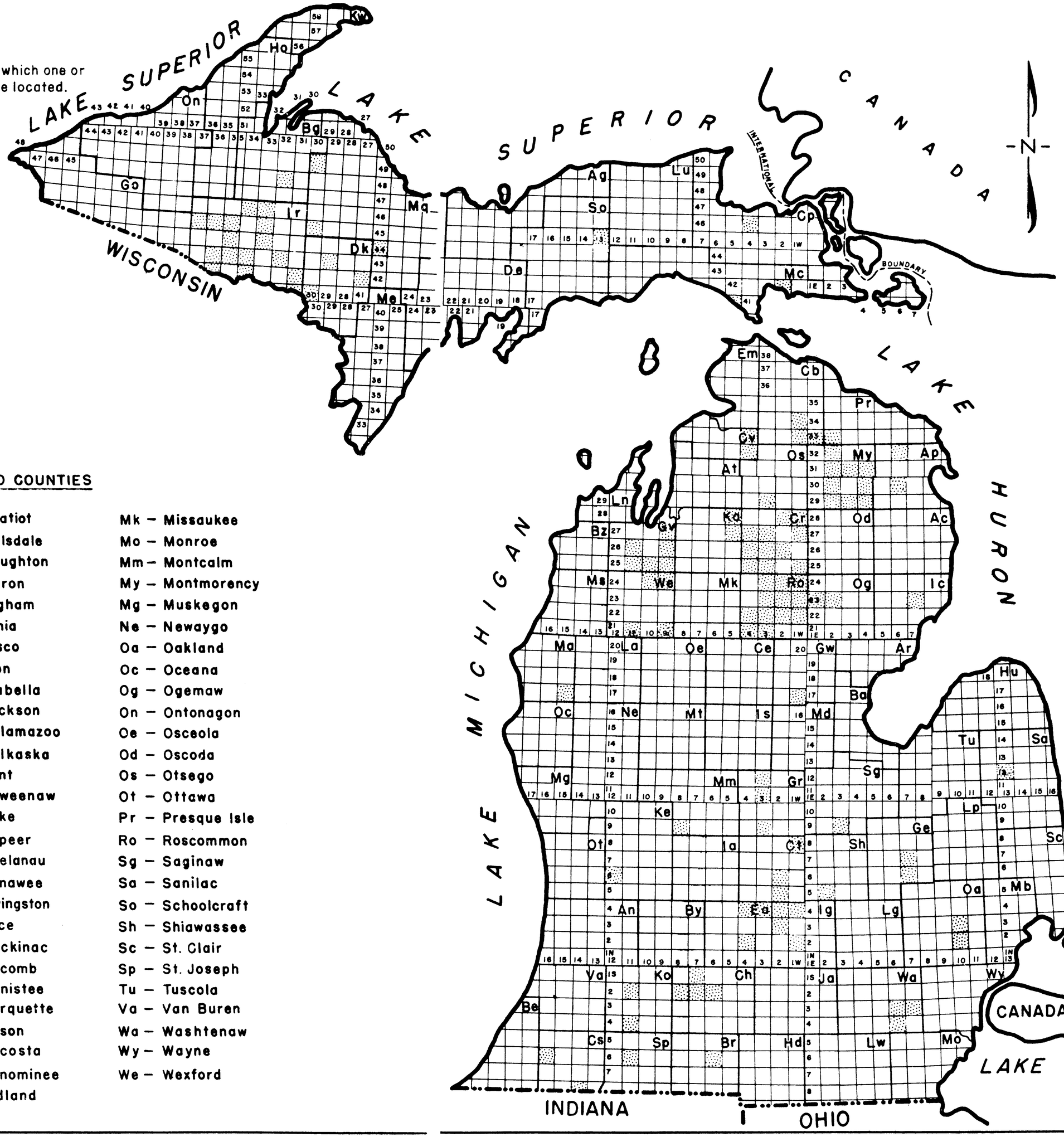
EXPLANATION

Geographical townships in which one or more observation wells are located.

0 10 25 50 Miles



INDEX TO COUNTIES

Ac – Alcona	Gr – Gratiot	Mk – Missaukee
Ag – Alger	Hd – Hillsdale	Mo – Monroe
An – Allegan	Ho – Houghton	Mm – Montcalm
Ap – Alpena	Hu – Huron	My – Montmorency
At – Antrim	Ig – Ingham	Mg – Muskegon
Ar – Arenac	Ia – Ionia	Ne – Newaygo
Bg – Baraga	Ic – Iosco	Oa – Oakland
By – Barry	Ir – Iron	Oc – Oceana
Ba – Bay	Is – Isabella	Og – Ogemaw
Bz – Benzie	Ja – Jackson	On – Ontonagon
Be – Berrien	Ko – Kalamazoo	Oe – Osceola
Br – Branch	Ka – Kalkaska	Od – Oscoda
Ch – Calhoun	Ke – Kent	Os – Otsego
Cs – Cass	Kw – Keweenaw	Ot – Ottawa
Cv – Charlevoix	La – Lake	Pr – Presque Isle
Cb – Cheboygan	Lp – Lapeer	Ro – Roscommon
Cp – Chippewa	Ln – Leelanau	Sg – Saginaw
Ce – Clare	Lw – Lenawee	Sa – Sanilac
Ct – Clinton	Lg – Livingston	So – Schoolcraft
Cr – Crawford	Lu – Luce	Sh – Shiawassee
De – Delta	Mc – Mackinac	Sc – St. Clair
Dk – Dickinson	Mb – Macomb	Sp – St. Joseph
Ea – Eaton	Ms – Manistee	Tu – Tuscola
Em – Emmet	Mq – Marquette	Va – Van Buren
Ge – Genesee	Ma – Mason	Wa – Washtenaw
Gw – Gladwin	Mt – Mecosta	Wy – Wayne
Go – Gogebic	Me – Menominee	We – Wexford
Gv – Grand Traverse	Md – Midland	

96050

Water level in feet below land-surface datum

1
2
3
4
5

Well: 2N 2W 20-1
Depth: 14 feet

16
17
18

Well: 6N 2W 16-1
Depth: 23 feet

49
50
51
52
53

Well: 8S 14W 17-1
Depth: 55 feet

Departure in inches Elevation in feet above mean tide at New York City

582
581
580
579
578

Lake Michigan - Huron

20
10
0

Cumulative departure of precipitation

1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Well: 43N 35W 20-1
Aquifer: Glacial drift
Depth: 48 feet

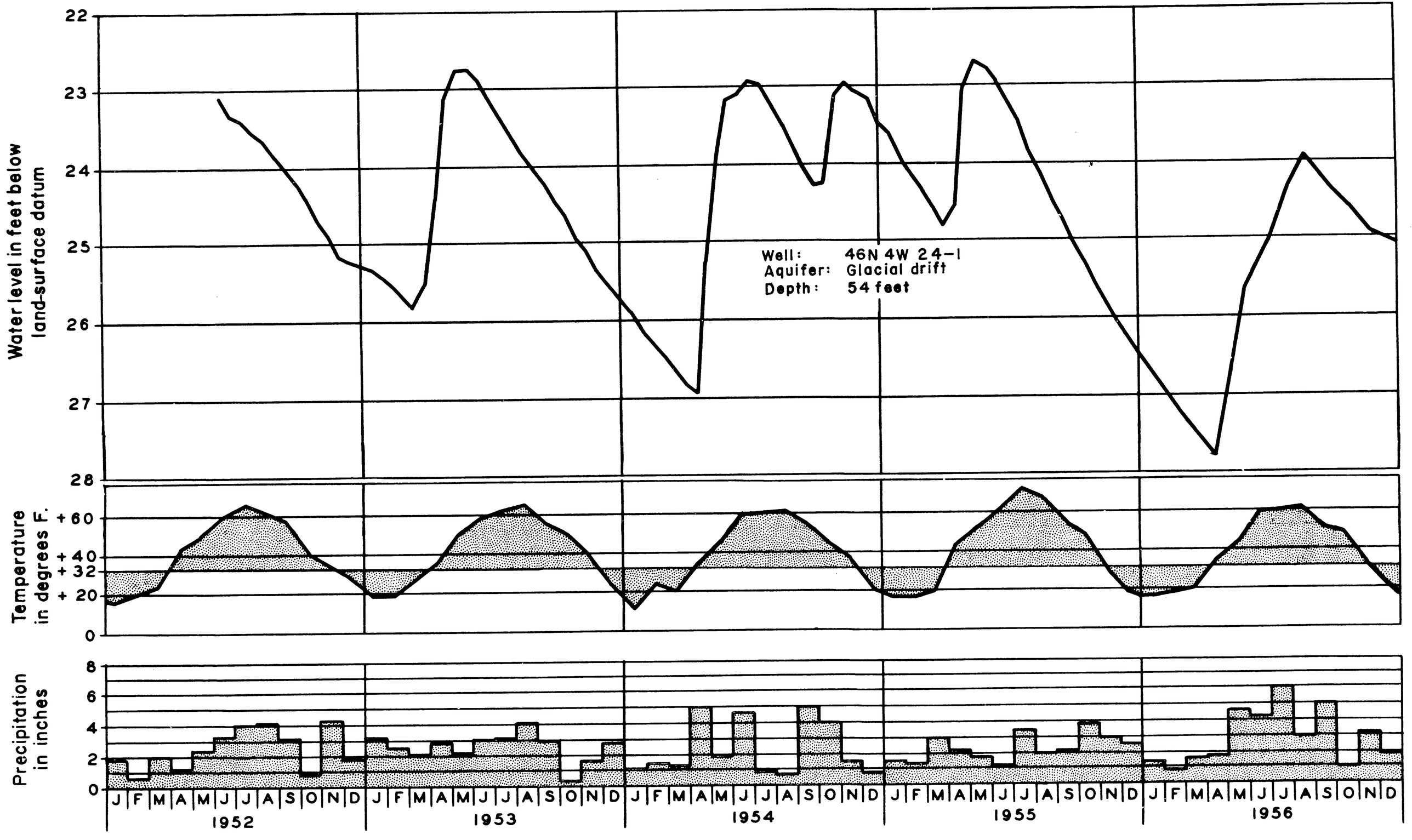
Cumulative departure of precipitation

Water level in feet below land-surface datum

Departure in inches

41
42
43
44
45
46
47
0
-10
-20

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956


Water level in feet below land-surface datum
22
23
24
25
26
27
28
Well: 46N 4W 24-1
Aquifer: Glacial drift
Depth: 54 feet
Temperature in degrees F.
+ 60
+ 40
+ 32
+ 20
0
Precipitation in inches
8
6
4
2
0
J F M A M J J A S O N D
1952
1953
1954
1955
1956

Water level in feet below land-surface datum

5.3
5.4
5.5
5.6
5.7
5.8
5.9
6.0

Well: 45N 13W 16-1
Aquifer: Richmond formation
~~Depth: 154 feet~~

Precipitation in inches

5
4
3
2
1
0

Normal

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

Water level in feet below land-surface datum

4
5
6

Well: 24N 2W 20–1
Aquifer: Glacial drift
Depth: 14 feet

Precipitation in inches

2.45
2.35

1.4
1.2
1.0
.8
.6
.4
.2
0

Temperature in degrees F.

100
80
60
40
32
20
0
-20

Jan. Feb. March April May June July Aug. Sept. Oct. Nov. Dec.

Pumpage in million gallons

Water level in feet below land-surface datum

Precipitation in inches

0
25
50
10
12
14
16
7.5
5.0
2.5
0

Municipal pumping at Coldwater

Well: 6S 6W 22-1
Aquifer: Glacial drift
Depth: 130 feet

Precipitation at Coldwater

1949 1950 1951 1952 1953 1954 1955 1956

Water level in feet below land-surface datum

4
5
6
7
8
9
10

Well: 2S 8W 2-1
Aquifer: Marshall formation
Depth: 92 feet

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Water level in feet below land-surface datum

8
10
12
14
16
18
20
22
24
26
28

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Pumpage:

Year	Million gallons
1947	475
1948	241
1949	80
1950	16
from 1951-56	Wells on standby basis.

