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U. S. DEPARTMENT OF COMMERCE
SINCLAIR WEEKS, Secretary
WEATHER BUREAU
F. W. REICHELDERFER, Chief

KEY TO METEOROLOGICAL RECORDS DOCUMENTATION NO. 1.1

SUBSTATION HISTORY

Michigan

JUN 20 1956
FORT WORTH
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A summary of information available on substation locations, elevations, exposures, instrumentations, records and observers from date station was established through the year 1955



WASHINGTON D. C. : 1956

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INFORMATION ON SUBSTATION HISTORIES

This bulletin series is an effort to compile all available information and pertinent changes that might affect the continuity of the substation record. A substation is defined as a station attended by non-classified and non-certificated observers. Elements observed at substations covered in this bulletin are temperature, precipitation, evaporation and daily river stages when precipitation is also recorded. Substations observing only river stages are not included.

The substation history is presented as a series of separate forms (Form 530-1) on which the information is recorded. Form 530-1 is included for all evaporation and temperature and/or precipitation substations, including closed substations. In many cases more than one form is required to show the various station locations; the forms for each station are in chronological order. A new location is entered wherever a significant change in operating conditions is noted such as, for example, relocations of instruments, removal of objects affecting exposure, significant change in instrumental equipment, etc.

Information on earliest location is entered in space for "1st location," column (a); successive locations are described in 2nd, 3rd, etc., location spaces. If there have been more than six locations, extra sheets are used.

Other items of information entered on the form are:

Index Number—Number assigned for punch card purposes. This also identifies station in other publications.

Latitude (b) and Longitude (c)—Latitude and longitude to nearest minute.

Section, Township, Range (d)—Public Lands System coordinates (Section, Township and Range) are entered, when available, to nearest quarter section.

Elevation (e)—Elevation of ground where instruments are exposed, in feet above sea level (in whole numbers).

Direction and Distance from Post Office (f)—Airline distances given in feet or miles and tenths. Direction is given to 16 points of the compass.

Direction and Distance from Previous Location (f')—Airline distances given in feet or miles and tenths. Direction is given to 16 points of the compass. (In an earlier printing of the basic forms, this item was not included; hence, this information is not available for all substations.)

Station known as (g)—Name by which substation was known at specific times during its existence, which may differ from that in heading (current name).

Description of Exposure (h)—Whether located at residence, factory, reservoir, experimental farm, etc.; whether shelter is on ground or atop building; nature of location, e. g., "top of hill," "north slope of hill," "level ground," "ravine," etc.

Instruments Used (i)—Instruments used are indicated in this publication by the following code:

A—Anemometer Bg—Barograph BA—Barometer, aneroid BM—Barometer, mercurial EvA—Class "A" Evap. Station (Weather Bureau type)	EvO—Other than Class "A" Evap. Station HyThg—Hygrothermograph Psy—Psychrometer SRG—Standard Rain Gage RRnG—Recording Rain Gage SG—Storage Gage
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NRIG—Non-recording River Gage RRIg—Recording River Gage CRS—Cotton Region Instru. Shelter SS—Standard Instrument Shelter SDE—Snow density measuring equip.	DT—Dry Bulb Thermometer WT—Wet Bulb Thermometer Mx—Maximum Thermometer Mn—Minimum Thermometer Tg—Thermograph //—Shielded gage (should precede gage abbr.)
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Record, Original Located (j)—Where these records may be consulted.

Record, Where Published (k)—The following abbreviations are used: CD, Climatological Data; HB, Hydrologic Bulletin; DRS, Daily River Stages; SB, Snow Bulletin (issued at more or less irregular periods depending on local conditions); BW, Bulletin W; HPD, Hourly Precipitation Data.

Date First and Last Observations (l)—Upper portion of space is used for beginning observation record and lower portion for ending.

Observers and dates (m)—Observer's name and beginning and ending dates he took observations. "Remarks" space is used if more than two observers were at one location.

Remarks (n)—Pertinent information not given elsewhere, i. e., changes in instruments and dates, reference to existing station description forms, comments of inspectors or other known characteristics of exposure or observers, reasons for installing, moving, or closing station. Lower portion of page is used for additional remarks.

The information found in this series will be especially helpful when used in connection with the following Weather Bureau publications:

Climatological Data—A monthly publication and annual summary, by States or groups of States, giving temperature, precipitation and evaporation data (when available).

Hourly Precipitation Data—A monthly publication and annual summary by States or groups of States, beginning October 1, 1951, showing hourly precipitation intensities from a nationwide net of recording precipitation gages which produce continuous records. Between 1948 and October 1, 1951, these data were published as Table 4 in *Climatological Data*. The basic network was established in 1936, and the data were published in *Hydrologic Bulletin* which continued until 1948 when the transition was made to *Climatological Data*.

Climatic Summary of the United States—Bulletin W—Reports summaries of temperature and precipitation data for 106 sections including Puerto Rico and the Virgin Islands from the beginning of record to the end of 1930.

Bulletin W Supplements continues the summaries for all States, Alaska, Hawaii, and West Indies from 1930 through 1952.

With the exception of the Hydrologic Bulletin, all of these publications are available, from the Superintendent of Documents, U. S. Government Printing Office, Washington 25, D. C.

WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station ALPENA AIRPORT County Alpena State Michigan Index No. 20-0184-3 Date prepared October 8, 1935

Table with 7 columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with 5 columns: (Con't), Instruments used, Record (Original located, Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

* - Station was called Alpena (near) until 1-1-1931.

WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station ANN ARBOR U of Michigan County Washtenaw State Michigan Index No. 20-0230-9 Date prepared Oct. 20, 1935

Table with 7 columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with 5 columns: (Con't), Instruments used, Record (Original located, Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

A - HB until 1943 then published in CD.

WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station ALSTON (near) Prickett Dam County Baraga State Michigan Index No. Date prepared November 3, 1935

Table with 7 columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with 5 columns: (Con't), Instruments used, Record (Original located, Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station ANN ARBOR (Near) County Washtenaw State Michigan Index No. Date prepared October 20, 1935

Table with 7 columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with 5 columns: (Con't), Instruments used, Record (Original located, Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station ANN ARBOR U of Michigan County Washtenaw State Michigan Index No. 20-0230-9 Date prepared October 18, 1935

Table with 7 columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with 5 columns: (Con't), Instruments used, Record (Original located, Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

* - Elevation corrected 7-1-1935 to 323'. Formerly carried from beginning of record to this date as 350'.
* - Observatory also equipped with another set of thermometers, etc., for corn & wheat observations. Observatory also equipped with another set of thermometers, etc., for corn & wheat observations.
* - Published before 1897 in Michigan Crop Report & Michigan Weather Service Annual Report.

WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station ARBELA County Genesee State Michigan Index No. Date prepared May 7, 1935

Table with 7 columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with 5 columns: (Con't), Instruments used, Record (Original located, Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes entries for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

* - See only until 1895.
* - Published before 1897 in Michigan Crop Report & Michigan Weather Service Annual Report.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU page 1

SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ATLANTA 5382 County: Montgomery State: Michigan Index No. 20-0243-5 Date prepared: October 10, 1953

Location (a)	Latitude (b)	Longitude (c)	Sec. Twp. Reg. (d)	Elevation (e)	Direction and distance from Post Office (f)	Station known as (g)	Description of exposure (h)
1st	45° 00'	84° 09'		995'	0.2 miles SE of Atlanta PO	Atlanta	ONS NW of lighting plant 100', 3 1/2' abv. grd. SWS 10' E of grs. 2 1/2' abv. grd.
2nd	45° 00'	84° 09'		1010'	0.5 miles N of Atlanta PO	Atlanta	ONS SW of ridge SW abv. grd. across street from Atlanta PO
3rd	45° 00'	84° 09'		1010'	Atlanta PO	Atlanta	ONS SW of ridge SW abv. grd. across street from Atlanta PO
4th	45° 01'	84° 09'		1010'	Atlanta PO	Atlanta	ONS SW of ridge SW abv. grd. across street from Atlanta PO
5th	45° 00'	84° 10'	Sec. 11 T30N, R2E	1010'	1.0 mile W of Atlanta PO	Atlanta	ONS SW of ridge SW abv. grd. across street from Atlanta PO
6th	45° 00'	84° 09'		1010'	0.5 miles NW of Atlanta PO	Atlanta	ONS SW of ridge SW abv. grd. across street from Atlanta PO

(Con't)	Instruments used (i)	Original located (j)	Where published (k)	Date let and last observations (l)	Observers and Dates (m)	Remarks (n)
1st	CRS, SHG, IX, MN	WBO, East Lansing	CD	4-17-1927	George Jennings	Country rolling, Thunder Bay backwaters
2nd	CRS, SHG, IX, MN	WBO, East Lansing	CD	2-1-1941	W. P. Thompson	
3rd	CRS, SHG, IX, MN	WBO, East Lansing	CD	11-26-1948	Frank Leiser	Station & equip. moved 0.5 miles N of 2nd location to Newspaper bldg. Country hilly.
4th	SHG, CRS, IX, MN	WBO, East Lansing	CD	4-1-1950	Nicholas Wilgus	Station & equip. moved 1.3 miles NW of 3rd location.
5th	CRS, SHG, IX, MN	WBO, East Lansing	CD	6-10-1950	John Kosiann	Station & equip. moved 1.4 miles SE of 4th location. Thunder Bay 2.0 miles SW.
6th	SHG, SHG, IX, MN	WBO, East Lansing	CD	8-1-1950	Eric Sherwood	Station & equipment moved 1.0 mile N. of 4th location.

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SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: BALDWIN County: Lake State: Michigan Index No. 20-0446-6 Date prepared: April 8, 1952

Location (a)	Latitude (b)	Longitude (c)	Sec. Twp. Reg. (d)	Elevation (e)	Direction and distance from Post Office (f)	Station known as (g)	Description of exposure (h)
1st	45° 53'	85° 52'		835'		Baldwin	Max. & min. therm. in shelter & Dwyer's rain gauge. 40' to open grass field, outdoor.
2nd	45° 53'	85° 51'		835'		Baldwin	Max. & min. therm. in shelter & Dwyer's rain gauge. 40' to open grass field, outdoor.
3rd	45° 53'	85° 52'		820'	3 mi. N of Elm. PO	Baldwin	Max. & min. therm. in shelter & Dwyer's rain gauge. 40' to open grass field, outdoor.
4th							
5th							
6th							

(Con't)	Instruments used (i)	Original located (j)	Where published (k)	Date let and last observations (l)	Observers and Dates (m)	Remarks (n)
1st	Dumwoody RG, SS, IV, MN	WBO, East Lansing	CD	9-25-1898	N. W. Grinnell, Ticket Agent, F. & M. RR.	
2nd	Sattler shelter SHG, IX, MN	Same	CD	9-26-1899	J. D. G. Roadhouse	Country generally level, some forest and open woods 2 mile away. Station located on ridge, 40' to open grass field, outdoor.
3rd	SHG, CRS, IX, MN, PST, A	Same	CD	11-1-1936	L. B. G. Roadhouse	Country generally level, some forest and open woods 2 mile away. Station located on ridge, 40' to open grass field, outdoor.
4th						
5th						
6th						

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WB Form 530-1 Page 2 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU page 1

SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ATLANTA 5382 County: Montgomery State: Michigan Index No. 20-0243-5 Date prepared: October 10, 1953

Location (a)	Latitude (b)	Longitude (c)	Sec. Twp. Reg. (d)	Elevation (e)	Direction and distance from Post Office (f)	Station known as (g)	Description of exposure (h)
7th	45° 01'	84° 03'	Sec. B T30N, R2E	805'	2.7 miles SWS of Atlanta PO	Atlanta	SHG & CRS over lawn, 100' N. of house. Trees SW of station. 50' to open grass field, outdoor.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used (i)	Original located (j)	Where published (k)	Date let and last observations (l)	Observers and Dates (m)	Remarks (n)
7th	SHG	WBO, East Lansing	CD	8-13-1932	Roy Davis	Sta. & equip. moved 2.3 miles SWS of 6th location.
2nd						
3rd						
4th						
5th						
6th						

* - From north to south 150' N. of instruments averaging 24". Land gently rolling. Thunder Bay 2.3 miles SWS of station.

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WB Form 530-1 Page 2 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU page 1

SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: RANGE County: Van Buren State: Michigan Index No. 20-0446-6 Date prepared: March 9, 1955

Location (a)	Latitude (b)	Longitude (c)	Sec. Twp. Reg. (d)	Elevation (e)	Direction and distance from Post Office (f)	Station known as (g)	Description of exposure (h)
1st	42° 19'	86° 07'		850'		Ranger	SHG at abv. ground on edge of high school. 100' of bare ground open N. SHG on lawn, trees all away. Rolling country.
2nd	42° 19'	86° 07'		850'	1.5 miles E of Ranger PO	Ranger	SHG on lawn, trees all away. Rolling country.
3rd					2.5 miles E of Ranger PO	Ranger	SHG over sod, 15' from side. Country level.
4th							
5th							
6th							Not known.

(Con't)	Instruments used (i)	Original located (j)	Where published (k)	Date let and last observations (l)	Observers and Dates (m)	Remarks (n)
1st	IX, MN, DT, SHG	WBO, East Lansing	Annual High School yearbook	11-1-1889	H. D. Burrell	
2nd	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	6-20-1929	High School students	Lake Michigan 11 miles W. From 1929 to 1934 students were in charge of high school station who used the weather.
3rd	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	7-1-1929	Robert A. Russell	Observer was also high school student.
4th	CRS, SHG, IX, MN	WBO, East Lansing	CD	9-20-1935	Verlynn Hopkins	Records not too accurate.
5th	CRS, SHG, IX, MN	WBO, East Lansing	CD	12-1-1935	Bela E. Kennedy	
6th						

* - at this time.
 * - as a project for approximately one year, under supervision of agricultural teachers. No change in exposure ever. From 1930 to 1934 the observer was Verlynn Hopkins 9-20-35 to 4-30-36; Harold Goss 5-1-36 to 9-31-36; R. Kennedy 10-1-36 to 1-31-37. See 530-1 for Alston (near) Prickett Dam.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU page 1

SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: BAD AXE Radio Station County: Huron State: Michigan Index No. 20-0417-6 Date prepared: April 3, 1952

Location (a)	Latitude (b)	Longitude (c)	Sec. Twp. Reg. (d)	Elevation (e)	Direction and distance from Post Office (f)	Station known as (g)	Description of exposure (h)
1st	45° 48'	85° 00'		758'	4 blks. W, 1 blk. N of Bad Axe PO	Bad Axe	Equip. moved from Fort Austin, See 530-1 for Fort Austin. 100' from grs. 3' abv. grd. SHG on ground, 100' from grs. Country level.
2nd	45° 48'	85° 00'		753'	On PO grounds	Bad Axe	CRS 10' from low garage, 3' abv. grd. SHG on grs. near CRG. Country level.
3rd	45° 48'	85° 00'		753'	Bad Axe PO	Bad Axe	CRS over sod 20' from garage, 5 1/2' abv. grd. SHG on grs. 38' from garage, 2 1/2' abv. grd. Level of W.N.W. 1/4 Sec. 24, T16N, R12E. SHG on grs. near pavement 3' above grd. SHG on grs. 50' W of SHG. Transmitter 100' SW of SHG.
4th	45° 51'	85° 04'	Sec. 4	753'	Bad Axe PO	Bad Axe	CRS on grs. 38' from garage, 2 1/2' abv. grd. Level of W.N.W. 1/4 Sec. 24, T16N, R12E. SHG on grs. near pavement 3' above grd. SHG on grs. 50' W of SHG. Transmitter 100' SW of SHG.
5th	45° 48'	85° 01'	Sec. 24, T16N, R12E	750'	1.0 mi. W of Bad Axe PO	Bad Axe	CRS on grs. 38' from garage, 2 1/2' abv. grd. Level of W.N.W. 1/4 Sec. 24, T16N, R12E. SHG on grs. near pavement 3' above grd. SHG on grs. 50' W of SHG. Transmitter 100' SW of SHG.
6th							

(Con't)	Instruments used (i)	Original located (j)	Where published (k)	Date let and last observations (l)	Observers and Dates (m)	Remarks (n)
1st	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	5-1-1928	Louis C. Rice, Agent	Sta. 18 miles from Lake Huron
2nd	CRS, SHG, IX, MN	WBO, East Lansing	CD	7-1-1931	Albert Hass	Former Post Master (work done by B.A. Nash)
3rd	CRS, SHG, IX, MN	WBO, East Lansing	CD	2-1-1937	A. W. Nash	Sta. located at 207 E. Irwin Street
4th	CRS, SHG, IX, MN	WBO, East Lansing	CD	9-12-1932	Carl H. Ritter	
5th	CRS, SHG, IX, MN	WBO, East Lansing	CD	9-20-1932	Radio Station M2E	Sta. moved 4 miles SSE of 4th location
6th						

Worn and sheet records for Bad Axe located at National Archives from 1895 - 1900.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU page 1

SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: BARAGA FM County: Baraga State: Michigan Index No. 20-0482-9 Date prepared: November 5, 1953

Location (a)	Latitude (b)	Longitude (c)	Sec. Twp. Reg. (d)	Elevation (e)	Direction and distance from Post Office (f)	Station known as (g)	Description of exposure (h)
1st	46° 48'	86° 50'		625'		Baraga	SHG 5' abv. grd. CRG in open 40' from nearest 18 house, 10' from top of hill. SHG in old 1st floor house on top of hill.
2nd	46° 48'	86° 52'		625'	In town opposite RR Depot	Baraga	CRG over sod 30' to nearest higher obj. CRG on top of CRG. Country quite level.
3rd	46° 48'	86° 52'		625'		Baraga	Not known.
4th	46° 48'	86° 52'		625'	1.0 mile N of Baraga PO	Baraga	SHG 2' N. of headquarters bldg., 20' HIGH.
5th	46° 48'	86° 52'		625'	1.0 mile N of Baraga PO	Baraga	SHG on top of hill, 15' abv. top of edge over lawn area. Row of birches 4' high 50' to S.
6th	45° 47'	86° 21'		550'		Baraga	

(Con't)	Instruments used (i)	Original located (j)	Where published (k)	Date let and last observations (l)	Observers and Dates (m)	Remarks (n)
1st	WT, DT, IX	WBO, East Lansing	CD, PW	8-1-1887	George A. Royce	
2nd	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	1-1-1896	F. H. Acirath	Country level, slightly sloping to the west toward Peninsula.
3rd	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	10-31-1897	F. H. Acirath	Country level, slightly sloping to the west toward Peninsula.
4th	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	10-31-1897	F. H. Acirath	Country level, slightly sloping to the west toward Peninsula.
5th	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	5-31-1919	Suplt. of Schools	This is also a fair weather Sta. established 1895-97. Earliest information dated 8-25-1897. Station & exposed with SHG. Prickett Dam 1.0 mile N. of station. Only a few months each year were exposed.
6th	CRS, SHG, IX, MN	WBO, East Lansing	CD, PW	5-31-1919	Suplt. of Schools	
7th	SHG, SHG, IX, MN	WBO, East Lansing	CD, PW	5-15-1949	Mich. Dept. of Conserva.	SHG moved 50' S to more favorable location.
8th	SHG, SHG, IX, MN	WBO, East Lansing	CD, PW	6-14-1949	Employees	

* - until May 1948. 1948 to Sept, 1951 in add. after Oct. 1951 in hourly precipitation data.
 * - exposure was the same as SHG, SHG, replaced by SHG 5-15-51/SHG moved 50' S to more favorable location on 6-15-51. See 530-1 for Alston (near) Prickett Dam.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station Baraga LN County Baraga State Michigan Index No. 20-0489-9 Date prepared 11-16-54

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Row 1: 1st, 46° 47', 88° 29', 27 S 1/4 N 33W, 800, 1.0 mile N, Baraga LN, Surrounding countryside is hilly.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Row 1: 1st, RRNG A, Pw, Asheville, CD, 6-1-49 to Mich. Dept. of Conservation.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station Beaverton Power Plant County Gladwin State Michigan Index No. 20-0651-5 Date prepared November 5, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Row 1: 1st, 43° 55' N, 82° 46' W, 29 Sec. 12, 71h, 0.2 miles S of Beaverton PO, Beaverton, //S&D on edge of driveway which circles Pond. Gage 50' W of bldg. and in open.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Row 1: 1st, //RRNG, RRNG, Asheville, NC, HRS, 4-25-1947, Employees Consumers Power Co, Equip. moved from Clare, 15 miles to the S. See 530-1 for Clare.

* - Hh until April, 1948. May, 1948 - Sept. 1951 in 3D. After Oct., 1951 in Hourly Precipitation Data. WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station Battle Creek Airport County Calhoun State Michigan Index No. 20-0552-8 Date prepared February 15, 1956

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Row 1: 1st, 42° 18', 85° 14', 9 2S W, 933, 3 miles W., 350' SW, Battle Cr. CAA AF.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Row 1: 1st, HXMA, SRG, Bg, HyThg, NWAC, CD, 1-7-56, No. 7 Fire Station at Kellogg field.

Formerly CAA station - See 500-1 dated 5-20-54. WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station Beechwood 7 MW County Iron State Michigan Index No. 20-0547-0 Date prepared April 8, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Row 1: 1st, 46° 30', 88° 52', 28, 44N, 37W, 194-0, 7 mi. W Beechwood PO, Beechwood, Instr. shelter, RG & anemometer located over 200 ft. from nearest higher object. See 530-1 for details.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Row 1: 1st, SRG, CRG, Wx, Ln, WBU, East Lansing, CD, 4-18-49 to date, Thomas B. Holliday, Instruments furnished by University of Michigan School of Forestry & Conservation. WBU maintain the station.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station Mt City Gas Plant County Bay State Michigan Index No. 20-0588-8 Date prepared November 4, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Row 1: 1st, 43° 50', 83° 54', 591', Bay City, Instruments 70' above ground. See on roof of frame house, 70' above ground. WBU, CWS, no higher objects near. County level.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Row 1: 1st, BM, DT, W, WBU, East Lansing, MI, CD, 8-1-1937, R. Y. Cadmus, MFC. Post Telegraph Co. S. as written (8-1-38 to 9-30-11).

