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MICHIGAN WEATHER SERVICE
Michigan Department Agriculture

Cooperating with the ESSA-WEATHER BUREAU
United States Department of Commerce

February 1969

May 1974
Second Printing
Appendix
(1940-1969)

MICHIGAN SNOW DEPTHS

(Revised)
February 1969

May 1974
Second Printing
Appendix
(1940-1969)

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Michigan Weather Service

Cooperating with the
United States Department of Commerce
ESSA-Weather Bureau

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Cover photo - courtesy Michigan Tourist Council

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MICHIGAN SNOW DEPTHS

An understanding of the variability, duration and causes of snow depths in Michigan is important to the planner, developer or engineer in optimizing the use and development of an area at a minimal cost.

Snowmobile trails must be placed in areas where substantial amounts of natural snow occur and remain on the ground for long periods. Ski slopes are most frequently located in the areas of heavy natural snowfall to reduce the need for artificially produced snow. Roofs must be reinforced in areas of heavy snow to carry the increased weight of the snow. The cost of road maintenance increases in areas of heavier snowfall. Timber cutting becomes more difficult and expensive during periods of heavy snow cover. Some game, particularly deer herds, find it difficult to move about and find sufficient food when a heavy snow cover accumulates and often become easy prey for other predators. The risk of flooding increases with the presence of a heavy snow cover during the spring months. Frost depth, or penetration, under a heavy snow cover is limited to a few inches of the surface soil. Survival rates for certain insects are increased by a heavy snow cover. The slow melting of the snow cover is an important source of moisture for the recharge of the soil-water supply.

Michigan, being surrounded by the Great Lakes, experiences large differences in snowfall and snow depths in relatively short distances. These rapidly changing conditions are the result of a combination of factors, the path of winter cyclones, prevailing westerly winds, transfer of lake moisture to the atmosphere, and to the topographic features of the state.

The areas experiencing the greatest depths and longest durations of substantial snow cover are located along the shores of Lake Superior and Lake Michigan. In these areas, the "Lake Snow Squalls" frequently supplement the normally expected snowfall which occurs when winter cyclones move through the Michigan area. The "Lake Snow Squalls" develop most often during the fall and early winter months when westerly winds bring very cold Arctic air over the warmer lake water surfaces. This cold air, unable to hold large quantities of water vapor, is quickly saturated by evaporation from the warmer lake surface. This warmer, lighter, saturated air near the lake surface causes the lower levels of the atmosphere to become unstable; as rising air currents cool, condensation occurs, clouds form and snow flurries and squalls often develop. The surrounding terrain, rising above the lakes, further lifts and cools the saturated air. Thus intensified, the snow squalls may produce very heavy snowfall over short distances. Heaviest snowfall during late October and November is generally well inland from the lakes. In December and January, the heavier squalls are generally close to the lake shore. The late winter snowfall is again generally heavier at the inland locations. The terrain influence is particularly noticeable in the Keweenaw Peninsula where there are abrupt rises in elevation of several hundred feet and where Michigan's heaviest average snowfall occurs. Because of the Upper Peninsula's more northerly latitude and colder climate, snow cover is likely to stay for longer periods than over southern Michigan.

Should the Great Lakes freeze over, which has happened infrequently, the "Lake Snow Squalls" would end, and the snowfall patterns would revert to those which would be expected at that latitude in a continental location; (that is, snowfall associated primarily with winter cyclones).

An estimated contribution of the "Lake Snow Squalls" can be made by comparing the annual seasonal snowfall totals at Minneapolis and St. Cloud, Minnesota, about 40 inches, with the annual averages in western lower Michigan 60-120 inches. The "Lake Snow Squalls" intensified by the abrupt rises in elevation in the Upper Peninsula result in average seasonal totals of 150-170 inches. While the difference is not as great in the western and northern sections of the Lower Peninsula, the "Lake Snow Squalls" are still a significant factor in understanding the causes of both the maximum observed snow depths and duration of the snow cover in these areas.

Southern Michigan is closer to the normal winter storm track through the Ohio River Valley and experiences warmer temperatures and alternate periods of freezing and thawing which tend to reduce snow accumulations. Rain and freezing rain are also more frequently observed over southern Michigan during the winter months. This is reflected by the annual seasonal snowfall totals which fall to less than 30 inches in portions of Lenawee, Monroe and Wayne Counties.

Figures 1 through 8 show the average number of days per winter season with snow on the ground of 1 inch or more, 6 inches or more and added increments of 5 inches up to 36 inches or more. Figure 9 shows the greatest accumulated snow depths of record in inches. The mean monthly and yearly snowfall totals for all stations in Michigan for the period 1931-60 are given in Table 1. The average annual snowfall is also indicated in Figure 10.