Well: 2S 8W 14-1
Aquifer: Glacial drift
Depth: 62 feet

Water level in feet below land-surface datum

0
1
2
3
4
5

Well: 1S 7W 10-1
Aquifer: Glacial drift
Depth: 8 feet

Monthly precipitation

Precipitation in inches

8
6
4
2
0

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Pumpage in million gallons

0
25
50

Dowagiac municipal pumpage

Water level in feet above and below land-surface datum

+4
+2
0
-2
-4

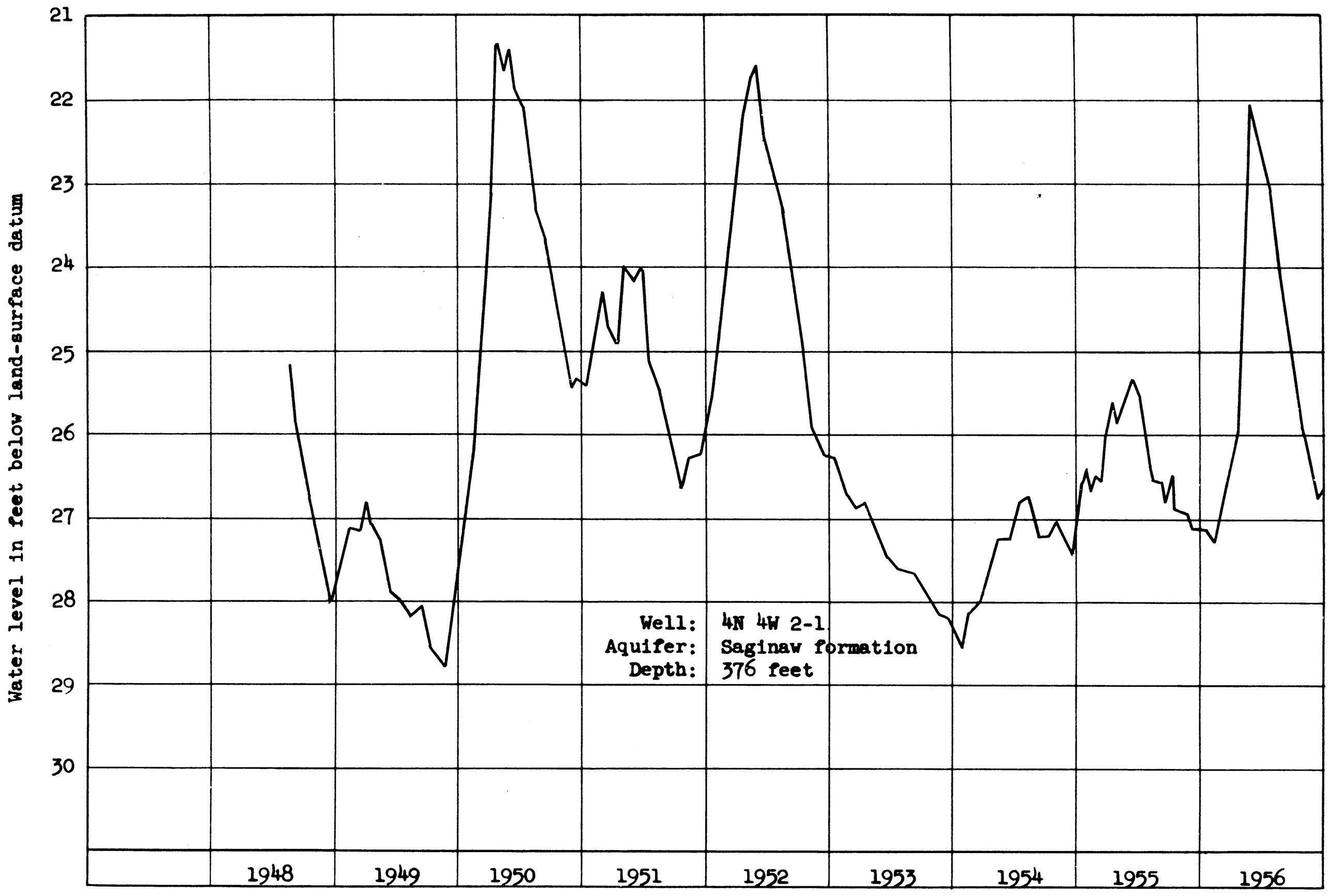
Well: 6S 16W 1-1
Aquifer: Glacial drift
Depth: 159 feet

Precipitation in inches

10
5
0

Monthly precipitation at Eau Claire

1949 1950 1951 1952 1953 1954 1955 1956


Water level in feet below land-surface datum
21
22
23
24
25
26
27
28
29
30
Well: 4N 4W 2-1
Aquifer: Saginaw formation
Depth: 376 feet
1948
1949
1950
1951
1952
1953
1954
1955
1956

Water level in feet below land-surface datum

Departure in inches

Precipitation in inches

Well: 7N 7E 17-1
Aquifer: Saginaw formation
Depth: 222 feet

Well: 7N 7E 20-2
Aquifer: Glacial drift
Depth: 169 feet

Cumulative departure of precipitation

+30
+20
+10
0

Monthly precipitation

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Pumpage in million gallons

0
500

Yearly totals of municipal and industrial pumpage.

30
40

Water level in feet below land-surface datum

10

Well: 11N 3W 3-5
Aquifer: Buried glacial outwash
Depth: 59 feet

11
12
13

Well: 12N 3W 33-1
Aquifer: Surficial glacial drift
Depth: 19 feet

+10

Departure in inches

0

Cumulative departure of precipitation

-10

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Water level in feet below land-surface datum

0
10
20
30
40
50
60

100
110
120
130
140
150

Cumulative municipal pumpage at Lansing in billions of gallons

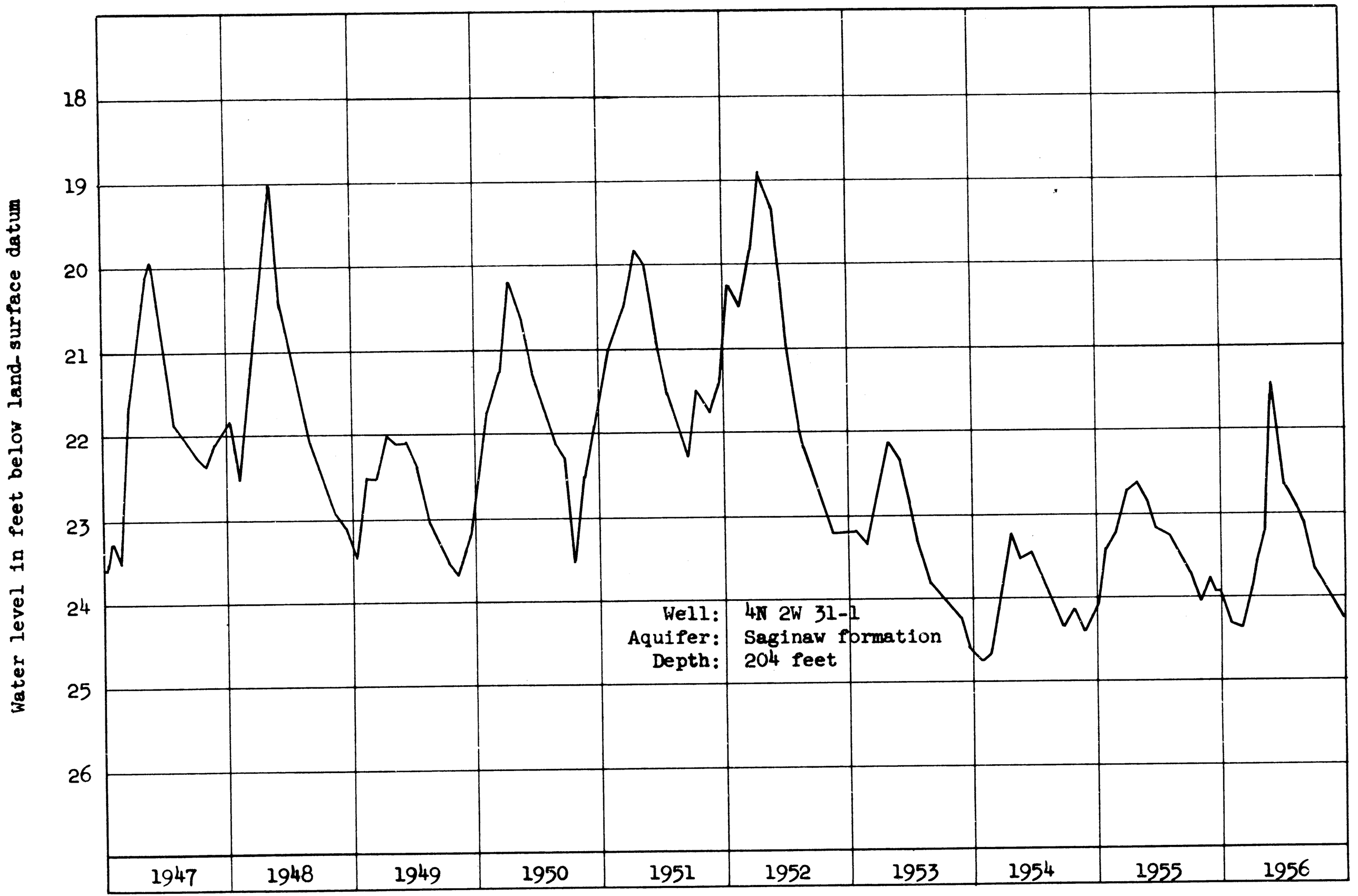
Well: 4N 2W 22-1
Aquifer: Saginaw formation
Depth: 338 feet

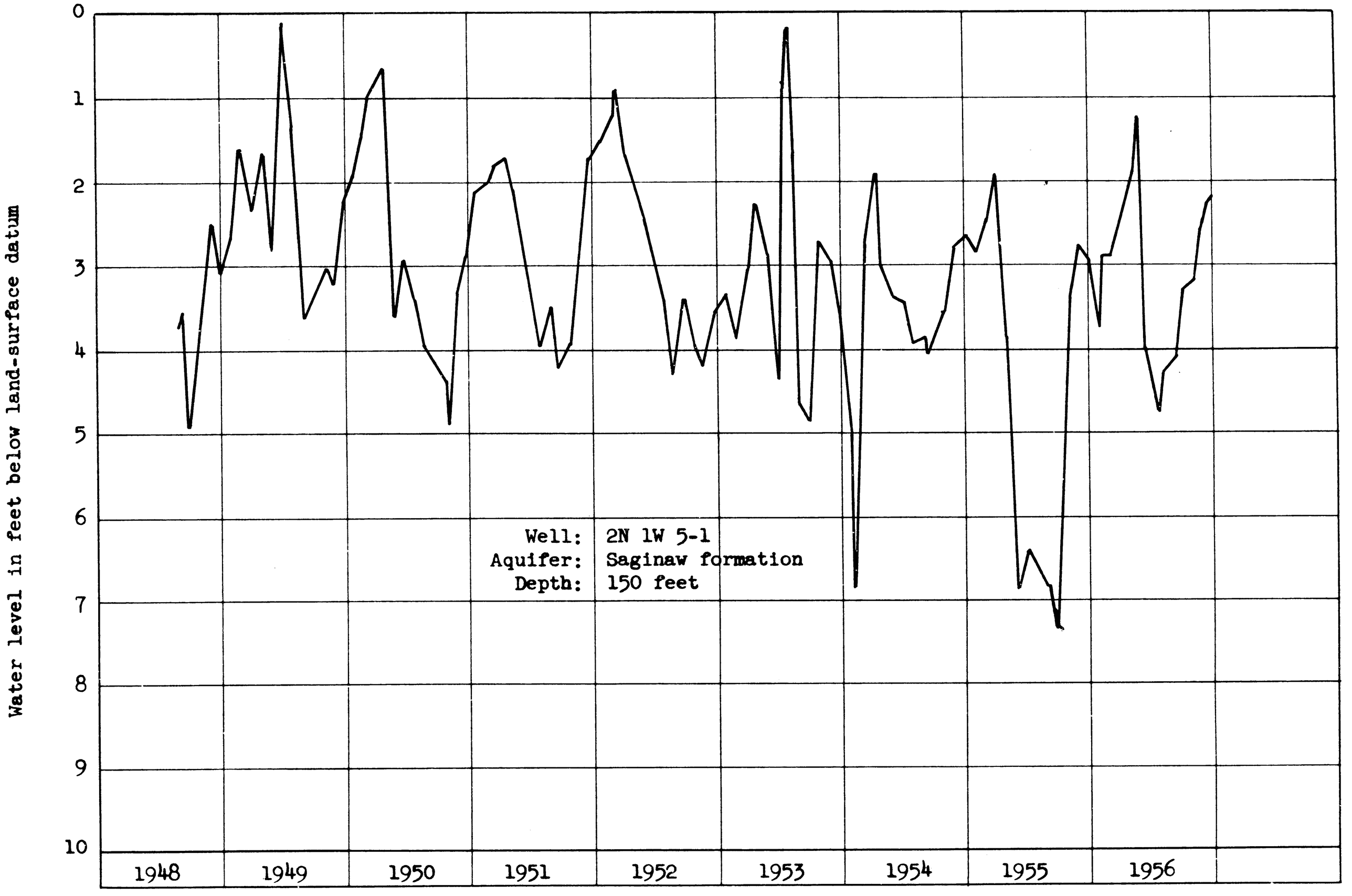
Cumulative departure of precipitation

Departure in inches

+10
0
-10

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956


Water level in feet below land surface datum
18
19
20
21
22
23
24
25
26
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
Well: 4N 2W 31-1
Aquifer: Saginaw formation
Depth: 204 feet


Water level in feet below land-surface datum
0
1
2
3
4
5
6
7
8
9
10
1948
1949
1950
1951
1952
1953
1954
1955
1956
Well: 2N 1W 5-1
Aquifer: Saginaw formation
Depth: 150 feet

