

Monthly Water Level Records for Jackson 1
 Observation Well in Jackson State Forest, Brownstown
 Years 1937 - 1945 (inclusive)

Water level in feet below land surface datum				
	1937	1940 (Cont.)	1943 (Cont.)	1944 (Cont.)
Jan.	15 1.75	Aug. 1 9.15	June 1 5.1	Nov. 20 10.30
Feb.	3 4.15	15 9.35	15 6.5	27 9.60
	15 4.75	Sept. 1 9.25	July 1 7.8	Dec. 4 9.71
Mar.	4 5.64	15 9.6	19 8.8	12 8.96
	19 5.29	Oct. 3 9.74	Aug. 3 9.2	19 8.90
Apr.	21 6.00	15 9.9	17 9.6	26 8.30
	30 5.65	Nov. 1 10.15	Sept. 1 10.3	<u>1945</u>
May	17 4.7	15 9.35	15 10.0	Jan. 2 7.70
June	4 6.87	Dec. 1 9.6	30 10.4	8 6.80
July	20 7.80	16 9.0	Oct. 15 10.8	15 5.60
Aug.	6 8.00	<u>1941</u>	Nov. 2 10.7	22 6.72
	16 8.00	Jan. 1 8.4	16 10.5	29 7.50
Sept.	1 8.25	15 8.15	Dec. 2 10.6	Feb. 5 7.70
	16 8.20	Feb. 1 7.6	17 10.75	12 6.77
	<u>1938</u>	15 7.65	<u>1944</u>	19 6.30
Oct.	25 8.46	Mar. 1 7.6	Jan. 3 10.4	26 1.40
Nov.	1 8.75	15 7.85	17 9.6	Mar. 5 3.50
Dec.	15 8.00	Apr. 1 7.9	Feb. 1 9.9	12 4.50
	1 8.00	15 7.6	14 9.5	19 4.20
	<u>1939</u>	May 1 7.65	21 9.2	26 4.30
Jan.	2 7.5	15 7.75	28 7.3	Apr. 2 3.20
	16 7.7	June 1 8.1	Mar. 6 6.0	10 5.00
Feb.	2 4.25	15 6.35	13 6.1	16 3.22
	15 4.25	July 1 7.25	20 5.3	23 4.06
Mar.	2 4.1	15 7.35	29 4.2	30 5.70
	15 3.5	Aug. 1 8.85	Apr. 3 5.0	May 7 5.95
Apr.	3 4.5	15 8.65	10 4.2	14 5.95
	15 1.2	Sept. 3 8.65	17 5.5	21 4.60
May	1 5.7	15 9.15	24 2.9	28 5.83
	15 6.5	Oct. 1 10.6	May 1 5.0	June 4 6.30
June	1 7.3	13 9.95	9 5.1	11 6.54
	15 7.6	14 11.4	15 6.1	18 2.60
July	5 6.75	Nov. 1 9.4	22 7.0	25 3.80
	14 7.0	15 9.65	29 8.0	July 2 3.70
Aug.	1 7.0	Dec. 1 9.5	June 5 7.3	9 5.97
	15 7.0	15 9.5	12 7.9	16 7.00
	31 8.25	<u>1942</u>	19 7.6	23 7.40
Sept.	15 8.15	Apr. 17 4.89	26 8.2	30 8.19
	29 8.6	May 2 6.7	July 3 9.10	Aug. 6 7.50
Oct.	16 8.65	9 6.12	10 9.70	14 9.20
Nov.	1 8.85	16 12.8	17 9.90	20 9.63
	15 8.85	30 5.6	24 10.30	27 10.00
	30 8.85	Aug. 1 8.33	31 10.50	Sept. 4 10.40
Dec.	15 8.5	15 8.0	Aug. 7 10.80	10 10.60

Monthly Water Level Records for Jackson 1 (Cont.)