Fig. 1. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 1 Inch or More

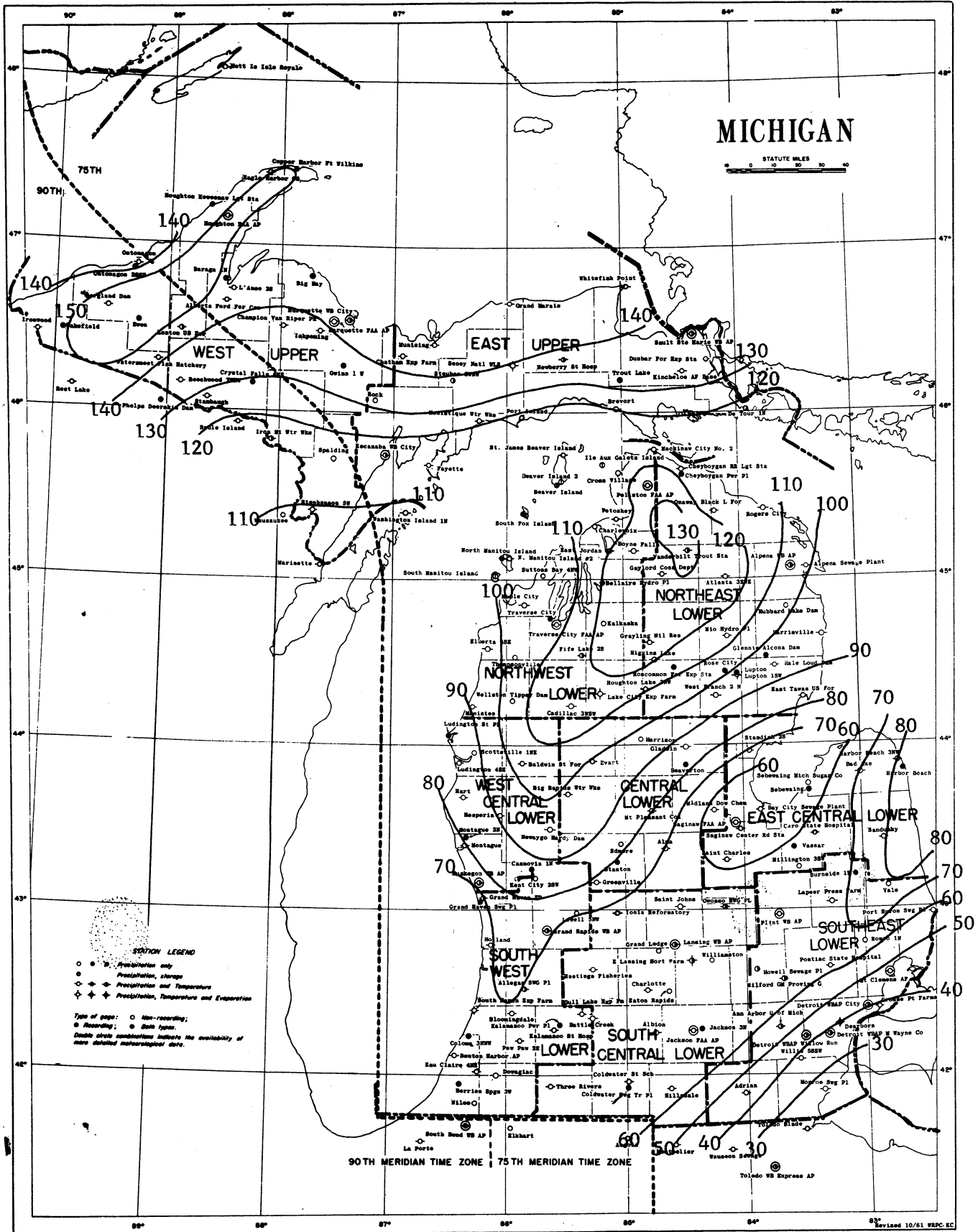


Fig. 2. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 6 Inches or More

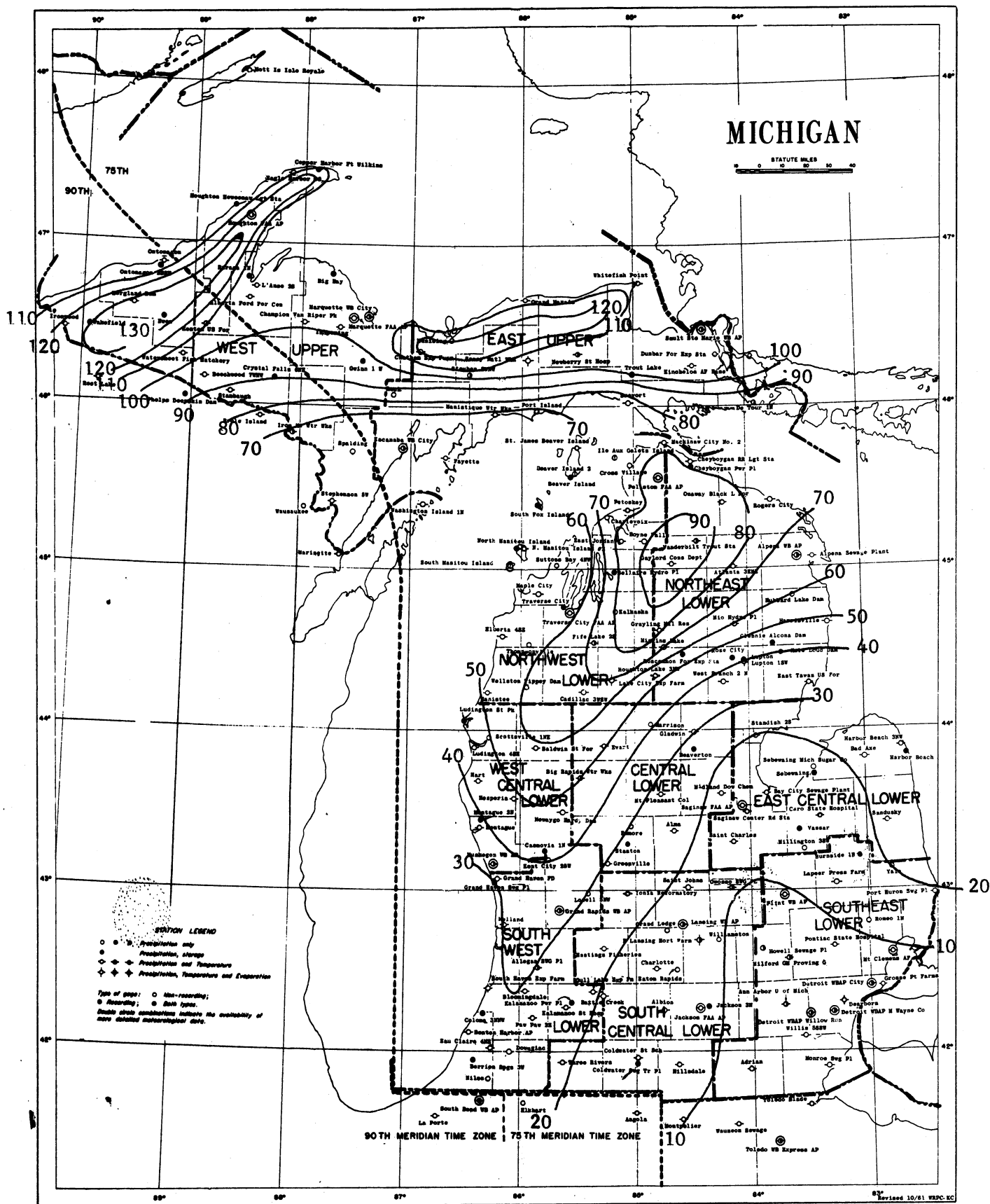


Fig. 3. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 11 Inches or More