Water level in feet below land-surface datum

35
40
45
33 50
34 55
35
36 0
-10
20
-20
-30

Departure in inches

Well: 2S 11W 27-52
Aquifer: Glacial drift
Depth: 113 feet

Well: 2S 11W 20-7
Aquifer: Glacial drift
Depth: 78 feet

Cumulative departure of precipitation

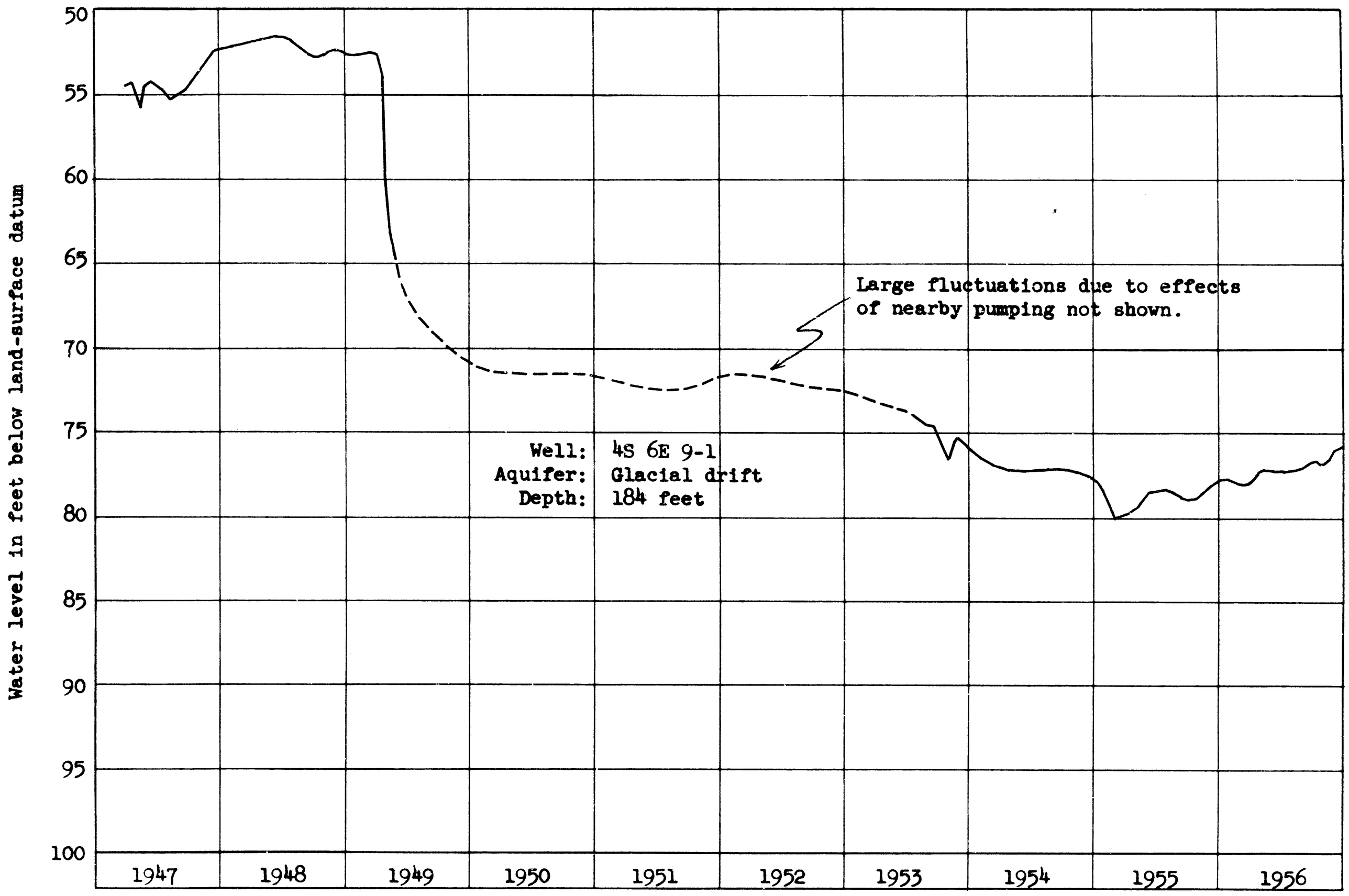
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Water level in feet below land-surface datum

50
60
70
80
90
100
110
120
130
140
150

1947 1948 1949 1950 1951 1952 1953 1954 1955 1956

Well: 3N 10E 32-1
Aquifer: Glacial drift
Depth: 160 feet


Water level in feet below land-surface datum
50
55
60
65
70
75
80
85
90
95
100
1947
1948
1949
1950
1951
1952
1953
1954
1955
1956
Large fluctuations due to effects of nearby pumping not shown.
Well: 4S 6E 9-1
Aquifer: Glacial drift
Depth: 184 feet

Pumpage in million gallons

0
50
100

Monthly totals of Township pumpage

Water level in feet below land-surface datum

15
20
25
30
35

Well: 3S 7E 24-5
Aquifer: Glacial drift
Depth: 77 feet

Departure in inches

+10
+10
0

Cumulative departure of precipitation

1950 1951 1952 1953 1954 1955 1956

Table 1.--Records of Michigan observation wells in which water-level measurements were made during 1956.

Owner: Includes owner's designation or field number of well where applicable; MDC - Michigan Department of Conservation; MSHD - Michigan State Highway Department; USFS - United States Forest Service; WMP - Wisconsin-Michigan Power Co.; TW - Test well.

Chief aquifer: pC - Rocks of Precambrian age; Or - Limestones of Richmond age (Late Ordovician); Sm - Manistique dolomite of Middle Silurian age; Ss - Salina formation of Late Silurian age; Dtb - Thunder Bay limestone of Middle and upper (?) Devonian age; Mmn - Napoleon member of the Marshall sandstone of Mississippian age; Mb - Bayport limestone of Mississippian age; IP- Parma sandstone of Pennsylvanian age; IPs - Saginaw formation of Pennsylvanian age; Qgd - Glacial drift deposits of Pleistocene (Quaternary) age.

A - Water confined under artesian conditions; W - Water-table conditions.

Altitude: Land-surface datum in feet above mean sea level.

Observer: USGS - Water-level measurements made by U. S. Geological Survey; MDC - Michigan Department of Conservation; USFS - U. S. Forest Service; WMP - Wisconsin-Michigan Power Company.

Former USGS No.: See page 3 for explanation of well-numbering systems.

Twp.	Rg.	Sec.-No.	Location in section ¼ of ¼	Owner	Depth of well (ft.)	Diameter (in.)	Chief aquifer	Altitude	Observer	Former USGS No.	Remarks
				Alpena County							
32N	6E	16-1	NW SW	Harlo Mellon	53	6	Dtb A		USGS	ApLr 1	
30N	6E	6-1	NW NE	R. E. James	19	18	Qgd W		USGS	ApQn 1	
				Barwaa County							
48N	32W	12-1	SE SE	MSHD (WMP 14)	10	1¼	Qgd W		WMP	BgCv 1	
				Branch County							
6S	6W	22-1	NE SW	City of Coldwater (3)	130	8-6	Qgd A		Owner	BrCW 3	Affected by pumping
				Calhoun County							
1S	7W	10-1	NW NW	K. N. Sabin	8	15	Qgd W	907.99	USGS	ChPf 102	
		31-1	NE SW	City of Battle Creek (TW 1)	140	2	Mmn A	838.92	USGS	58	
		32-1	NE SE	do. (Verona 22)	127	8	Mmn A	830.79	Owner	1	Affected by pumping
		32-2	NE NW	Mrs. Harriet Rice	43	2	Mmn A	842.88	USGS	105	
2S	8W	1-1	SW SE	Sherman Mfg. Co.	22	2	Qgd W	825.19	USGS	ChBC 150	
		1-2	SW SE	Electronics Supply Co.	61	2	Mmn A	819.08	USGS	170	Affected by pumping
		2-1	NW SE	Post Products Co.	92	10	Mmn A	819.99	City of Battle Creek	160	do.
		3-1	SE SE	Dominic Conto	12	2	Qgd W	862.02	USGS	ChBc 55	
		3-2	SE NE	Eaton Mfg. Co.	80	10	Mmn A	833.39	USGS	60	Affected by pumping
		3-3	NE SE	P. E. Slayton	64	4	Mmn A	849.51	USGS	169	do.
		14-1	NE SE	City of Battle Creek (TW 3)	62	2	Qgd W	916.05	USGS	2	
		14-2	SE SE	do. (TW 1)	89	26	Qgd W	914.97	USGS	137	
2S	7W	7-1	SW NE	Oliver Farm Implement Co.	74	6	Mmn A	834.30	USGS	ChBC 140	Affected by pumping
		10-1	NW SW	C. W. Cronkhite	90	6	Mmn A	884.94	USGS	ChEm 10	
		17-1	NW SW	City of Battle Creek	87	2	Mmn A	841.78	USGS	64	Affected by pumping
		18-1	SW SW	do.	87	2	Mmn A	832.49	USGS	60	do.
2S	6W	25-1	NE NE	City of Marshall (Ferguson Well)	59	6	Mmn A	904.85	USGS	ChMA 2	Affected by pumping
		25-2	SE NW	do. (Egeler Well)	67	6	Mmn A	901.15	USGS	3	do.
		25-3	SW SE	do. (Filkin Well)	82	4	Mmn A	914.15	USGS	4	do.
				Cass County							
6S	16W	1-1	SW NE	City of Dowagiac	159	10	Qgd A	750.19	Owner	CsDW 1	Affected by pumping
8S	14W	17-1	NE NW	Ted Little	55	28	Qgd W		USGS	CsMa 1	
				Charlevoix County							
33N	4W	2-1	SW NE	MDC	94	6	Qgd A		USGS	CvCh 1	
32N	4W	10-1	NE SE	MDC	17	2	Qgd W		USGS	CvHu 33	
				Cheboygan County							
34N	1W	1-1	NW SW	MDC (7)	11	2	Qgd W		USGS	CbWk 11	
		26-1	SE NW	MDC (10)	17	2	Qgd W		USGS	33	
33N	1W	3-1	SW SW	MDC (11)	15	2	Qgd W		USGS	CbMd 2	
		10-1	SE SE	MDC (12)	13	2	Qgd W		USGS	4	
33N	1E	23-1	NE SE	MDC (17)	9	2	Qgd W		USGS	CbFr 17	
		27-1	SE NE	MDC (16)	15	2	Qgd W		USGS	5	
		28-1	NE NW	MDC (7)	14	2	Qgd W		USGS	7	
				Chippewa County							
46N	4W	24-1	NE SE	USFS	54	6	Qgd A		Owner	CpSp 59	
				Clinton County							
8N	1W	13-1	SW NW	Village of Elsie	298	12	IPs A	699.68	USGS	CtES 1	Affected by pumping
		13-3	SW NW	do. (3)	45	12	Qgd A	706.17	USGS	3	do.
6N	2W	16-1	SE SE	MSHD	23	14	Qgd W	803.32	USGS	CtOp 1	
5N	2W	32-1	SW SE	Mich. Dept. Health	135	6-4	IPs A	849.21	USGS	CtDw 159	Affected by pumping
				Crawford County							
28N	2W	30-1	NW SW	MDC (2)	10	2	Qgd W		USGS	CrLw 6	
28N	1W	8-1	NE NE	MDC (6)	13	2	Qgd W		USGS	CrLw 4	

Table 1.--Records of Michigan observation wells in which water-level measurements were made during 1956.