1940		1942 (Cont.)					
Jan.	2 8.65	Sept.	15 9.5	Aug.	14 11.10	Sept.	17 10.90
	15 8.7	Oct.	1 9.70		21 11.30		24 11.05
Feb.	1 8.4		15 9.5		28 11.10	Oct.	1 8.15
	15 7.7	Nov.	2 9.5	Sept.	5 10.0		8 8.20
Mar.	1 5.7		16 9.57		11 10.1		15 8.90
	15 5.7	Dec.	1 8.2		18 9.8		22 9.30
Apr.	1 5.65		15 8.3		25 10.20		29 9.50
	15 4.65	<u>1943</u>		Oct.	2 10.0	Nov.	5 9.40
May	1 4.55	Jan.	1 6.2		9 10.21		13 8.92
	15 6.4		19 6.9		16 10.35		19 7.60
June	1 6.65	Feb.	1 7.1		23 10.45		26 6.91
	15 7.0	Apr.	15 5.5		30 10.78	Dec.	3 6.62
July	1 7.85	May	1 6.1	Nov.	6 10.74		10 7.20
	15 8.0		15 5.5		13 10.72		17 7.52
							24 7.70
							31 5.50

Monthly Water Level Records for Jennings 1
 Observation Well in Muscatatuck State Park, North Vernon

Years 1936 - 1945 (inclusive)

Water level in feet below land surface datum				
	1936	1940 (Cont.)	1942 (Cont.)	1944 (Cont.)
Dec.	3 10.23	Apr. 15 8.93	May 1 6.20	Apr. 1 4.05
	<u>1937</u>	30 6.63	9 3.47	15 3.01
Jan.	15 1.86	May 15 6.02	15 1.99	30 4.94
Oct.	17 11.81	June 1 7.13	June 1 5.95	May 15 5.98
Nov.	1 12.22	15 7.92	15 5.95	31 6.99
	15 12.93	July 1 9.06	July 1 4.99	June 15 10.94
	29 12.64	15 10.01	15 6.99	30 12.97
Dec.	14 11.39	Aug. 1 12.88	Aug. 1 10.97	July 15 13.98
	30 10.88	15 13.67	15 12.00	Aug. 1 14.96
	<u>1938</u>	Sept. 1 14.74	Sept. 1 13.00	15 15.94
Jan.	14 8.89	15 15.09	15 13.96	Sept. 1 15.92
	30 4.99	Oct. 1 15.26	Oct. 1 14.93	15 14.95
Nov.	1 14.52	4 15.26	15 15.00	Oct. 1 15.91
	15 14.52	15 15.58	Nov. 1 15.94	6 15.24
	<u>1939</u>	Nov. 1 15.98	15 15.00	15 15.24
Feb.	15 2.06	15 16.14	Dec. 1 15.92	31 16.93
	28 1.99	Dec. 1 15.97		Nov. 15 16.97
Mar.	15 3.14	15 15.88	<u>1943</u>	Dec. 2 15.98
	31 4.47	<u>1941</u>	Mar. 1 7.98	15 15.96
Apr.	15 4.79	Jan. 1 15.79	15 4.92	<u>1945</u>
	30 5.83	Apr. 15 14.35	Apr. 1 4.98	May 21 2.73
May	15 6.59	May 1 13.44	15 2.96	24 3.99
	31 8.19	15 13.49	May 1 4.92	30 5.63
June	15 7.33	June 1 14.09	15 3.94	June 14 8.97
July	15 8.26	15 3.86	June 2 2.95	20 1.93
	31 7.55	July 1 9.69	15 5.92	Aug. 22 12.98
Aug.	15 9.39	15 11.92	July 1 9.95	28 13.05
	31 11.98	Aug. 1 12.94	15 10.07	29 13.96
Sept.	15 12.61	15 13.94	Aug. 1 12.95	5 13.56
	30 13.49	Sept. 1 14.93	15 13.91	12 13.96
Oct.	15 14.01	15 14.97	Sept. 1 14.92	19 14.45
	31 14.49	Oct. 1 15.93	15 14.99	26 14.30
Nov.	15 14.96	15 15.96	Oct. 1 15.94	28 14.20
	30 15.11	16 15.47	15 15.98	Oct. 3 13.96
Dec.	15 15.28	Nov. 1 15.96	31 16.00	10 13.50
	31 15.59	15 14.93	Nov. 15 16.92	17 13.59
	<u>1940</u>	Dec. 1 13.96	30 16.96	Nov. 7 13.11
Feb.	15 15.70	15 14.94	Dec. 15 16.98	14 11.46
	29 15.73	<u>1942</u>	<u>1944</u>	18 6.73
Mar.	15 14.82	Apr. 1 4.97	Mar. 2 15.00	Dec. 5 7.56
	31 10.87	15 3.94	15 9.92	
			22 6.36	