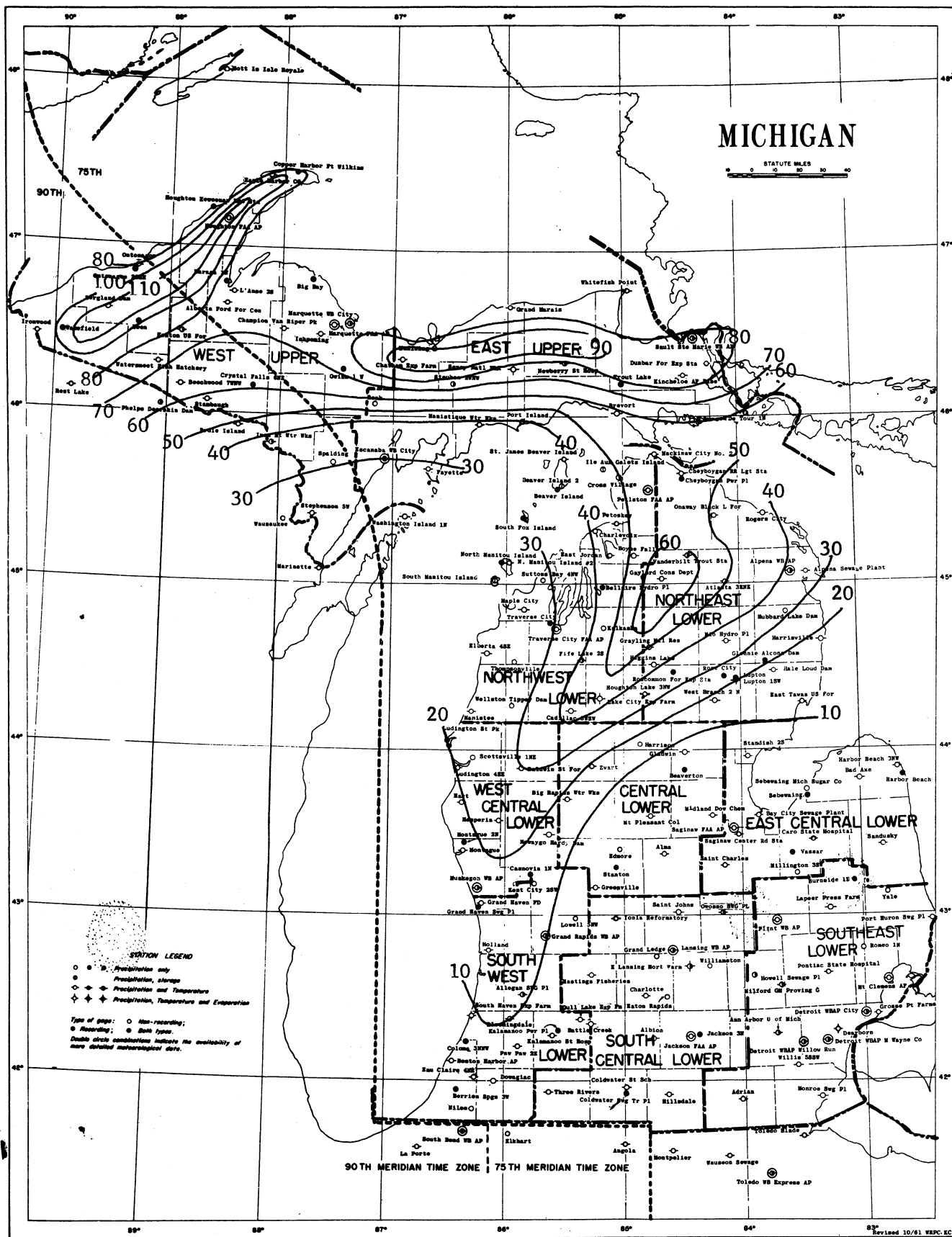


Fig. 4. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 16 Inches or More

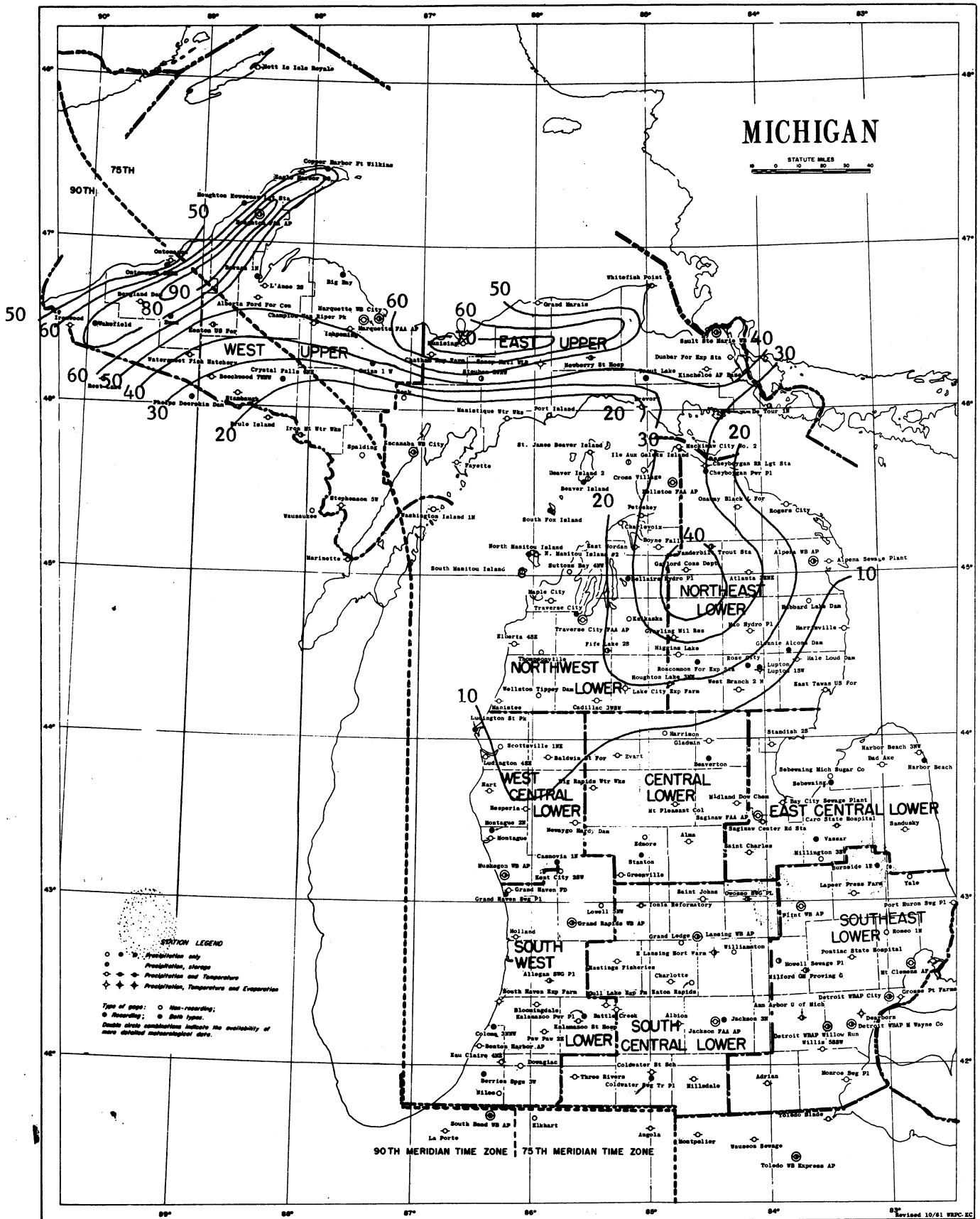


Fig. 5. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 21 Inches or More

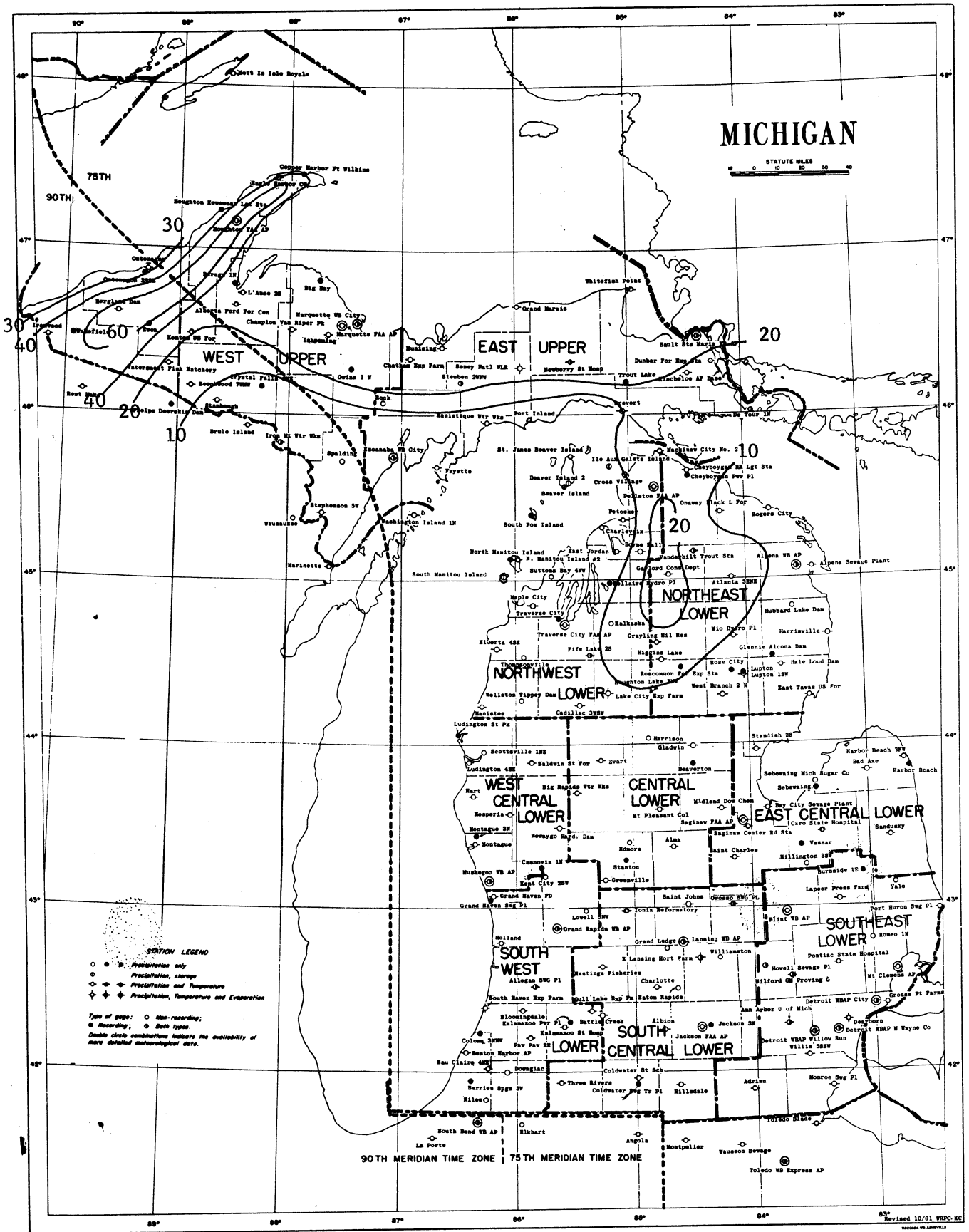