Twp. Rg. Sec.-No.	Location in section ¼ of ¼	Owner	Depth of well (ft.)	Diameter (in.)	Chief aquifer	Altitude	Observer	Former USGS No.	Remarks
Crawford County - Continued.									
28N 1W 20-1	NE SW	MDC (18)	13	2	Qgd W		USGS	CrLw 5	
27N 4W 2-1	NE NW	MDC (42)	13	2	Qgd W	1,194.18	USGS	CrFr 1	
19-1	SE SW	MDC (12)	19	2	Qgd W		USGS	5	
23-1	NE NE	MDC (51)	17	2	Qgd W		USGS	2	
27N 3W 15-1	NW NE	MDC	17	1¼	Qgd W		USGS	CrGr 13	
15-2	NE NW	MDC	13	1¼	Qgd W		USGS	14	
27N 1W 4-1	SW SW	MDC (8)	10	2	Qgd W		USGS	CrLw 3	
20-1	SW SW	MDC (22)	13	2	Qgd W		USGS	1	
22-1	NE NE	MDC (27)	12	2	Qgd W		USGS	2	
26N 4W 2-1	SW SW	MDC (15)	14	2	Qgd W		USGS		
5-1	NW NW	MDC (9)	8	2	Qgd W	1,137.17	USGS	CrGr 4	
5-2	NE SE	MDC (12)	9	1¼	Qgd W	1,144.01	USGS	7	
10-1	NE SE	MDC (10)	12	2	Qgd W	1,146.11	USGS	5	
11-1	NW SW	MDC (Grayling recorder well)	12	15	Qgd W	1,147.59	USGS	6	
28-1	NE SW	Michigan National Guard Camp	31	3	Qgd W		USGS	11	
26N 3W 8-1	NW NW	MDC	8	1¼	Qgd W		USGS	CrGR 3	
12-1	SE SE	MDC (28)	16	1¼	Qgd W		USGS	CrGR 3	
26N 2W 11-1	SE SE	MDC (9)	7	2	Qgd W		USGS	CrGr 1	
25N 4W 7-2	NW SE	H. H. Joseph (8)	137	2	Qgd W		USGS	CrBc 32	
8-1	SW SW	H. H. Joseph (9)	88	2	Qgd W	1,248.8	USGS	31	
21-1	NE NE	MDC (03)	53	2	Qgd W	1,229.9	USGS	20	
25N 3W 28-1	SW SW	MDC (8)	13	1¼	Qgd W	1,175.14	USGS	1	
25N 1W 15-1	SE SE	USFS	56	6	Qgd A		USGS	CrSb 1	
Dickinson County									
43N 29W 32-1	NW NE	Dickinson Co. Rd. Comm. (WMP 11)	12	1¼	Qgd W		WMP	DkFe 1	
42N 27W 33-1	NE NW	E. W. LaFreniere (WMP 10)	12	36	Qgd W		WMP	DkBe 1	
41N 30W 25-1	NE SW	Dickinson Co. Rd. Comm. (WMP 1)	20	1¼	Qgd W		WMP	DkBg 1	
25-2	NW SE	Wm. Carrolo (WMP 2)	16	36	Qgd W		WMP	2	
25-3	SE NE	Oscar Martinson (WMP 3)	12	48x48	Qgd W		WMP	3	
Eaton County									
4N 4W 2-1	SW SW	City of Grand Ledge	376	12	Ips A	846.59	Owner	EaGL 1	Affected by pumping
4N 3W 9-1	SW SW	B. B. Bosworth	18	48	Qgd W	851.71	USGS	EaDt 215	
10-1	SE NE	John Schneeberger	121	3	Ips A	855.99	USGS	214	
12-1	SE SW	Mrs. Harold Worden	381	6	Ips A	861.91	USGS	30	Affected by pumping
24-1	SE SE	J. R. McLaughlin	22	12	Qgd W	851.96	USGS	217	
2N 4W 19-1	NW SW	City of Charlotte	25	20 ft.	Qgd W	889.44	USGS	EaCH 1	
Genesee County									
7N 7E 9-1	SE SW	Consumers Power Co.	288	12	Ips A	761.83	USGS	GeFL 500	
17-1	SE NE	do.	222	12	Ips A	757.83	USGS	491	
20-2	SW SW	City of Flint	169	2	Qgd A	749.48	USGS	354	
29-1	SE SW	C. F. Crain	14	1¼	Qgd W	776.63	USGS	GeBu 300	
29-2	SW SE	Clarence Chappell	8	18	Qgd W	779.86	USGS	303	
32-1	SW SW	A. W. Arndt	140	2	Qgd A	792.27	USGS	492	
6N 7E 9-1	SW SE	Grand Blanc Tank Plant (6)	375	6	Ips A	841.71	Owner	GeGb 25	
Gladwin County									
17N 1W 7-1	SW NW	City of Beaverton	93	12	Qgd A	721.50	Owner	GwBV 1	
Grand Traverse County									
27N 9W 4-1	NW NE	MDC (18)	15	2	Qgd W	687.01	USGS	GvWw 18	
28-1	SE NW	MDC (15)	17	2	Qgd W	893.26	USGS	GvWw 15	
34-1	SE NW	MDC (25)	18	2	Qgd W	900.25	USGS	25	
35-1	SE NW	MDC (1)	17	2	Qgd W	906.11	USGS	1	
26N 11W 21-1	SW SW	MDC (14)	13	2	Qgd W	899.26	USGS	GvBr 14	
27-1	NW SW	MDC (2)	14	2	Qgd W	914.25	USGS	2	
26N 9W 13-1	SW SW	MDC (2)	14	2	Qgd W	961.78	USGS	GvUn 2	
25N 11W 2-1	SE NW	MDC (19)	11	2	Qgd W	1,058.81	USGS	GvMy 19	
25N 10W 2-1	SW SW	MDC (25)	15	2	Qgd W	945.27	USGS	GvPr 25	
8-1	NW NW	MDC (26)	13	2	Qgd W	949.58	USGS	26	
25N 9W 23-1	NW SE	MDC (6)	17	2	Qgd W	1,017.85	USGS	GvFf 6	
26-1	NW NW	MDC (24)	19	2	Qgd W	1,024.02	USGS	24	
34-1	NW NW	MDC (27)	17	2	Qgd W	1,025.34	USGS	27	
Gratiot County									
12N 3W 33-1	NE SE	E. E. Peterson	19	1¼	Qgd W	756.10	USGS	GrAL 252	
34-1	SW SE	S. J. Brown	55	2	Qgd A	727.12	USGS	99	Affected by pumping
34-2	SW NE	Vane Mills	13	1¼	Qgd W	747.17	USGS	103	
34-3	SW SE	M. J. Patterson	76	2	Qgd A	727.19	USGS	255	Affected by pumping

Table 1.--Records of Michigan observation wells in which water-level measurements were made during 1956.

Twp.	Rg.	Sec.-No.	Location in section ¼ of ¼	Owner		Depth of well (ft.)	Diameter (in.)	Chief aquifer	Altitude	Observer	Former USGS No.	Remarks
								Gratiot County - Continued.				
12N	3W	34-4	SE NE	Orie Martin		55	2	Qgd A	744.03	USGS	GrAL 358	Affected by pumping
		34-5	SW NE	City of Alma	(5)	90	38-18	Qgd A		USGS	5	do.
		35-1	SW SW	A. F. Tennant		14	1¼	Qgd W	747.88	USGS	148	
		35-2	NE SW	C. H. Gould		14	1¼	Qgd W	739.71	USGS	254	
		35-3	NW SW	L. A. Halker		26	2	Qgd A	732.62	USGS	256	Affected by pumping
		35-4	NE SW	Calvin Sherwood		28	3	Qgd W	736.1	USGS	331	
		35-5	SW NW	Reed Excavating Co.		20	36	Qgd W	738.78	USGS	360	
11N	3W	2-2	NW NE	Layne Water Co.	(2)	130	8	Qgd A	744.15	USGS	54	Affected by pumping
		2-3	NE NW	Bernard Engbloom		11	1¼	Qgd W	749.01	USGS	230	
		2-4	NW NW	C. D. Peet		15	1¼	Qgd W	750.24	USGS	240	
		3-1	NW SW	City of Alma	(TW 17)	179	8	Qgd A	746.8	USGS	23	Affected by pumping
		3-2	SW NW	do.	(TW 1)	160	8	Qgd A	733.51	USGS	73	do.
		3-4	NE NW	Marshall Dallas		49	2	Qgd A	737.48	USGS	98	do.
		3-5	NE NE	Thomas Thompson		59	2	Qgd A	743.27	USGS	135	do.
		3-6	NW NW	E. H. Waber		49	2	Qgd A	733.20	USGS	258	do.
		4-1	SW NE	City of Alma	(TW 6)	165	8	Qgd A	732.31	USGS	78	do.
		4-2	SW NE	do.	(TW 10)	167	8	Qgd A	734.43	USGS	82	do.
		5-1	SE NE	John Pfarr	(Alma TW 12)	162	4	Qgd A	740.97	USGS	GrAr 33	do.
		36-1	SE SE	Village of Ithaca		785	10-8	IPs, IP) Mb A)	804.50	USGS	GrIH 1	
9N	3W	8-1	NE NE	Glenn Corson		31	30	Qgd W		USGS	GrPE 1	
								Ingham County				
4N	2W	4-1	NW SW	C & O RR.	(East 1)	38	12	Qgd A	842.19	USGS	IgLS 33	
		7-1	SE NW	Tank Bros.		107	3	IPs A	866.01	USGS	IgLs 35	Affected by pumping
		9-1	SE NW	City of Lansing	(Seymour 1)	401	14	IPs A	828.81	USGS	IgLS 7	do.
		9-2	SW NW	Consumers Power Co.		370	12	IPs A	820.69	USGS	60	do.
		16-1	NE SE	City of Lansing	(Cedar)	417	12	IPs A	829.11	USGS	9	do.
		17-1	NW NE	do.	(Logan)	424	20	IPs A	858.72	USGS	6	do.
		17-2	NW NW	Olds Drop Forge	(4)	417	12	IPs A	872.55	USGS	51	do.
		19-1	SW SW	Waverly Hills Association		87	2	IPs A	833.94	USGS	IgLs 805	
		21-1	NE NW	City of Lansing	(Townsend)	410	14	IPs A	834.10	USGS	IgLS 8	Affected by pumping
		22-1	SW NW	do.	(P-5)	338	12	IPs A	823.64	USGS	3	do.
		22-2	SW NW	do.	(P-9)	218	6	IPs A	830.76	USGS	4	do.
		23-1	NE NW	do.	(RS-7)	467	12	IPs A	824.86	Owner	5	do.
		24-1	NE SW	Michigan State University		453	10	IPs A	853.45	USGS	IgLs 265	do.
		25-1	NW NE	do.	(Lamb Farm)	120	3	IPs A	866.67	USGS	266	do.
		28-1	NE NW	Atlas Drop Forge	(2)	425	8	IPs A	849.20	USGS	IgLS 182	do.
		31-1	SW SW	C. A. Weber		204	3	IPs A	880.15	USGS	IgLs 271	
4N	1W	16-1	NW NE	City of East Lansing	(2)	440	12	IPs A	858.8	Owner	IgEL 421	Affected by pumping
		18-1	SE NE	Marble School		175	3	IPs A	847.85	USGS	IgMr 405	do.
3N	2W	8-1	NW NW	F. H. Kraus		72	3	IPs A	876.67	USGS	IgDh 12	
2N	1W	5-1	SE SE	City of Mason	(old 2)	150	6	IPs A		Owner	IgMS 30	Affected by pumping
								Iosco County				
23N	7E	7-1	NE SE	USFS		341	6	Qgd A		USGS	IoWr 1	
								Iron County				
46N	33W	18-1	SW NW	MSHD	(WMP 17)	12	1¼	Qgd W		WMP	IrHm 4	
46N	34W	14-1	NE NW	Oliver Iron Mining Co.	(WMP 18)	12	1¼	Qgd W		WMP	IrHm 5	
45N	37W	23-1	SW NE	USFS	(WMP 28)	8	1¼	Qgd W		WMP	IrSt 1	
45N	36W	23-1	NE NE	USFS	(WMP 29)	22	48	Qgd W		WMP	IrIr 4	
45N	35W	33-1	SE NW	MSHD	(WMP 39)	12	1¼	Qgd W		WMP	IrSt 5	
45N	33W	8-1	SW SW	Basilio Prandi	(WMP 20)	33	36	Qgd W		WMP	IrHm 1	
		10-1	SE NW	Bonifas Lumber Co.	(WMP 19)	7	1¼	Qgd W		WMP	2	
44N	35W	6-1	SW SW	USFS (Paint River profile 1)		6	1¼	Qgd W	1,468.15	WMP	IrIr 5	
		6-2	SW SW	USFS (Paint River profile 2)		13	1¼	Qgd W	1,475.14	WMP	6	
		6-3	NW SW	USFS (Paint River profile 3)		12	1¼	Qgd W	1,476.35	WMP	7	
		7-1	NW NW	USFS (Paint River profile 4)		4	1¼	Qgd W	1,469.28	WMP	8	
		7-2	NW NW	USFS (Paint River profile 5)		13	1¼	Qgd W	1,471.25	WMP	9	
		7-3	NW NW	USFS (Paint River profile 6)		17	1¼	Qgd W	1,475.83	WMP	10	
44N	33W	10-1	SW SW	Iron Co. Rd. Comm. (	(WMP 21)	8	1¼	Qgd W		WMP	IrHm 3	
43N	36W	1-1	SW NE	do.	(WMP 27)	9	1¼	Qgd W		WMP	IrIr 4	
		1-2	SW SW	Mr. Williams	(16)	50(?)	?	Qgd W		MDC		Mine-drainage observation well
43N	35W	11-1	SE NE	J. J. Javoroski	(WMP 23)	47	36	Qgd W		WMP	IrIr 1	
		13-1	SW SE	F. V. Gendswill	(5)	65	36	pe ?		MDC		Mine-drainage observation well
		13-2	SW SE	Boyington	(hole 4-44)	?	?	? ?		MDC		do.
		20-1	SW SE	Mrs. B. Henriksen	(WMP 25)	48	1¼	Qgd W		WMP	IrIr 2	Federal Key Well
		22-1	SE NE	Homer Mine No. 6	(2)	?	?	Qgd W		MDC		Mine-drainage observation well
		24-1	SE NE	Spies - Johnson No. 73	(7)	?	3	QgdTW		MDC		do.
		26-1	SW NE	City of Iron River		130	2	Qgd W		MDC		do.
43N	34W	19-1	NW SW	Spies - Johnson No. 3004	(8)	?	3	QgdTW?		MDC		do.
		19-2	NE SW	do. No. 3c	(9)	?	3	QgdTW?		MDC		do.
		29-1	SW NE	Rogers Mine	(11)	?	48	Qgd W		MDC		do.

Table 1.--Records of Michigan observation wells in which water-level measurements were made during 1956.