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station Ball Lake Hydro Plant County Benzie State Michigan Index No. 20-0582-2 Date prepared November 2, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Row 1: 1st, 44° 52', 85° 12', 130N, R7N, 802', 0.2 miles S of Ball Lake PO, Ball Lake, //S&D over dam area, 125' S of Hydro Plant. At top of dam transformer to 11.5' elev. Top of dam which is on W bank of river.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Row 1: 1st, //SRG, NWAC, Asheville, NC, HRS, 4-21-1945, Employees Charlevoix Hydro Plant, Equip. moved from Traverse City (near) to 125' S of dam. 11.5' elev. 125' S of dam.

* - in HB until April, 1948. CD until Sept., 1951. After that, in Hourly Precipitation Data. WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station BENTON HARBOR Airport County Berrien State Michigan Index No. 20-0710-7 Date prepared April 9, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

* - only elevation mentioned throughout reports.
- from May, 1938 through May 5, 1941, station was known as St. Joseph having been moved there in 1936. See St. Joseph Sub-station history, No. 20-0710-8.
\$ - Some Berrien Harbor records in National Archives. Jan. to April, 1937; July, 1888 - Dec. 1889.
% - Longitude and elevation changed 8-1955 to 88° 25' and 949' instead of 83° 0'.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station BERTHAM Hydro Plant County Ontonagon State Michigan Index No. 20-0712-9 Date prepared November 9, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

* - OBS. Mt. N installed Jan. 15, 1959
% - Long. and elev. changed 8-2-55 from 45° 35', 89° 33' to 45° 35' 89° 33' as obtained from Michigan County Atlas of General Highway Maps.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station BENZONIA County Benzie State Michigan Index No. Date prepared March 10, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

* - Records in the National Archives are as follows: 51: Jan.-May, Nov. 1870-Dec. 1875. Descriptions for stations from 530:1 during these times not available from this office.
% - This record location is wrong. Latitude published as 44° 40', but the correct value should be 44° 07' which line runs through the village of Benzieville.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station BERRIEN SPRINGS SW County Berrien State Michigan Index No. 20-0725-7 Date prepared November 6, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

* - changed in publication as 88° 00' but 80° 21' in the corrected map for Berrien Springs.
% - Some of the precipitation records operated at this station in 1871, 1875 others between 1888 & 1911.
% - Not published until May, 1948 in CD. Published in CD until Oct., 1951, then in Hourly Precipitation Data.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station BENZONIA County Benzie State Michigan Index No. Date prepared March 10, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

* - SEE 10' E of OBS. SWG was found to be too close to high shrubs 7-7-29, and at this time was moved 25' to NW away from the shrubs. Instruments at observer's residence were on a hillside with a slope downward to N. Observer took careful readings.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station BERRIEN SPRINGS SW County Berrien State Michigan Index No. 20-0725-7 Date prepared November 6, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

* - Station is on fruit-pail, and observer is a fruit farmer.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station BESSMER County Dogebic State Michigan Index No. _____ Date prepared March 11, 1954

Table with columns: Location (lat, lon), Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* Station was rainfall station only until 1930, when all temperature readings were made official. Observer recorded temperature readings on 10/31/30 from beginning of sta, but they were not official, because they did not have a standard WB support until 1930.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station BLACK LAKE FOREST County Presque Isle State Michigan Index No. 20-519-2 Date prepared May 11, 1953

Table with columns: Location (lat, lon), Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* See WB Form 530-1 for ONAWAY Black Lake Forest.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station BIG BAY County Marquette State Michigan Index No. _____ Date prepared December 18, 1952

Table with columns: Location (lat, lon), Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

Record erratic from 1942 through 1948.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station BLOOMINGDALE County Van Buren State Michigan Index No. 20-026-7 Date prepared November 17, 1953

Table with columns: Location (lat, lon), Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* - to back yard where more open exposure was available.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station BIG RAPIDS Water Works County Mecosta State Michigan Index No. 20-4772-6 Date prepared November 16, 1953

Table with columns: Location (lat, lon), Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* - lat and elevation corrected 12-3-1953 from 43° 50' to 43° 29', and elev. 923' to 950'. Long. corrected from Michigan County Atlas of general highway maps, elev. from USGS bench mark close by.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station BOYNE FALLS St. Norbert County Charlevoix State Michigan Index No. 20-024-2 Date prepared April 15, 1952

Table with columns: Location (lat, lon), Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* - See WB Form 530-1 for Wolverine
* - Latitude and elevation corrected 12-3-53 from lat. 45° 12' to 45° 13', and elev. from 800' to 830'.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station BRGYMT County Macquinn State Michigan Index No. 20-0272-1 Date prepared May 28, 1954

Loca- tion	Latitude	Longitude	Sec. Temp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 01'	85° 02'	Sec. 22 T&N, R2W	550'	at Post Office	Bravort	//SHG loc 30N of house, 18' abv. top of 1/2" x 1/2" x 1/2" on 8' x 12' S
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	//SHG	WBO, East Lansing	CD	8-17-1953	Mrs. Ellis Lovelace	Records from this station used in Com. Report with title "Precip. Study". Post Office is in the Lovelace home.
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station CAUMET County Houghton State Michigan Index No. _____ Date prepared May 21, 1954

Loca- tion	Latitude	Longitude	Sec. Temp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	47° 15'	88° 27'		125'	0.5 mile SE of Calumet PO	Calumet	Sta. descrip. dated 9-15-37 as follows: 1/2" x 1/2" x 1/2" on 4' x 8' S
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CAUMET, until 1935 WBO, East Lansing	Annual 1935 WBO, East Lansing	7 p 1-1937	1-1937	Chief Engineer, U.S.A. Station 7/1-10/1930; Henry Vivian Calumet Recla Mining Co. Knowledge of this station was very inaccurate for entire record.	
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station BURNSIDE 1E County Lapeer State Michigan Index No. 20-1135-2 Date prepared November 27, 1953

Loca- tion	Latitude	Longitude	Sec. Temp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 11'	83° 08'	Sec. 17, T&N, R12S		4.5 miles W of Brown City	Brown City (nr)	//SHG loc 1/2 mi. S of house, 12' abv. top of edge at top of house on lawn. Barn and garage to N & S
2nd	43° 11'	83° 08'	Sec. 15, T&N, R12S		4.3 miles W of Brown City	Brown City (nr)	
3rd	43° 12'	83° 04'	Sec. 10, T&N, R12S	790'	3.0 miles W of Brown City	Burnside 1E	SHG loc 5 of barn, 18' abv. top of SHG. Alder trees 1/2 mi. S of barn, 18' abv. top of SHG. Alder trees 1/2 mi. S of barn, 18' abv. top of SHG.
4th	43° 12'	83° 04'	Sec. 10, T&N, R12S	790'	3.0 miles W of Brown City	Burnside 1E	
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	//SHG	N&C, Ash-ville, N.C.	HR	7-30-1941	Gerald Bayley	Equip. loc. at observation known as Burnside 1E. No post office at Burnside. Country Sta. moved 500 yards up and across the road 11-25-47 from lat. loc.
2nd	//SHG	N&C, Ash-ville, N.C.	HR	11-25-1942	Arvin J. Henn	Equip. moved 1/2 mile W of lat. loc. Observer received 10 yr. service pin in 1952
3rd	//SHG	N&C, Ash-ville, N.C.	HR	4-25-1947	Arvin J. Henn	
4th	SHG	N&C, Ash-ville, N.C.	HR	8-13-1947	Arvin J. Henn	SHG loc 5 of barn, 18' abv. top of SHG. Alder trees 1/2 mi. S of barn, 18' abv. top of SHG.
5th	SHG	N&C, Ash-ville, N.C.	HR	8-13-1953	Arvin J. Henn	SHG loc 5 of barn, 18' abv. top of SHG. Alder trees 1/2 mi. S of barn, 18' abv. top of SHG.
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Caru State Hospital County Tuscola State Michigan Index No. 20-122-8 Date prepared November 27, 1953

Loca- tion	Latitude	Longitude	Sec. Temp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 23'	83° 24'		710'	0.6 miles SSW of Caro	Caro	SHG on 2nd facing N. SHG on 2nd over lawn at rear of office bldg. Meter exposed in open.
2nd	43° 23'	83° 24'		710'	South side of village of Caro	Caro	SHG over 2nd, 2 1/2 mi. S of Caro, doors open.
3rd	43° 23'	83° 24'		710'	0.6 miles SSW of Caro	Caro	SHG over 2nd, 2 1/2 mi. S of Caro, doors open.
4th	43° 27'	83° 04'	Sec. 17 T&N, R2E	870'	0.4 miles SW of Caro	Caro	SHG over 2nd, 2 1/2 mi. S of Caro, doors open.
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SHG, T&N, Wx, Mn	WBO, East Lansing	CD	1-1-1928	Employees Michigan Sugar Corp.	
2nd	SHG, T&N, Wx, Mn	WBO, East Lansing	CD	5-19-1931	Employees Michigan Sugar Corp.	
3rd	SHG, T&N, Wx, Mn	WBO, East Lansing	CD	11-22-1938	N. K. Clark Company	
4th	SHG, T&N, Wx, Mn	WBO, East Lansing	CD	12-1-1938	Michigan Sugar Company	May - July, 1953 missing.
5th	SHG, T&N, Wx, Mn	WBO, East Lansing	CD	2-20-1938	Fred Starkey	Sta. and equip. moved 2.0 miles SSW of 3rd location. Terrain the same as 3rd loc.
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Cadillac Water Works County Wexford State Michigan Index No. 20-1176 Date prepared April 29, 1955

Loca- tion	Latitude	Longitude	Sec. Temp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 17'	85° 25'	29 22N 9W	1297	3.0 miles NNW	Cadillac Municipal Airport	
2nd	44° 15'	85° 24'	4 21N 9W	1290	0.5 mile NW	Cadillac Water Works	Station moved 3 miles SSW of previous site.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	All CAA INSAC Instr. Mn Mn SHG	WBO, East Lansing	CD	1-1-55		No change of exposure or equipment from CAA. This is a continuity of CAA.
2nd	Mx Mn SHG	WBO, East Lansing	CD	9-23-55	City Water Works	
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Carp Power Station (Marquette) County Marquette State Michigan Index No. _____ Date prepared December 16, 1955

Loca- tion	Latitude	Longitude	Sec. Temp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 30'N	87° 23'W	35-40-25	640	2 mi. S of Marquette Plant	Carp Power	Both slope of hill 100 ft from buildings.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SHG	ClevelandCliffs Ironing, Mich	--	Jan. 1920	Station Operators	
2nd						
3rd						
4th						
5th						
6th						

In 1920 Cleveland Cliffs Iron Co. bought several standard rain gauges for measuring precipitation at various power plants. Precipitation observations are made once each day.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Cassopolis, IN County Cass State Michigan Index No. 20-1552-4 Date prepared Nov. 27, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes data for 1st through 6th locations.

* - Charts were mailed to SWS Office, New Philadelphia, Ohio until 8-1943. In Oct., 1943, supervision of station transferred from SWS to W.B. A - No until May, 1940, in use until Oct., 1941. Thereafter in hourly precipitation data.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WPC, Kansas City, Missouri

Station Cass City County Tuscola State Michigan Index No. 20-1361-N Date prepared August 26, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Cassopolis County Cass State Michigan Index No. Date prepared April 29, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes data for 1st through 6th locations.

After 1953, station was moved to Dowagiac, 5 mi. N. of Cassopolis. Temperature and precipitation records of the two stations are separate.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Centerville (near) County St. Joseph State Michigan Index No. Date prepared August 22, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Ceresco County Calhoun State Michigan Index No. Date prepared March 11, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Van Riper Park County Marquette State Michigan Index No. 20-1453-0 Date prepared XXIV November 27, 53

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Includes data for 1st through 6th locations.

* - Station converted to full clim. 10-4-51, CRS placed 1/2 S of SRU, next to hedge. SRU was not moved from original placement.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station: CHEBOYGAN, County: Cheboygan, State: Michigan, Index No.: 20-1422-3, Date prepared: Dec. 10, 1955. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station: CHEBAYING, County: Saginaw, State: Michigan, Index No.: 20-1522-6, Date prepared: December 8, 1955. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station: CHEBOYGAN, County: Cheboygan, State: Michigan, Index No.: 20-1422-3, Date prepared: December 10, 1954. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station: CHEBAYING, County: Saginaw, State: Michigan, Index No.: 20-1522-6, Date prepared: December 8, 1955. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station: CHEBAYING Power Plant, County: Cheboygan, State: Michigan, Index No.: 20-1477-3, Date prepared: December 10, 1953. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Station: CLARE, County: Clare, State: Michigan, Index No.: 20-1477-3, Date prepared: November 5, 1953. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station COLUMBIA, State School County Branch Michigan Index No. 20-1675-8 Date prepared December 10, 1933

Table with columns: Location, Latitude, Longitude, Sec. Temp. Req., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Includes records for 1st through 6th locations.

* - Long-time Railway agents at this location... Records for Colgate, recorded at National Archives from July 1933-July 1978...

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station COLIMA (dup) # 89 County Barrien State Michigan Index No. 20-170-7 Date prepared December 11, 1935

Table with columns: Location, Latitude, Longitude, Sec. Temp. Req., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Includes records for 1st through 6th locations.

* - maintained by SWS as part of project in region harbor area... - No until May, 1933, when it was published in CD. In hourly precipitation data after Oct. 1931.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station COOKS TREATMENT PLANT County Branch Michigan Index No. 20-1800-8 Date prepared December 10, 1933

Table with columns: Location, Latitude, Longitude, Sec. Temp. Req., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Includes records for 1st through 6th locations.

* - Published in CD until May, 1948, in CD until Oct. 1951, then published in hourly precipitation data.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station COOKE SITE County Iosco State Michigan Index No. Date prepared March 11, 1934

Table with columns: Location, Latitude, Longitude, Sec. Temp. Req., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Includes records for 1st through 6th locations.

* - This rain gauge like many others used by Consumers Power Company and owned by the company, was improperly installed, leaky, screened or counted down frequently...

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station COLUMBIA County Barrien State Michigan Index No. Date prepared December 11, 1935

Table with columns: Location, Latitude, Longitude, Sec. Temp. Req., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Includes records for 1st through 6th locations.

* - From 5-1-24 until 1935, station elevation published as 549'. Changed to 855' on 5-25-38.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station COPPER HARBOR Pt. Wilkins County Keweenaw State Michigan Index No. 20-1700-0 Date prepared December 14, 1933

Table with columns: Location, Latitude, Longitude, Sec. Temp. Req., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Includes records for 1st through 6th locations.

* - Published in CD after May, 1948. In hourly precipitation data after Oct. 1931.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station CRONDA (Current name) County Delta State Michigan Index No. 20-1804-1 Date prepared December 1, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entry for 1st location at 8.0 miles S.W. of Cornell.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes entry for 1st location with instruments SRS, SRS, W, W, WBO, East Lansing.

* - Top of living owned by Mich. Hydrologic Research Project, W.S.C., East Lansing, Michigan, which is part of S.S. records are available from that office.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station CROTON OR CROTON DAM (Current name) County Newago State Michigan Index No. Date prepared May 7, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entry for 1st location prior to May 1, 1949.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes entry for 1st location with instruments SRS, SRS, W, W, WBO, East Lansing.

* - Top of living owned by Mich. Hydrologic Research Project, W.S.C., East Lansing, Michigan, which is part of S.S. records are available from that office.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station CROSS VILLAGE (Current name) County East State Michigan Index No. 20-1802-2 Date prepared December 15, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entry for 1st location at 0.8 mile S of Cross Village.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes entry for 1st location with instruments SRS, SRS, W, W, WBO, East Lansing.

* - Location of //SRS and WBO remained same as in 1st location. ** - Station 3-3-45. *** - owned and maintained by Mich. Michigan Power Company because official and a continuation of Channing records was declared as the terrain was very similar. See 25 form 530-1 for Channing.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station CRYSTAL FALLS (ONE) (Current name) County Iron State Michigan Index No. 20-1822-0 Date prepared November 30, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entry for 1st location at 6.5 miles NE of Crystal Falls.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes entry for 1st location with instruments SRS, SRS, W, W, WBO, East Lansing.

* - Location of //SRS and WBO remained same as in 1st location. ** - Station 3-3-45. *** - owned and maintained by Mich. Michigan Power Company because official and a continuation of Channing records was declared as the terrain was very similar. See 25 form 530-1 for Channing.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station CROGDILL (Current name) County Sanilac State Michigan Index No. Date prepared March 12, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entry for 1st location at 7.5 miles W from buildings or trees on Crogdill.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes entry for 1st location with instruments SRS, SRS, W, W, WBO, East Lansing.

* - SRS, W, W, installed May 15, 1951.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station CURRAN (Current name) County Alcona State Michigan Index No. Date prepared January 21, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes entry for 1st location at 1.5 miles NE of Curran.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes entry for 1st location with instruments SRS, SRS, W, W, WBO, East Lansing.

* - SRS records published in CD, RBO in IB. //SRS records available from W.S.C., Asheville, N.C.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form C O

Station Davidson 51 County Genesee State Michigan Index No. 20-2000-2 Date prepared July 16, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WB, East Lansing, Michigan

Station De Tour #2 County Chippewa State Michigan Index No. 20-2009-1 Date prepared December 17, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WB, East Lansing, Michigan

Station Dearborn County Wayne State Michigan Index No. 20-2015-2 Date prepared December 16, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WB, East Lansing, Michigan

Station De Tour #2 County Chippewa State Michigan Index No. 20-2009-1 Date prepared December 17, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WB, East Lansing, Michigan

Station De Tour #5 County Chippewa State Michigan Index No. 20-2009-1 Date prepared December 17, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Some time during the summer of 1950, the fountains moved to new house 0.4 mile N of 3rd location. WB Form 530-1
2 - 2000 records located in Niles, Michigan, ... and published in hourly precipitation data.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WB, East Lansing, Michigan

Station Deer Park State Forest County Iosco State Michigan Index No. 20-2028-1 Date prepared April 24, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - RWD installed 5-4-45. Previously located at Grand Marais, 24 miles West of Deer Park. RWD installed at Grand Marais 10-27-42, moved to Deer Park 5-3-45 near other instruments. On May 24, 1951 RWD relocated at Newberry State Hospital. See 530-1 for Newberry. WB Form 530-1
2 - winter of 1951 records not for years appear excessive and questionable. Deer Park climate record not continued elsewhere and discontinued as of 4-21-54.

Y Y
WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: Delaware County: Keweenaw State: Michigan Index No. none Date prepared: October 11, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation msl	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 22'	88° 05'	15 58N 30W	--	9 miles SWS(Phoenix)	Delaware	On ground, 40 ft. from building 22 feet high. Top of gage 33 inches above ground.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(1)	(2)	(3)	(4)	(5)
1st	SBP	WFO, E. Lansing, Mich., CD	Nov. 1, 1938 Dec. 11, 1940	Harrison Burnett	Country rolling. Forest 470 feet north. Equipment moved to Phoenix.
2nd					
3rd					
4th					
5th					
6th					

*of record but more exactly 47 25' 88 04'.
WB Form 530-1

Y Y
WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: DOWAGIAC County: Houghton State: Michigan Index No. 20-2197-0 Date prepared: April 14, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation msl	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 56'	88° 47'	Sec. 31 T20N, R35W		0.1 mile W of Donnan Pt.	4.5 mile NK	On road on grade of Plant. Bldgs. in all directions except S. 7-24' adv. top of gage 20" above ground. 7-24' adv. top of gage 20" above ground. 7-24' adv. top of gage 20" above ground. 7-24' adv. top of gage 20" above ground.
2nd	46° 56'	88° 47'			0.1 mile NE of Donnan Pt.	0.1 mile NK	On road on grade of Plant. Bldgs. in all directions except S. 7-24' adv. top of gage 20" above ground. 7-24' adv. top of gage 20" above ground. 7-24' adv. top of gage 20" above ground. 7-24' adv. top of gage 20" above ground.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(1)	(2)	(3)	(4)	(5)
1st	SBP	WFO, East Lansing, Mich., CD	6-24-1950 10-31-1951	Consolidated Water Power and Paper Company	Equipment moved from former loc. at Wilson, Mich. 1/2 mile SW of Donnan Pt. 10-31-1951.
2nd	SBP	WFO, East Lansing, Mich., CD	9-17-1961 11-15-1961	Wesley Allen	Wilson, Mich. 1/2 mile SW of Donnan Pt. 10-31-1951.
3rd					
4th					
5th					
6th					

WB Form 530-1

WB Form 530-1

Sheet 1 of 3: giving location of
BATHON

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Mich on

Station: BATHON County: Baton State: Michigan Index No. 20-2140-B Date prepared: December 8, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation msl	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st						Disondale	
2nd						Disondale	
3rd						Disondale	
4th						Disondale	
5th						Disondale	
6th						Disondale	Exposed in open area in the observers yard.