Fig. 6. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 26 Inches or More

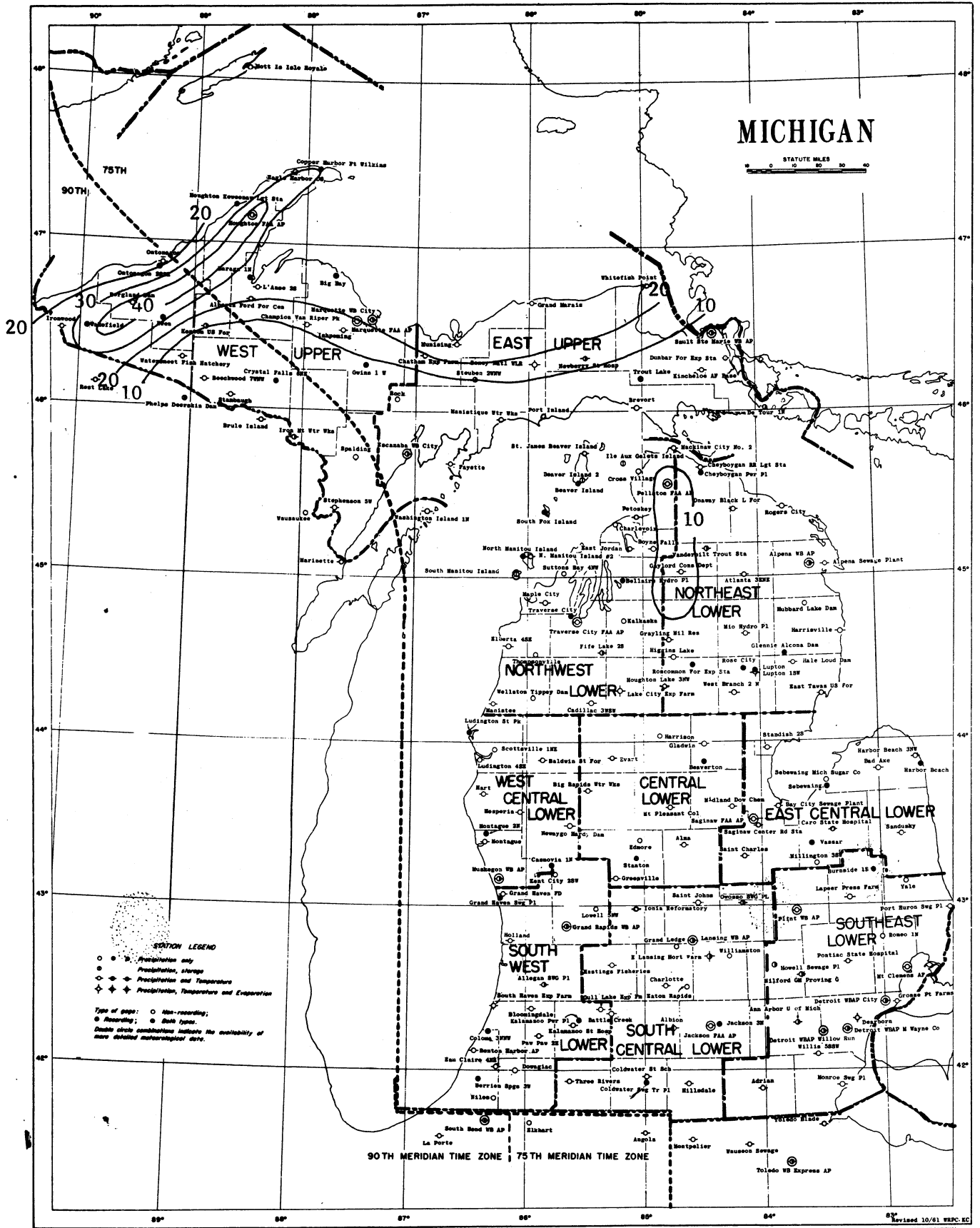


Fig. 7. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 31 Inches or More

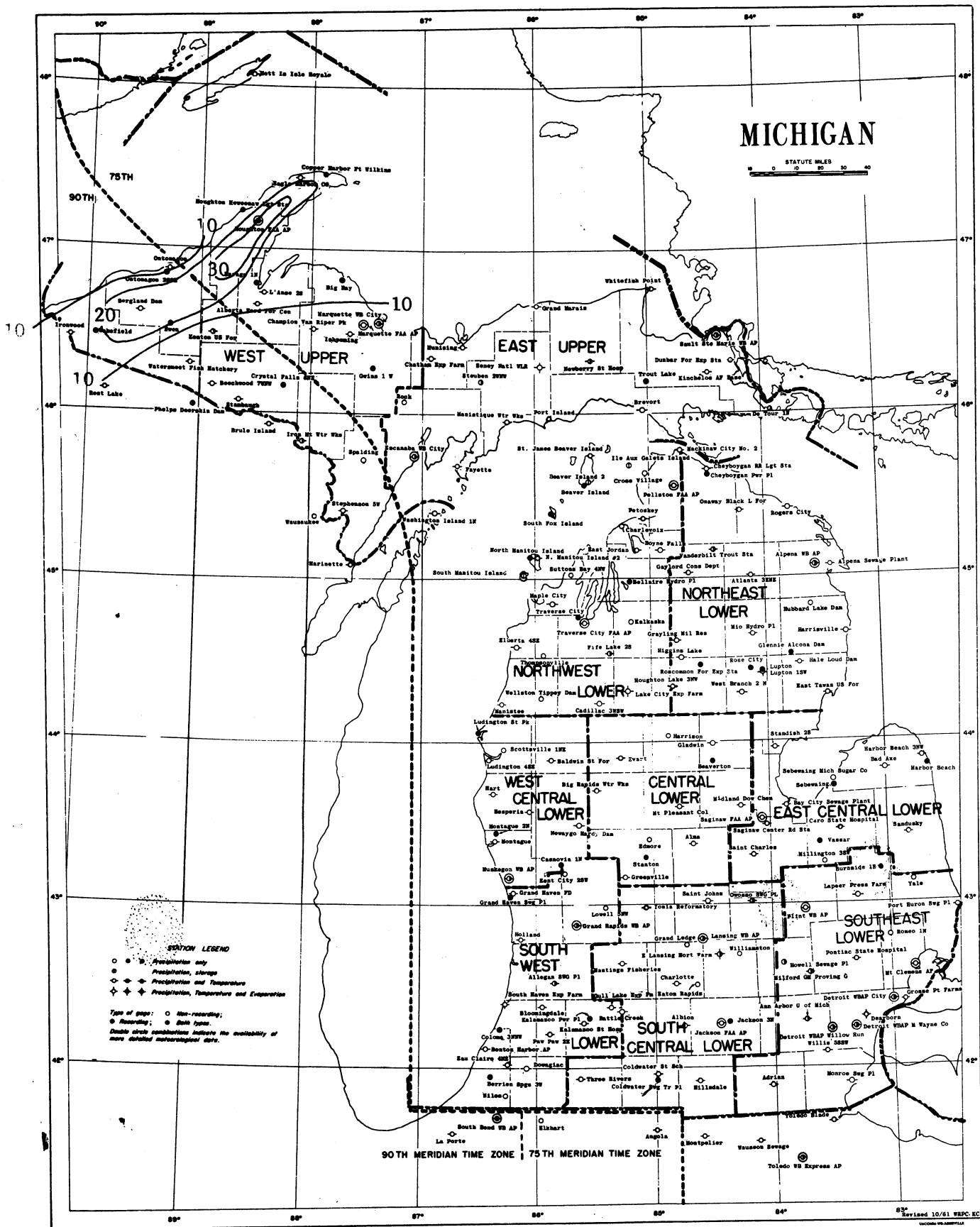


Fig. 8. Average Number of Days Per Season With Accumulated Snow Depth on the Ground of 36 Inches or More