Twp. Rg. Sec.-No.	Location in section ¼ of ¼	Owner	Depth of well (ft.)	Diameter (in.)	Chief aquifer	Altitude	Observer	Former USGS No.	Remarks
Iron County - Continued.									
43N 32W 26-2	NE SW	Cayia Mine (17)	?	?	Qgd?TW?		MDC		Mine-drainage observation well
42N 36W 15-1	NE SW	MSHD (Brule River Profile 1)	6	1¼	Qgd W	1,543.92	WMP	IrSt 2	
15-2	NE SW	MSHD (Brule River Profile 2)	7	1¼	Qgd W	1,545.60	WMP	3	
15-3	NW SW	W. Young Estate (Brule River Profile 3)	14	1¼	Qgd W	1,554.36	WMP	4	
42N 34W 7-1	SW NE	Zimmerman No. 1 (13)	171	20-12	Qgd W	1,165.32	MDC		Mine-drainage observation well
42N 31W 33-1	NW SE	Iron Co. Rd. Comm. (WMP 7)	11	1¼	Qgd W		WMP	IrMt 1	
33-2	NW SE	Joseph Giachino (WMP 8)	12	15	Qgd W		WMP	2	
41N 31W 10-1	SW NE	Iron Co. Rd. Comm. (WMP 5)	17	1¼	Qgd W		WMP	3	
Kalamazoo County									
2S 11W 3-29	SE NE	KVP CO. (50)	39	12	Qgd A	774.05	Owner	KoPT 50	Affected by pumping
3-37	NE NE	do. (TW 6)	25	2	Qgd A	766.93	USGS	6	
3-60	NE NE	do. (61)	36	6	Qgd A	763.18	Owner	3-60	Affected by pumping
15-18	NE SE	Consumers Power Co.	64	12	Qgd A	766.17	USGS	KoKO 211	do.
15-31	NW SW	Wigginton Co.	68	6	Qgd A	781.37	USGS	228	do.
15-33	NE SW	Columbia Hotel	65	5	Qgd A	769.46	USGS	311	do.
20-7	SW SE	Western Michigan Univ.	78	8	Qgd A	868.68	USGS	KoKo 42	
22-6	NE SW	City of Kalamazoo	115	6	Qgd A	777.45	Owner	KoKO 114	Affected by pumping
22-102	NE SW	Kalamazoo Creamery	61	12	Qgd A	773.19	USGS	242	do.
26-3	NE NE	Reed Land Co.	41	6	Qgd A	773.71	USGS	240	
27-52	NE NE	Bryant Paper Co. (7)	113	12	Qgd A	802.59	City of Kalamazoo	284	Affected by pumping
29-3	SW SE	Oakwood, Inc.	47	2	Qgd A	880.72	USGS	KoKo 43	
4S 11W 13-1	NW SE	Lee Paper Co. (6A)	144	12	Qgd A	839.08	Owner	KoVB 6	Affected by pumping
13-2	NE SW	do. (7A)	48	12	Qgd A	838.18	Owner	7	do.
27-1	SE NW	H. H. Chamberlain	19	1¼	Qgd W	854.64	USGS	KoSc 5	
Kalkaska County									
28N 5W 35-1	SE SE	MDC (22)	14	2	Qgd W		USGS	KaBk 22	
27N 5W 27-1	NE SW	MDC (13)	19	2	Qgd W		USGS	KaCw 13	
36-1	SE NW	MDC (100)	16	1¼	Qgd W		USGS	100	
Kent County									
6N 12W 17-1	SE NE	Jervis Corp. (1)	30	12	Qgd W		Owner	KeGV 10	Affected by pumping
17-2	SE NE	do.	26	6	Qgd W	606.05	Owner	11	do.
17-3	SE NE	do.	21	2	Qgd W	607.38	Owner	12	do.
17-4	SE NE	do.	20	1¼	Qgd W	608.26	Owner	13	do.
17-5	SE NE	do.	28	2	Qgd W	613.92	Owner	14	do.
Mackinac County									
42N 2W 7-1	NE NE	USFS (Pontchartrain well)	102	6	Sm A		USGS		
41N 5W 23-1	SW NW	MDC (Round Lake Well)	47	6	Ss A		USGS		
Marquette County									
49N 30W 22-1	SW NE	Marquette Co. Rd. Comm. (WMP 13)	17	1¼	Qgd W		WMP	MqMc 1	
45N 30W 1-1	SW NW	Arnold Janofski (WMP 4)	31	36	Qgd W		WMP	MqRe 1	
44N 26W 28-1	NE SE	MDC	31	6	Qgd W		USFS	MqFr 1	
Mason County									
17N 15W 3-1	SE SW	USFS	32	6	Qgd W	737.37	USGS	MaLo 1	
Montcalm County									
9N 8W 15-1	SW NW	City of Greenville (9)	65	12	Qgd A		Owner	MmGV 9	Affected by pumping
Montmorency County									
32N 2E 34-1	NW NE	MDC	24	2	Qgd W		USGS	MyMy 1	
31N 2E 11-1	NW NW	MDC (6)	12	2	Qgd W		USGS	MyBr 6	
14-1	SW SW	MDC (16)	18	2	Qgd W		USGS	16	
31N 3E 9-1	NW NE	MDC	14	2	Qgd W		USGS	MyHm 22	
31N 4E 8-1	NE SW	MDC (1)	14	2	Qgd W		USGS	MyHm 1	
34-1	NE SW	MDC (23)	13	2	Qgd W		USGS	23	
30N 2E 6-1	SW NW	MDC (1)	11	2	Qgd W		USGS	MyBr 8	
30N 4E 26-1	NW NE	MDC (18)	10	2	Qgd W		USGS	MyRs 18	
29N 2E 22-1	SW SE	MDC	64	6	Qgd A		USGS	MyAb 1	
27-1	NW NW	MDC (32)	10	2	Qgd W		USGS	7	
29N 3E 21-1	NW NE	MDC (32)	14	2	Qgd W		USGS	MyLd 6	
29N 4E 5-1	Ctr SW	MDC	14	2	Qgd W		USGS	MyRs 4	

Table 1.—Records of Michigan observation wells in which water-level measurements were made during 1956.

Twp.	Rg.	Sec.-No.	Location in section ¼ of ¼	Owner	Depth of well (ft.)	Diameter (in.)	Chief aquifer	Altitude	Observer	Former USGS No.	Remarks
				Oakland County							
3N	10E	31-1	NE SW	City of Pontiac (Orchard Lake)	173	12	Qgd A		Owner	OaPT 48	Affected by pumping
3N	10E	32-1	SE NW	do. (6)	160	8	Qgd A	921.88	Owner	OaPT 1	do.
2N	10E	22-1	NE NW	Cranbrook School (3)	65	6	Qgd A		Owner	OaBH 2	do.
				Ogemaw County							
23N	1E	4-1	SE NE	MDC (15)	21	4	Qgd W		USGS	OgFr 15	
		17-1	SE NW	MDC (30)	19	4	Qgd W		USGS	30	
23N	2E	2-1	NE NW	Charles Hudson	7	36x48	Qgd W		USGS	OgKa 1	
				Otsego County							
29N	3W	29-1	SW SE	MDC (106)	15	2	Qgd W		USGS	OsOk 106	
		32-1	SE SW	MDC (105)	8	2	Qgd W		USGS	105	
				Presque Isle County							
33N	2E	18-1	NE NE	MDC (5)	14	2	Qgd W		USGS	PrAs 20	
		29-1	SW NE	MDC (20)	13	2	Qgd W		USGS	13	
		30-1	NE SE	MDC (19)	14	2	Qgd W		USGS	18	
		30-2	SW NW	MDC (18)	14	2	Qgd W		USGS	19	
				Roscommon County							
24N	3W	3-1	NW NW	MDC (17)	17	1¼	Qgd W	1,168.02	USGS	RoGr 17	
		24-1	NW NW	MDC (1)	15	2	Qgd W	1,162.42	USGS	1	
24N	2W	1-1	NE NE	MDC (88)	14	1¼	Qgd W	1,164.39	USGS	RoHg 88	
		7-1	NE SE	MDC (107)	13	1¼	Qgd W	1,138.01	USGS	107	
		19-1	NE SW	MDC (150)	14	2	Qgd W	1,154.17	USGS	150	
		20-1	NE NW	MDC (1)	14	8	Qgd W	1,145.30	USGS	1	Federal Key Well
		21-1	NW NW	MDC (1000)	15	2	Qgd W		USGS	1000	
24N	1W	34-1	NE NE	MDC (30)	19	2	Qgd W	1,194.81	USGS	RoAs 30	
23N	3W	12-1	NE SE	MDC (75)	14	2	Qgd W		USGS	RoMk 75	
		25-1	NE SE	MDC (5)	14	2	Qgd W	1,154.29	USGS	5	
23N	2W	31-1	NW NW	MDC	13	2	Qgd W	1,153.63	USGS	RoHg 7	
23N	1W	3-1	SE SE	MDC (50)	12	2	Qgd W	1,188.95	USGS	RoRf 50	
22N	4W	15-1	SE SE	MDC (4)	11	2	Qgd W	1,155.72	USGS	RoRo 4	
22N	3W	22-1	SE NE	MDC (7)	14	2	Qgd W	1,170.58	USGS	RoDt 7	
		34-1	SE SW	MDC (26)	11	2	Qgd W	1,177.82	USGS	26	
22N	2W	14-1	NE NW	MDC (9)	12	2	Qgd W	1,201.55	USGS	RoBk 9	
		17-1	NE NW	MDC (15)	13	2	Qgd W	1,165.46	USGS	15	
22N	1W	11-1	NW NW	MDC (5)	14	2	Qgd W		USGS	RoRf 5	
21N	4W	4-1	NW SE	MDC (50)	14	2	Qgd W		USGS	RoRo 50	
		13-1	NE NE	MDC (8)	12	2	Qgd W	1,132.33	USGS	8	
21N	3W	2-1	NE NW	MDC (3)	19	2	Qgd W	1,201.40	USGS	3	
		5-1	NE NW	MDC (15)	15	2	Qgd W	1,147.86	USGS	15	
				Saginaw County							
9N	3E	16-1	NE NW	August Bauer	72	2	IPs A		USGS	SgCH 9	Affected by pumping
				St. Joseph County							
6S	11W	18-1	SW SE	City of Three Rivers (7)	59	6	Qgd A	790.92	Owner	SpTR 1	Affected by pumping
				Sanilac County							
12N	13E	33-1	SE SE	MSHD	150	3	Mmn A		USGS	SaMr 1	
				Schoolcraft County							
45N	13W	16-1	SW SW	U. S. Fish & Wildlife Service	154	4	Or A		Owner	ScOe 112	
				Shiawassee County							
5N	2E	16-1	NE SE	A. B. Cobb	26	1½	Qgd W	896.00	USGS	ShPR 8	
				Washtenaw County							
3S	6E	16-1	SW NW	City of Ann Arbor	23	2	Qgd A	817.43	Owner	WaPf 1	Affected by pumping
		16-2	SE NW	do.	23	16 ft.	Qgd A		Owner	2	do.
3S	7E	24-1	NE SW	Ford Motor Co. (104)	87	4	Qgd W	665.56	Ypsilanti Twp.	WaYp 8	do.
		24-2	NE SW	do. (106)	53	4	Qgd W	664.51	do.	9	do.
		24-4	NE SW	do. (107)	53	4	Qgd W	664.05	do.	11	do.
		24-5	NW SW	do. (109)	77	4	Qgd W	665.56	do.	12	do.
		24-6	SW SW	Federal Works Agency (117) (FWA-13)	75	6	Qgd W	657.83	do.	13	do.
		24-7	SW	Ford Motor Co. (124)	90	24	Qgd W	686.5	do.	14	do.
4S	6E	9-1	NW NW	Ypsilanti State Hospital (TW 20)	184	6	Qgd A		Owner	WaYk 20	do.
		10-1	SW NW	do. (TW 22)	173	6	Qgd A		Owner	22	do.

Table 1.--Records of Michigan observation wells in which water-level measurements were made during 1956.

Twp. Rg. Sec.-No.	Location in section ¼ of ¼	Owner	Depth of well (ft.)	Diameter (in.)	Chief aquifer	Altitude	Observer	Former USGS No.	Remarks
		Wexford County							
24N 10W 22-1	SW NW	MDC (2)	13	2	Qgd W	974.11	USGS	WeOw 2	
26-1	SW NW	MDC (4)	13	2	Qgd W	979.26	USGS	4	
28-1	SE NE	MDC (3)	18	2	Qgd W	1,005.49	USGS	3	
36-1	NW NW	MDC (42)	12	2	Qgd W	1,004.86	USGS	42	
24N 9W 19-1	SW NW	MDC (38)	11	2	Qgd W	994.16	USGS	WeIb 38	
21N 11W 13-1	NW NE	USFS	62	6	Qgd W		USGS	WeHn 1	
21N 9W 4-1	NW NE	City of Cadillac	277	8-6	Qgd A		USGS	WeCD 1	Affected by pumping

Table 2.--Extremes in ground-water levels in observation wells in Michigan.
(in feet below or above (+) land surface)

Frequency of measurement in 1956: R - well equipped with recording gage; D - daily; W - weekly; M - monthly; Q - quarterly; A - annual.