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(1)	(2)	(3)	(4)	(5)
1st	SBP	WFO, East Lansing, Mich., CD	7-1-1958 2-27-1959	Robert Bennett	
2nd	SBP	WFO, East Lansing, Mich., CD	1-2-1959 7-2-1959	G. V. Goodrich	
3rd	SBP	WFO, East Lansing, Mich., CD	7-30-1959 8-1-1959	Wm. H. Goodrich	No records for 1958 through 1957, 1st of 1958.
4th	SBP	WFO, East Lansing, Mich., CD	1-1-1962	Harold Sawyer	
5th	SBP	WFO, East Lansing, Mich., CD	7-9-1963	Javern Pratt	
6th	SBP	WFO, East Lansing, Mich., CD	7-11-1963	Paul Gilson	

WB Form 530-1

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: DOWAGIAC County: CASS State: Michigan Index No. 20-2250-7 Date prepared: June 8, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation msl	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 59'	86° 07'	Sec. 8 T6S, R16W	752'	0.1 mile SW of Dowagiac Pt.	Dowagiac	On top of trees 50' above horizon, top of gage 20" above ground. Country rolling. Increases pronouncedly toward S. 30' W wooded.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(1)	(2)	(3)	(4)	(5)
1st	SBP, SBP, SBP, CBS	WFO, East Lansing, Mich., CD	6-8-1955	Employees city water & light	The data from new location should not be considered a continuation of Dowagiac 22. This location at 22 was high on a hill.
2nd					
3rd					
4th					
5th					
6th					

*and elevation comparable to terrain toward the east. The new location above is representative for Dowagiac and is representative for rolling country, give to the west, north and south. New exposure precise, good maximum temperature may be expected to run 10-15° below, minimum 10° above. Exact elevation at Post Office is 752'. The gage in existing from this point was estimated. Elevation of Dowagiac 22 was evidently that of the city since Mr. Ranney's firm is 1 or 2 hundred feet higher.
WB Form 530-1

WB Form 530-1

Sheet 2 of 3: giving location of
BATHON

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Mich on

Station: BATHON County: Baton State: Michigan Index No. 20-2140-B Date prepared: December 8, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation msl	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 30'	84° 30'	Sec. 15 T3N, R3W	870	1/2 mile W of Dowagiac Pt.	Disondale	On top of trees 30' from houses to west. Driver's eye. 1 block distance from Rivington.
2nd	42° 30'	84° 30'			0.1 mile W of Dowagiac Pt.	Disondale	On top of trees 30' to 75' from any houses or trees. Rolling country. 1/2 to 2 to S.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(1)	(2)	(3)	(4)	(5)
1st	SBP	WFO, E. Lansing, Mich., CD	1-13-1953 1-20-1953	George La Coe	
2nd	SBP	WFO, E. Lansing, Mich., CD	1-21-1953	George La Coe	
3rd					
4th					
5th					
6th					

WB Form 530-1

Y Y
WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: DOWAGIAC 22 County: CASS State: Michigan Index No. 20-2249-7 Date prepared: June 8, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation msl	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 59'	86° 07'		750'	1.5 miles S of Dowagiac Pt.	Dowagiac 22	On top of trees 30' above horizon, top of gage 20" above ground. Country rolling. Woods 1/2 mi. from CBS nearest bldg. faces N. floor 4' adv. grd. 50' on grd. 100' from bldg.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(1)	(2)	(3)	(4)	(5)
1st	SBP, SBP, SBP, CBS	WFO, East Lansing, Mich., CD	6-1-1953 6-7-1953	M. N. Ranney	Country rolling. Woods 1/2 mi. from CBS large pond 1/4 mile from CBS.
2nd					
3rd					
4th					
5th					
6th					

FROM NOV. 1950 TO NOV. 1953, records were taken at Cassopolis, 5 miles SE of Dowagiac. Station was closed when no new observer could be found and was consequently moved to Dowagiac as a new station. The temperature and precipitation records of the two stations are separate.
WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: NBO, East Lansing, Michigan
Index No. _____ Date prepared: March 15, 1964

Station: DUKES County: Marquette State: Michigan Index No. _____ Date prepared: March 15, 1964
Table with columns: Location (lat, lon), Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - From Aug. of station to Aug. 1929, Post Office and Village were named Russ. Name was officially changed to Dukes. No change in location of station. Employees continued to make observations through spring, summer and fall seasons 5 days a week, until Oct. 1947. Station was in period operated as fire-weather and forms filed in NBO, Chicago. Station closed 1942 because of war situation.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: NBO, East Lansing, Michigan
Index No. 20-2496-1 Date prepared: April 23, 1962

Station: DUNBAR (Forest Exp. Station) County: Chippewa State: Michigan Index No. 20-2496-1 Date prepared: April 23, 1962
Table with columns: Location (lat, lon), Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - From Jan. 1, 1942 through Dec. 31, 1944, this station was unofficial and records were not published, but filed for reference only. Beginning with Jan. 1, 1945, precipitation records were published, the omitted page being the official rain-gauge, as some pages become available in the Mich. climatological data, temperature records were published beginning May 1, 1948 and regulation 88 thermometers were put in use. Previously, Taylor type Max. and Min. therm. were in use.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: NBO, East Lansing, Michigan
Index No. 20-2532-0 Date prepared: December 18, 1953

Station: DAGLE HARBOR (Coast Guard) County: Keweenaw State: Michigan Index No. 20-2532-0 Date prepared: December 18, 1953
Table with columns: Location (lat, lon), Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - Employees: Thomas Thompson from 3-3-39 to 11-10-42; John Nolan 4-11-46 to 12-3-48; T.J. Bennetts 4-1-1953 to 8-30-47; H. A. Robinson 8-1-47 to 11-30-47.
Storm warning displays discontinued 1/27/55.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: NBO, East Lansing, Michigan
Index No. 20-2581-2 Date prepared: April 29, 1962

Station: EAST JORDAN County: Charlevoix State: Michigan Index No. 20-2581-2 Date prepared: April 29, 1962
Table with columns: Location (lat, lon), Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - Country is rolling. Lake Charlevoix 1/4 mi. distant. Station located at observer's residence, 100 N. Main St.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: NBO, East Lansing, Michigan
Index No. 20-2593-9 Date prepared: April 30, 1962

Station: EAST LANSING (Exp. Farm) County: Ingham State: Michigan Index No. 20-2593-9 Date prepared: April 30, 1962
Table with columns: Location (lat, lon), Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - A complete list of equipment is as follows: Ferguson 98 record, Triple Traverse Rec. rain and snow gauge, Friez wind recording direction velocity transmitter, Dozier wind anemometer, Campbell 5011 weather block, 8111 1/2 weather block, electric pyrometer, indoor-outdoor thermometer, soil thermometer, Mylar shielded standard 81 non-recording rain-gauge, no swap. equip. CBS with Max. and Min. therm.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: NBO, East Lansing, Michigan
Index No. 20-2425-5 Date prepared: April 30, 1962

Station: EAST TAWAS (U.S. Forest) County: Iosco State: Michigan Index No. 20-2425-5 Date prepared: April 30, 1962
Table with columns: Location (lat, lon), Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - Records Jan. - Aug. 1888, located in National archives.
* - Scattered monthly records are available for the period Oct. 1891 - Feb. 1893 - some published in Hb. observer with 530-1.
* - This change in instruments & location believed to have taken place April 1, 1902.
* - Truly transplanted in the 80,000-acre national forest 10 miles N. of East Tawas; the plot is known as the Seal Nursery of the Mich. Nat. Forest. Over 12,000 acres of plantations have been made from this nursery.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station EAST TOWN, U.S. Forest, County Ingham State Michigan Index No. 20-2425-4 Date prepared April 30, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 7th, 8th, 9th, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Lists observers like U.S. Forest Service and dates of observations.

Distances from Post Office not given for any of the locations except 8th and 9th. Revised to 0.7 mile on 11/11/1952.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station EATON RAPIDS, County Eaton State Michigan Index No. 20-2427-8 Date prepared May 12, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 13th, 14th, 15th, 16th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Lists observers like WBO, East Lansing and dates of observations.

* See separate 530-1 for details on Raverage.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station EATON RAPIDS, County Eaton State Michigan Index No. 20-2427-8 Date prepared May 12, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Lists observers like Lena Mann and dates of observations.

* Precipitation readings were published only for March through May 1914 to 1915; and Jan. - Dec. 1941 to date. Precipitation was measured for certain portions of the years as follows: Feb. - July, 1905; Feb. - May 1906 - 1912; March through May, 1915 - 1917; Feb. through May 1918 - 1940; Jan. through Dec. 1941 to date.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SAU CLAIRE, 4 NE, County Barron State Michigan Index No. 20-2428-7 Date prepared May 7, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Lists observers like Green Lax L. Elm and dates of observations.

* Station was called Sodus until April, 1927, when the name was changed to Sau Claire. * Distance and longitude changed to 2 1/2 mi., 93-24 on 11/11/1940. * - about 2 miles E. of Sau Claire.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station EATON RAPIDS, County Eaton State Michigan Index No. 20-2427-8 Date prepared May 12, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 7th, 8th, 9th, 10th, 11th, and 12th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Lists observers like Earle V. Miller and dates of observations.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MC REID, County Montcalm State Michigan Index No. 20-2525-5 Date prepared April 12, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Lists observers like WBO, East Lansing and dates of observations.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station KO BRIDGES County Montcalm State Michigan Index No. 20-5264-S Date prepared April 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Col'n), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* - Gage owned by County Road Commission since the opening of this station's history at Lapeer. ** - considered a continuation of station records. See note for station.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station ALBERTA h SE County Benzie State Michigan Index No. 20-2972-S Date prepared December 21, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Col'n), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

* - some top of SMO. Land is rolling. Lake level 800' W of station. Lake Michigan 0.5 mile N of station. ** - included at beginning of section for use in Great Lakes Precipitation Study. Records filed at WFO, East Lansing, Mich. ** - added for Franklinford. *** - thermometer added for wind reporting, 1/23/56.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station EDENVILLE County Gladwin State Michigan Index No. Date prepared March 16, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Col'n), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station SVERT County Osgoda State Michigan Index No. 20-2871-S Date prepared December 28, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Col'n), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station SANGRE County Montcalm State Michigan Index No. 20-2467-S Date prepared December 22, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Col'n), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station SVERT County Osgoda State Michigan Index No. 20-2871-S Date prepared December 28, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st through 6th.

Table with columns: (Col'n), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st through 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: 282N County: Ontonagon State: Michigan Index No. 20-2774-0 Date prepared: December 23, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

Remarks: - 2000 installed 11-10-53, no shield needed. - Reports were sent to WBO, Chicago, Illinois by Mr. J. W. ...

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: FALETTE SACR LAY County: Delta State: Michigan Index No. 20-2757-1 Date prepared: May 9, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

Remarks: - Station known as Sacr Lay previous to May 1, 1952. - Lat. and Long. corrected 1-27-53 to 45° 58' 41" N, 82° 41' W based on Michigan County Atlas of General Lays.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: FENNVILLE #2 County: Allegan State: Michigan Index No. Date prepared: March 16, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

Remarks: - This location was in operation from 1928 to 1937. - Station was destroyed by fire in 1937. - Station was replaced by this one in 1954.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: FENTON (near) County: Genesee State: Michigan Index No. 20-2755-2 Date prepared: February 8, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

Remarks: - Station known as Fenton until May 1948 when published in CD. - Station project ended. See 530-1 for continuation of this record at HOWELL 7NE.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: FENNVILLE #1 County: Allegan State: Michigan Index No. Date prepared: March 16, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

Remarks: - Lake Michigan 6 miles W. Several months missing 1928 to 1929. - Station was destroyed by fire in 1929.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: FENTON County: Genesee State: Michigan Index No. 2754-N Date prepared: December 9, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks

Remarks: - Station on top of Sandusky. - Station was destroyed by fire in 1954.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station FRIFL 1, 2, 25 County Benzie, Michigan State Michigan Index No. 20-270-2 Date prepared December 24, 1951

Table with 7 columns: Loc. No., Latitude, Longitude, Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with 5 columns: (Con't), Instruments used, Original located, Where published, Date list and last observations, Observers and Dates, Remarks

* - Station FRIFL 1, 2, 25 was moved from its original location near Ansley, 2.5 miles NE to the above location. The WBO was first installed at Ansley 5-1-1921. Subsequent publications in WB after 1920 and until 1-1948 in WB; in '50 until October 1951, and in 1952. (Continued on next page.)

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station FRANKFRT County Benzie, Michigan State Michigan Index No. 20-294-2 Date prepared May 15, 1952

Table with 7 columns: Loc. No., Latitude, Longitude, Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with 5 columns: (Con't), Instruments used, Original located, Where published, Date list and last observations, Observers and Dates, Remarks

* - Instruments moved from loc. 2 to loc. 1. In 1948, loc. 2 of station was moved to loc. 1 of house. WB Form 530-1

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UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station FRANKFRT County Benzie, Michigan State Michigan Index No. 20-294-2 Date prepared May 15, 1952

Table with 7 columns: Loc. No., Latitude, Longitude, Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with 5 columns: (Con't), Instruments used, Original located, Where published, Date list and last observations, Observers and Dates, Remarks

* - Longitude questionable. Believe it should be 88° 13'. * - All 1 blocks W & W blocks E of FO. Very good exposure, esp. snowfall. * - Of station. See 1 block W & W blocks E of FO. * - Loc. moved 25' N in Aug. 1951, due to building of a new 2 1/2' high old location. * - South to Alberta which is considered a continuation of Frankfort record. See 530-1 for all. WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station GANGES County Allegan, Michigan State Michigan Index No. Date prepared March 16, 1954

Table with 7 columns: Loc. No., Latitude, Longitude, Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with 5 columns: (Con't), Instruments used, Original located, Where published, Date list and last observations, Observers and Dates, Remarks

* - From 1-1901 to 12-1-1906 there was a station at Farmville, 7 miles ENE of Ganges, operated by Wm. Farmville postmaster Wm. B. Garsett. After Mr. Garsett, the station was moved to Ganges in Oct. 1906; in the 1930 edition of the WB Form 530-1, this location was used in place of the Ganges records, and since there was another station at Farmville from 1924 to 1930, this office believes that this period from 1906 to 1930 should be kept with the later Farmville record. See WB 530-1 for Farmville.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station GARNET County Mackinac, Michigan State Michigan Index No. 40-501-1 Date prepared May 15, 1952

Table with 7 columns: Loc. No., Latitude, Longitude, Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with 5 columns: (Con't), Instruments used, Original located, Where published, Date list and last observations, Observers and Dates, Remarks

* - Instruments moved from loc. 1 to loc. 2. WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station GARNET (near) County Mackinac, Michigan State Michigan Index No. Date prepared March 4, 1954

Table with 7 columns: Loc. No., Latitude, Longitude, Sec. Temp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure

Table with 5 columns: (Con't), Instruments used, Original located, Where published, Date list and last observations, Observers and Dates, Remarks

* - Records located at WBO, Asheville, N. C. and published in WB until station closed. * - See 530-1 for TRAUT LAKE. WB Form 530-1

Station GAYLORD (Current name) County Uttara State Michigan Index No. 20-5028-5 Date prepared December 30, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 02'	84° 32'		1350'		Gaylord	
2nd	45° 01'	84° 41'		1358'	0.2 mile SW of Gaylord MI	Gaylord	Descript. dated 4-10-09 stated instr. located 400' S of depot over road SW on top of CBS. 1st instr. and instr. presumed to be in groups of 2. 2nd instr. was located by Mr. J. J. Franks on 4-10-09. 3rd instr. was located by Mr. J. J. Franks on 4-10-09. 4th instr. was located by Mr. J. J. Franks on 4-10-09. 5th instr. was located by Mr. J. J. Franks on 4-10-09. 6th instr. was located by Mr. J. J. Franks on 4-10-09.
3rd	45° 00'	84° 43'		1357'	0.2 miles N of Gaylord MI	Gaylord	
4th	45° 02'	84° 42'			In town	Gaylord	
5th	45° 02'	84° 42'		1348'	1 mile S of Gaylord MI	Gaylord	
6th	45° 02'	84° 41'		1349'	0.3 mile SW of Gaylord MI	Gaylord	

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
1st	Bv, DT, WT, SNG, WBO, WX, SW	WBO, East Lansing	Michigan	6-1-1907	Agents were 4 observers, each reporting 4 yrs of obs during this period. Last 4 yr obs. not known. Several reports in 1907 & includes records were very erratic, many reports unusable.
2nd	CS, SNG, WX, SW	WBO, East Lansing	CD, MI	10-31-1909	L. S. RBY
3rd	CS, SNG, WX, SW	WBO, East Lansing	CD, MI	12-2-1909	Charles J. Franks
4th	CS, SNG, WX, SW	WBO, East Lansing	CD, MI	3-31-1910	Probate Judge
5th	CS, SNG, WX, SW	WBO, East Lansing	CD, MI	3-31-1910	G. C. Johnson
6th	SNG	WBO, East Lansing	CD	11-10-1930	L. Franks
7th	SNG	WBO, East Lansing	CD	11-10-1930	L. Franks
8th	SNG	WBO, East Lansing	CD	7-21-1931	St. W. East, WBO, East Lansing, Mich. signed report.

Station GAYLORD (Current name) County Uttara State Michigan Index No. 20-5028-5 Date prepared December 31, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
7th	45° 02'	84° 41'		1349'	0.5 mile SW of Gaylord MI	Gaylord	SW, SW of the CBS. 1st instr. was located by Mr. J. J. Franks on 4-10-09. 2nd instr. was located by Mr. J. J. Franks on 4-10-09. 3rd instr. was located by Mr. J. J. Franks on 4-10-09. 4th instr. was located by Mr. J. J. Franks on 4-10-09. 5th instr. was located by Mr. J. J. Franks on 4-10-09. 6th instr. was located by Mr. J. J. Franks on 4-10-09. 7th instr. was located by Mr. J. J. Franks on 4-10-09.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
7th	CS, SNG, WX, SW	WBO, East Lansing	CD	8-1-1931	L. S. RBY, Supt Mich. Conserv. Dept.
2nd					
3rd					
4th					
5th					
6th					

Station FRANCOIS (Current name) County Mason State Michigan Index No. 20-5018-6 Date prepared December 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 04'	86° 17'	Sec. 12 Twp. 17N Rng. 17E	Known	4.1 miles SW of Francois PO	Francois	On ground, presumed to be in exposure. No accurate description available.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
1st	SNG	WBO, Asheville, N.C.		5-6-1944	W. P. Anderson
2nd					
3rd					
4th					
5th					
6th					

* - Not published until May, 1948 in CD. After October, 1951 in Hourly Precipitation Data.

Station FLINT (Current name) County Gemona State Michigan Index No. 20-2851-9 Date prepared December 9, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st						Flint	
2nd						Flint	
3rd						Flint	
4th						Flint	
5th						Flint	
6th						Flint	

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
1st	SNG	WBO	Publ.	7-1-1913	William Fisher
2nd	SNG	WBO	"	8-1-1913	Frank N. Baldwin
3rd	SNG	WBO	"	10-1-1913	Wm. A. Smith
4th	SNG	WBO	"	10-1-1913	Frank N. Smith
5th	SNG	WBO	"	10-1-1913	George T. Ryan
6th	SNG	WBO	"	10-1-1913	Wm. Fisher

Station FLINT (Current name) County Gemona State Michigan Index No. 20-2851-9 Date prepared December 9, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
7th	43° 01'	85° 10'	Sec. 31 Twp. 18N Rng. 7E	715'	7.0 miles N of Flint PO	Flint	SNG on grounds of Savage Flint. Trace to the NW 3/4 above top of gas. Country rolling.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
7th	SNG	WBO	Publ.	10-1-1913	G. L. Walker
8th	SNG	WBO	"	10-1-1913	William McNamee
9th	SNG	WBO	"	10-1-1913	Otto Hegle
10th					Flint Savage Flint
11th					
12th					

Station GERMANSK Wild Life Refuge (Current name) County Schoolcraft State Michigan Index No. 20-5123-1 Date prepared May 14, 1952

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 17'	85° 59'	Sec. 7, Twp. 17N Rng. 13E	769'	2.5 mi. N and 1 mi. W of Gernask PO	Gernask	Swampy area. 100' SW of SW corner of 1st Sec. 7, Twp. 17N, Rng. 13E. SNG on rd 4' from shelter. Open exposure.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
1st	SVA, A, LX, SW, CBS, SNG, Pay	WBO, East Lansing	CD	1-21-1939 to date	Sentry Wildlife Refuge, Gernask
2nd					
3rd					
4th					
5th					
6th					

* - Elevation questionable - being used at present time until correct elevation can be established.
 † - Swamp readings taken May 2, 1939.
 ‡ - Surrounded by small ponds and extensions of main body of lake. There are lodges of water 50' N, 50' S, 150' E and 100' W of the pan. The soil is sandy.

W3 Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
STATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Glen Arbor, 4 NE County Leelanau State Michigan Index No. 20-3176-2-2 Date prepared October 19, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 56'	85° 55'	7 29W 13N	625'	4.0 miles NE	Glen Arbor 4 NE	Lake Michigan 2 miles West. Land is rolling. Sandy and clay soil. 60% wooded.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks	
		Original located	Where published			
(a)	(1)	(2)	(3)	(4)	(5)	
1st	//SRG CR8 Mx Mx	WBO, East Lansing, MI	CD	8-20-54	Elmer Klett	Sta. record not considered a continuation of former location of Glen Arbor station.
2nd						
3rd						
4th						
5th						
6th						

W3 Form 530-1 PAGE 1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
STATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GRAND HAVEN Fire Dept. County Ottawa State Michigan Index No. 20-5230-7 Date prepared January 20, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 04'	86° 14'		619'	Washington & Water Street on same corner as 1st	Grand Haven	Instruments, except R., located on roof of Rice House, Ansonia 1001 av. rd. 4142 1/2 mi. S. of Grand Haven. Office
2nd	43° 04'	86° 14'		619'	Second & Washington St. on same corner as 1st	Grand Haven	Instruments, except R., located on roof of Rice House, Ansonia 1001 av. rd. 4142 1/2 mi. S. of Grand Haven. Office
3rd	43° 04'	86° 14'		619'	0.2 mile S of 1st	Grand Haven	Instruments, except R., located on roof of Rice House, Ansonia 1001 av. rd. 4142 1/2 mi. S. of Grand Haven. Office
4th	43° 04'	86° 14'		619'	St. Elizabeth's corner as 1st	Grand Haven	Instruments, except R., located on roof of Rice House, Ansonia 1001 av. rd. 4142 1/2 mi. S. of Grand Haven. Office
5th	43° 04'	86° 14'		619'	0.2 mile S of 1st	Grand Haven	Instruments, except R., located on roof of Rice House, Ansonia 1001 av. rd. 4142 1/2 mi. S. of Grand Haven. Office
6th	43° 04'	86° 14'		619'	0.2 mile S of 1st	Grand Haven	Instruments, except R., located on roof of Rice House, Ansonia 1001 av. rd. 4142 1/2 mi. S. of Grand Haven. Office

(Con't)	Instruments used	Record		Observers and Dates	Remarks	
		Original located	Where published			
(a)	(1)	(2)	(3)	(4)	(5)	
1st	WS, WS, DT, A			5-22-1871	Signal Officer	
2nd	WS, WS, DT, A			7-23-1871	Signal Officer	
3rd	WS, WS, DT, A			8-13-1872	Signal Officer	
4th	WS, WS, DT, A			10-3-1889	Signal Officer	
5th	WS, WS, DT, A			8-1-1891	Signal Officer	
6th	WS, WS, DT, A			5-31-1905	Weather Bureau	
6th	WS, WS, DT, A			8-3-1938	Weather Bureau	

* - 1st was actual elev. of tower, adjusted elev. for pressure readings was 632' for Grand Haven. * - 2nd was actual elev. of tower, adjusted elev. for pressure readings was 632' for Grand Haven. * - 3rd was actual elev. of tower, adjusted elev. for pressure readings was 632' for Grand Haven. * - 4th was actual elev. of tower, adjusted elev. for pressure readings was 632' for Grand Haven. * - 5th was actual elev. of tower, adjusted elev. for pressure readings was 632' for Grand Haven. * - 6th was actual elev. of tower, adjusted elev. for pressure readings was 632' for Grand Haven.