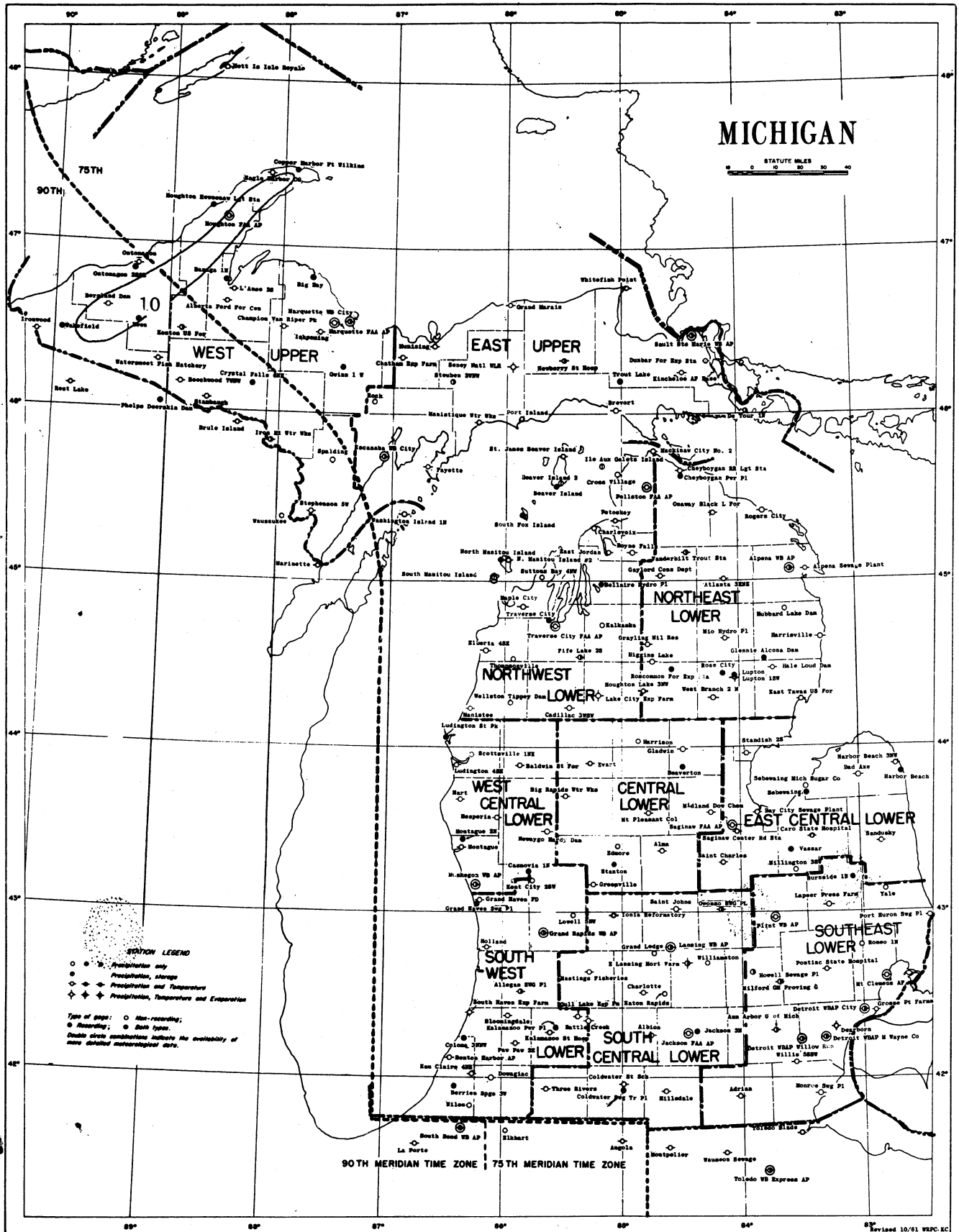


Fig. 9. Maximum Depth of Snow on the Ground (Inches)
Period of Record through 1967-68 Season

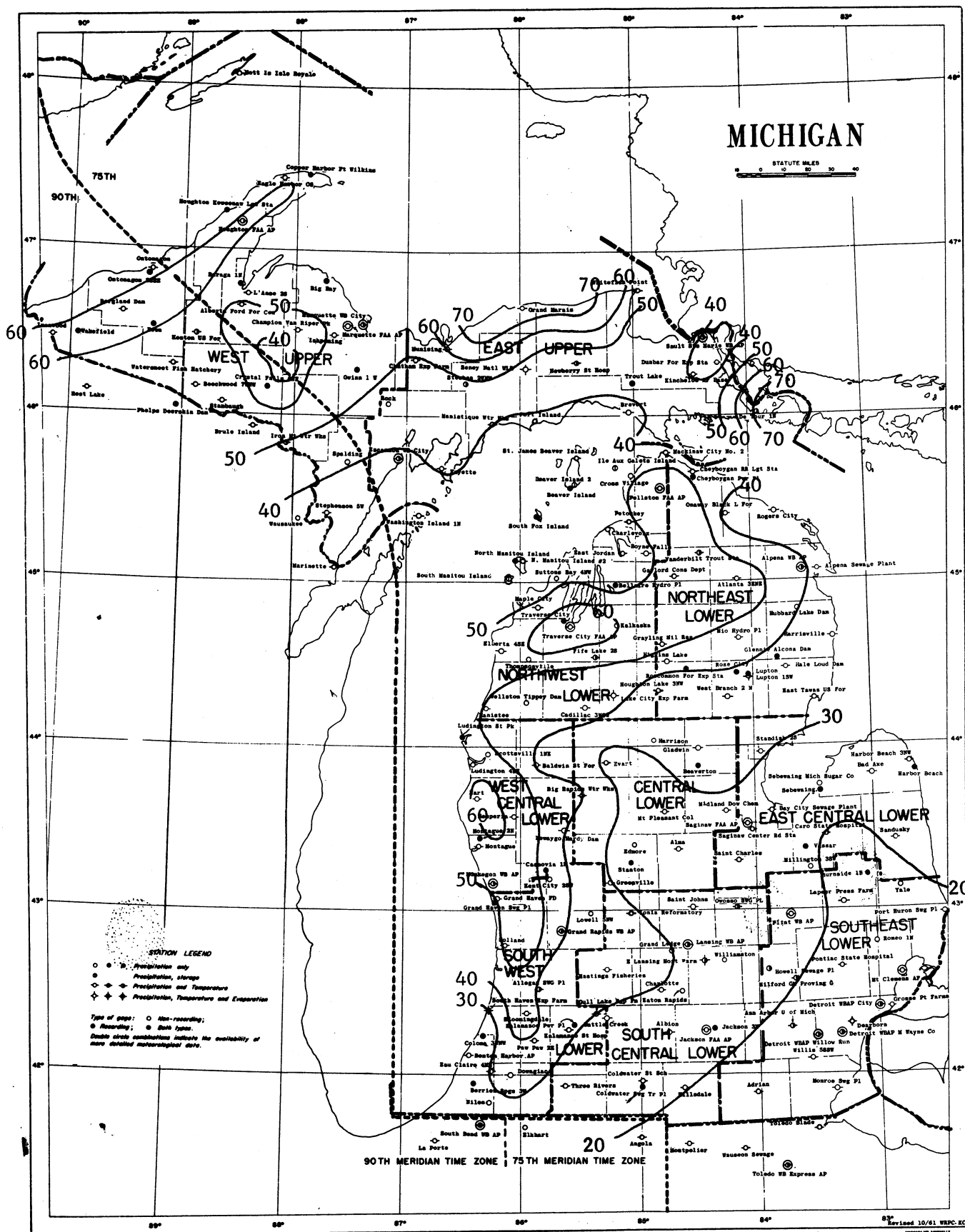


Table 1. MEAN SNOWFALL
1931-1960

Station	Jan.	Feb.	Mar.	Apr.	May	Jun	Sep	Oct	Nov.	Dec.	Annual
Adrian	6.9	6.5	4.9	.8	T		T	T	3.1	5.9	28.1
Albion	10.9	10.3	8.1	2.0	.1	T	T	.2	5.7	9.0	46.3
Allegan	15.1	10.8	7.9	.9	T		T	.1	7.1	11.1	53.0
Alma	9.5	8.6	6.5	1.6	.1			.2	3.1	7.2	36.8
Alpena Sewage	16.7	13.3	10.8	3.6	.3		T	.3	6.2	13.6	64.8
Alpena WBAS	16.1	13.2	12.3	3.3	.2	T	T	.6	6.0	13.7	65.4
Ann Arbor	7.2	7.1	5.7	1.2	.1	T		.1	3.0	5.8	30.2
Atlanta	14.5	11.8	10.2	3.1	.1	T	T	.9	6.2	12.9	59.7
Bad Axe	11.5	12.8	6.8	2.5	.1		T	.5	4.8	9.3	48.3
Baldwin	17.8	12.7	9.7	1.5	.1	T	T	.2	9.5	13.1	64.6
Battle Creek	9.5	8.8	7.0	1.4	T	T	T	.1	4.8	8.0	39.6
Bay City	9.8	9.1	5.0	.8	T	T		.1	3.0	6.9	34.7
Benton Harbor	12.0	10.6	6.6	.6	T			.4	3.6	11.6	45.4
Bergland Dam	34.6	29.4	24.5	12.1	2.2	.1	T	2.2	28.2	32.9	166.2
Big Rapids	15.3	12.6	9.2	1.3	.1	T	T	.1	5.0	10.5	54.6
Bloomington	17.4	12.9	9.2	2.3	.1	T	T	.8	9.5	16.5	68.7
Cadillac	14.3	12.3	12.3	4.5	.2	T	.1	1.3	7.9	12.5	65.4
Caro	7.7	7.7	5.1	1.1	T	T		.1	3.3	6.3	31.3
Champion Van Riper	22.5	21.2	22.7	10.8	1.4	.1	.2	2.4	22.7	25.7	129.7
Charlevoix	20.3	15.7	13.2	2.7	.1	T	T	.1	9.3	17.1	78.5
Charlotte	8.1	7.0	5.6	1.4	T			T	3.7	5.6	31.4
Chatham	21.1	16.6	13.1	6.8	.9	T	T	2.4	14.4	20.3	95.6
Cheboygan	18.6	13.9	12.8	4.3	.2	T	T	.8	6.8	16.0	73.4
Coldwater	7.3	7.4	6.1	1.6	T		T	T	4.3	6.5	33.2
Crystal Falls	14.0	12.5	14.9	6.5	.7	T	.1	.6	11.0	14.0	74.3
Detour	20.5	14.7	14.6	5.0	T		T	1.2	8.0	15.2	79.2
Detroit City WBAS	7.9	7.5	6.0	1.2	T			T	3.4	6.2	32.2
Detroit Willow Run	8.2	6.6	4.9	1.1	T			T	3.5	6.6	30.9
Dunbar	23.9	16.5	15.3	4.3	.3	T	.2	.6	12.0	25.5	98.6
East Jordan	21.4	13.2	10.4	2.8	.2		T	.5	11.1	20.2	79.8
East Tawas	10.9	10.4	7.2	1.7	.1	T	T	.1	3.8	8.5	42.7
Eaton Rapids	9.5	7.4	6.1	1.2	T	T	T	T	4.3	6.3	34.8
Eau Claire	11.0	9.2	5.6	1.2	T	T	T	.5	6.2	11.3	45.0
Elberta	18.2	15.4	9.0	2.8	.1	T	T	.2	7.1	15.9	68.7
Escanaba WB City	13.8	11.3	10.1	2.9	.2		T	.2	5.3	10.6	54.4
Evart	11.6	10.1	6.9	1.1	T	T	T	.1	5.2	9.9	44.9
Fayette	19.4	16.7	13.9	5.2	.6	T	T	.4	7.8	15.4	79.4
Fife Lake	22.1	15.9	13.7	4.0	.1	T	.2	1.3	11.0	17.3	85.6
Flint WBAS	10.1	9.1	6.7	1.7	T			T	3.9	7.2	38.7
Gaylord	27.0	19.8	20.3	6.5	.5	T	.2	2.0	18.0	27.5	121.8