Remarks: A - Annual measurement made in 1956 listed with date of measurement.

Well Designation Twp.Rg.Sec.-No.	Years of record	Frequency of measurement in 1956	Observed water-level extremes								Remarks
			Period of record				1956				
			Highest	Date	Lowest	Date	Highest	Date	Lowest	Date	
Alpena County											
32N 6E 16-1	1948-56	Q	5.46	4-15-55	16.67	11-12-48	5.92	4-13	12.76	10-31	
30N 6E 6-1	1948-56	Q	0.90	4-13-52	9.52	12-11-49	2.66	4-13	6.95	10-31	
Baraga County											
48N 32W 12-1	1948-56	M	4.19	5- 3-51	6.72	3-15-49	4.75	7- 3	6.01	3-29	
Branch County											
6S 6W 22-1	1949-56	W	10.08	4- 8-50	16.67	1-15-54	12.24	5-18	16.48	12-21	
Calhoun County											
1S 7W 10-1	1946-56	W	0.89	3-28-50	5.90	1-27-54	3.43	5-23	5.23	1- 4	
31-1	1945-56	Q	+ 0.08	5-23-50	4.65	9-19-55	2.90	7-16	4.23	12-19	
32-1	1939-56	D	0.7	4-26-50	12.75	8- 5-55	4.12	5-27	10.20	8-31	
32-2	1946-56	Q	8.98	4-25-50	16.00	9-19-55	14.17	7-16	15.38	10- 3	
2S 8W 1-1	1946-56	Q	10.49	4-11-47	17.74	8-21-53	15.16	4-24	15.88	10- 3	
1-2	1945-56	Q	3.26	4-11-47	11.16	7-27-49	8.50	4-24	9.85	7-16	
2-1	1946-56	R	4.75	4- 9-47	9.53	9- 4-53	5.98	5-14	9.04	11-17	
3-1	1946-56	Q	1.75	4-28-50	8.25	12-19-56	5.19	4-24	8.25	12-19	
3-2	1946-56	Q	13.43	4-25-50	22.78	12-19-56	20.25	4-24	22.78	12-19	
3-3	1945-56	Q	0.26	4-25-50	9.39	8- 2-46	6.60	4-24	8.79	10- 3	
14-1	1939-56	Q	9.10	5-31-52	32.76	3-26-41	10.51	7-16	12.29	12-19	
14-2	1945-56	Q	6.22	5-29-50	12.86	10-18-46	7.61	7-16	9.63	12-19	
2S 7W 7-1	1946-56	Q	15.00	4-11-47	23.86	9-19-55	20.28	4-24	23.12	10- 3	
10-1	1946-56	Q	11.42	5-29-50	15.54	3- 7-47	14.00	7-16	15.48	12-19	
17-1	1945-56	Q	6.57	4-25-50	11.23	11- 6-53) 9-19-55)	9.85	4-24	11.05	10- 3	
18-1	1945-56	Q	+ 0.50	4-25-50	3.24	9-21-49	1.19	4-24	2.56	10- 3	
2S 6W 25-1	1950-56	Q	5.46	5- 9-50	9.36	9-19-55	8.65	7-16	9.26	12-19	
25-2	1950-51, 56	Q	6.50	9-14-50	8.69	10-3- 56	8.36	7-16	8.69	10- 3	
25-3	1950-56	Q	19.71	5- 3-50	26.32	12-19-56	25.76	7-16	26.32	12-19	
Cass County											
6S 16W 1-1	1949-56	W	+ 4.20	11-30-51	5.97	7-24-53	+ 3.61	3-16	2.72	9-14	
8S 14W 17-1	1945-56	W	46.20	7-16-50	55.03	3-10-47	49.44	7-15	50.78	12-30	
Charlevoix County											
33N 4W 2-1	1948-56	Q	70.85	7-19-52	75.85	4-16-56	74.40	10-24	75.85	4-16	
32N 4W 10-1	1934-41, 48-56	Q	1.19	3-30-38	5.85	10-24-56	2.90	4-16	5.85	10-24	
Cheboygan County											
34N 1W 1-1	1938-41, 48-52, 55-56	A	2.75	3-28-38	5.55	10-13-55					A - 5.08, 10-24-56
26-1	1935-44, 48-56	Q	3.90	3-28-38	7.45	10-13-55	5.87	4-16	7.26	10-24	
33N 1W 3-1	1935-44, 48-56	Q	3.99	8-12-42	7.63	10-24-56	5.90	4-16	7.63	10-24	
10-1	1935-41, 48-52, 55-56	A	1.98	3-28-38	7.84	10-13-55					A - 6.53, 10-24-56
33N 1E 23-1	1935-41, 48-52, 55-56	A	1.89	3-28-38	9.42	10-18-49					A - 8.08, 10-31-56
27-1	1939-44, 48-56	Q	1.72	4-28-54	5.21	10-18-49	2.06	4-13	3.61	1-27	
28-1	1935-41, 48-52, 55-56	A	0.95	3-28-38	4.51	10-13-55					A - 3.42, 10-24-56
Chippewa County											
46N 4W 24-1	1952-56	R	22.67	5-21-53	27.77	4-12-56	23.90	8-22	27.77	4-12	
Clinton County											
8N 1W 13-1	1947-56	Q	+ 3.78	6- 3-50	35.97	9-16-47	26.60	4-13	33.62	9-27	
13-3	1947-56	Q	8.3	4- 5-50	26.4	10-11-49	11.95	7-13	19.03	4-13	
6N 2W 16-1	1948-56	M	14.59	4-19-52	18.53	12-29-53	16.13	5-28	18.13	2-28	
5N 2W 32-1	1944-56	Q	42.02	9-14-44	75.82	12-20-56	73.37	5-28	75.82	12-20	
Crawford County											
28N 2W 30-1	1933, 35-37, 43-56	A	1.33	4-17-47	4.92	10-13-49					A - 4.47, 10-31-56
28N 1W 8-1	1934-56	A	4.16	4-18-52	8.78	3-10-36					A - 7.97, 10-31-56
20-1	1934-56	A	3.44	4-18-52	7.04	10-12-55					A - 6.69, 10-31-56

Table 2.--Extremes in ground-water levels in observation wells in Michigan.--Continued
(in feet below or above (+) land surface)

Well Designation Twp.Rg.Sec.-No.	Years of record	Frequency of measurement in 1956	Observed water-level extremes								Remarks
			Period of record				1956				
			Highest	Date	Lowest	Date	Highest	Date	Lowest	Date	
Crawford County - Continued											
27N 4W 2-1	1934-56	Q	3.84	4-17-47	7.08	3-14-51	5.25	4-17	6.71	10-24	
19-1	1949-56	A	14.43	5-14-52	17.59	12-14-49					A - 16.60, 11- 1-56
23-1	1939-56	A	10.91	7-11-43	14.49	10-24-56					A - 14.49, 10-24-56
27N 3W 15-1	1948-56	A	6.95	4-18-52	10.14	10-12-55					A - 10.07, 10-31-56
15-2	1948-56	A	1.32	4-18-52	4.20	10-12-55					A - 4.07, 10-31-56
27N 1W 4-1	1934-56	A	2.74	4-18-52	4.77	3-14-51					A - 4.38, 10-31-56
20-1	1934-56	A	1.55	7-11-43	5.92	10-12-55					A - 5.31, 10-31-56
22-1	1934-56	Q	3.51	4-18-52	6.38	1-27-56	4.50	4-13	6.38	1-27	
26N 4W 2-1	1955-56	Q	7.55	4-18-56	11.08	10-11-55	7.55	4-18	9.22	1-12	
5-1	1934-56	A	+ 0.35	4-18-52) 6-17-43)	4.63	9-25-35					A - 2.95, 11- 1-56
5-2	1934-56	A	2.31	6-17-43	7.21	10-11-55					A - 5.64, 11- 1-56
10-1	1934-56	A	2.04	6-17-43	8.42	10-11-55					A - 6.96, 11- 1-56
11-1	1942-56	R	4.03	6- 1-43	9.83	10- 3-55	6.33	10- 9	9.17	3- 1	
28-1	1949-56	Q	19.42	7- 1-54	22.39	7-23-49	20.93	4-18	21.66	11- 1	
26N 3W 8-1	1949-56	Q	2.62	4-18-52	3.44	10-13-49	2.91	4-19	3.14	11- 2	
12-1	1935-56	Q	4.04	3-21-38	9.39	2-15-51	8.04	8-21	9.21	1-27	
26N 2W 11-1	1935-56	A	0.77	6-13-39	2.54	7-23-40					A - 1.44, 10-31-56
25N 4W 7-2	1952-56	A	62.58	11-10-53	64.66	11- 2-56					A - 64.66, 11- 2-56
8-1	1952-56	A	55.36	11-12-52	57.48	11- 2-56					A - 57.48, 11- 2-56
21-1	1953-56	A	36.72	9- 9-53	38.66	11- 2-56					A - 38.66, 11- 2-56
25N 3W 28-1	1934-37, 39-56	Q	8.70	6-15-43	10.85	11-11-49) 2-15-51)	9.93	4-12	10.73	10-23	
25N 1W 15-1	1948-56	R	29.44	8- 4-53	35.97	4- 4-51	32.10	9-19	33.56	4- 9	
Dickinson County											
43N 29W 32-1	1948-56	M	5.12	4-18-51	dry	10-12-48	7.72	4-30	10.55	3-29	
42N 27W 33-1	1945-46, 48-56	M	3.08	4-29-54	10.75	10- 3-55	5.08	4-30	9.41	2-28	
41N 30W 25-1	1948-56	M	3.51	10-30-51	dry	10-3 to 12-30-55	9.24	8- 1	dry	Jan.-March	
25-2	1945-46, 48-56	M	2.61	10-30-51	14.40	3-29-56	6.73	8- 1	14.40	3-29	
25-3	1945-46, 48-56	M	1.73	7- 6-53	dry	Nov. 1948) - Apr. 1949)	4.91	7- 3	dry	2-28 - 3-29	
Eaton County											
4N 4W 2-1	1948-56	W	21.34	5- 5-50	28.79	12- 3-49	22.07	6- 4	27.31	2-20	
4N 3W 9-1	1944-56	Q	5.55	4-26-52	dry	2-23-54	10.60	7-11	15.12	12-21	
10-1	1944-56	M	31.28	5-27-48	37.78	2-28-56	36.51	5-28	37.78	2-28	
12-1	1953-56	R	67.51	11-23-53	78.10	8-19-55	69.20	5-14	75.26	6-15	
24-1	1944-56	Q	0.14	4-24-50	dry	12-12-55	19.23	4-10	dry	9-24) 12-20)	
2N 4W 19-1	1947-56	Q	8.04	4-7-47	15.77	1- 2-48	13.57	4-24	15.47	12-19	
Genesee County											
7N 7E 9-1	1946-56	Q	17.50	4-11-48	41.11	7- 6-56	25.71	4-13	41.11	7- 6	
17-1	1946-56	R	24.23	2-12-50	37.99	8-24-55	27.63	3- 7	34.41	8-18	
20-2	1947-56	Q	1.09	4-26-50	9.07	9-15-55	5.44	12-12	8.20	7- 6	
29-1	1946-56	Q	1.69	12-22-49	7.62	9-15-55	3.32	4-13	4.74	7- 6	
29-2	1946-56	M	+ 0.20	6-29-48	5.37	10-17-46	1.60	4-13	3.27	9-27	
32-1	1946-56	Q	18.51	6- 2-47	30.35	9-15-55	27.82	12-12	29.45	7- 6	
6N 7E 9-1	1952-56	R	37.79	11-24-52	52.9	8- 3-55	42.8	12-26	49.8	8- 3	
Gladwin County											
17N 1W 7-1	1950-56	D	28.90	5-14-56	49.35	6-26-50	28.90	5-14	46.95	6-15	
Grand Traverse County											
27N 9W 4-1	1934-37, 41-44, 48-52, 55-56	A	0.91	9-20-44	2.54	7-26-35					A - 1.34, 10-30-56
28-1	1934-37, 41-44, 48-52, 55-56	A	12.11	8- 6-43	dry	10-30-56					A - dry, 10-30-56
34-1	1934-37, 41-44, 48-52, 55-56	A	13.78	8- 6-43	dry	Jan, May) - Dec. 37)					A - dry, 10-30-56
35-1	1934-37, 41-44, 48-56	Q	11.76	10-7-53	15.62	9-10-37	13.85	1-12	14.26	10-30	
26N 11W 21-1	1936-37, 41-44, 48-52, 55-56	A	1.02	10-30-51	3.31	7-31-41					A - 2.02, 10-30-56
27-1	1935-37, 41-44, 48-56	Q	1.32	10-30-51	4.02	8-18-36	1.58	4-17	3.11	10-30	
26N 9W 13-1	1934-37 41-44, 48-56	Q	4.83	4-14-55	7.87	10-11-49	5.18	4-17	7.19	1-12	
25N 11W 2-1	1935-37, 43-44, 48-56	Q	1.51	4-22-54	6.40	11-14-35	1.71	4-17	5.73	1-12	
25N 10W 2-1	1936-37, 41-44, 48-56	Q	0.29	9- 3-42	1.68	7-1 -37	1.10	4-17	1.59	10-30	

