892 | July 1892 | | P | OS |

| Station | County or District | Open | Close | Active 1958 | Pcpn only | Notes |
|---|---|---|---|---|---|---|
| Woman Lake | Patricia | Nov 1934 | Feb 1936 | | | Out |
| Woodbridge | York | Oct 1948 | | A | | DB |
| Woodslee | Essex | Oct 1946 | | A | | DB |
| Woodstock | Oxford | Feb 1870 | | A | | DB |
| Wooler | Northumberland | July 1897 | Dec 1912 | | P | Sunnyside; DB |
| Wyoming | Lambton | May 1888 | Apr 1907 | | P | DB |
| York | Haldimand | Jan 1936 | Oct 1938 | | | DB |
| Zurich | Huron | July 1881 | Dec 1892 | | | DB |

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