MEAN SNOWFALL
1931-1960

Station	Jan.	Feb.	Mar.	Apr.	May	Jun	Sep	Oct	Nov.	Dec.	Annual
Gladwin	11.2	10.0	6.8	2.0	.1		T	.3	3.7	8.6	42.7
Grand Haven	17.4	12.6	9.1	1.2	T	T	T	.2	7.8	13.5	61.8
Grand Ledge	9.9	8.8	6.0	.8	T	T	T	.1	5.0	7.0	37.6
Grand Marais	25.5	19.2	15.5	5.0	.5	T	T	.9	15.0	23.8	105.4
Grand Rapids WBAS	16.5	13.2	11.0	2.3	.1		T	.1	7.8	13.3	64.3
Grayling	19.8	14.5	13.7	4.6	.4	T	T	1.2	11.7	18.0	83.9
Greenville	11.0	9.7	8.9	1.3	T		T	T	4.3	9.1	44.3
Gull Lake	10.7	9.1	7.0	1.2	T	T	T	.1	5.2	8.2	41.5
Hale Loud Dam	11.8	10.0	9.9	2.4	.3	T	T	.2	4.9	9.1	48.6
Harbor Beach	13.3	12.6	8.4	2.7	T	T	T	.6	5.7	11.1	54.4
Harrison	15.6	13.2	11.0	3.0	T	T	.1	.2	5.5	10.6	59.2
Harrisville	15.4	14.5	10.3	2.2	.1	T	T	.2	5.2	11.8	59.7
Hart	22.1	15.7	9.5	1.1	.1		T	.3	7.5	15.5	71.8
Hastings	8.8	8.8	7.9	1.7	T		T	T	4.3	7.8	39.3
Hesperia	21.6	15.3	11.0	1.8	.1	T	T	.1	7.5	14.4	71.8
Higgins Lake	13.5	10.9	10.7	3.2	.2		.1	.9	7.5	11.9	58.9
Hillsdale	10.2	10.1	7.7	2.1	.1	T	T	.1	5.7	9.5	45.5
Holland	18.4	13.8	9.6	1.1	T		T	.5	8.1	15.8	67.3
Houghton	45.7	26.3	25.3	6.6	1.8		T	2.1	26.2	41.9	175.9
Houghton Lake	13.0	10.8	10.6	1.9	.2	T	.1	.7	5.8	9.7	52.8
Howell	8.9	7.9	5.1	1.7	.1		T	.2	3.5	6.3	33.7
Ionia	10.2	8.8	7.1	.6	T	T	T	T	4.1	7.1	37.9
Iron Mountain	14.6	12.1	10.3	4.5	.2	T	T	.6	7.0	12.4	61.7
Ironwood	25.6	23.3	18.7	10.6	1.4	T	.1	3.6	22.6	25.1	131.0
Ishpeming	18.5	17.1	15.4	9.2	1.1	.2	T	3.1	15.7	16.6	96.9
Jackson	8.2	8.0	7.0	1.2	T			T	3.8	7.0	35.2
Kalamazoo	15.6	12.8	9.6	1.9	T		T	.3	8.0	10.9	59.1
Kalkaska	28.8	20.2	15.7	4.0	T	T	T	1.7	15.1	24.7	110.2
Kent City	10.9	9.8	8.3	1.4	.1	T	T	.1	5.9	9.5	46.0
Kenton	16.2	12.4	13.4	5.7	.8	T	.3	.9	16.6	16.7	83.0
Kincheloe AFB	19.9	14.7	17.5	4.8	.7	T	T	1.5	10.2	20.0	89.3
Lake City	14.7	11.7	11.8	4.2	.3	T	T	1.5	8.5	12.0	64.7
L'Anse	18.9	17.4	13.3	5.9	.9	T	.3	.9	14.7	17.1	89.4
Lansing WBAS	10.0	9.9	8.1	2.6	T	T	T	.1	4.7	8.8	44.2
Lapeer	8.7	8.8	7.2	1.5	T	T	T	.2	3.6	7.1	37.1
Lowell	11.6	10.4	9.9	1.6	T	T	T	T	5.9	9.5	48.9
Ludington	18.9	14.0	8.2	2.0	.1		T	.8	7.3	13.3	64.6
Mackinaw City	16.9	13.7	11.5	2.8	T		T	.4	6.9	14.5	66.7
Manistee	21.3	15.4	10.1	1.8	.1	T	T	.1	8.1	15.5	72.4
Manistique	14.8	12.5	12.9	3.3	.5	T	.1	1.2	7.8	12.9	66.0

MEAN SNOWFALL
1931-1960

Station	Jan.	Feb.	Mar.	Apr.	May	Jun	Sep	Oct	Nov.	Dec.	Annual
Marquette WB City	20.2	18.8	15.6	9.9	1.0	T	.1	2.5	16.5	19.7	104.3
McBrides	13.2	10.2	9.2	1.6	.1		T	.3	6.5	9.3	50.4
Midland	8.6	8.6	5.8	1.2	T		T	.1	3.5	5.9	33.7
Milford	9.3	9.2	7.7	2.6	.2	T	T	.3	5.2	8.2	42.7
Millington	9.0	8.2	6.8	1.3	T	T	T	.3	3.7	7.2	36.5
Mio	12.8	11.3	11.1	3.1	.4	T	.1	.7	5.8	10.0	55.3
Monroe	6.5	6.5	5.6	1.0	T		T	T	3.0	6.3	28.9
Mt. Clemens	7.8	7.7	6.0	1.1	T			T	2.9	6.2	31.7
Mt. Pleasant	8.2	6.9	5.0	1.5	.1	T	T	.2	3.2	5.8	30.9
Munising	31.0	23.0	17.4	8.8	.8	T	.1	3.1	20.3	29.7	134.2
Muskegon WBAS	19.5	13.0	9.6	1.4	T		T	.1	7.3	13.7	64.6
Newaygo	14.8	11.5	9.1	1.5	.2		T	.3	5.5	11.3	54.2
Newberry	22.8	18.8	14.4	4.5	.2	T	T	1.5	11.6	21.3	95.1
Niles	12.9	12.8	6.1	1.8	T	T	T	.4	8.0	14.2	56.2
Onaway	16.9	12.8	10.3	3.5	.1	T	T	.7	7.4	14.3	66.0
Ontonagon	28.2	16.1	14.1	5.4	.7	T	.1	1.2	14.2	25.8	105.8
Owosso	8.8	8.9	7.5	1.9	T	T	T	.1	3.6	6.9	37.7
Paw Paw	14.8	13.7	9.4	2.1	.1		T	.4	8.8	14.4	63.7
Pellston	21.5	16.4	15.6	4.2	.4	T	T	1.4	13.5	23.8	96.8
Petoskey	19.4	13.1	9.8	1.6	T			T	6.6	19.8	70.3
Pontiac	8.4	7.9	6.3	1.3	T	T		.1	3.4	6.8	34.2
Port Huron	8.9	7.6	7.3	.6	T	T	T	.3	3.6	7.6	35.9
Rock	15.0	13.5	15.0	5.9	.5	T	T	1.0	9.8	15.6	76.3
Rogers City	17.6	15.8	11.2	3.6	.1		T	.4	7.4	18.5	74.6
Romeo	9.8	8.7	5.9	1.1	T	T	T	.1	4.1	6.1	35.8
Saginaw	8.8	9.5	6.7	1.8	.1	T	T	.3	4.3	8.1	39.6
St. Charles	9.3	10.2	7.3	1.1	.1		T	.1	4.1	7.5	39.7
St. Johns	9.5	8.2	6.7	1.7	T	T		.1	4.2	6.8	37.2
Sandusky	12.0	11.3	8.6	1.4	.1	T	T	.2	4.7	9.9	48.2
Sault Ste Marie WBO	22.5	16.9	14.3	4.4	.3	T	.1	2.0	13.8	23.6	97.9
Scottville	18.8	14.2	9.0	1.9	.1	T	T	.5	7.2	14.8	66.5
Sebewaing	7.3	8.0	5.4	1.3	T		T	.2	3.0	5.5	30.7
Seney	27.5	21.6	17.3	4.7	.8		T	.7	15.0	27.7	115.3
South Haven	10.9	10.1	7.1	.8	T		T	.2	4.2	10.9	44.2
Spalding	12.1	10.3	10.1	4.5	.1	T	T	.3	6.2	10.0	53.6
Stambaugh	14.5	12.9	11.4	5.9	1.0	T	.1	1.2	10.9	13.3	71.2
Standish	11.7	10.0	6.3	.7	T			.6	4.4	8.2	41.9
Stephenson	12.4	11.5	11.8	4.0	.4	T	T	.1	6.2	11.1	57.5
Steuben	25.7	21.0	17.1	6.7	.5	T	T	1.2	13.1	21.7	107.0
Suttons Bay	24.9	18.1	15.3	3.7	.4	T	T	.2	8.3	20.8	91.7