Table 2.--Extremes in ground-water levels in observation wells in Michigan.--Continued
(in feet below or above (+) land surface)

Well Designation Typ.Rg.Sec.-No.	Years of record	Frequency of measurement in 1956	Observed water-level extremes: Period of record Highest	Date	Lowest	Date	1956 Highest	Date	Lowest	Date	Remarks
							Grand Traverse County - Continued				
25N 10W 8-1	1934-37, 41-44, 48-52, 55-56	A	0.22	10-30-51	2.43	8-27-37					A - 1.06, 10-30-56
25N 9W 23-1	1934-37, 41-44, 48-53, 55-56	A	3.23	5- 8-51	5.37	9-20-44					A - 4.05, 10-30-56
26-1	1934-37, 41-44, 48-53, 55-56	A	3.96	5- 9-52	7.63	1-24-49					A - 6.94, 10-30-56
34-1	1934-37, 41-44, 48-56	Q	10.86	8- 6-43	14.38	2-22-49	13.58	8-22	13.96	4-17	
							Gratiot County				
12N 3W 33-1	1947-56	Q	8.88	6-10-47	13.63	11-28-49	11.72	7-10	13.26	12-17	
34-1	1947-56	Q	6.08	4-26-48	40.87	6-28-50	27.76	9-26	28.45	4-18	
34-2	1946-52, 54-56	A	4.47	3-23-48	9.39	8-23-46					A - 7.87, 9-26-56
34-3	1946-52, 54-56	Q	5.17	4-26-48	31.05	6-28-50	24.14	12-17	24.86	4-18	
34-4	1950-56	Q	21.41	4-28-50	dry	Feb. & April '50)	25.15	4-18	26.88	9-26	
34-5	1944, 47-50, 55-56	Q	19.94	5- 6-50	42.73	9-15-48	25.06	4-18) 7-10)	26.60	9-26	
35-1	1947-52, 54-56	A	10.60	5-17-48	12.95	9-26-56					A - 12.95, 9-26-56
35-2	1947-52, 54-56	A	4.72	6-10-47	11.98	12-22-54					A - 11.96, 9-26-56
35-3	1947-56	Q	10.07	5- 3-48	21.64	6-24-52	19.82	4-18	20.61	12-17	
35-4	1950-52, 54-56	A	4.36	4-27-51	9.56	9-26-56					A - 9.56, 9-26-56
35-5	1950-56	Q	13.74	4- 7-50	17.91	11-12-53	15.99	4-18	17.54	12-17	
11N 3W 2-2	1947-56	Q	25.0	4-29-48	72.5	8-26-50	62.65	7-10	65.36	12-17	
2-3	1946-52, 54-56	A	5.00	3-23-48	9.16	11-28-49					A - 8.08, 9-26-56
2-4	1947-56	Q	7.69	6-10-47	11.37	11-28-49	9.09	7- 9	10.92	12-17	
3-1	1946-56	Q	20.45	11- 6-47	67.62	8-14-53	35.54	12-17	44.96	9-26	
3-2	1955-56	Q	32.26	6-14-55	73.55	12-17-56	36.35	9-26	73.55	12-17	
3-4	1946-52, 54-56	A	16.76	4-12-48	33.22	7-26-51					A - 29.59, 9-26-56
3-5	1947-56	Q	24.35	4-26-48	45.79	9-14-55	42.47	4-18	44.89	12-17	
3-6	1946-56	Q	7.64	2-27-51	32.98	12-16-55	25.52	9-26	32.50	7-10	
4-1	1955-56	Q	12.06	6-14-55	18.58	9-26-56	12.93	4-18	18.58	9-26	
4-2	1955-56	Q	9.24	6-14-55	48.48	9-26-56	11.03	7-10	48.48	9-26	
5-1	1955-56	Q	11.01	7-10-56	13.46	9-26-56	11.01	7-10	13.46	9-26	
36-1	1947-56	Q	78.25	1-22-52	83.96	9- 4-49	80.25	4-18	80.66	9-26	
9N 3W 8-1	1947-56	Q	1.82	1-17-52	21.23	12-16-49	8.61	4-18	19.58	12-17	
							Ingham County				
4N 2W 4-1	1953-56	R	25.98	3- 3-53	31.51	12-12-56	30.29	1- 9	31.51	12-12	
7-1	1944-56	M	53.94	11- 2-44	78.31	11-30-56	77.09	8-28	78.31	11-30	
9-1	1919, 1929-56	Q	15.63	3-26-31	154.77	4-10-56	142.84	12-21	154.77	4-10	
9-2	1945-56	Q	61.26	3-23-46	143.27	12-12-55	134.02	12-21	142.77	4-10	
16-1	1945-56	Q	42.01	3-11-46	67.0	8-22-49	58.62	4-10	59.85	12-27	
17-1	1929, 31, 33-56	Q	34.34	Dec. '29	149.64	4-11-56	143.41	12-21	149.64	4-11	
17-2	1946-56	Q	104.86	12-10-46	148.47	4-10-56	145.77	12-21	148.47	4-10	
19-1	1947-56	Q	0.00	3-29-50	4.68	12-20-56	3.55	5-28	4.68	12-20	
21-1	1906-56	Q	2.	5- 9-06	61.26	4-11-56	59.66	12-21	61.26	4-11	
22-1	1930-56	Q	7.1	July '32	47.36	12-21-56	36.96	7- 9	47.36	12-21	
22-2	1930-56	Q	12.65	July '32	60.73	9- 2-55	48.22	7- 9	56.74	12-21	
23-1	1930-32, 36-56	M	7.55	11-17-30	105.28	7-17-56	77.61	12-31	105.28	7-17	
24-1	1945-56	R	25.47	3-25-46	67.10	6-14-56	50.1	1- 4	67.10	6-14	
25-1	1944-50, 55-56	M	21.60	3-30-46	39.06	10-31-56	36.06	4-10	39.06	10-31	
28-1	1944-45, 48-56	Q	30.28	4-23-48	54.40	8-19-48	43.66	7- 9	49.75	9-24	
31-1	1944-56	M	18.92	4-26-52	24.77	2- 2-54	21.47	5-28	24.40	2-28	
4N 1W 16-1	1953-56	M	50.20	12-15-53	58.07	12- 5-56	52.93	1- 3	58.07	12- 5	
18-1	1952-56	Q	20.09	4-27-53	28.56	12-21-56	26.32	7- 9	28.56	12-21	
3N 2W 8-1	1950-56	Q	10.43	5- 1-50	15.22	11-24-53	11.63	5-28	14.82	12-21	
2N 1W 5-1	1948-56	W	0.08	6-29-49	7.37	9-17-55	1.25	5-14	4.79	7-14	
							Iosco County				
23N 7E 7-1	1948-56	Q	25.13	8- 3-52	27.94	1- 3-50	25.86	1- 9	26.11	10-23	
							Iron County				
46N 34W 14-1	1945-56	M	3.65	6- 2-54	8.60	3-15-49	5.76	4-30	7.74	3-29	
46N 33W 18-1	1948-56	M	2.80	4-18-49	dry	2-28-56	5.68	5-31	dry	2-28	
45N 37W 23-1	1948-56	M	0.75	8-31-51	4.72	9-11-48	1.27	5-31	2.74	9- 1	
45N 36W 23-1	1945-46, 48-56	M	5.71	5-31-56	23.21	5-16-49	5.71	5-31	19.93	11-30	
45N 35W 33-1	1948-56	M	1.93	7- 6-53	8.44	3-15-49	3.70	8- 1	6.18	3-29	
45N 33W 8-1	1945-56	M	23.39	10-30-51	32.16	3-15-49	26.50	9- 1	28.75	3-29	
10-1	1948-56	M	2.01	9-28-51	4.23	3-12-49	2.73	4-30	3.44	8- 1	
44N 35W 6-1	1948-56	M	+ 0.10	5- 2-51	2.26	11-15-48	1.16	7- 3	1.88	9- 1	
6-2	1948-56	M	5.08	7- 6-53	8.92	11-15-48	7.30	4-30	8.45	11- 1	
6-3	1948-56	M	4.03	7- 6-53	9.20	11-15-48	7.02	4-30	8.70	11- 1	

Table 2.--Extremes in ground-water levels in observation wells in Michigan.--Continued
(in feet below or above (+) land surface)

Well Designation Twp.Rg.Sec.-No.	Years of record	Frequency of measurement in 1956	Observed water-level extremes: Period of record Highest	Date	Lowest	Date	1956 Highest	Date	Lowest	Date	Remarks
					Iron County - Continued						
44N 35W 7-1	1948-56	M	1.12	5- 2-51	3.51	9-14-49	2.46	7- 3	3.30	9- 1	
7-2	1948-56	M	2.50	7- 6-53	9.44	10-26-48	4.23	4-30	5.13	11- 1	
7-3	1948-56	M	8.48	5- 2-51	13.40	10-26-48	11.50	4-30	12.60	11- 1	
44N 33W 10-1	1948-56	M	1.95	4-29-54	7.94	1-12-51) 12-29-52)	3.19	4-30	7.03	2-28	
43N 36W 1-1	1948-56	M	6.67	4-29-54	9.02	6-30-52	7.87	5-31	8.74	8- 1	
1-2	1945-56	M	42.17	4-11-52	48.68	11-23-48	44.02	7-25	45.50	3-21	
43N 35W 11-1	1945-56	M	39.33	1-11-52	47.08	8-15-49	41.92	1-30	43.07	8- 1	
13-1	1945-56	M	47.90	9-11-46	63.68	11-30-46	53.73	10-23	54.70	6-25	
13-2	1945, 47-56	M	66.39	1-14-52	71.56	3-24-49	68.50	11-20	69.44	3-21	
20-1	1945-56	M	41.66	6-20-53	48.29	8-15-49	44.10	8- 1	44.96	6-25	
22-1	1945, 47-56	M	118.82	9-16-53	132.37	1-19-49	127.61	8-23	131.29	3-21	
24-1	1945-56	M	70.42	11-20-56	86.05	1-19-49	70.42	11-20	71.16	4-25	
26-1	1945-56	M	25.30	9-24-45	44.58	3-24-50	30.45	9-26	34.41	3-21	
43N 34W 19-1	1945-56	M	63.37	12-20-56	89.5	10-20-45	63.37	12-20	64.60	3-21	
19-2	1945-56	M	69.35	12-20-56	84.10	12-21-48	69.35	12-20	70.29	3-21	
29-1	1947-53, 56	M	10.31	8-15-53	20.69	3-24-50	13.07	5-28	15.01	12-20	
43N 32W 26-2	1952-56	M	1.04	5-12-55	86.03	3-18-53	6.08	7-25	9.77	12-20	
42N 36W 15-1	1948-56	M	0.81	4-29-54	3.17	10-26-48	1.84	5-31	2.84	11- 1	
15-2	1948-56	M	0.46	7- 6-53	3.10	10-26-48	1.26	4-30	2.59	11- 1	
15-3	1948-56	M	3.67	4-29-54	8.29	10-26-48	5.57	7- 3	7.32	11- 1	
42N 34W 7-1	1945-56	M	132.24	8-23-56	153.27	4-21-50	132.24	8-23	133.84	7-25	
42N 31W 33-1	1948-56	M	+ 0.03	7- 3-56	6.28	10-13-48	+ 0.03	7- 3	4.50	2-28	
33-2	1945-56	M	1.89	10-30-51	12.22	2-25-53	4.40	8- 1	11.51	3-29	
41N 31W 10-1	1948-56	M	8.47	1- 3-52	dry	In 1948;) '49, '52)	10.40	8- 1	15.79	4-30	
					Kalamazoo County						
2S 11W 3-29	1953-56	W	18.85	3- 7-55	24.60	7-27-53	20.41	5-21	23.60	7- 2	Measurements discontinued 7-9-56
3-37	1946-56	Q	9.49	4-18-50	14.90	10- 4-56	12.68	4-25	14.90	10- 4	
3-60	1956	W	--	--	--	--	10.48	7-17	12.04	10-15	Measurements begun 7-16-56
15-18	1946-56	Q	9.20	3-28-50	15.40	8-23-56	12.95	8-23	15.40	12-19	
15-31	1946-56	Q	18.55	5-22-50	25.85	2-24-54	24.99	10- 4	25.85	12-20	
15-33	1946-56	Q	13.64	4-18-50	20.95	2-24-54	17.90	7-17	20.94	12-20	
20- 7	1946-56	Q	33.44	6-19-50	36.43	12- 5-46	35.34	7-17	36.06	12-19	
22- 6	1946-56	R	11.22	3-11-52	29.36	8- 9-46	17.17	1- 3	23.56	8-31	
22-102	1946-56	Q	13.98	5- 3-50	27.42	12- 5-46	21.62	7-17	26.18	10- 4	
26- 3	1947-56	Q	3.63	4-26-50	11.14	11- 6-53	8.06	7-17	9.48	10- 4	
27-52	1946-56	R	34.46	5- 5-50	64.37	9- 1-46	40.27	1- 2	43.94	11- 9	
29- 3	1946-56	Q	26.12	8- 1-52	29.88	8- 6-53	28.15	7-17	29.08	12-19	
4S 11W 13-1	1946-56	W	+ 2.08	4- 7-47	10.15	9- 9-46	+ 0.62	5-19	5.88	9-15	
13-2	1946-56	W	+ 0.55	7- 8-50	9.72	9-14-46	1.67	7- 6	7.71	8-25	
27-1	1953-56	W	12.94	7-12-56	15.22	1-20-54	12.94	7-12	14.84	12-27	
					Kalkaska County						
28N 5W 35-1	1949-56	Q	8.62	4-16-53	11.77	12-14-49	10.46	8-22	11.64	1-12	
27N 5W 27-1	1942-56	A	12.50	7-11-43	17.22	1-23-50					A - 16.86, 10-30-56
36-1	1939-56	Q	11.12	7-11-43	14.69	3-12-40	13.47	4-17	14.36	1- 9	
					Kent County						
6N 12W 17-1	1950-56	W	6.88	6- 8-56	16.45	2-12-54	6.88	6- 8	13.82	2- 3	
17-2	1950-56	W	7.34	6- 1-56	16.32	2-12-54	7.34	6- 1	13.70	2-10	
17-3	1950-56	W	7.14	6- 1-56	15.87	2-12-54	7.14	6- 1	13.32	1-20	
17-4	1950-56	W	7.80	6- 1-56	16.81	2-12-54	7.80	6- 1	14.14	12-28	
17-5	1950-56	W	13.30	6- 1-56	22.22	2-12-54	13.30	6- 1	19.52	12-28	
					Mackinac County						
42N 2W 7-1	1956	R	--	--	--	--	16.56	7-15	28.0	10-25	Measurements begun 6-7-56
41N 5W 23-1	1956	R	--	--	--	--	13.93	12-14	15.51	11-15	Measurements begun 10-18-56
					Marquette County						
49N 30W 22-1	1948-56	M	0.64	5- 3-51	13.32	9- 2-48	6.79	4-30	10.81	11- 1	
45N 30W 1-1	1945-56	M	24.38	12-13-56	29.28	3-15-49	25.71	10- 1	26.92	4-30	
44N 26W 28-1	1953-56	M	2.05	5-10-54	2.64	8-30-55	2.17	4- 6	2.53	11- 2	