W3 Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
STATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GLEN ARBOR Leelanau School County Leelanau State Michigan Index No. 20-3176-2 Date prepared December 30, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 55'	85° 58'		565'	1.5 miles NE of Glen Arbor PO	Glen Arbor	1st was on top of hill, 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
2nd	44° 55'	85° 58'		565'	1.8 miles NE of Glen Arbor PO	Glen Arbor	1st was on top of hill, 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks	
		Original located	Where published			
(a)	(1)	(2)	(3)	(4)	(5)	
1st	WS, WS, DT, A	WS, East Lansing	CD	2-15-1947	Arthur S. Huey, Director	This is an exclusive private recording school. Equipment moved to Glen Arbor 4 NE, record not compatible.
2nd	//SRG CR8	WS, East Lansing	CD	8/20/54	Elmer Klett	
3rd						
4th						
5th						
6th						

* - 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
 * - 1st was installed 7-24-53 for Great Lakes Precipitation Study. Data not published, same on file at WBO, East Lansing.
 * - 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.

W3 Form 530-1 PAGE 2 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
STATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GRAND HAVEN Fire Dept. County Ottawa State Michigan Index No. 20-5230-7 Date prepared January 20, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 04'	86° 14'		619'	0.6 mile SE of Grand Haven PO	Grand Haven	WS over 800' tall from large tree, 1st from 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
2nd	43° 04'	86° 14'		619'	0.2 mile E of Grand Haven PO	Grand Haven	WS over 800' tall from large tree, 1st from 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks	
		Original located	Where published			
(a)	(1)	(2)	(3)	(4)	(5)	
1st	WS, WS, DT, A	WS, East Lansing	CD	7-1-1935	Fire Chief	
2nd	WS, WS, DT, A	WS, East Lansing	CD	2-6-1948	Fire Chief	
3rd	WS, WS, DT, A	WS, East Lansing	CD	5-1-1945	Henry Hoesbake	Lake Michigan 1.6 mile S of station.
4th						
5th						
6th						

W3 Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
STATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Glennie in Alcona Dam County Alcona State Michigan Index No. 20-3179-3 Date prepared January 21, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 32'	83° 48'	18 72N, 85E	875'	4.3 miles N of Glennie H.	Glennie	WS on a dike 1 1/2 mi. W of water's edge on western river. Power house 25-30 ft. of age, 20' high. Country side wooded and rolling.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks	
		Original located	Where published			
(a)	(1)	(2)	(3)	(4)	(5)	
1st	//SRG CR8	WBO, East Lansing	CD	10-30-1947	Employee	Sta. & equip. except for a SSG, moved 11 miles S from former location at Curran. See
2nd						
3rd						
4th						
5th						
6th						

* - Published in WS until June, 1948, in CD from 8-5-48 to 9-1-51, in hourly precipitation data thereafter.

W3 Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
STATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GRAND HAVEN Sewage Plant County Ottawa State Michigan Index No. 20-5230-7 Date prepared May 27, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 56'	86° 13'	13 72N, 85E	620'	0.9 mile S of West Olive PO	West Olive	Instrument located on Park Van Slooten farm, 1/2 mile S of 1st. 1st from nearest farm on 1st N. High.
2nd	42° 56'	86° 10'	13 72N, 85E	620'	0.7 mile W of West Olive PO	West Olive	Not known.
3rd	43° 01'	86° 13'	13 72N, 85E	620'	0.3 miles S of Grand Haven PO	Grand Haven	WS on rear of farm house, 20' N of 1st. 1st from 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
4th	43° 01'	86° 13'	13 72N, 85E	620'	0.6 mile W of Grand Haven PO	Grand Haven	WS on top of hill, 1st from 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
5th							
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks	
		Original located	Where published			
(a)	(1)	(2)	(3)	(4)	(5)	
1st	RRG	WRC, Ashbeville, N.C.	Not publ.	3-18-1942	R. E. Briola	Called Grand Haven (near) until early 1942. 1st from 2nd was on top of hill, 3rd was on top of hill, 4th was on top of hill, 5th was on top of hill, 6th was on top of hill.
2nd	RRG	WRC, Ashbeville, N.C.	Not publ.	5-4-1944	Frank Barbrecht, Supt.	WS was not in operation most of this period.
3rd	RRG	WRC, Ashbeville, N.C.	Not publ.	8-1-1944	R. E. Briola	WS on Lawrence Erdelhof farm, 1/2 mile S of Lake Michigan.
4th	RRG	WRC, Ashbeville, N.C.	Not publ.	5-17-1948	Employee	
5th						
6th						

* - Published in WS until June, 1948, in CD through Sept., 1951; and in RFD thereafter.

Station: GRAND LEDGE, County: Eaton, State: Michigan, Index No. 20-5306-B, Date prepared: May 18, 1954. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks.

* - Published in CB only in 1917 and 1918 for February through May.
- Published in CB January through December starting in 1921 to date.
Precipitation measured only during the following months: Feb. through April, 1905; February through May 1906-1912; March through May, 1913-1917; February through May, 1918 to date.

Station: GRAYLING Military Res., County: Crawford, State: Michigan, Index No. 20-5321-3, Date prepared: 6-27-52. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks.

* Volunteer Observer records are available for Sept. 1899 in National Archives, Washington, D. C.

Station: GRAND LEDGE, County: Eaton, State: Michigan, Index No. 20-3306-B, Date prepared: . Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks.

* for details of river gage see separate History Form.

Station: GREEN, County: Ontonagon, State: Michigan, Index No., Date prepared: May 12, 1953. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks.

Station: Grand Rapids Pearl Bridge, County: Kent, State: Michigan, Index No. 20-3327-7, Date prepared: November 17, 1955. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks.

Station: Greenville, County: Lapeer, State: Michigan, Index No. 20-5423-5, Date prepared: July 9, 1952. Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GREENVILLE 214 County Montcalm State Michigan Index No. 20-3434-5 Date prepared February 4, 1964

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 18'	85° 13'		870'	2.0 miles N of Greenville PO	Greenville 214	RRG located across highway from obs. house on run-off plot, 125' S of house. Town plot W of page 10' abv. top. Fields in other directions.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	RRG	NWCC, Asheville, N.C.	CD	8-8-1949 9/29/56	Minty S. Hath Willi am 8nth	Gage located on SCS Run-off Plot. Surrounding countryside gently rolling.
2nd						
3rd						
4th						
5th						
6th						

* - Published in CD until Oct., 1951. Thereafter in Hourly Precipitation Data. WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GULL LAKE EXPERIMENT PARK County Kalamazoo State Michigan Index No. 20-3504-7 Date prepared July 11, 1952

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 24'	85° 24'	Sec. 8 T1S, R9W	240'	3N and 2E of Augusta PO	Gull Lake Exp. Park	RRG over sod, 50' from nearest higher object. 200' crest to 450' from 3rd and 5th rd., 50' from nearest higher object.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	1 1/2" In, CBS, SRG	NBO, East Lansing	CD	4-8-1929 to date	Gull Lake Exp. Park known as N. K. Kellogg Exp. Park	Country slightly rolling. Gull Lake Exp. Farm 80 rods S. of station.
2nd						
3rd						
4th						
5th						
6th						

* - PO address changed to Hickory Corners in 1949. Station is 2.0 S of Hickory Corners. WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station BROOKS POINTS PARK County Wayne State Michigan Index No. 20-3477-9 Date prepared July 9, 1952

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 33' 30"	82° 35' 30"		561'	30 mi. NE of Detroit PO	Grosse Pointe Shores	RRG top of iron pipe 21' above top of 18" pipe development.
2nd	42° 25'	82° 54'		813'	2 1/2 mi. NE of Detroit PO	Grosse Pointe Farms	RRG located in open area to rear of filter plant. 20' above top of 18" pipe. 1.5 mi. S of station.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	1 1/2" In, CBS, SRG	NBO, East Lansing	CD	10-1-1948 11-15-1950	Thomas Joffe Grosse Pointe Farms	Sta. moved 20' to rear of filter plant.
2nd	1 1/2" In, CBS, SRG	NBO, East Lansing	CD	1-15-1951 to date	Grosse Pointe Farms Filtration Plant	Sta. moved 20' to rear of filter plant.
3rd						
4th						
5th						
6th						

* - Lat. & Long. revised 4-16-1950 to lat. 42° 28' N; Long. 82° 53' W. WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GWINN County Marquette State Michigan Index No. 20-4516-0 Date prepared February 4, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 17'	87° 27'	20 45N 25W	1108'	0.8 miles W of Gwinn PO	Gwinn	RRG 50' S of Cons. Dept. Office Bldg. 42' abv. top of gage. Trees in all directions. N 30° 45' abv. top. Surrounding country wooded hilly.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	RRG	NWCC, Asheville, N.C.	CD	6-10-1949	Employees Mich. Conservation Dept.	Sta. and equip. moved 0.8 miles SNE of former loc. at Princeton. See 530-1 for Princeton.
2nd						
3rd						
4th						
5th						
6th						

* - Published in CD until Oct., 1951, in Hourly precipitation data thereafter. WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station GULL ISLAND County Charlevoix State Michigan Index No. 20-3227-2 Date prepared May 28, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 43'	83° 51'	Sec. 10-11	592'	40.0 miles NW of Charlevoix PO	Gull Island	RRG on top of 18" pipe tower 100' above top of 18" pipe. 50' above top of 18" pipe. 50' above top of 18" pipe.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	RRG	NWCC, Asheville, N.C.	CD	11-8-1952	U. S. Coast Guard	Gull Island on W. Mich. 1.5 miles long (RRG) and about 1/2 mile wide island. 1948 55.0 meters S.E.
2nd						
3rd						
4th						
5th						
6th						

* - Gage with less than 15' angle above top of gage. Shore of Lake Michigan about 500' W of gage. WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station HALE FIVE CHANNELS DAM County Iosco State Michigan Index No. 20-5542-5 Date prepared July 11, 1952

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 50'	83° 40'		879'	8 mi. SE Glennie PO	Five Channels Dam	RRG & SRG located N and W of Power Plant.
2nd	44° 50'	83° 40'		879'	8 mi. NE of Hale PO	Five Channels Dam	RRG & SRG loc. over sod, 50' S of Consumers Power Plant, 20' NE of Au Sable River. 1000' S of dam.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	RRG, 1 1/2" In, SRG	NBO, East Lansing	CD, SW	4-3-1915 7-31-1915		Station in Au Sable River Valley on the Au Sable Riv. Hilly & rolling country. Consumers Power loc. over sod, 50' S of dam.
2nd	RRG, 1 1/2" In, SRG	NBO, East Lansing	CD, SW	8-1-1915 to date		Consumers Power Company
3rd						
4th						
5th						
6th						

* - Lat. & Long. changed to lat. 44° 50' N; Long. 83° 41' W, May 1, 1948
* - Name changed to Hale Five Channels Dam, May 1, 1948 WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form: WFO, East Lansing, Michigan

Station: HARRISVILLE County: Alcona State: Michigan Index No. 20-3624-5 Date prepared: Oct. 14, 1952

Loc. No.	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st						Harrisville	Instruments loc. at Depot, Shelter 4' abv. grd. Shelter inches from Subhouse.
2nd	44° 39'	85° 17'		818'	2 blks. S of Harrisville PO	Harrisville	Same as above
3rd	44° 40'	85° 17'		818'	2 blks. S of Harrisville PO	Harrisville	Same as above
4th	44° 40'	85° 17'		813'	1.2 mi. N of Harrisville PO	Harrisville	Same as above
5th	44° 32'	85° 18'		813'	1.2 mi. N of Harrisville PO	Harrisville	Same as above
6th	44° 40'	85° 18'		643'	1.5 miles WNW PO	Harrisville	Same as above

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	WX, W, CS, SRO	WFO, East Lansing	CD, EN	6-1-1899	Agent W.R. R	
2nd	WX, W, CS, SRO	WFO, East Lansing	CD, EN	1-1-1904	Dr. W. D. W. Mitchell	Slightly hilly country, 1200' from shore
3rd	CS, SRO, WX, W	WFO, East Lansing	CD, EN	5-1-1924	State Fish Hatchery	Generally rolling country, sloping gradually
4th	CS, SRO, WX, W	WFO, East Lansing	CD, EN	12-31-1935	Employees, Mich. Dept. of Conservation	1200' ft. to Lake Huron shore.
5th	CS, SRO, WX, W	WFO, East Lansing	CD, EN	9/1/55	Jay A. Fearson	Equipment 1.0 mi. N of former location.
6th	CS, SRO, WX, W	WFO, East Lansing	CD, EN	9/1/55	Water Works (Ed Green)	Water Works is a stirred Lake captain. Moved 1.1 miles SSW former location.

* - Location of records from July, 1899 to July, 1903 not known. Records from July, 1903 - June, 1908 (see also WB Form 530-1 1935-1939) located in national archives. Records after that date located at WFO, East Lansing. No records 1903-1939.
* - 10' receiving basin running into 2" pipe away from all buildings. EM & Thermometers returned to Michigan Dept. of Health May, 1906 and new thermometers replaced by Weather Bureau.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form: WFO, East Lansing, Michigan

Station: HERMANSVILLE County: Kenosha State: Michigan Index No. 20-3742-0 Date prepared: November 7, 1952

Loc. No.	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 42'	87° 37'	11; T36N; R 27W	800'		Hermansville	2 1/2 blocks SE of Hermansville PO
2nd	45° 42'	87° 38'		890'		Hermansville	1 block N of Hermansville PO
3rd	45° 45'	87° 38'		890'		Hermansville	0.6 mi. E. of Hermansville PO
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRO	WFO, East Lansing	CD	1-1-1946	See 530-1 for POWERS (a)	This is a continuation of Powers record. Hermansville is loc. 4 mi. W Powers PO.
2nd	SRO	WFO, East Lansing	CD	12-31-1949	John Duke Hunt	
3rd	SRO	WFO, East Lansing	CD	1-1-1950	Gerald Walling	Sta. and equip. moved 4.0 miles SSE of Hermansville to Spaulding. See 530-1 Spaulding. Surrounding country is hilly. See 530-1.
4th						
5th						
6th						

* - Lat. & Long. corrected in Jan. 1960 to Lat. 45° 43'; Long 87° 38'

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form: WFO, East Lansing, Michigan

Station: HART County: Oceana State: Michigan Index No. 20-3885-1 Date prepared: Nov. 6, 1952

Loc. No.	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 44'	88° 20'		670'		Hart	
2nd	43° 42'	88° 44'		660'	0.4 mi. SE of Hart Post Office	Hart	
3rd	43° 42'	88° 28'		660'		Hart	
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	WX, W, CS, SRO	WFO, East Lansing	CD, EN	6-1-1897	Frank B. Edwards	
2nd	WX, W, CS, SRO	WFO, East Lansing	CD, EN	11-1-1898	Agents	Rolling country, 3 miles from Lake Michigan. Sta. in town cor. of Washington & Main St.
3rd	WX, W, CS, SRO	WFO, East Lansing	CD, EN	5-28-1914	W. R. Roach Company *	Surrounding country around town, hilly.
4th						
5th						
6th						

* - W. R. Roach Company was incorporated into the Stokely Food Company in April, 1943. Instruments were not moved and observations continued by Stokely Food Co.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form: WFO, East Lansing, Michigan

Station: HESPERIA County: Hesperia State: Michigan Index No. 20-3729-1 Date prepared: November 12, 1952

Loc. No.	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 34'	88° 03'				Hesperia	Hot known.
2nd	43° 34'	88° 04'			1 blk. N of Hesperia F. O.	Hesperia	SRO loc. on grd. 45' from 1 story bldg.
3rd	43° 34'	88° 04'		770'	0.8 miles SW of Hesperia F. O.	Hesperia	Observer residence.
4th	43° 34'	88° 02'		770'	0.5 miles S of Hesperia F. O.	Hesperia	SRO & CSO loc. about 40' S of Garage owned by observer.
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	WX, W, CS, SRO	WFO, East Lansing	CD, EN	8-1-1894	G. W. Brown	Sta. located at Rose Hill Farm
2nd	WX, W, CS, SRO	WFO, East Lansing	CD, EN	11-13-1928	Harold G. Shriner	Sta. located at Road Comm. Garage. Country rolling, white River 500' W.
3rd	SRO	WFO, East Lansing	CD, EN	6-2-1928	Jack Lorenz	SRO loc. at edge of town at obs. residence
4th	WX, W, CS, SRO	WFO, East Lansing	CD, EN	6-3-1930	Jack Lorenz	SRO & CSO loc. on position. White River 600' W of Station.
5th						
6th						

* - Lat. and Long. changed April 19, 1948 to Lat. 43° 34'; Long. 88° 02'
* - Published in Michigan weather Service annual Report 1894 - 1897

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form: WFO, East Lansing, Michigan

Station: HASTINGS Water Works County: Lapeer State: Michigan Index No. 20-5331-8 Date prepared: November 8, 1952

Loc. No.	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 39'	85° 18'		770'		Hastings	SRO 2' above ground. DT 5' above ground.
2nd	42° 30'	85° 17'		770'		Hastings	Instru. loc. S of one story bldg. SRO loc. in garden 30' abv. grd. 30' from trees and bldg.
3rd	42° 30'	85° 17'		770'		Hastings	SRO on rd. 30' to nearest obs. Coors open S.
4th	44° 38'	85° 17'	Sec. 17 T3N, R2W	720'		Hastings	Sta. loc. at rear of city water works. SRO on same grass plot 30' to base of water works. SRO loc. 10' from Shelter Plant 15' abv. top of SR
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRO, WX, W, DT	WFO, East Lansing	CD, EN	6-1-1897	F. R. Timmerman	
2nd	CS, SRO, WX, W	WFO, East Lansing	CD, EN	1-2-1904	John Eysner	
3rd	CS, SRO, WX, W	WFO, East Lansing	CD, EN	9-30-1908	F. W. Collins	Country level. Station 50' from river.
4th	CS, SRO, WX, W	WFO, East Lansing	CD, EN	4-10-1915	City Water Works	Station located on bank of Menominee River. Country is level rolling. &
5th						
6th						

* - Records loc. - Dec. 1932, Jan. 1933 located in national archives. Records exact 1931 - 1932
* - Lat. corrected in 1957 to 42° 30' as obtained by the Westland County Atlas of General Highway Maps.
* - Peter River, observer from 3-1894 to 3-1898 and from 7-1898 to 1-1899
* - Exposure representative of city elements.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form: WFO, East Lansing, Michigan

Station: HIGGINS LAKE Exp. Farm County: Crawford State: Michigan Index No. 20-5785-3 Date prepared: Dec. 4, 1952

Loc. No.	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 5N	84° 0W		1140'		Roscommon	SRO 2' abv. grd. Location and exposure of instruments not known.
2nd				1140'		Roscommon	Location and exposure of instruments not known.
3rd	44° 29'	84° 34'		1141'		Roscommon	SRO loc. at rear of city water works. SRO on same grass plot 30' to base of water works. SRO loc. 10' from Shelter Plant 15' abv. top of SR
4th	44° 31'	84° 45'		1141'		Roscommon	SRO loc. 10' from Shelter Plant 15' abv. top of SR
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	WX, W, CS, WT	WFO, East Lansing	EN	12-5-1888	H. M. Neal	RM installed 12-1-1889
2nd	WX, W, CS, WT	WFO, East Lansing	EN	12-1-1890	John Mason	Signal Service records.
3rd	WX, W, CS, WT	WFO, East Lansing	EN	8-1-1891	John Mason	
4th	WX, W, CS, SRO	WFO, East Lansing	CD, EN	5-27-1900	M. C. R.	
5th	WX, W, CS, SRO	WFO, East Lansing	CD, EN	12-31-1908	M. C. R.	
6th	WX, W, CS, SRO	WFO, East Lansing	CD, EN	5-11-1907	Superintendents and employees	CS and SRO moved 8-24-1923 to 75' W of Higgins Lake St. For 1' of CS.
6th						

* - Name changed from Roscommon (near) to Higgins Lake Exp. Farm, March 2, 1940.
* - Several months record missing each year between 1890 - 1892; 1900 - 1906.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY												
Office preparing form <u>WMO, East Lansing, Michigan</u>												
Station <u>HILLSDALE</u>	(Current name)				County <u>Hillsdale</u>	State <u>Michigan</u>	Index No. <u>20-3822-9</u>	Date prepared <u>Dec. 11, 1952</u>				
Loca- tion	Latitude	Longitude	Sec. Twp. Rsp.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)					
1st												
2nd	42° 34'	84° 37'				Hillsdale	SWS 4 th abv. grd. DE S th abov. grd. Exact					
3rd	41° 54'	84° 37'		1102'		Hillsdale	SWS 4 th abv. grd. DE S th abov. grd. Exact					
4th	41° 58'	84° 38'		1150'		Hillsdale	SWS 4 th abv. grd. DE S th abov. grd. Exact					
5th							7 blocks of Hillsdale PO					
6th	41° 58'	84° 38'	Sec. 27 T2S, R3W	1100'		Hillsdale	SWS 4 th abv. grd. DE S th abov. grd. Exact					

(Con't)	Instruments used	Original located	Record Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st				1-1881		Orig. rec. 1881 to July 1892 Jan. 1895
2nd				1-1899		Station moved from Dec. 1894 loc.
3rd	SRS, DT	WMO, East Lansing	BN	1-1899	W. R. Rogers	Orig. rec. 1899 to 1904 printed in WMO for this period.
4th	SRS, SRS, Mx, Mn	WMO, East Lansing	CD, EN	2-28-1905	F. I. Wood & employees	Orig. rec. 1905 to 1908 printed in WMO for this period.
5th	SRS, SRS, Mx, Mn	WMO, East Lansing	CD, EN	11-13-1908	I. S. W. R. R.	Prof. of Math. at Hillsdale College. Prof. of Phys.
6th	SRS, SRS, Mx, Mn	WMO, East Lansing	CD, EN	8-27-1942	Prof. S. B. Penrod	Prof. of Physic.
6th	SRS, SRS, Mx, Mn	WMO, East Lansing	CD	8-28-1942	Prof. M. R. Sherman	Sta. loc. at residence, 185 Lansing St.