MEAN SNOWFALL
1931-1960

Station	Jan.	Feb.	Mar.	Apr.	May	Jun	Sep	Oct	Nov.	Dec.	Annual
Thompsonville	30.5	19.1	16.0	3.3	.1		T	.3	13.1	23.8	106.2
Three Rivers	6.9	6.6	5.5	.8	T	T	T	T	4.0	8.6	32.4
Traverse City	19.8	14.0	12.7	2.6	.1	T	T	.4	7.7	16.5	73.8
Vanderbilt	18.6	14.4	13.0	3.9	.2	T	.1	1.3	9.6	18.8	79.9
Watersmeet	14.6	12.6	12.0	6.2	1.1	T	.2	2.0	16.6	14.8	80.1
Wellston	20.9	14.8	11.2	3.0	.2	T	T	.6	9.6	17.5	77.8
West Branch	11.9	11.6	9.9	2.1	.1		T	.4	5.9	9.9	51.8
Whitefish Point	26.5	14.9	14.7	3.1	.3		T	1.1	12.1	24.2	96.9
Willis	7.3	7.1	6.1	1.4	T			T	3.8	6.6	32.3
Yale	8.0	8.0	6.4	1.7	T	T	T	.1	2.2	6.6	33.0

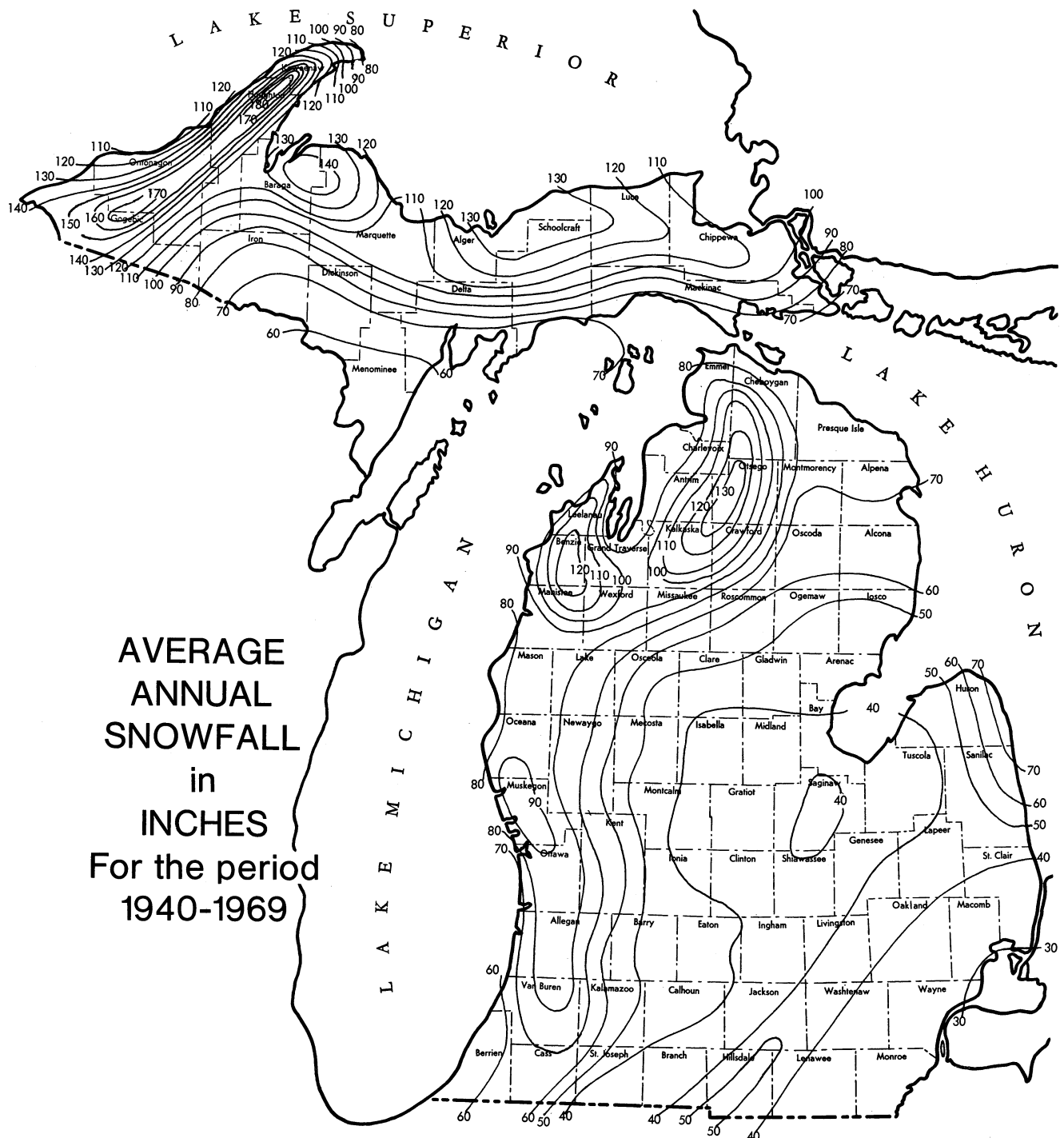
Appendix.