Monthly Water Level Records for Madison 2

Observation Well in Anderson

Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum				
	1935	1939 (Cont.)	1940 (Cont.)	1942 (Cont.)
Oct.	16 15.44	May 15 13.2	Nov. 30 16.13	Aug. 16 16.00
Nov.	1 15.63	June 3 13.55	Dec. 16 16.09	Sept. 1 16.10
	15 15.30	16 13.85		16 16.32
Dec.	2 15.68	July 1 13.75	1941	Oct. 5 16.60
	16 15.71	17 14.1	Jan. 2 16.14	Nov. 6 16.79
		Aug. 1 14.0	15 16.27	Dec. 1 16.70
		15 14.4	Feb. 1 16.35	16 16.68
Jan.	2 15.82	Sept. 1 14.57	Mar. 1 16.46	1943
Feb.	1 15.94	16 14.81	15 16.46	Jan. 2 16.56
Mar.	5 15.30	Oct. 2 15.09	Apr. 1 16.69	17 16.96
	17 15.20	16 15.21	15 16.68	Mar. 2 16.92
Apr.	4 15.11	Nov. 1 15.23	May 1 16.58	Apr. 1 15.65
	20 14.78	16 15.49	16 16.78	16 15.75
May	5 14.57	Dec. 1 15.33	June 2 16.81	May 2 15.63
June	5 14.22	16 15.71	17 16.23	17 13.77
	16 14.85	1940	July 1 16.25	June 1 12.82
July	9 14.27	Jan. 4 15.86	16 16.28	July 1 13.63
		16 15.90	Aug. 1 16.40	16 13.48
Feb.	2 13.6	Feb. 1 16.15	16 16.61	Dec. 4 15.50
Mar.	1 13.6	15 16.10	Sept. 5 16.77	1944
May	6 13.6	Mar. 1 16.00	17 16.92	Jan. 19 16.04
July	3 12.	15 15.85	Oct. 2 17.04	Feb. 1 16.25
		Apr. 1 16.03	16 16.86	15 16.25
		15 15.73	Nov. 5 16.99	Mar. 1 16.10
Jan.	3 14.18	May 1 14.60	15 16.89	Apr. 4 17.00
Mar.	15 12.95	15 14.73	Dec. 2 16.92	May 18 13.60
Apr.	1 11.69	June 1 14.86	1942	June 19 15.90
Nov.	15 10.9	15 14.94	Jan. 5 17.19	July 5 18.40
Dec.	1 11.9	July 1 15.08	19 17.31	Sept. 16 16.50
	15 14.2	14 15.18	Feb. 5 17.41	Oct. 17 15.80
		Aug. 1 15.50	16 16.79	Nov. 3 16.80
Jan.	1 14.5	15 15.71	Mar. 2 16.57	Dec. 15 17.80
Feb.	1 14.7	Sept. 2 15.67	17 15.79	1945
	15 14.53	16 15.34	Apr. 1 15.49	Apr. 4 15.80
Mar.	1 14.2	Oct. 2 16.03	16 14.75	18 15.80
	16 13.6	Nov. 15 16.09	May 1 15.13	Oct. 25 13.50
Apr.	1 13.9	2 16.10	16 15.28	Dec. 26 13.50
	15 13.7	16 16.17	June 16 15.14	
May	1 12.96		July 2 15.42	
			15 15.56	