* - (cont. from 4th loc.) from campus at res., 118 Hillsdale st. W8 Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY												
Office preparing form <u>WMO, East Lansing, Michigan</u>												
Station <u>Houghton</u>	(Current name)				County <u>Houghton</u>	State <u>Michigan</u>	Index No. <u>20-3922-0</u>	Date prepared <u>May 24, 1954</u>				
Loca- tion	Latitude	Longitude	Sec. Twp. Rsp.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)					
1st	47° 07'	88° 34'					0.9 mile SW of Houghton PO					
2nd	47° 07'	88° 34'					0.8 mile S of Houghton PO					
3rd	47° 07'	88° 34'					0.8 mile E of Houghton PO					
4th							Same as 2nd loc.					
5th												
6th												

(Con't)	Instruments used	Original located	Record Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st				5-4-1940	Walter Harvey	
2nd	SRS //	WMO, Ash-ville, N.C.	Not publ.	5-15-1942		Gage on ground of Michigan College of Mining and Technology
3rd	SRS	WMO, Ash-ville, N.C.	Not publ.	5-10-1943	U.S.G.S. Employees	Station moved to Michigan College of Mining and Technology
4th	SRS	WMO, Ash-ville, N.C.	*	12-23-1945		Michigan College of Mining and Technology
5th				4-25-1950		

* - Published after 1948 in CD until Oct., 1951 and in HPD thereafter. W8 Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY												
Office preparing form <u>WMO, East Lansing, Michigan</u>												
Station <u>Holland Hope College</u>	(Current name)				County <u>Ottawa</u>	State <u>Michigan</u>	Index No. <u>20-3898-7</u>	Date prepared <u>Dec. 11, 1952</u>				
Loca- tion	Latitude	Longitude	Sec. Twp. Rsp.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)					
1st	42° 47'	83° 07'		510'			SWS 4 th abv. grd. DE S th abov. grd. Exact					
2nd	42° 47'	83° 07'	Sec. 29 T2N, R2W	510'			SWS 4 th abv. grd. DE S th abov. grd. Exact					
3rd												
4th												
5th												
6th												

(Con't)	Instruments used	Original located	Record Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	Mx, Mn, SRS	WMO, East Lansing	CD, EN	2-26-1905	A. Cunningham	Station moved from Dec. 1894 loc.
2nd	Mx, Mn, SRS	WMO, East Lansing	CD	11-27-1948	Jay Polkett, U.S. Stakes	Station moved from Dec. 1894 loc.

W8 Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY												
Office preparing form <u>WMO, East Lansing, Michigan</u>												
Station <u>Houghton Keweenaw Light Sta.</u>	(Current name)				County <u>Houghton</u>	State <u>Michigan</u>	Index No. <u>20-3922-0</u>	Date prepared <u>February 5, 1954</u>				
Loca- tion	Latitude	Longitude	Sec. Twp. Rsp.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)					
1st	47° 14'	88° 38'	Sec. 28 T2N, R2W	640'			SWS 4 th abv. grd. DE S th abov. grd. Exact					
2nd												
3rd												
4th												
5th												
6th												

(Con't)	Instruments used	Original located	Record Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	//SRS	WMO, Ash-ville, N.C.	HPD	3-24-1952	U.S. Coast Guard	Station moved to Michigan College of Mining and Technology

* - Lake Superior 0.1 mile NW of station. Also 0.1 mile SE of Portage Lake Ship Canal entrance to Lake Superior. W8 Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY												
Office preparing form <u>WMO, East Lansing, Michigan</u>												
Station <u>Homer</u>	(Current name)				County <u>Calhoun</u>	State <u>Michigan</u>	Index No.	Date prepared <u>May 6, 1953</u>				
Loca- tion	Latitude	Longitude	Sec. Twp. Rsp.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)					
1st	42° 10'	84° 47'										
2nd												
3rd												
4th												
5th												
6th												

(Con't)	Instruments used	Original located	Record Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st	SM, WT, DT	WMO, East Lansing	CD	2-1-1888	A. Cunningham	Station moved from Dec. 1894 loc.
2nd	SRS, SRS, Mx, Mn	WMO, East Lansing	CD	12-1-1889	A. Cunningham	Station moved from Dec. 1894 loc.
3rd						
4th						
5th						
6th						

through 1892 probably for same location. See 530-1 for ALBION W8 Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY												
Office preparing form <u>WMO, East Lansing, Michigan</u>												
Station <u>Houghton Lake Wildlife Exp. Sta.</u>	(Current name)				County <u>Roscommon</u>	State <u>Michigan</u>	Index No. <u>20-3922-3</u>	Date prepared <u>Dec. 12, 1952</u>				
Loca- tion	Latitude	Longitude	Sec. Twp. Rsp.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure					
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)					
1st	44° 18'	84° 43'					SWS 4 th abv. grd. DE S th abov. grd. Exact					
2nd	44° 18'	84° 43'					SWS 4 th abv. grd. DE S th abov. grd. Exact					
3rd	44° 20'	84° 47'					SWS 4 th abv. grd. DE S th abov. grd. Exact					
4th	44° 20'	84° 49'	Sec. 35 T2N, R2W	1138'			SWS 4 th abv. grd. DE S th abov. grd. Exact					
5th												
6th												

(Con't)	Instruments used	Original located	Record Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1st				12-1-1912		
2nd	Mx, Mn, SRS	WMO, East Lansing	HW, CD	1-31-1915	James H. Ostrander	Station moved to Michigan College of Mining and Technology
3rd	Mx, Mn, SRS	WMO, East Lansing	HW, CD	11-30-1921	John J. Ostrander	Station moved to Michigan College of Mining and Technology
4th	Mx, Mn, SRS	WMO, East Lansing	CD	1-28-1952	Michigan Wildlife Experiment Station	Station moved 7.7 mi. NW of former loc.
5th	Mx, Mn, SRS	WMO, East Lansing	CD	12-4-1953	Michigan Wildlife Experiment Station	Station moved 7.7 mi. NW of former loc.
6th						

* - (cont.) North of house. Between this date & 8-10-29, obs. moved shelter a few feet but faced the door n. S-10-29, 25 yds. E of house. Doors open n. SWS moved from OBS. On July 23, 1938 OBS moved a short way to more open area. SWS n. SWS OBS, Robert Ostrander, 27-11-21. W8 Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: HOWARD CITY County: Montcalm State: Michigan Index No. _____ Date prepared: March 18, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: HUBBARD LAKE Dam County: Alcona State: Michigan Index No. 20-5962-3 Date prepared: Dec. 13, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Rows 1st to 6th.

* - Latitude and Longitude corrected 7-17-65 from that indicated at 1st location to 44° 51' and 84° 36'. Correction made with reference to Michigan County Atlas of General Highway Maps.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: HOWELL Sewage Plant County: Livingston State: Michigan Index No. 20-5947-9 Date prepared: Dec. 15, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: HULBERT # 5 County: Chippewa State: Michigan Index No. 20-5962-1 Date prepared: Dec. 16, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: HOWELL 7NE County: Livingston State: Michigan Index No. 20-5949-9 Date prepared: February 5, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Rows 1st to 6th.

* - Records published in CD until Oct. 1951, when there were published in Hourly Precipitation Data.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WFO, East Lansing, Michigan

Station: 112 AUX GALETS ISLAND County: Benet State: Michigan Index No. 20-022-2 Date prepared: May 28, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Record (Where published, Date 1st and last observations), Observers and Dates, Remarks. Rows 1st to 6th.

* //RNG published in HPS and //SG in CD. On Lake Michigan, the gainland of Michigan is 8.7 miles SE of Island. It is flat top, in with sandy soil. Surface of trees, the island is irregular in shape - longest dimensions are 515 feet by 475 feet. The island contains a house, the island is in shape - longest dimensions are 515 feet by 475 feet. The island is published for this period.

WB Form 530-1

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station INTERLOCHEN State Park County Grand Traverse State Michigan Index No. 20-4096-2 Date prepared February 9, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Published in HB until May, 1948. In CD until Oct., 1961, thereafter in Hourly Precipitation Data.

WB Form 530-1

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station IONIA Gas Plant #1 County Ionia State Michigan Index No. 20-4078-8 Date prepared Feb. 5, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Lat. & Long change corrected May, 1948 & should be applicable to the 6th locational also. ** Name changed 9/27/54.

WB Form 530-1

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station IONIA County Road Comm. County Ionia State Michigan Index No. 20-4090-3 Date prepared Feb. 9, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

This station was unofficial.

WB Form 530-1

SUBSTATION HISTORY

Office preparing form WBO, Grand Rapids, Michigan

Station Ionia County Road Comm. County Ionia State Michigan Index No. 20-4090-3 Date prepared January 15, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

2/1/55 - to date Arthur H. Lord 2/1/43-8/9/52 2/1/53 - to date Winston L. Hartman 2/1/53 - to present date

WB Form 530-1

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station IONIA Gas Plant #1 County Ionia State Michigan Index No. 20-4078-8 Date prepared Feb. 5, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Volunteer Observer record Feb. 1850, June 1892-Sept 1895 located in National Archives, Wash. D.C.

** - Records for Jan, 1891 and March 1891 missing.

WB Form 530-1

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station IRON RIVER County Iron State Michigan Index No. 20-4078-8 Date prepared July 17, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

This station was one of three rainfall stations maintained by Wisconsin-Michigan Power Co.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Kalamazoo to Power Plant County Kalamazoo State Michigan Index No. 20-4239-7 Date prepared Feb. 17, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 18'	85° 34'	S40. 28. 11W 22, Rng. 11W	750'	3 1/2 mi. ENE of Kalamazoo FO	Kalamazoo	SW of rd. 300' from nearest higher obj. top of 10' 1/2' tall, bolted to fire, 20' from 'E' 9/11/30' is more advantageous position.
2nd	42° 18'	85° 34'	S40. 28. 11W	750'	1 1/2 mi. ENE of Kalamazoo FO	Kalamazoo	SW of rd. 300' from nearest higher obj. top of 10' 1/2' tall, bolted to fire, 20' from 'E' 9/11/30' is more advantageous position.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SHG *	WBO, East Lansing	HB	5-1-1915	Employees Consumers Power Comp.	See record by Consumers Power Co. 11/10/1915. Country generally level.
2nd	SHG	WBO, East Lansing	HB, CD	12-31-1935	Employees Consumers Power Comp.	1 1/2 mi. ENE of Kalamazoo. Sta. 200' S of Company Hill. Owns SHG.
3rd	SHG	WBO, East Lansing	HB, CD	5-1-1940	Employees Consumers Power Comp.	
4th						
5th						
6th						

* - Temp. (max. & min.) were recorded from Power owned thermometers, but not ~~considered~~ considered by Weather Bureau.
 † - Published in HB until May, 1948. From May, 1948 to Oct. 1951 in CD; thereafter in Hourly Precipitation Data.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Kent City 2 SW County Kent State Michigan Index No. 20-4300-7 Date prepared Feb. 17, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 12'	85° 46'	801'		1/2 mi. S. of Kent City FO	Kent City	SHG mounted on stone foundation surrounded by low shrubbery acting as wind break. Top of 10' 1/2' tall, bolted to fire, 20' from 'E' 9/11/30' is more advantageous position.
2nd	43° 12'	85° 46'	840'		2 mi. SW of Kent City FO	Kent City	SHG mounted on stone foundation surrounded by low shrubbery acting as wind break. Top of 10' 1/2' tall, bolted to fire, 20' from 'E' 9/11/30' is more advantageous position.
3rd	43° 12'	85° 46'	5 9N 12W	840'	2 miles SW of Kent	Kent City	SHG mounted on stone foundation surrounded by low shrubbery acting as wind break. Top of 10' 1/2' tall, bolted to fire, 20' from 'E' 9/11/30' is more advantageous position.
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SHG	WBO, East Lansing	CD	6-19-1919	Employees W. R. Roach Company	Sta. loc. at W. R. Roach Co. Country generally flat.
2nd	SHG	WBO, East Lansing	CD	7-1-1939	Charles R. Roberts	Gently rolling farm lands. 2 small lakes 1/2 mi. N.
3rd	SHG	WBO, East Lansing	CD	5-1950	Charles Roberts	SHG moved 150' SW of 2nd location.
4th						
5th						
6th						

* - from 14' sign.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Kalamazoo to Power Plant County Kalamazoo State Michigan Index No. 20-4244-7 Date prepared Feb. 11, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 17'	85° 56'	955'		1.5 mi. SW of Kalamazoo	Kalamazoo	Elev. of Fay 1st abv. 2nd. By cistern elev. 200' over 200' E of 1-stony ridge & cistern of cistern house. Ground of level W. of cistern 100' W. E
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SHG, Min, Max, SHG, Fay, RM #	WBO, East Lansing	HB, CD	5-1-1907	H. A. Black 5-1-1907 to 1-30-1895	See record by U.S. Forest Service. Station closed 10/31/40.
2nd						
3rd						
4th						
5th						
6th						

* - SHG on rd about 1 1/2 mi. SW of 200'.
 † - 31 record used 1907 through 1910 & Dec. 1907. No rec. Feb. 1879-May 1908 loc in National Archives.
 ‡ - Station began before this date (see ref. 5) loc., exp., & obs. 23, possibly be determined from examination of records in National Archives.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station KENTON U.S. Forest County Houghton State Michigan Index No. 20-4328-0 Date prepared February 18, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st					0.1 mi. E. of Kenton	Kenton	No description of this station available.
2nd	46° 29'	88° 53'	1167'		PO	Kenton	SHG on 1st abv. 2nd. By cistern elev. 200' over 200' E of 1-stony ridge & cistern of cistern house. Ground of level W. of cistern 100' W. E
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SHG, Min, Max, SHG, Fay, RM #	WBO, East Lansing	CD	8-8-1907	H. A. E. Kennedy	all fire res. equip. owned by U.S. Forest S.
2nd				9-30-1907	Personnel U. S. Forest Service	SHG moved from former loc. at station.
3rd				11-1-1940		SHG moved to Kenton, 8/27/50. Rng. 23' NS 45' W.
4th						
5th						
6th						

* - SHG S of 200'.
 † - Also maintained a small 8" auxiliary gage which holds just 1/2" before overflow and is 35' SW of CBS.
 ‡ - of 15' bldg. ground rolling. E branch of Ontonagon River flow N. about 500' E of Station.
 § - This station formerly located at Sidman, 8 mi. E. Sta. at Sidman closed 10/31/40. (See WB Form 530-1 for Sidman) Kenton is a complete climatological, recording Rainage and Fire Weather Station.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Kalamazoo County Kalamazoo State Michigan Index No. 20-4257-2 Date prepared Feb. 17, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 44'	85° 12'	1025'		4 blocks N of Kalamazoo FO	Kalamazoo	SHG on rd. 100' from nearest higher obj. top of 10' 1/2' tall, bolted to fire, 20' from 'E' 9/11/30' is more advantageous position.
2nd	44° 44'	85° 12'	1025'		0.5 mi. SW of Kalamazoo FO	Kalamazoo	SHG 50' from nearest higher obj 10' high. Top of gage 3' abv. rd. Good exposure.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SHG	WBO, East Lansing	CD	12-1-1938	Austin Gordon	Country generally level
2nd	SHG	WBO, East Lansing	CD	7-31-1941	Jay Lantzer	
3rd						
4th						
5th						
6th						

* - Longitude corrected 5/48 from 85° 12' to 85° 10'.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station KINGSLEY (near) County Grand Traverse State Michigan Index No. Date prepared February 9, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st					Sta. and equip. installed 3-18-1942. Sta. was actually located 5.0 miles W of Kingsley FO. Name of station changed 8-11-48 to HANNAH. See 530-1 for HANNAH.		
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st						
2nd						
3rd						
4th						
5th						
6th						

Gage at Kingsley (nr) moved to Fire Lake

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: KINROSS AIR P. County: Chippewa State: Michigan Index No: 20-4406-1 Date prepared: February 17, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates list and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: L'ANSE County: Baraga State: Michigan Index No: 20-4623-0 Date prepared: February 19, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates list and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Live tree logs picture for county, also location of L'Anse property in relation to the Bay of St. Ignace, Mich. and consequently station was moved to road farm, 5th loc., away from immediate bay frontage.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: LAKE CITY Exp. Farm County: Kalamazoo State: Michigan Index No: 20-4502-2 Date prepared: Feb. 18, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates list and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Lat. and Long. corrected May, 1948 to Lat. 44° 18', Long. 85° 15'. # - All observers listed were agents of the GR & I RR.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: L'ANSE 25 County: Baraga State: Michigan Index No: 20-4623-0 Date prepared: February 19, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates list and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: LAKEVIEW County: Montcalm State: Michigan Index No: Date prepared: May 7, 1963

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates list and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: LAPEER (Hydrology) County: LaPeere State: Michigan Index No: 20-4653-9 Date prepared: April 1, 1963

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rep., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates list and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station LAPSER County Lapeer State Michigan Index No. 20-4558-9 Date prepared March 4, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 03'	85° 00'		827'	2 mi. N of Lapeer	Lapeer	On grounds of depot. Exact loc not known but situated on site of old building away from any other structures. Elev. about 1300. Obs. from 1920 to 1922. Obs. over 800' 42" N of 201 trees, 100' E of 1st garage.
2nd	43° 03'	85° 20'		827'	1 mi. NW of Lapeer	Lapeer	On site of house, 500' over 800' 42" N of 201 trees, 100' E of 1st garage.
3rd	43° 03'	85° 20'		827'	5/8 mi. N of Lapeer	Lapeer	On site of house, 500' over 800' 42" N of 201 trees, 100' E of 1st garage.
4th	43° 03'	85° 20'		827'	1 mi. SE of Lapeer	Lapeer	On site of house, 500' over 800' 42" N of 201 trees, 100' E of 1st garage.
5th	43° 03'	85° 20'	Sec 6, T7N R 10E	850'	0.8 mi. NW of Lapeer	Lapeer	On site of house, 500' over 800' 42" N of 201 trees, 100' E of 1st garage.
6th	43° 03'	85° 20'		850'		Lapeer	On site of house, 500' over 800' 42" N of 201 trees, 100' E of 1st garage.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	12-1-1928	H. J. Liddell, Agent C & OT RR	Country Rolling
2nd	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	10-1-1897	Michigan Home for Feeble Minded Children	Country Rolling
3rd	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	1-1-1941	W. C. Mc Math	Level to slightly rolling country, no forests or bodies of water, 834 Foster St. 042 W. Oregon St. 5/8 mi. from former location.
4th	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	8-1-1944	W. C. Mc Math	Level to slightly rolling country, no forests or bodies of water, 834 Foster St. 042 W. Oregon St. 5/8 mi. from former location.
5th	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	12-19-1949	H. J. Liddell	904 Morris Rd.
6th	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	12-20-1949	H. J. Liddell	904 Morris Rd.

* - Longitude believed to be incorrect. Probably should be 85° 20'.
 † - Nielsen was hydro-climatic obs. only. See WB Form 530-1 for this former station history.

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 WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station LOUD Dam County Inisco State Michigan Index No. _____ Date prepared March 18, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 29'	83° 48'		740'	24 miles W of Oshtemo PO	Loud	On grd. W of Power House. Country rolling. Elev. 740'. Sit. on S bank of AuSable River.
2nd	44° 29'	85° 48'		740'	24 miles W of Oshtemo PO	Loud	SMV moved to about 85° 58' of Power line and better exposure. SRG on grd.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRG	WBO, East Lansing	CD, HW	8-1-1915	Employees Consumers Power Company	
2nd	SRG	WBO, East Lansing	CD, HW	9-4-1928	Employees Consumers Power Company	
3rd	SRG	WBO, East Lansing	CD, HW	9-5-1928	Employees Consumers Power Company	
4th	SRG	WBO, East Lansing	CD, HW	12-5-1935	Consumers Power Company	

* - Sainage was type owned by Consumers Power Company. Outer tube was bolted to floor and could not be removed for emptying or used for over-flow can.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station LAPSER County Lapeer State Michigan Index No. 20-4558-9 Date prepared February 11, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 03'	85° 20'	Sec. 6 T7N, R10E	850'	0.8 mile NW of Lapeer PO	Lapeer	No change in exposure from 6th loc.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	Nx, Nn, CRS, SRG	WBO, East Lansing	HW, CD	7-15-1953	Vicent Parach	Obs. 6th loc. moved to farm outside city and SRG moved into Nielsen's house and accepted station.