MEAN SNOWFALL
1940-1969

STATION	JAN	FEB	MAR	APR	MAY	JUNE	SEP	OCT	NOV	DEC	ANNUAL
Adrian	6.9	7.3	5.5	1.0	T	0	0	T	3.0	6.6	30.3
Allegan	20.7	12.5	9.2	1.0	T	0	T	.7	7.7	15.1	66.9
Alma	11.3	8.6	7.0	1.3	T	0	0	.2	3.5	7.0	38.9
Alpena City	17.2	13.4	10.6	3.1	.2	0	T	.3	7.1	14.4	66.3
Ann Arbor	7.3	6.6	5.4	1.1	.1	0	0	T	3.0	6.0	29.5
Atlanta	15.9	12.2	10.1	2.9	T	0	T	.5	7.9	13.5	63.0
Bad Axe	12.6	12.7	7.4	1.8	.1	0	0	.8	5.6	9.8	50.8
Battle Creek	11.0	9.4	7.3	1.7	T	0	T	.1	5.5	9.4	44.4
Bay City	11.3	9.3	5.8	.5	T	0	0	.2	3.8	7.8	38.7
Benton Harbor	17.0	13.2	6.5	1.0	T	0	0	.4	4.5	15.6	58.2
Big Rapids	18.7	13.3	10.2	1.4	T	0	T	.5	5.7	12.4	62.2
Bloomington	22.2	15.9	10.0	2.4	.1	0	T	1.3	10.0	20.2	82.1
Cadillac	16.9	12.7	12.0	4.4	.1	T	.1	.9	9.3	14.8	71.2
Caro	9.0	7.7	5.4	1.0	T	0	0	.2	3.9	6.9	34.1
Champion	23.8	22.2	23.7	8.3	1.7	0	T	3.8	24.8	30.6	138.9
Charlotte	10.5	8.1	6.3	1.4	T	0	T	.2	4.2	7.6	38.3
Chatham	25.2	23.0	14.4	6.3	1.1	T	.1	1.9	16.7	26.9	115.6
Cheboygan	19.1	13.4	13.4	3.6	.3	0	T	.9	7.2	17.1	75.0
Coldwater	7.8	8.7	6.8	1.8	.1	0	.1	.1	5.1	7.9	38.4
Dowagiac	16.6	13.9	8.5	1.2	T	0	T	.3	7.4	15.4	63.3
Dunbar Forest	22.9	16.8	13.5	3.7	.3	0	.2	1.7	12.1	25.0	96.2
East Jordan	25.4	13.7	9.9	2.3	.2	0	0	.9	11.9	22.7	87.0
East Lansing	10.0	8.6	6.4	1.5	T	0	T	.1	4.0	8.2	38.8
East Tawas	12.4	9.7	8.2	1.4	T	0	T	.1	3.9	8.2	43.9
Eau Claire	15.1	12.2	6.2	1.6	T	0	0	.7	6.4	13.8	56.0
Escanaba	12.3	9.9	9.5	2.8	.2	0	T	.1	4.8	11.1	50.7
Fayette-Sack Bay	17.6	14.0	12.2	4.4	.6	0	T	.2	6.2	14.9	70.1
Fife Lake	24.9	18.5	14.4	4.7	.1	0	.2	1.3	13.5	21.5	99.1
Gaylord	31.0	21.2	18.9	7.0	.9	0	.1	2.7	21.6	32.8	136.2
Gladwin	12.7	10.4	7.3	1.8	T	0	T	.3	4.3	9.8	46.6
Grand Haven	19.7	12.4	8.2	.9	T	0	T	.4	7.1	16.7	65.4
Grand Marais	32.4	24.0	16.0	5.6	.6	T	T	1.1	16.1	30.3	126.1
Grayling	22.8	15.4	14.7	4.9	.4	T	T	1.2	13.2	20.5	93.1
Greenville	12.8	9.1	7.7	1.4	T	0	0	.2	4.5	9.0	44.7
Gull Lake	12.7	10.8	7.4	1.1	T	0	T	.2	5.7	10.1	48.0
Hale Loud Dam	11.8	10.1	10.5	2.6	.1	0	T	.2	5.0	9.5	49.8
Harbor Beach	17.9	16.7	10.5	2.8	.4	0	T	.9	6.8	16.1	72.1
Harrisville	15.9	14.5	11.3	2.0	.1	0	0	.2	5.0	12.2	61.2
Hart	29.6	18.6	10.0	1.8	T	0	T	.5	7.7	20.9	89.1
Hastings	11.6	9.6	8.2	1.5	T	0	T	.3	5.4	9.5	46.1

STATION	JAN	FEB	MAR	APR	MAY	JUNE	SEP	OCT	NOV	DEC	ANNUAL
Hesperia	24.6	13.3	9.6	1.9	T	0	0	.3	6.3	17.4	73.4
Higgins Lake	17.6	12.4	11.6	2.8	T	0	.1	1.0	9.7	14.7	69.9
Hillsdale	11.2	11.5	9.4	2.1	.1	0	.1	.1	6.4	11.8	52.7
Holland	24.6	17.2	10.5	1.5	.1	0	T	.8	8.4	21.1	84.2
Houghton-Calumet	50.1	30.7	22.6	7.4	1.5	.1	.2	2.5	23.6	44.5	183.2
Ionia	10.9	8.1	7.0	1.0	T	0	T	.3	4.4	8.0	39.7
Iron Mountain	12.8	11.0	10.5	4.2	.3	T	.1	.2	7.0	12.9	59.0
Ironwood	26.8	22.9	21.0	10.6	1.8	T	.1	3.5	25.1	30.1	141.9
Ishpeming	19.5	19.3	16.2	7.6	1.4	.2	T	2.1	17.0	21.1	104.4
Jackson	8.7	7.9	7.0	1.4	T	0	T	T	4.1	6.9	36.0
Kalamazoo	18.0	14.9	10.7	2.3	T	0	0	.8	9.0	14.0	69.7
Kenton U.S. Forest	18.7	14.1	14.2	5.8	.7	T	.2	1.7	16.4	19.8	91.6
Lake City	15.9	12.5	11.9	4.3	.2	T	T	1.0	10.3	13.1	69.2
Lapeer	9.8	10.3	8.0	2.1	T	0	0	.4	4.7	7.4	42.7
Ludington	22.6	15.3	7.8	1.8	T	0	T	.4	7.1	17.0	72.0
Mackinaw City	18.7	14.0	12.6	3.2	T	0	T	.4	7.6	17.1	73.6
Manistee	26.9	17.5	9.7	1.6	T	0	T	.2	7.3	18.5	81.7
Manistique	16.6	13.9	11.2	3.5	.3	0	.1	1.0	8.1	16.4	71.1
Midland	10.3	8.7	5.9	1.0	T	0	T	.4	3.4	6.6	36.3
Milford	10.1	9.7	7.6	2.6	.2	0	T	.2	4.8	8.6	43.8
Mio	14.7	11.6	12.1	3.4	.2	0	.1	.6	7.2	11.8	61.7
Monroe	6.6	7.5	6.0	.9	T	0	0	T	2.5	7.2	30.7
Mount Clemens	7.8	6.8	5.1	.9	T	0	0	T	2.8	6.6	30.0
Mt. Pleasant	9.5	7.2	5.1	1.3	T	0	T	.2	3.7	6.1	33.1
Munising	33.6	25.7	15.8	8.1	.8	T	.2	1.9	18.1	33.7	137.9
Newaygo Hardy Dam	16.5	11.3	9.2	1.8	.1	0	T	.4	5.8	11.9	57.0
Newberry	24.6	19.9	14.3	4.1	.4	T	.1	1.2	13.3	25.3	103.2
Onaway State Park	19.4	14.2	11.5	3.6	.1	T	.1	.6	9.0	15.9	74.4
Ontonagon	28.2	15.9	12.4	4.8	.7	T	.1	.9	14.7	26.5	104.2
Owosso	10.2	9.4	7.2	1.6	T	0	0	.2	3.6	7.4	39.6
Paw Paw	19.0	15.9	9.8	2.1	.1	0	T	1.1	9.2	17.6	74.8
Pellston	24.8	16.0	14.7	3.5	.3	0	T	1.8	13.0	24.1	98.2
Pontiac	8.0	7.3	6.0	.9	T	0	0	.1	3.2	6.8	32.3
Port Huron	9.6	7.7	5.9	.9	T	0	0	.3	3.9	7.6	35.9
Saginaw	10.4	9.7	6.7	1.4	T	0	T	.2	4.5	8.7	41.6
St. Johns	10.2	8.1	6.1	1.8	T	0	0	.2	4.1	6.9	37.4
Sandusky	12.1	10.9	8.9	2.4	.2	0	T	.3	4.4	10.2	49.4
Seney	30.8	23.0	14.3	3.8	.6	0	.1	.8	17.2	32.5	123.1
South Haven	13.8	11.9	8.1	1.1	T	0	0	.4	4.5	12.9	52.7
Stambaugh	13.5	11.4	11.4	5.9	1.2	T	.1	1.0	11.2	14.4	70.1

STATION	JAN	FEB	MAR	APR	MAY	JUNE	SEP	OCT	NOV	DEC	ANNUAL
Standish	11.6	10.0	7.2	1.2	T	0	0	.1	4.1	8.3	42.5
Three Rivers	7.0	7.6	5.7	1.1	T	0	0	.2	4.2	8.4	34.2
Traverse City	23.3	16.4	13.2	2.6	.1	0	T	.5	9.9	18.6	84.6
Vanderbilt	25.0	16.2	14.6	4.3	.3	T	.1	1.2	12.6	22.8	97.1
Watersmeet	17.9	13.8	13.5	6.1	.9	0	.2	2.4	17.4	21.1	93.3
West Branch	13.6	12.5	9.7	2.2	T	0	T	.2	6.2	11.1	55.5
Willis	7.9	7.5	6.4	1.3	T	0	T	T	3.7	7.1	33.9



AVERAGE ANNUAL SNOWFALL in INCHES For the period 1940-1969