Table 2.--Extremes in ground-water levels in observation wells in Michigan.--Continued
(in feet below or above (+) land surface)

Well Designation Twp. Rg.Sec.-No.	Years of record	Frequency of measurement in 1956	Observed water-level extremes								Remarks
			Period of record				1956				
			Highest	Date	Lowest	Date	Highest	Date	Lowest	Date	
Mason County											
17N 15W 3-1	1948-56	Q	14.44	5-15-52	18.50	3- 1-51	~~17.20~~ 17.20	4-18	~~18.47~~	1-11	
Montcalm County											
9N 8W 15-1	1950-56	W	11.40	4- 1-50	17.36	8- 3-55	13.16	5-16	16.96	6-13	
Montmorency County											
32N 2E 34-1	1948-56	Q	17.41	5-15-52	20.97	8-17-49	20.07	4-13	20.62	10-31	
31N 2E 11-1	1934-56	Q	7.40	3-29-38) 4-21-52)	dry	10-27-39	9.94	4-13	11.89	1-27	
14-1	1948-56	A	11.79	5-15-52	14.81	10-~~31~~-56					A - 14.81, 10-31-56
31N 3E 9-1	1936-44, 48-56	Q	2.85	4-21-52	7.76	12-15-49	6.00	4-13	7.82	1-27	
31N 4E 8-1	1935-53, 55-56	A	0.06	6-19-51	4.84	9- 4-36					A - 2.13, 10-31-56
34-1	1935-37, 46-53, 55-56	A	0.02	4-15-36	1.05	7-17-50					A - 0.77, 10-31-56
30N 2E 6-1	1945-53, 55-56	A	+ 0.55	6-19-51	3.98	12-15-49					A - 0.81, 10-31-56
30N 4E 26-1	1935-37, 45-56	Q	+ 0.78	7- 2-45	2.33	9-23-48	0.04	4-13	1.34	1-27	
29N 2E 22-1	1948-53, 56	Q	+11.39	4-19-56	4.95	1-29-49	+ 11.39	4-19	+ 9.68	10-31	
27-1	1945-53, 55-56	A	+ 1.20	4-18-46) 6- 1-46)	1.98	9-27-49					A - 1.17, 10-31-56
29N 3E 21-1	1945-56	Q	2.63	5-15-52	5.91	1-27-56	4.65	8-21	5.91	1-27	
29N 4E 5-1	1945-53, 55-56	A	2.75	3-18-53	dry	11- 1-46					A - 8.76, 10-31-56
Oakland County											
3N 10E 31-1	1952-56	R	109.2	1- 5-53	128.0	8- 6-55	111.0	12-25	120.3	1-13	
32-1	1939-56	R	59.55	4-22-40	129.5	8- 5-55	110.9	12-25	121.1	1-13	
2N 10E 22-1	1950-56	W	11.00	4-30-56	17.60	9-26-55	11.00	4-30	17.05	2-20	
Ogemaw County											
23N 1E 4-1	1934, 55-56	Q	~~1.99~~ 1.97	~~5-12-56~~ 5-18-55	4.26	10-10-55	~~2.09~~ 2.04	4-12	~~4.29~~ 4.20	~~1-23~~ 1-9	
17-1	1934, 55-56	A	4.34	5-19-55	7.04	10-10-55					A - 6.89, 10-23-56
23N 2E 2-1	1951-56	Q	0.37	5- 5-52	3.45	1- 9-56	1.70	4-12	3.45	1- 9	
Otsego County											
29N 3W 29-1	1933-56	Q	5.56	5-14-47	9.68	9-16-41	7.27	4-16	8.88	10-24	
32-1	1935-56	A	0.67	4-17-47	4.59	8-26-41					A - 3.92, 10-24-56
Presque Isle County											
33N 2E 18-1	1933-44, 48-52, 55-56	A	2.05	3-29-38	5.74	10-18-49					A - 4.72, 10-31-56
29-1	1934-44, 48-52, 55-56	A	6.87	3-29-38	9.79	10-18-49					A - 9.34, 10-31-56
30-1	1934-44, 48-56	Q	1.80	5-23-38	5.69	1-27-56	3.53	8-21	5.69	1-27	
32-1	1934-44, 48-52, 55-56	A	5.86	3-29-38	10.58	10-18-49					A - 9.06, 10-31-56
Roscommon County											
24N 3W 3-1	1934-56	A	10.20	7- 7-54	13.26	12-14-49					A - 12.67, 10-23-56
24-1	1934-56	Q	5.95	7- 9-43	11.62	12-13-49	9.50	4-12	10.61	1- 9	
24N 2W 1-1	1934-56	A	6.68	4-17-52	11.53	12-14-49					A - 9.16, 10-23-56
7-1	1934-56	A	5.18	7- 7-54	8.62	9-17-45					A - 7.61, 10-23-56
19-1	1934-56	A	1.15	6-15-43	6.05	11-11-49					A - 5.29, 11- 1-56
20-1	1934-56	R	2.78	5- 3-51	6.23	12- 6-49	4.31	4-15	6.08	2-23	
21-1	1939-56	A	1.98	4-17-52	8.07	12-13-49					A - 6.28, 11- 1-56
24N 1W 34-1	1934-56	Q	14.40	6-15-43	dry	11- 6-39) 5- 2-40)	16.38	8-20	17.33	1- 9	
23N 3W 12-1	1938-56	A	5.21	6-15-43	10.15	8-16-54					A - 9.23, 11- 1-56
25-1	1934-56	Q	3.44	4-17-52	6.76	8-14-36	4.12	4-12	5.94	11- 1	
23N 2W 31-1	1949-56	A	1.55	4-17-52	4.78	10-11-55					A - 3.63, 11- 1-56
23N 1W 3-1	1939-56	Q	1.62	6-15-43	7.31	12-14-49	3.93	4-12	5.90	1- 9	
22N 4W 15-1	1934-46, 48-56	A	1.29	11-16-45	5.29	9-20-54					A - 3.66, 11- 1-56
22N 3W 22-1	1934-56	Q	3.25	4-17-52	8.25	12-13-49	5.71	4-12	7.48	1- 9	
34-1	1934-37, 39-56	A	2.54	6-15-43	8.45	12-13-49					A - 5.82, 11- 1-56
22N 2W 14-1	1934-56	A	2.93	10-14-41	7.35	10-14-48					A - 5.47, 10-23-56
17-1	1934-56	Q	1.34	4- 1-38	5.38	11- 9-49	2.18	4-12	4.56	1- 9	
22N 1W 11-1	1934-56	A	1.10	6-15-43	6.22	11-11-49					A - 4.37, 10-23-56

Table 2.--Extremes in ground-water levels in observation wells in Michigan.--Continued
(in feet below or above (+) land surface)

Well Designation Twp.Rg.Sec.-No.	Years of record	Frequency of measurement in 1956	Observed water-level extremes								Remarks
			Period of record				1956				
			Highest	Date	Lowest	Date	Highest	Date	Lowest	Date	
Roscommon County - Continued											
21N 4W 4-1	1939-56	A	1.28	4-21-41	7.14	10-12-49					A - 5.31, 11- 1-56
13-1	1935-56	A	1.54	6-16-45	5.95	10-14-48					A - 4.23, 11- 1-56
21N 3W 2-1	1936-56	A	11.96	7- 9-43	15.98	4- 2-40					A - 14.58, 11- 1-56
5-1	1934-56	Q	9.61	6-15-43	11.81	11-11-49	10.29	4-12	11.15	11- 1	
Saginaw County											
9N 3E 16-1	1950-56	W	39.66	11-23-51	dry	summers	51.74	12-24	dry	summer	Often dry in summer
St. Joseph County											
6S 11W 18-1	1939-56	W	+ 2.90	5-22-53) 6-12-53)	5.70	9-27-47	+ 1.58	5-18	2.60	9-14	
Sanilac County											
12N 13E 33-1	1948-56	W	15.45	4-25-51	23.42	2- 1-56	17.54	5-23	23.42	2- 1	
Schoolcraft County											
45N 13W 16-1	1952-56	R	5.09	4-12-54	6.28	9-26-55	5.49	12-27	5.91	11- 5	
Shiawassee County											
5N 2E 16-1	1948-56	Q	17.28	5- 3-50	21.10	10-30-53	18.48	7-13	20.31	12-12	
Washtenaw County											
3S 6E 16-1	1920-56	W	e/ + 2.5	2- -30	e/ 10.0	11- -27	e/ + 0.6	5-16	5.19	10-20	e/ estimated
16-2	1948-56	W	+ 2.00	6-30-51	15.31	8-30-53	0.83	5-30	10.80	9-20	
3S 7E 24-1	1943-45, 49-56	M	5.79	1- 5-50	16.43	10-16-56	13.70	7-17	16.43	10-16	
24-2	1943-45, 49-56	M	11.81	7-13-43	30.46	10-16-56	25.12	7-17	30.46	10-16	
24-4	1943-45, 49-56	M	11.55	1- 5-50	31.68	10-16-56	26.55	7-17	31.68	10-16	
24-5	1943-45, 49-56	M	15.15	6- 6-45	34.12	12-17-56	23.12	6- 1	34.12	12-17	
24-6	1944-45, 49-56	M	5.69	2-15-50	25.87	8- 2-56	20.28	7-17	25.87	8- 2	
24-7	1955-56	M	23.47	12-29-55	36.05	10-16-56	34.59	6- 1	36.05	10-16	
4S 6E 9-1	1946-56	W	51.22	5-15-48	88.14	6-17-49	75.92	12-28	78.09	3-23	
10-1	1946-56	W	61.48	6-12-53	88.27	7- 8-55	66.18	6- 1	83.77	8-31	
Wexford County											
24N 10W 22-1	1935-37, 41-44, 48-52, 55-56	A	1.40	8- 6-43	3.88	10-30-56					A - 3.88, 10-30-56
26-1	1935-37, 44, 48-52, 55-56	A	0.99	3-27-36	3.15	10-30-56					A - 3.15, 10-30-56
28-1	1935-37, 41-44, 48-56	Q	5.20	8- 6-43	9.36	1-11-56	8.07	4-17	9.36	1-11	
36-1	1935-37, 41-44, 48-52, 55-56	A	2.70	3-27-36	5.63	8-19-36					A - 4.85, 10-30-56
24N 9W 19-1	1935-37, 41-44, 49-56	Q	0.94	4-10-51	3.74	8-19-36	1.24	4-17	1.99	10-30	
27-1	1935-37, 41-44, 49-53, 55-56	A	0.00	3-21-50	dry	1-10-49) 10-30-56)					A - dry , 10-30-56
21N 11W 13-1	1948-56	Q	46.28	6- 5-52	49.78	4-18-56	48.73	10-25	49.78	4-18	
21N 9W 4-1	1949-56	Q	19.99	7- 6-53	23.24	2-14-51	21.01	1-11	21.96	10-30	