* - RR SRG records located at NRC, Asheville, N.C. and published in Hourly Precipitation Data.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, Grand Rapids, Michigan

Station Lowell County Kent State Michigan Index No. 20-4939-3 Date prepared January 15, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	On 2nd side of Lower Bridge on Mich. St. Hwy. 91 one mile SW city of Lowell (SRG). 1st loc. near 64° 47' N. R. Depot - on grd. level.
2nd	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	At residence - on slight rise - on grd.
3rd	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	At residence - on slight rise - on grd.
4th	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	At residence - on level ground.
5th	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	At residence - on slight rise - on grd.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	NRIG SRG	WBO, East Lansing	HW, CD	2/1/05 - 5/31/14	S.W. Marsh 10/5/05-7/1914	
2nd	NRIG SRG	WBO, East Lansing	HW, CD	2/1/15 - 4/31/34	L.P. Morse 8/1914-4/1934	
3rd	NRIG SRG	WBO, East Lansing	HW, CD	5/1/34 - 5/31/44	R.V. Bettes 5/1/34-5/11/44	
4th	NRIG SRG	WBO, East Lansing	HW, CD	2/1/45 - 5/31/48	E.J. Johnson 9/6/44-1/1949	
5th	NRIG SRG	WBO, East Lansing	HW, CD	2/1/49 - to date	H.W. Boyd 2/1/49 - to date	

* SRG 1st location Sec. 11 NW T6S R9W & NRIG location remained same throughout years.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station LATHROP County Delta State Michigan Index No. _____ Date prepared June 4, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 07'	87° 13'		1014'	CRS on lawn N side of house, 52' abv. grd. RG on post 8' abv. grd. 28' from house.	Lathrop	
2nd	46° 07'	87° 13'		1014'	Same as 1st location	Lathrop	
3rd	46° 02'	87° 14'			0.1 mile W of Lathrop PO	Lathrop	SRG loc. in rear yard of obs. obs. which as 20 mi. S of Lapeer. Obs. over 800' 42" N of 201 trees, 100' E of 1st garage.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CRS, SRG, Nx, Nn	WBO, East Lansing	HW, CD	10-18-1887	A. Lathrop	Only partial records between 1902 through 1908, many months missing. Obs. died 1-12-02
2nd	CRS, SRG, Nx, Nn	WBO, East Lansing	HW, CD	1-1-1902	Mrs. O. L. Malloy	Mrs. Malloy was br. Lathrop's daughter
3rd	SRG	WBO, East Lansing	HW, CD	10-31-1942	Mr. & Mrs. I. Malloy	Malloy obs. over 800' 42" N of 201 trees, 100' E of 1st garage.

* - Also in Annual Report of Michigan Weather Service & Michigan Crop Reports. Precipitation incorporated with that of Marie Ridge in 1950 HW. Lathrop temperature records used in BW. Lathrop 1/2 mi. N of Marie Ridge (SRG). See 530-1 for ROCK.
 † - Lathrop. See 530-1 for RIBBARTON. Mr. & Mrs. I. Malloy were related to the observers of the 1st & 2nd locations.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station LOWELL (SRG) County Kent State Michigan Index No. 20-4944-7 Date prepared April 2, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	SRG loc. on grd. 20' SW of Consumer Power Co. Bldg. Exp. poor because of surrounding trees.
2nd	42° 59'	85° 22'		851'	2.0 mi. N of Lowell PO	Lowell	SRG loc. on grd. 20' E of Consumer Power Plant. Move made to more suitable exposure.
3rd	42° 59'	85° 22'		851'	1 mi. S & 1/2 mi. W of Lowell PO	Lowell	SRG on grd. 54' from house and garage of observer.
4th	42° 59'	85° 22'		851'	1.5 mi. NW of Lowell PO	Lowell	SRG 20' SSW of 18' high residence of obs.
5th	42° 59'	85° 22'		851'	5 mi. NW of Lowell PO	Lowell	Obs. over 800' 42" N of 201 trees, 100' E of 1st garage.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRG	WBO, East Lansing	HW, CD	8-28-1915	Employees Consumers Power Company	Station located on Grand River. SRG owned by Consumers Power Company
2nd	SRG	WBO, East Lansing	HW, CD	8-11-1915	Employees Consumers Power Company	
3rd	SRG	WBO, East Lansing	HW, CD	7-28-1938	Consumers Power Company	
4th	SRG	WBO, East Lansing	HW, CD	1-1-1940	Julius Eastler	Country rolling. Water 400' distant, trees 150' away.
5th	SRG	WBO, East Lansing	HW, CD	1-2-1940	William Mueller	Mueller moved away 12-17-45
6th	SRG	WBO, East Lansing	HW, CD	12-18-1948	George Mueller	George Mueller is nephew of William Mueller.

* - Lat. & Long corrected November 194 1951 from 42° 59', 85° 28', to Lat. 42° 59', Long. 85° 25'.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: LUTHER (Current name) County: Lake State: Michigan Index No: 20-4899-4 Date prepared: April 8, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 7th and 8th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes records for 7th and 8th locations.

WB Form 530-1
* Vol. Observer records for Nov. 1885, Dec. 1887; Reg. Sta. Aug. 1882-Larch, 1888 (Second Order) located in National...
* Orig. WB Form 4029 dated June 12, 1897 shows Long. 84° 38' W; believe correct value should be 84° 42'.
* Records published in WB beginning 1905.
* Other observers: S.A. Campbell 8-26 to 12-30-1913; H. E. Blue 12-13 to 8-31-17; H.Z. Galbraith 7-1-18 to 11-30-20.
* About 1920 official observer became known as U.S. Light House Keeper (under U. S. Coast Guard) J.W. Marshall in charge of observations from 1920 to 1-1-1940.
* G.O. Clasen helped take observations from 1930 through 1952, taking charge after 1940.
* G. Campbell during the '40s assisted.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: LUZZENE (Current name) County: Oscoda State: Michigan Index No: 20-5042-2 Date prepared: April 17, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st location.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes records for 1st location.

WB Form 530-1
* When J.R. Johnson was appointed, SBO was left at former observer's res. (Mr. Goodale) Upon request from Sec. Luzzene, G.O. Clasen moved SBO into his own SBO yard behind his building. Inspection made 4-25-1953 found this location very poor.
* Late became Pennsylvania RR. agents N. P. Chamberlain recorded observations from 8-1-96 to 10-31-12. Other agents, with storm records, recorded observations until close of station in 1925.
* Inspection dated July 19, 1922, reported "This station was found in very bad condition. The minimum thermometer registered -42 Turn Over

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MACKINAC ISLAND (Current name) County: Mackinac State: Michigan Index No: 20-5000-3 Date prepared: March 18, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st location.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes records for 1st location.

WB Form 530-1
* Raw sets on high bluff overlooking Straits of Mackinac. The island is hilly and rocky ranging from 590' to 602' above sea level.
* J. W. Richardson 1-1-11 to 4-5-14; F. A. Kenyon 5-1-14 to 4-30-31; L. J. Vandenberg 5-1-31 to 5-30-35.
* Records taken by the Bureau stationed at old Fort Mackinac are available for the following periods at the National Archives: 5-1-181-1818 (Luskman); Jan. 1822-Mar. 1822 (Cox); July 1824-Sept. 1-26 1824 (Cox); June 1827; July 1828-Dec 1828; 5-2-1831; Vol. Sept. 1835-Feb. 1835; Oct. 1835-Mar. 1832. Records from 1821 to 1842 published in Meteorological Register of the U. S. Medical Dept.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MACKINAC CITY (Current name) County: Cheboygan State: Michigan Index No: 20-5000-3 Date prepared: April 8, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes records for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

WB Form 530-1
* Vol. Observer records for Nov. 1885, Dec. 1887; Reg. Sta. Aug. 1882-Larch, 1888 (Second Order) located in National...
* Orig. WB Form 4029 dated June 12, 1897 shows Long. 84° 38' W; believe correct value should be 84° 42'.
* Records published in WB beginning 1905.
* Other observers: S.A. Campbell 8-26 to 12-30-1913; H. E. Blue 12-13 to 8-31-17; H.Z. Galbraith 7-1-18 to 11-30-20.
* About 1920 official observer became known as U.S. Light House Keeper (under U. S. Coast Guard) J.W. Marshall in charge of observations from 1920 to 1-1-1940.
* G.O. Clasen helped take observations from 1930 through 1952, taking charge after 1940.
* G. Campbell during the '40s assisted.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MANCELONA (Current name) County: Antrim State: Michigan Index No: 20-5042-2 Date prepared: April 9, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes records for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

WB Form 530-1
* When J.R. Johnson was appointed, SBO was left at former observer's res. (Mr. Goodale) Upon request from Sec. Luzzene, G.O. Clasen moved SBO into his own SBO yard behind his building. Inspection made 4-25-1953 found this location very poor.
* Late became Pennsylvania RR. agents N. P. Chamberlain recorded observations from 8-1-96 to 10-31-12. Other agents, with storm records, recorded observations until close of station in 1925.
* Inspection dated July 19, 1922, reported "This station was found in very bad condition. The minimum thermometer registered -42 Turn Over

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MANCELONA (near) (Current name) County: Antrim State: Michigan Index No: 20-5042-2 Date prepared: April 10, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes records for 1st, 2nd, 3rd, 4th, 5th, and 6th locations.

WB Form 530-1
* Mr. Goodale also on active? Coop. list Maintaining SBO also. See other 530-1 for case within city limits.
* Station moved to location 4-24-45.
* See WB Form 530-1 for Roscommon.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MANISTEE (Current name) County Manistee State Michigan Index No. 20-5055-2 Date prepared April 10, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

Lat. & Long. corrected 2-18-53 from lat 44° 18' Long 86° 20' to lat 44° 14', Long. 86° 18'
Regular Weather Station named by this time U.S. Signal Office.
Recently weather summation located at East Lansing. Daily records located National Archives.
Anemometer records located at East Lansing. No records on logs. One seemed to know why it was put there or how long. Measuring stick broken off and too short to secure good measurement in inner tube.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MANISTIQUE Water Works County Schoolcraft State Michigan Index No. 20-5075-1 Date prepared April 13, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - 70 records Jan., 1894 - March 1896.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MANISTIQUE Water Works County Schoolcraft State Michigan Index No. 20-5075-1 Date prepared April 13, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

Elevation corrected from 615' to 601' 9-11-1953.
Station known location in 1894 was above top of gate. Water Pumping Bldg. to N 48° above top of gate.
Gate moved to south and west. The gate and the gate to the S had obsolete water area of Lake Michigan.
Lake Michigan is in south of gate. Extra one located N of regular one. Extra one installed 8-17-53 for Lake Michigan Precipitation Study, but records not published.
Anemometer added 1/27/56.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MAPLE RIDGE (Current name) County Delta State Michigan Index No. Date prepared June 4, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

See WB Form 530-1 for ROCK

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WRPC, Kansas City, Missouri

Station MARLETTE County Sanilac State Michigan Index No. 20-5168-W Date prepared September 6, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - 70 records Jan., 1894 - March 1896.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU

SUBSTATION HISTORY

Office preparing form WRPC, Kansas City, Missouri

Station MASON SE (Current name) County Ingham State Michigan Index No. 20-5208 Date prepared April 11, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates let and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

Equipment moved 3 blocks N. of 5th loc.
PUMP BLDG. moved to 60° N. of Water Tower 3-17-49 because of trees.
Moved 1 mile N, 11/25/56.

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WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MASS (Current name) County Ontonagon State Michigan Index No. 20-5216-0 Date prepared April 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Then moved to Greenland, 1 mile N. of Mass, and Mr. Waino K. Ark. was appointed observer. Sta. was moved 2-6-41, by Form 530-1. Sta. was located approx. 200' from his house in vacant lot, 1/2 block E of Greenland Rd. However, on March 9, 1949, it was moved to the house of Mr. Waino K. Ark. for the one month that observations were taken at Greenland.

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WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station NICHIGAMMA (Current name) County Marguette State Michigan Index No. 20-5403-0 Date prepared November 27, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

Station moved to Champion, 5 miles SSS, November, 1949. See WB 530-1 for Champion.

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WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MIDLAND (Current name) County Midland State Michigan Index No. 20-5436-5 Date prepared May 18, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Published in CD March through May, 1917 & 1918.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MIDLAND (Current name) County Midland State Michigan Index No. 20-5436-5 Date prepared May 18, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 8th to 10th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 7th to 10th.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station MIDLAND (Current name) County Midland State Michigan Index No. 20-5436-5 Date prepared May 14, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - follows CR 4' from ridge, WBO on top of CR. Sta. description dated 5-31-13 as follows: CR 5 stand 20' W of CR 4' right house, 50' on top of CR. Dates of changes in exposure not known.
* - CR 4' elevation by CR 4' 1/2' elevation of CR 5 on roof.
* - CR 4' side, 15' above top of CR 4' to N, 15' above and 20' above top, W open.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WILFORD ON PROV. GRD. (Current name) County Livingston State Michigan Index No. 20-5452-9 Date prepared April 18, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - CR 4' from nearest higher building, W. A. Provine ground employs full time meteorologist with a separate small building. Station and equipment are located here. Station is on north slope of a hill. Wind record equipment is located in nearby valley.
* - Published since January, 1941. But established since May, 1930.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Table with columns: Station, County, State, Index No., Date prepared. Location table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - SSI only until 1898. * - Published before 1897 in Michigan Crop Report & Michigan Weather Service Annual Report.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Table with columns: Station, County, State, Index No., Date prepared. Location table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - records were kept on Dec. 1, 1902. Mr. Whitbeck began taking readings again. The Descrip. of Exp. for 1st location was taken from description furnished by observer Feb. 25, 1908. Prior to 1893, records were taken for Signal Service and Michigan Weather Service.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Table with columns: Station, County, State, Index No., Date prepared. Location table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - Dec. 1908, which were taken at Lusher, 9 miles NW of Mio PO, Sec. 35, Twp. 42S, R. 12E. CBS on grd 50' from house doors open W, NW, SE, SW, adv. grd. and 10-1-30 away from all objects. Approx same location as before.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Table with columns: Station, County, State, Index No., Date prepared. Location table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

* - Was not published until Jan. 1, 1949 through April 1948. Published in CD thereafter.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Table with columns: Station, County, State, Index No., Date prepared. Location table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

Records of Monroe located at National Archives, St. J. June - Dec. 1895, Aug. 1895, Jan. 1895 - Dec. 1899.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Table with columns: Station, County, State, Index No., Date prepared. Location table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks.

Records of Monroe located at National Archives, St. J. June - Dec. 1895, Aug. 1895, Jan. 1895 - Dec. 1899.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MORAGNCI County: Lapeere State: Michigan Index No. _____ Date prepared: March 22, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1-6.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 7-10.

* - 12' N to place away from pole influence.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MOUNT PLEASANT County: Isabella State: Michigan Index No. 20-5667-5 Date prepared: December 9, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1-6.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1-6.

WS Form

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: WITT ISLAND Lake Royale County: Kalamazoo State: Michigan Index No. 20-5657-0 Date prepared: May 1, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1-6.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1-6.

* - Isle Royale group 500' to Lake Superior. Surrounded by stand of timber. This is also a Fire Weather Station WS Form 530-1 reporting from April 1 to Oct. 31. Prior to Dec. 16, 1943, observations were taken year around, but after that date, island was opened only from May 1 through Nov or middle of Dec.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MOUNT PLEASANT County: Isabella State: Michigan Index No. 20-5662-5 Date prepared: May 3, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1-6.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1-6.

* - Observers: R.D. Calkins 10-5-1916 to 10-31-21; Bert B. Stevens, 11-1-21 to 6-30-28; E. T. Oberg, 8-1-1928 to 6-30-1952; John Dibble 7-1-52 to

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MOUNT PLEASANT APS County: Macomb State: Michigan Index No. 20-5355-5 Date prepared: May 5, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1-6.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1-6.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: MINISINK County: Alger State: Michigan Index No. 20-5990-1 Date prepared: MAY 6, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1-6.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1-6.

Previous Bulletin WS included Wetmore records with Munising. Wetmore is located 5 mi. SE of Munising. See 530-1 for details. Observations have been recorded at same location since 1898. Station Mt. Oss before retirement was manager of utility and had been observing weather for 15 years. He moved to this country in 1898 and lived in the upper Peninsula. He has been except for a 5 year stay in Lansing between 1904-09. He has lived in Munising since 1909 where he is known as the Grand Old Man of Skiing, being instrumental in bringing the I.I. into national prominence as ski country. Mt. Oss is also a storm warning displayman, equipment located on grounds adjoining Beach Inn, on shore of Munising Bay.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WRPC, Kansas City, Missouri

Station: Manith County: Jackson State: Michigan Index No. 20-5698-N Date prepared: September 6, 1955

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42 22	84 15	24 1S 1E	900	1.4 miles S	Manith	Farm Residence
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(m)	(n)
1st	SRG	LAN	---	10-6-54	Harold H. Harr	
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: NEW BUFFALO County: Berrien State: Michigan Index No. _____ Date prepared: April 15, 1964

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 47'	86° 46'		690'	0.5 mile S of New Buffalo PO	New Buffalo	SRG loc. on grd. 25' from nearest high tree. SRG loc. 1/2 mile S of post office.
2nd	41° 46'	86° 46'		678'	1.0 mile S of New Buffalo PO	New Buffalo	SRG loc. on grd. 25' from nearest high tree. SRG loc. 1/2 mile S of post office.
3rd	41° 47'	86° 46'		678'	0.2 mile SE of New Buffalo PO	New Buffalo	SRG in vacant lot SW of house 40'. Land generally flat, little obstruction.
4th	41° 47'	86° 42'		678'	3.0 miles E of New Buffalo PO	New Buffalo	SRG on grd at observer's resid, 50' from any bldgs. No trees near.
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(m)	(n)
1st	SRG	LAN	---	2-13-1959	W. G. Herroback	
2nd	SRG	LAN	---	12-8-1945	Louis Strand	
3rd	SRG	LAN	---	4-15-1945	Dr. W. G. Herroback	
4th	SRG	LAN	---	6-10-1945	Dr. W. G. Herroback	
5th	SRG	LAN	---	8-31-1946	Dr. W. G. Herroback	
6th	SRG	LAN	---	10-1-1945	Jack Wain	Observer was student. Sta. closed 9-30-4

* - New Buffalo records located at National Archives as follows: SI: July 1857-Dec. 1859, ~~XXXX~~ June 1861-July 1864

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WPC, Kansas City, Missouri

Station: Nashville 2S County: Barry State: Michigan Index No. 20-5749-N Date prepared: June 1, 1955

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42 34	85 05	12 2N 7W	890	2 miles S.	Nashville 2S	Farm - rolling land - 20% wooded
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(m)	(n)
1st	SRG	LAN	---	9-9-54	US Geological Survey*	
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: NEW TROY High School County: Berrien State: Michigan Index No. 20-5674-7 Date prepared: February 10, 1954

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 58'	88° 33'	Sec. 8 T7N, R10W		0.1 mile N of New Troy PO	New Troy	SRG on school ground SE of school. Hedge of bushes at base of hill to E. Slope beyond hedge. Hedge on E side exposure.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(m)	(n)
1st	SRG	LAN	---	6-27-1945	E. G. Eccles, Supt. New Troy Schools	Station closed. Recording gage relocated to Oshtemo, Michigan
2nd						
3rd						
4th						
5th						
6th						

* - Published in HR until May, 1948. After May in CD until Oct, 1951. In Hourly Precipitation Data thereafter.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WRPC, Kansas City, Missouri

Station: Nashville 5S County: Barry State: Michigan Index No. 20-5754-N Date prepared: June 1, 1955

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42 32	85 05	26 2N 7W	875	4.7 miles S.	Nashville 5S	Farm - land is rolling
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(m)	(n)
1st	SRG	LAN	---	11/24/54	US Geological Survey*	
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: NEWAGO CROTON DAM County: Newago State: Michigan Index No. 20-5803-S Date prepared: MAY 7, 1955

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 27'	86° 40'		665'	8 miles SWS of Newago PO	Croton Dam	CRS 40' from high ridge. SRG 50' away from big. Nearly level immediately vicinity of station. Sides slope by SRG over concrete spill, SW of big. Doors on SRG on E side. County Rolling. Taper in 1955. Vic. of intake.
2nd	43° 27'	86° 40'		722'	6 miles EWS of Newago PO	Croton Dam	
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Date 1st and last observations		
(a)	(1)	(2)	(3)	(4)	(m)	(n)
1st	CRS, SRG, Mk. Mn	LAN	---	11-20-1907	A. Wynn, Supt. Consumers Power Co. Employee	A. Wynn signed reports from 11/20/07 until 10-20-1951. Station loc. in immediate vicinity of intake. Sides slope by SRG over concrete spill, SW of big. Doors on SRG on E side. County Rolling. Taper in 1955. Vic. of intake.
2nd	CRS, SRG, Mk. Mn	LAN	---	10-20-1951	A. Wynn, Supt. Consumers Power Co. Employee	
3rd						
4th						
5th						
6th						

* - Addition of "Newago" to station name occurred May 1, 1948 to tie in the name of the station with the nearest primary post office. Station known as Croton or Croton Dam before this time.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form DPC, Chicago, Illinois
 Station Newberry (Current name) County Lucas State Michigan Index No. 5811-1
063262 Date prepared Dec. 15, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation and	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	?	?	S33T46R13W	?	?	Seney	?
2nd	46° 21' N	85° 31' W	S26T46R13W	797'	3/4 mile s & 3 blocks	Newberry	Level
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	?			1928 +	?	Seney is Schoolcraft County
2nd	A, SFG, HyThg, DW, Mx, Mn	NWRC DPC Chi.	HB	7/19/30 7/20/30		Mich. Conservation Dept.
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WKO, East Lansing, Michigan
 Station NORTH MANITOU ISLAND (Current name) County Leelanau State Michigan Index No. 20-5988-2
20-5988-2 Date prepared May 28, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation and	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 07'	85° 03'	Sec. 1 T31N, R10W	665'	16.0 miles NW of Island, MI	North Manitou Island	On top of dunes; lower in field area. Grass to W & E. 200' above top of dunes.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	//SG	NWRC, Asheville, N.C.	CD	11-20-1932		Weather Bureau
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan
 Station NEWBERRY Sta. #1 (Current name) County Lucas State Michigan Index No. 20-5816-1
20-5816-1 Date prepared May 8, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation and	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 20'	85° 29'	Sec. 1 T45N, R10W	773'	2.2 mi. SSE of Newberry PO	Newberry	CRS over sog 25' from big doors open N, 34' NW, 41' W of tower house, 1 1/2' sky, 10' S of Sta., 200' above top of dunes. Territory surrounding slightly rolling, sandy soil.
2nd	46° 20'	85° 20'	T45N, R10W	885'		Newberry PO	
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CRS, SFG, Mx, Mn	WBO, East Lansing, MI	CD, HB	9-1-1936 8-31-1910 12-14-1910	F. N. Taggett City Engineer I. D. working, Supt. City Sewage Treat. Plant	WBO installed 5-24-51. Previously located at Deer Park 24.0 miles NNW. See 530-1 for Deer Park observers: John Brown 12-14-10 to 7-31-1935 (observer died); R. A. Thompson 1-1-1936 to 7-31-38; R. R. Ryan 8-1-38 to 1-1-1944 (observations actually taken by Ryan beginning 8-1-38 but 1940's signed by Thompson). Ryan excellent observer, although being inmate at hospital. Former civil engineer of some fame; press of work caused his collapse; still is being treated for some time. Ryan died on January 19th, 1954, after 3 or 4 months of illness.
2nd	CRS, SFG, Mx, Mn	WBO, East Lansing, MI	CD, HB			
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan
 Station North Manitou Island #2 (Current name) County Leelanau State Michigan Index No. 20-5991-2
20-5991-2 Date prepared November 19, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation and	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 07'	85° 59'	34 32N 14W	585'	13.0 miles W of PO at Island, Michigan	North Manitou #2	Located on east central shore of the island which is 11 miles N. of mainland (Glen Arbor)
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	Mx Mn SFG//		CD	10-27-1954		Storage gage is located 4 miles west of this station on opposite side of island.
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan
 Station NILES (Current name) County Berrien State Michigan Index No. 20-5882-7
20-5882-7 Date prepared May 11, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation and	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 50'	84° 15'		723'	1 mi. NE of Niles PO	Niles	SFG on lawn 40' from observer's residence, 3' above rd. level country.
2nd	41° 51'	84° 16'		680'	1 mi. NW of Niles PO	Niles	SFG on top of dunes, 10' above rd. level. N of Sta. Land rolling. Mich. 10 miles W.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SFG	WBO, East Lansing, MI	CD	5-5-1945	F. N. Taggett City Engineer	Sta. at 502 N. 13th Street
2nd	SFG	WBO, East Lansing, MI	CD	8-30-1890 7-10-1890	I. D. working, Supt. City Sewage Treat. Plant	Sta. and equip. moved 1.5 miles NW of 1st location. Former observer resigned.
3rd						
4th						
5th						
6th						

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU
SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan
 Station ONAWAY Black Lake Forest (Current name) County Presque Isle State Michigan Index No. 20-5184-2
20-5184-2 Date prepared May 11, 1955

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation and	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 30'	84° 15'		648'	11.0 miles N of Onaway PO	Black Lake Forest	CRS over sog near top of 1st knoll 115' from 2nd Sta. SFG on top of dunes, 10' above rd. level. N of house, doors open N. Country rolling.
2nd	45° 30'	84° 15'		648'	4.0 miles W of Onaway PO	Black Lake Forest	CRS over group, 10' above rd. level. N of house, doors open N. Country rolling.
3rd	45° 25' N	84° 14' W		648'	4.0 miles N of Onaway PO	Black Lake Forest #	Same as 2nd location
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CRS, SFG, Mx, Mn	WBO, East Lansing, MI	CD	4-21-1928	Dave Green, Supt.	Sta. 325' N of lake rim, 25 miles NE of Black Lk. 3 mi. W of Lake Huron. Exposure 200' from drainage & wind shelter effects.
2nd	CRS, SFG, Mx, Mn	WBO, East Lansing, MI	CD	12-1-1941	Dave Green, Supt.	
3rd	CRS, SFG, Mx, Mn	WBO, East Lansing, MI	CD	4-30-1942	Andrew Iraidwood, Supt.	1 3/4 mi. NE of Black Lake
4th	CRS, SFG, Mx, Mn	WBO, East Lansing, MI	CD	8-25-1942	Andrew Iraidwood, Supt.	Obs. Green died 5-10-42. Mr. Iraidwood rec'd 10-yr. length of Serv. Award 3-20-53
5th						
6th						

* - YU records for Niles available from National Archives for the period Jan. 1879-Aug 1892. Location and exposure not known.

* - Name of station changed 5-1-48 to Onaway Black Lake Forest. On same date, lat. and long. corrected from 45° 30', 84° 11' to 45° 25', 84° 14'.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ONAWAY 12 S County: Montcalm State: Michigan Index No. 20-6182-2 Date prepared: May 11, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Hygrometric, A & wind vane owned by Michigan Dept. of Conservation.
* - of Service Award present in archive.
* - located at observer's store and gas station, which is only store between Onaway and Atlanta.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ONTONAGON County: Ontonagon State: Michigan Index No. 20-6210-0 Date prepared: May 12, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - The W. R. Roach Co. maintained an 8' R from Dec. 1, 1926 until they took over the complete Coop. Station in 1929. Station was known as Onawoy at that time. See 530-1.
* - L. R. Jennings received 10-year length of Service Award in March, 1952 for period ending Dec. 31, 1951.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ONTONAGON Lake Works County: Ontonagon State: Michigan Index No. 20-6210-0 Date prepared: May 13, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - CRS, WX, MN owned by U.S. Forest Service.
* - Hourly precip. published in RB prior to May, 1948. After that date until Sept, 1951 in CD. Published in Hourly Precipitation Data after Sept., 1951.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: East Lansing, Michigan

Station: OSOSSO, Fonte Dam County: Iosco State: Michigan Index No. 20-6300-8 Date prepared: October 12, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Some records show 610 also 639.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: OSOSSO Sewage Plant County: Shiawassee State: Michigan Index No. 20-6300-8 Date prepared: July 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - The W. R. Roach Co. maintained an 8' R from Dec. 1, 1926 until they took over the complete Coop. Station in 1929. Station was known as Onawoy at that time. See 530-1.
* - L. R. Jennings received 10-year length of Service Award in March, 1952 for period ending Dec. 31, 1951.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Sheet 1 of 2; giving details of RIVER Gage locations and exposures.

Office preparing form: WBO, East Lansing, Michigan

Station: OSOSSO County: Shiawassee State: Michigan Index No. 20-6300-8 Date prepared: May 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - RRIG established by Michigan Stream Control Comm. 5-17-31 and records maintained to date by USGS and are on file at USGS, Indianapolis, Indiana. Zero of gage 707.82'. Weather Bureau readings taken from RRIG beginning 2-1-40. Old chain and weight gage abandoned.
* - In River Gages published only until 1928. Full climatological records published when station was combined to make River-rainfall station 1944.

UNITED STATES DEPARTMENT OF COMMERCE

Sheet 2 of 2: showing details of RAINGAGE locations and exposures at river station.

Station Owasco County Shiawassee State Michigan Index No. 20-6300-8 Date prepared May 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Bally River Station published only until 1926.

UNITED STATES DEPARTMENT OF COMMERCE

Station Parkville County St. Joseph State Michigan Index No. 20-6401-7 Date prepared August 27, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - In Bulletin No. 1930 2d, Parkville records were used as part of Centerville (near) records. Parkville was located approx. 2 1/2 miles NE of Centerville (near) station. Parkville records published in WB Form 530-1 date Parkville records used as part of Three Rivers record. Village of Parkville located 6 miles NE of Three Rivers.

UNITED STATES DEPARTMENT OF COMMERCE

WEATHER BUREAU

SUBSTATION HISTORY

Station Fainesdale County Houghton State Michigan Index No. 20-6377-0 Date prepared April 15, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - S of Fainesdale, and is not considered a continuity of Fainesdale record.
* - Station closed 9-1-1952 because of lack of interest.

UNITED STATES DEPARTMENT OF COMMERCE

WEATHER BUREAU

SUBSTATION HISTORY

Station Paw Paw County Van Buren State Michigan Index No. 20-6401-7 Date prepared May 18, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE

WEATHER BUREAU

SUBSTATION HISTORY

Station Paradise County Chippewa State Michigan Index No. 20-6353-1 Date prepared September 8, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

Records at Paradise are not continuous with those of Whitefish Point.

UNITED STATES DEPARTMENT OF COMMERCE

WEATHER BUREAU

SUBSTATION HISTORY

Station Paw Paw 2E County Van Buren State Michigan Index No. 20-6401-7 Date prepared 10/31/55

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PETOSKY, County: Emmet, State: Michigan, Index No. 20-6607-2, Date prepared: May 20, 1953.

Record table with columns: Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes entries for WT, DT, SRG, CRS, SSG, WX, MN, LANSING, WBO, EAST, MICH, CD, SW, etc.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PHOENIX, County: Keweenaw, State: Michigan, Index No. none, Date prepared: October 11, 1954.

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PHOENIX, County: Keweenaw, State: Michigan, Index No. none, Date prepared: October 11, 1954.

Record table with columns: Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes entries for SRG, WBO, EAST, LANSING, MICH, CD, SW, etc.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PIONEER, County: Missaukee, State: Michigan, Index No. 20-6690-2, Date prepared: May 21, 1953.

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PIONEER, County: Missaukee, State: Michigan, Index No. 20-6690-2, Date prepared: May 21, 1953.

Record table with columns: Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes entries for CRS, SSG, WX, MN, LANSING, WBO, EAST, MICH, CD, SW, etc.

* - Pioneer listed on State Highway Map but no PO located in village. Nearest larger town, Lake City, 11.0 miles SW of Pioneer.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PLAINWELL DAM, County: Allegan, State: Michigan, Index No., Date prepared: April 15, 1954.

Record table with columns: Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes entries for SRG, WBO, EAST, LANSING, WBO, EAST, MICH, CD, SW, etc.

* - SRG was standing and Consumers Power installation bolted to base and not too satisfactory. Sometime between 1930 and 1935, an SRG was installed 50' SE of plain and bettered the first exposure.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PONTIAC STATE HOSPITAL, County: Oakland, State: Michigan, Index No. 20-6658-2, Date prepared: June 3, 1953.

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: PONTIAC STATE HOSPITAL, County: Oakland, State: Michigan, Index No. 20-6658-2, Date prepared: June 3, 1953.

Record table with columns: Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes entries for DT, WT, SRG, CRS, SSG, WX, MN, LANSING, WBO, EAST, MICH, CD, SW, etc.

* - No records for period Feb. 1954 through Aug. 1955 located at National Archives. * - Also annual Michigan Crop Report. * - Power Plant. Immediate surroundings slightly rolling. Equipment moved July 22, 1950 to South of Power Plant over road.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: FORT AUSTIN, County: Huron, State: Michigan, Index No., Date prepared: May 6, 1953.

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Station: FORT AUSTIN, County: Huron, State: Michigan, Index No., Date prepared: May 6, 1953.

Record table with columns: Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Includes entries for CRS, SSG, WX, MN, LANSING, WBO, EAST, MICH, CD, SW, etc.

* - Huron shores. No inspection forms or description of station between 2-3-06 and 8-3-23, but notes indicate that equipment was moved during 1824 or 1825 to this location. Station closed 4-30-25 and equipment moved to site 1 1/2 miles S of Fort Austin. See WS Form 530-1 for Bad Axe. Records considered separate from those of Bad Axe.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station PORT HURON PIRE-POW County St. Clair State Michigan Index No. 20-6880-0 Date prepared June 5, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

On 4-15-16, a 20' support was installed, wind vane at 120' and 1st at 120'. Both rain and snow gauges are in NW quadrant of tower. S.W. street exposure not good being subject to strong winds and eddies that form around chimneys.
* - Relethermograph installed 1915; nephoscope installed 10-20-20.
* - Early Port Huron records at National Archives: 511 May 1807-June 1859, Nov.-Dec. 1873; VP: Jan. 1874, Nov. 1879, Nov. 1885; Reg. Star July 1874-Dec. 1892 (2d Order).

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station FOWERS County Lenox State Michigan Index No. Date prepared November 7, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Rain gauge was a 5" Michigan Weather Service gage. Replaced with SSG on Aug., 1952
* - Records not complete from 1899-1901.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station PORT INLAND County Schoolcraft State Michigan Index No. 20-6880-1 Date prepared May 28, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Published in RB until May, 1948, in CD from 5-1948.
* - SWS of Princeton. See 530-1 for GWIN.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station PRINCETON County Marquette State Michigan Index No. 20-5744-0 Date prepared February 4, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Published in RB until May, 1948, in CD from 5-1948.
* - SWS of Princeton. See 530-1 for GWIN.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, Grand Rapids, Mich.

Station FORTLAND County Ionia State Michigan Index No. 20-6744-6 Date prepared January 15, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form DFC, Chicago, Illinois

Station RECO County Chippewa State Michigan Index No. Date prepared Dec. 15, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: REXTON County: Mackinac State: Michigan Index No: 20-6998-1 Date prepared: May 7, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - 7.0 miles S, Rexton Lake 0.4 mi. N.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ROGERS CITY SW County: Presque Isle State: Michigan Index No: 20-7091-3 Date prepared: June 15, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Rogers City proper, because of altitude & terrain exposure difference. See WB Form 530-1 for ROGERS CITY.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ROCK County: Delta State: Michigan Index No: 20-7068-1 Date prepared: June 4, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Station was originally named Maple Ridge, reason unknown, since instruments were actually located only one block from Rock PO. In one inspection report dated 8-26-26, it was said that town's name was originally named Maple Ridge, but renamed Rock, date of change unknown. Description of station dated 2-14-06 gives station name as Maple Ridge, Post Office address as Rock. Henceforth, considered one in the same record.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ROMEO County: Macomb State: Michigan Index No: 20-7097-9 Date prepared: June 15, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - S1: Jan. 1856-Mar. 1857; V0: Oct. 1888, Dec. 1890 in National Archives

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ROGERS CITY County: Presque Isle State: Michigan Index No: 20-7082-3 Date prepared: June 10, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Station was moved from 2nd to 3rd location due to a request from a County Agricultural Agent for a more representative reading from this area. Station was made full climatological observations made by the radio station were retained and very accurate. Station was moved to 3rd location to be more representative of the area. Records at the 2nd location & exposure were not considered a continuity of record. That taken at Rogers City proper, because of altitude & terrain exposure difference, & is kept as a continuity of record. These original records are located at WBO, E. Lansing, Michigan.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form: WBO, East Lansing, Michigan

Station: ROMEO County: Macomb State: Michigan Index No: 20-7097-9 Date prepared: June 15, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Station was moved from 2nd to 3rd location due to a request from a County Agricultural Agent for a more representative reading from this area. Station was made full climatological observations made by the radio station were retained and very accurate. Station was moved to 3rd location to be more representative of the area. Records at the 2nd location & exposure were not considered a continuity of record. That taken at Rogers City proper, because of altitude & terrain exposure difference, & is kept as a continuity of record. These original records are located at WBO, E. Lansing, Michigan.

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station ROSCOMMON NCST County Roscommon State Michigan Index No. _____ Date prepared May 7, 1956

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st							Name changed from Roscommon (near) to Higgins Lake Experiment Farm. See 530-1 for Higgins Lake. Records are continuous.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(1)	(2)	(3)	(4)	(5)
1st						
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station REDYARD County Chippewa State Michigan Index No. 20-7187-1 Date prepared June 18, 1953

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st							Near center of village
2nd	48° 14'	84° 36'		620'	1.0 miles S of Redyard PO	Rudyard	SRG 30'-40' distant from 20' high building on ground. Country level.
3rd	48° 13'	84° 36'			0.2 miles SW of Redyard PO	Rudyard	SRG on farm property of observer. Exact exposure not known.
4th	48° 14'	84° 37'		620'	0.5 miles E of Redyard PO	Rudyard	SRG moved in 1948 to more favorable location on farm.
5th	48° 14'	84° 36'		620'	0.1 miles W of Redyard PO	Rudyard	SRG moved from observatory to this station site, being 20' SW of top of hill. SRG in open area. Slightly rolling terrain. Weathered saw log. SRG on top of hill. SRG on top of hill. SRG on top of hill.
6th	48° 14'	84° 36'		750'	Rudyard PO	Rudyard	SRG on rather open area, terrain rolling SW to NW.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(1)	(2)	(3)	(4)	(5)
1st	SRG	WBO, East Lansing	CD	11-14-1938	Henry Jarvis, Jr.	SRG property of County Road Commission. Observer moved from village to farm, 5 mi. N of village with alt. type of terrain not known.
2nd	SRG	WBO, East Lansing	CD	4-30-1945	Henry Jarvis, Jr.	
3rd	SRG	WBO, East Lansing	CD	9-1-1945	Lewis Coleman	
4th	SRG	WBO, East Lansing	CD	8-1-1951	David Barans	Sta. & Equip. moved 0.5 mi. S of old loc.
5th	SRG	WBO, East Lansing	CD	10-6-1951	Hans P. Lankinen	Station & equip. moved 0.5 miles NW of 4th location.
6th	SRG	WBO, East Lansing	CD	9-11-1953		

* - Station ~~precipitation~~ of Rudyard moved 0.5 miles SW to Kinross AF Base and incorporated into newly activated precipitation station at Kinross. See WB Form 530-1 for Kinross for continuity of Rudyard precipitation record.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station ROSCOMMON Forest Exp. Sta. County Roscommon State Michigan Index No. 20-7122-5 Date prepared February 11, 1954

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 28'	84° 35'	22N, R2W Sec. 17	1150'	2.8 miles SSW of Roscommon PO	Roscommon #2	SRG over road, small evergreens 20' SW, 20' N, 20' E on rd. 10' or more trees. Country level. SRG on top of hill. SRG on top of hill. SRG on top of hill.
2nd	44° 28'	84° 35'	22N, R2W Sec. 17	1150'	2.1 miles SSW of Roscommon PO	Roscommon #1	SRG on top of hill. SRG on top of hill. SRG on top of hill.
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(1)	(2)	(3)	(4)	(5)
1st	SRG	WBO, East Lansing	CD	5-1-1930	Employees	Spring through fall records available only for the years 1930 & 1931. (Observ. taken through March 31 observations were taken by Mich. Conservation Serv., Roscom.)
2nd	SRG	WBO, East Lansing	CD	7-28-1951	Employees	
3rd	SRG	WBO, East Lansing	CD	7-27-1951	Employees	
4th						
5th						
6th						

* - called Roscommon #2 until Aug. 1953 when the #2 was dropped.
 * - SRG installed 5-1-1930. Same was previously located 20 miles to SW at Mancelona. Records are located at WBO, East Lansing. SRG moved to this station in March 1954. SRG moved to this station in March 1954. SRG moved to this station in March 1954.
 * - through March 31 observations were taken by Mich. Conservation Serv.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station Saginaw Center Rd Station County Saginaw State Michigan Index No. 20-7217-6 Date prepared May 23, 1955

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 29'	84° 02'	5 12N 4E	627'	5.3 mi. NW-Saginaw		Consumers Power Co. at Center Rd Substa. Flat open countryside
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(1)	(2)	(3)	(4)	(5)
1st	SRG	WBO, East Lansing	CD	3/1/55	Con. Pwr. Co.	
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station ROSE CITY County Ogemaw State Michigan Index No. 20-7134-3 Date prepared February 11, 1954

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 28'	84° 07'	Sec. 6 T22N, R5E	1061'	0.4 mile NW of Rose City PO	Rose City	SRG on rd. ridge to N. S. & SE all less than 30' SW. SRG on rd. ridge to N. S. & SE all less than 30' SW. SRG on rd. ridge to N. S. & SE all less than 30' SW.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(1)	(2)	(3)	(4)	(5)
1st	SRG	WBO, East Lansing	CD	5-5-1951	Employees	This station is part of the State River Watershed Project. Land is rolling, area 80 wooded, 400 farm fields.
2nd						
3rd						
4th						
5th						
6th						

* Published in CD until Oct. 1951. After that date in Hourly Precipitation Data.

WB Form 530-1

WB Form 530-1 UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY Office preparing form WBO, East Lansing, Michigan

Station SAGINAW Genesee Ave Tr County Saginaw State Michigan Index No. 20-7222-4 Date prepared Dec. 13, 1955

Location	Latitude	Longitude	Sec. Twp. Rsp.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st							
2nd							
3rd	43° 25'	83° 51'	Sec. 35 T22N, R5E	667'	1 mile S of Saginaw	Saginaw	SRG on roof of obs. garage
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(1)	(2)	(3)	(4)	(5)
1st	SRG	WBO, East Lansing	CD	2-11-1910	Harry T. Rork	Obs. taken Mar. - May only
2nd	SRG	WBO, East Lansing	CD	2-15-1913	Harry T. Rork	Mr. Helm is bridge tender. Obs. taken Mar. through May only until 1906. Year around thereafter.
3rd	SRG	WBO, East Lansing	CD	2-2-1910	William Hahn	
4th	SRG	WBO, East Lansing	CD	2-3-1910	J.C. Richardson	
5th						
6th						

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SANDUSKY County Sanilac State Michigan Index No. 20-7250-6 Date prepared July 10, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 7th, 8th, 9th, 10th, 5th, 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 7th, 8th, 9th, 10th, 5th, 6th.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SCOTTVILLE 1 NE # County Mason State Michigan Index No. 20-7405-4 Date prepared July 13, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

* Name changed to Scottsville 1 NE, 7/29/53, after coordinates were checked against Michigan Co. Atlas of General Highway Maps.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SARANAC County Ionia State Michigan Index No. 20-7155-6 Date prepared April 22, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

* Instruments were re-located fall of 1932 to a more open area SW of residence. Inspection report dated 10-1-1932. Station moved to 2nd loc. in 1933. Station moved to 3rd loc. in 1934. Station moved to 4th loc. in 1935. Station moved to 5th loc. in 1936. Station moved to 6th loc. in 1937.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Seara County Genesee State Michigan Index No. 20-7415-6 Date prepared December 24, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SCOTTVILLE County Mason State Michigan Index No. 20-7415-6 Date prepared December 30, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

* - Presson, W.S. See 530-1 for Presson for continuation of this station.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SEBWAING County Huron State Michigan Index No. 20-7415-6 Date prepared July 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Reg., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st, 2nd, 3rd, 4th, 5th, 6th.

* - Observer Wols received 10 year Length of Service Award Dec. 1951.

WS Form 530-1

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WB Form 530-1
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY
Office preparing form WBO, East Lansing, Michigan

Station SEBRAWING Water Works County Huron State Michigan Index No. 20-7424-8 Date prepared March 4, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 44'	85° 27'	T15N, R9E Sec. 35,	620'	0.6 mile NNE of Sebawing PO	Sebawing#2	//WNG 42" x 20" high garage, 77'S of 70' high of 10' x 10' area. No trees near enough to affect. Sec. 35 of 1717N, R9E. Cross observed 0.5 mile S of Sebawing PO
2nd	43° 43'	85° 27'	T17N, R9E			Sebawing	
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Dates 1st and last observations		
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	//RNG	NWC, Asheville, N.C.	HB	5-11-1940 4-25-1947	William Sugar Mich. Sugar Company Employees	Edge on grade of Sugar Company Sta. & Equip. no ed 0.6 mile S of 1st loc.
2nd	//RNG	NWC, Asheville, N.C.	HSE	4-25-1947	Municipal Sgt. & Water	
3rd						
4th						
5th						
6th						

* - Published in HB until May, 1948; then in CD until Oct., 1951; then in Hourly Precipitation Data thereafter. WB Form 530-1

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WB Form 530-1
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY
Office preparing form WBO, East Lansing, Michigan

Station SILVER CREEK (Sugar Sta.) County Iosco State Michigan Index No. _____ Date prepared May 8, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st					9.25 mi. SE of East Tawas PO	Silver Creek	SRG on ground 30' from low trees, 18 inches above ground.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Dates 1st and last observations		
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SRG	WBO, East Lansing, MI	CD	7-1, 1920 10-31, 1921	Ralph L. Johnson	Country rolling, high pine forest on top of hill. This station under control of Forest Supervisor, Mich. National For- est at East Tawas.
2nd						
3rd						
4th						
5th						
6th						

Complete records for East Tawas are on a separate Substation History Form. WB Form 530-1

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WB Form 530-1
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY
Office preparing form WBO, East Lansing, Michigan

Station SECORD Dam County Gladwin State Michigan Index No. _____ Date prepared May 5, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 02'	84° 22'		745'	7 miles NE of Gladwin PO	Secord	SRG on site on tower, 111' 20" above edge of dam, 28' NW of transformer & 18' S of powerhouse, country level.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Dates 1st and last observations		
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	SRG	WBO, East Lansing, MI	CD	12-1-1926 12-31-1928	Employees Consumers Power Company	Longitude observers: H. Ripke 12-1-26 to 5-1-28, J. Gooden and N. G. Kurz 12-1- 28 to 12-31-28.
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY
Office preparing form WBO, East Lansing, Michigan

Station SEGENS County Merriam State Michigan Index No. _____ Date prepared May 8, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st							Sodas renamed East Claire: See WB Form 530-1 for Eau Claire
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Dates 1st and last observations		
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st						
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

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WB Form 530-1
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY
Office preparing form WBO, East Lansing, Michigan

Station SIDNAW County Houghton State Michigan Index No. _____ Date prepared February 18, 1953

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	45° 29'	86° 43'		1377'		Sidnaw	CRS on open ground, SRG near shelter.
2nd	46° 29'	86° 43'		1380'		Sidnaw	CRS over sod 50' to rear of office bldg. SRG near CRS. Instruments and CRS on side lawn.
3rd	45° 29'	86° 43'		1380'		Sidnaw	Same location as above.
4th	46° 29'	86° 43'		1380'	150 yds from Sidnaw PO	Sidnaw	CRS on edge of 25' high, nearest higher obs. (see high CRS & SRG 15' - 20' from 22' bldg. CRS faces N and in open space.
5th	46° 29'	86° 43'		1380'		Sidnaw	CRS on edge of 25' high, nearest higher obs. (see high CRS & SRG 15' - 20' from 22' bldg. CRS faces N and in open space.
6th	46° 29'	86° 43'		1380'		Sidnaw	CRS on edge of 25' high, nearest higher obs. (see high CRS & SRG 15' - 20' from 22' bldg. CRS faces N and in open space.

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Dates 1st and last observations		
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	Nx, Nn, CRS, SRG	WBO, East Lansing, MI	EM, CD	12-1-1898* 4-30-1903 8-1-1915	Agents D.S.S. and A.R.R.	Country hilly
2nd	Nx, Nn, CRS, SRG	WBO, East Lansing, MI	EM, CD	12-31-1927 1-1-1928	W. S. Prickett Walter H. & Wood	Country hilly
3rd	Nx, Nn, CRS, SRG	WBO, East Lansing, MI	EM, CD	2-28-1931	(employed by Prickett)	
4th	Nx, Nn, CRS, SRG	WBO, East Lansing, MI	CD	3-1-1931	Charles Francisco	Country generally level. Sta. located at residence of obs. in west side of town.
5th	Nx, Nn, CRS, SRG	WBO, East Lansing, MI	CD	6-1-1938 8-1-1938	Floyd Green	
6th	Nx, Nn, CRS, SRG	WBO, East Lansing, MI	CD	7-31-1939 8-1-1939	R. P. Kunze	Country generally level. Sta. located at edge of obs. near center of town (Ripke High)

* - also Feb. 1898 available. WB Form 530-1

Station closed 10-31-40 and equipment moved to Kenton, 8 miles West. See WB-Form 530-1 for Kenton.

WB Form 530-1
UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY
Office preparing form WBO, East Lansing, Michigan

Station SOUTH FOX ISLAND County Island State Michigan Index No. 20-7667-2 Date prepared May 28, 1954

Location	Latitude	Longitude	Sec. Twp. Rng.	Elevation ft.	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	46° 23'	86° 50'	Sec. 21 T32N, R13W	610'	26.5 miles WNW of Charlevoix PO	South Fox Island	//SR 100, 40W of 1100' 20" av. top of 400' trees in 31' thick forest. 11- 30' av. top of 2' trees lower.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Record			Observers and Dates	Remarks
		Original located	Where published	Dates 1st and last observations		
(a)	(i)	(j)	(k)	(l)	(m)	(n)
1st	//SG, //RNG	NWC, Asheville, N.C.	*	11-12-1926	U. S. Coast Guard	
2nd						
3rd						
4th						
5th						
6th						

* - //SG installed 11-12-26 and //RNG 8-12-28. Records for storage were published in CD, and were in HB. WB Form 530-1
//RNG loc. 100' SE of quarters bldg. Both the storage and recording instruments are located on the extreme south
end of the island and, within 50' of the shore. The storage and recording instruments are located on a small long
and wooded on the eastern shore. Mainland of Michigan 17.0 miles SE of South Fox Island.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SOUTH HAVEN #1 County Allegan State Michigan Index No. _____ Date prepared July 15, 1963

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rang., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Contains data for South Haven #1 station.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Contains historical data for South Haven #1.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SOUTH HAVEN Exp. Farm County Van Buren State Michigan Index No. 20-7890-7 Date prepared July 16, 1963

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rang., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Contains data for South Haven Exp. Farm station.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Contains historical data for South Haven Exp. Farm.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SOUTH HAVEN #2 County Van Buren State Michigan Index No. _____ Date prepared July 16, 1963

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rang., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Contains data for South Haven #2 station.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Contains historical data for South Haven #2.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SOUTH MANITOU ISLAND #1 County Leelanau State Michigan Index No. 20-7711-2 Date prepared May 29, 1964

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rang., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Contains data for South Manitou Island #1 station.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Contains historical data for South Manitou Island #1.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SOUTH HAVEN Exp. Farm County Van Buren State Michigan Index No. 20-7890-7 Date prepared July 15, 1963

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rang., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Contains data for South Haven Exp. Farm station.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Contains historical data for South Haven Exp. Farm.

SI records for South Haven available from National A. archives for period April-June, 1872.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form CO

Station South Manitou Island #2 County Leelanau State Michigan Index No. 20-7711-2 Date prepared 7/15/63

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rang., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Contains data for South Manitou Island #2 station.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Contains historical data for South Manitou Island #2.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SPALDING County Venonice State Michigan Index No. 20-7742-0-5 Date prepared February 8, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

450-1 for HERMANVILLE.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STANWOOD County Mecosta State Michigan Index No. Date prepared May 9, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - inspection report of 8-28-51 reported that the outer tube of the gage was found to be fastened firmly to the iron tripod support so that it was impossible to remove the same for emptying. A considerable amount of water was found in the gage, at least 1/2 inch deep. The gage was found to be tilted to the right while the rain was being sprinkled. Inspector suggests moving the gage to the left side of the tripod. The gage was found to be tilted to the right while the rain was being sprinkled. Inspector suggests moving the gage to the left side of the tripod. The gage was found to be tilted to the right while the rain was being sprinkled. Inspector suggests moving the gage to the left side of the tripod.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STAMBAUGH County Iron State Michigan Index No. 20-7812-0 Date prepared July 17, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Actually, however, the Oliver Mining Company was located in the village of Stambaugh which is adjacent to River. Consequently all records of Iron River (near) and Stambaugh are considered continuous.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STEPHENSON SW County Venonice State Michigan Index No. 20-7867-0 Date prepared August 13, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* Cassin's gage is from 81' to 74'.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STANDISH 25 County Arzac State Michigan Index No. 20-7820-5 Date prepared August 13, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - surrounding trees. GWS 25' to 40' above top of gage. Exposure only fair because of nearby tree growth. GWS 1st of 3rd and 21' abv. top of gage. Orchard to SW of instru. 11-50' abv. top of gage. Land is generally flat and area is only about 1/2 in trees.

WS Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STUBEN 2W County Schoolcraft State Michigan Index No. 20-7890-1 Date prepared August 14, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - GWS RECORDS located at WBO, Isherville, N.Y. Not published until May, 1948 in CD. After Oct., 1951 in Hourly Precipitation Data. SNG abandoned 8-23-55 because observer used daily amounts from RRGO on 1000's. How long this practice was in effect is not known. SNG returned to Section Center.

WS Form 530-1

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WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STROMACH Dam County Manistee State Michigan Index No. _____ Date prepared May 6, 1954

Location	Latitude	Longitude	Sec. Twp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 10'	86° 25'		940'	4 miles S of Wellston PO	Stromach	Sec. 104, on logs, tower ends. SRG exposed 15' from 30' high bldg. in 7-1928 a one log. was chosen for same but no description of expos. is available.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRG	WBO, East Lansing	CD, BR	7-1-1915 12-31-1935	Employees Consumers Power Company	
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station SUTTONS BAY L.W. County Leelanau State Michigan Index No. 20-8032-2 Date prepared August 14, 1953

Location	Latitude	Longitude	Sec. Twp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 58'	85° 41'	Sec. 24 T30N R11W	590'	0.1 miles SW of Suttons Bay PO	Suttons Bay	SRG loc. on 2nd floor NW cor. E & N of 20' high store next to alley Jan W of County Rd. Commission owned. SRG placed 500' NW of 1st loc. dur. 1915 on top of 2nd floor of 1st bldg. SR. Land easily flooding.
2nd	44° 58'	85° 41'	Sec. 24 T30N R11W	590'	0.1 miles SW of Suttons Bay PO	Suttons Bay	SRG located 15' N of second location of Suttons Bay PO
3rd	44° 58'	85° 41'	Sec. 24 T30N R11W	590'	0.1 miles SW of Suttons Bay PO	Suttons Bay	SRG
4th	45° 01'	85° 42'	12 30N 12W	855'	1/2 miles NW PO	Suttons Bay L.W.	At George Kahrs farm, outside city.
5th	45° 01'	85° 42'	12 30N 12W	825'	1/3 MI NW PO	same	At farm residence, outside city.
6th	45° 01'	85° 42'	12 30N 12W	815'	1/4 MI NW PO	same	At observers residence, outside city.

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRG	WBO, East Lansing	CD	11-1-1938 5-4-1952	K. Gus Smarey Editor of Sub. Bay Cour.	Was in location of N. W. 27. 4. 4. C. 1952. Tests taken from western climatic influence.
2nd	SRG	WBO, East Lansing	CD	7-23-1935 7-23-1953	K. Gus Smarey	addition of 1/300 gage in conjunction with Great Lakes Prec. Study & data is not published.
3rd	SRG SRG	WBO, East Lansing	CD	12/11/54	K. Gus Smarey George Kahrs	Moved 1/2 mile NW former location.
4th	SRG	same	CD	3/17/55	George Kahrs	Moved 1/2 mile NW former location.
5th	SRG	same	CD	5/20/55 9/22/55	Raymond E. Alpers	Moved 3/4 mile NW former location.
6th	SRG A #	same	CD	9/23/55	F. Herrick Vaterman	Moved .5 miles S former location.

* discontinued 12/15/54.
Anemometer added 1/24/56.

WB Form 530-1

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WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station STURGIS County St. Joseph State Michigan Index No. _____ Date prepared August 28, 1953

Location	Latitude	Longitude	Sec. Twp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 40'	85° 25'		942'		Sturgis	Not known
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CRS, SRG, Wx, Wn	WBO, East Lansing	CD, BR	1-15-1925 3-31-1927	E. E. Rider	Station was moved from 10 miles NE of Centerville (near) to 15 miles SE.
2nd						
3rd						
4th						
5th						
6th						

Sturgis records used in long-time averages for Three Rivers. Sturgis located 15 miles SE of Three Rivers.

WB Form 530-1

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station THOMPSONVILLE County Benzie State Michigan Index No. 20-8167-2 Date prepared August 17, 1953

Location	Latitude	Longitude	Sec. Twp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	44° 51'	85° 58'		795'	0.2 miles S of Thompsonville PO	Thompsonville	SRG on 2nd floor S of 12' high garage. SRG on top of 10' high slope to E. Surrounding country generally rolling. Exp. S. sec.
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	SRG	WBO, East Lansing	CD	11-6-1958	Adrian Chamberlain	Station located at edge of town. SRG owned by State of Michigan.
2nd						
3rd						
4th						
5th						
6th						

WB Form 530-1

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Sunfield 3S County Easton State Michigan Index No. 20-8012-N Date prepared June 1, 1955

Location	Latitude	Longitude	Sec. Twp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	42° 43'	86° 59'	23 4N 6W	860'	2.5 miles S.	Sunfield 3S	Farm - Land is rolling
2nd							
3rd							
4th							
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CRS	LAN	---	10-5-54	US Geological Survey*	
2nd						
3rd						
4th						
5th						
6th						

* Equipment is located on farm of Alva Ralph

WB Form 530-1

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station THREE RIVERS County St. Joseph State Michigan Index No. 20-8194-B Date prepared August 28, 1953

Location	Latitude	Longitude	Sec. Twp. Rep.	Elevation	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	41° 57'	85° 58'				Three Rivers	Not known. It seems thermometer exposure was poor. Several months records missing at One River.
2nd	41° 58'	85° 58'		827'	3.5 miles NNW of Centerville (near)	Three Rivers	SRG over and top of trees. Doors open N. SRG on 2nd floor S of 100' country generally rolling. SRG on 2nd floor S of 100' N & W. Country generally rolling. All road SRG of CRS. SRG over 20' N of 15' bldg. Doors open N.
3rd	41° 57'	85° 58'		820'	0.5 miles SW of Three Rivers PO	Three Rivers	SRG on grid near CRS. Country level.
4th	41° 57'	85° 58'		820'	1.2 miles N of Three Rivers PO	Three Rivers	SRG on grid near CRS. Country level.
5th							
6th							

(Con't)	Instruments used	Original located	Where published	Date 1st and last observations	Observers and Dates	Remarks
(a)	(1)	(2)	(3)	(4)	(5)	(6)
1st	CRS, SRG, Wx, Wn	WBO, East Lansing	Not Pub.	9-1-1890	Three Rivers Pub. Library	
2nd	CRS, SRG, Wx, Wn	WBO, East Lansing	CD, BR	4-1-1927		River located 150' from instruments. Records were not too reliable because of
3rd	CRS, SRG, Wx, Wn	WBO, East Lansing	CD	8-5-1941	O. O. Johnson	Records were not too reliable because of
4th	CRS, SRG, Wx, Wn	WBO, East Lansing	CD	2-10-1942	City Water Works	local in interest of employees.
5th	CRS, SRG, Wx, Wn	WBO, East Lansing	CD	9-11-1942	Armstrong Machine Works	
6th						

* Beginning January 1, 1955 Name was changed from Centerville (near) to Three Rivers (near), since Post Office at Centerville was out of Three Rivers. Station was located 3 miles NE of Three River PO. See WB 530-1 for Sturgis, Wasepi & Parkville for further reference to Three Rivers.

WB Form 530-1

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station TRAVERS CITY (near) County GRAND TRAVERS State Michigan Index No. _____ Date prepared November 5, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station VANDERBILT Trout Station County OShtago State Michigan Index No. 20-8417-5 Date prepared September 2, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station TROUT LAKE 2 ESE County Chippewa State Michigan Index No. 20-8233-1 Date prepared March 4, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

SRG, SRS, WX, & MN were part of Fire-Weather Station. Records were not published in CD.
SRG published in CD until Oct, 1951 then in Hourly Precipitation Data. Records loc. in NWRC.
- to CORRECT.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station VANDERBILT Trout Station County OShtago State Michigan Index No. 20-8417-5 Date prepared September 2, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station TROBRIDGE Dam County Allegan State Michigan Index No. _____ Date prepared May 6, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station VASSAR County Tuscola State Michigan Index No. 20-8433-6 Date prepared December 12, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WEBBER DAM County Ionia State Michigan Index No. _____ Date prepared May 7, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes data for 1st through 6th locations.

* - at Water Meter, 20' SW of C14, & 10' SW of C20 - Country rolling. Station is surrounded by fiver and instruments are on ground of Consumers Power Company Dam. Up to 1925, dam was too low, 42' av. Hgt. At this time, dam was raised to standard height.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station Wellston Tippey Dam County Manistee State Michigan Index No. 20-8772-2 Date prepared September 4, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WEST LITCH ST. Forest County Ogemaw State Michigan Index No. 20-8900-3 Date prepared September 8, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WEST OLIVE County Ottawa State Michigan Index No. _____ Date prepared May 27, 1954

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WATMORE County Alcona State Michigan Index No. _____ Date prepared May 6, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WHITE PINE MINE County Ontonagon State Michigan Index No. 20-8925-0 Date prepared September 10, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rng., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Includes data for 1st through 6th locations.

Table with columns: (Con't), Instruments used, Original located, Where published, Date 1st and last observations, Observers and Dates, Remarks. Includes data for 1st through 6th locations.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WHITFISH POINT (Current name) County Chippewa State Michigan Index No. 20-8920-1 Date prepared September 8, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Lake Superior and Whitefish Bay in all quadrants except SW and 80° N at nearest point.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WPC, Kansas City, Missouri

Station WILLIAMSON 4 SW (Current name) County Ingham State Michigan Index No. 20-9009 Date prepared June 1, 1955

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* Equipment located on farm of Wallace A. Johnson

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WILLIAMSTON (Current name) County Ingham State Michigan Index No. 20-9008-8 Date prepared September 15, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Beginning 3-1913 to 1-1917, reports were received for March, April, May of each year. From 1908 to date, 15-min. readings made for 4 month period, Feb through May, but precipitation reports received year around (beginning 1-1917). * - Precip. published beginning 4-1-1914.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WILLIS (Current name) County Washtenaw State Michigan Index No. 20-9014-9 Date prepared September 10, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - Observations were taken at this same location since 12-1-1923. Records were sent to this office but not published until 1-1-1949 when precipitation data was included in W. Temperatures were published beginning 1-1-1949. * - Tg owned by observer.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WILLIAMSTON (Current name) County Ingham State Michigan Index No. 20-9008-8 Date prepared September 15, 1953

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

UNITED STATES DEPARTMENT OF COMMERCE WEATHER BUREAU SUBSTATION HISTORY

Office preparing form WBO, East Lansing, Michigan

Station WOLVERINE (Current name) County Cheboygan State Michigan Index No. 20-9102-2 Date prepared April 15, 1952

Table with columns: Location, Latitude, Longitude, Sec. Twp. Rsp., Elevation, Direction and distance from Post Office, Station known as, Description of exposure. Rows 1st to 6th.

Table with columns: (Con't), Instruments used, Original located, Where published, Dates 1st and last observations, Observers and Dates, Remarks. Rows 1st to 6th.

* - to Boyne Falls, July 1, 1949. See WB Form 530-1 for Boyne Falls.

UNITED STATES DEPARTMENT OF COMMERCE
WEATHER BUREAU
SUBSTATION HISTORY

Office preparing form WFO, East Lansing, Michigan

Station YALE (Current name) County St. Clair State Michigan Index No. 20-2188-2 Date prepared September 11, 1953

Loca- tion	Latitude	Longitude	Sec. Twp. Rng.	Elevation mft	Direction and distance from Post Office	Station known as	Description of exposure
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1st	43° 08'	82° 40'		799'	0.1 mile SW of Yale PO	Yale	SRG on top of 40' from 30' high bldg. well exposed. Generally level. SRG on grounds of Yale Road.
2nd	43° 08'	82° 40'		799'	0.1 mile S of Yale PO	Yale	SRG on top in observer's view, garage to SE of SRG, residence to S, trees to N. SRG on SW of 15' high shed, and 40' N of 35' residence of observer. No trees in immed. vic.
4th	43° 08'	82° 40'	Sec. 15 Twp. 154E	600'	0.5 miles SE of Yale PO	Yale	SRG on lawn, trees to SE & W. SRG above top of 40' bldg. SRG on top of 40' bldg. SRG on top of 40' bldg. SRG on top of 40' bldg.
5th	43° 08'	82° 48'	Sec. 10 Twp. 154E	799'	0.3 miles N of Yale PO	Yale	SRG on top of 40' bldg. SRG on top of 40' bldg. SRG on top of 40' bldg. SRG on top of 40' bldg.
6th							

(Con't)	Instruments used	Record		Observers and Dates	Remarks
		Original located	Where published		
(a)	(b)	(c)	(d)	(e)	(f)
1st	SRG	WFO, East Lansing	CD	9-19-1928 8-30-1940	Employee W. R. Roach
2nd	SRG	WFO, East Lansing	CD	1-10-1941 4-30-1948	Roy Fuller
3rd	SRG	WFO, East Lansing	CD	5-1-1948 9-18-1952	Thomas Hurd
4th	SRG	WFO, East Lansing	CD	9-19-1952 8-28-1953	Harold Inwood
5th	SRG	WFO, East Lansing	CD	8-30-1953	Employee
6th	SRG	WFO, East Lansing	CD		Yale school Mills