Average of Monthly Water Level Records for Marion 2
 Observation Well at Security Trust Building, Indianapolis
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum		
	<u>1935</u>	<u>1940 (Cont.)</u>
Oct.	(Av.) 49.0	Apr. (Av.) 49.73
Nov.	" 49.3	May " 52.49
Dec.	18 46.8	June " 56.20
	<u>1936</u>	July " 59.51
Jan.	(Av.) 46.5	Aug. " 62.03
	<u>1937</u>	Sept. " 62.13
Dec.	(Av.) 48.06	Oct. " 60.37
	<u>1938</u>	Nov. " 58.42
Jan.	(Av.) 47.78	Dec. " 56.68
Feb.	" 46.99	<u>1941</u>
Mar.	" 46.68	Jan. (Av.) 54.90
Apr.	" 47.02	Feb. " 53.56
May	" 48.37	Mar. " 53.55
June	" 49.97	Apr. " 54.52
July	" 52.80	May " 58.93
Aug.	" 55.03	June " 63.44
Sept.	" 55.32	July " 56.90
Oct.	" 52.96	Aug. " 69.65
Nov.	" 51.41	Sept. " 70.19
Dec.	" 49.23	Oct. " 56.55
	<u>1939</u>	Nov. " 62.26
Jan.	" 47.98	Dec. " 58.79
Feb.	" 47.72	<u>1942</u>
Mar.	" 47.46	Jan. (Av.) 55.55
Apr.	" 47.68	Feb. " 53.57
May	" 50.02	Mar. " 52.67
June	" 53.86	Apr. " 53.16
July	" 56.23	May " 55.79
Aug.	" 56.53	June " 60.02
Sept.	" 57.25	July " 63.29
Oct.	" 57.10	Aug. " 66.11
Nov.	" 52.18	Sept. " 65.93
Dec.	" 50.85	Oct. " 61.55
	<u>1940</u>	Nov. " 57.37
Jan.	(Av.) 49.55	Dec. " 55.54
Feb.	" 48.94	<u>1943</u>
Mar.	" 48.89	Jan. (Av.) 54.08
		<u>1943 (Cont.)</u>
		Feb. (Av.) 53.36
		Mar. " 52.75
		Apr. " 52.92
		May " 54.30
		June " 59.18
		July " 63.26
		Aug. " 65.60
		Sept. " 64.32
		Oct. " 59.82
		Nov. " 56.83
		Dec. " 54.87
		<u>1944</u>
		Jan. (Av.) 53.75
		Feb. " 53.33
		Mar. " 53.11
		Apr. " 52.71
		May " 55.30
		June " 60.81
		July " 65.05
		Aug. " 67.97
		Sept. " 67.11
		Oct. " 63.97
		Nov. " 61.03
		Dec. " 58.63
		<u>1945</u>
		Jan. (Av.) 56.98
		Feb. " 56.14
		Mar. " 56.17
		Apr. " 56.88
		May " 56.62
		June " 59.10
		July " 63.26
		Aug. " 64.94
		Sept. " 64.24
		Oct. " 60.22
		Nov. " 57.63
		Dec. " 54.63

Average of Monthly Water Level Records for Marion 3
 Observation Well at Emmerich M. T. H. S., Indianapolis
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum								
	<u>1935</u>			<u>1940 (Cont.)</u>			<u>1943 (Cont.)</u>	
Oct.	(Av.)	57.30	Apr.	(Av.)	57.15	Feb.	(Av.)	55.97
Nov.	"	55.45	May	"	59.29	Mar.	"	55.61
Dec.	16	53.2	June	"	62.19	Apr.	"	55.20
	<u>1936</u>		July	"	59.92	May	"	55.14
Jan.	(Av.)	52.75	Aug.	"	65.95	June	"	55.87
Nov.	27	58.06	Sept.	"	67.60	July	"	56.17
	<u>1937</u>		Oct.	"	67.53	Aug.	"	57.71
Dec.	(Av.)	54.36	Nov.	"	65.60	Sept.	"	57.83
	<u>1938</u>		Dec.	"	60.20	Oct.	"	57.63
Jan.	(Av.)	52.41		<u>1941</u>		Nov.	"	56.91
Feb.	"	52.00	Jan.	(Av.)	60.79	Dec.	"	55.88
Mar.	"	51.23	Feb.	"	59.83		<u>1944</u>	
Apr.	"	50.48	Mar.	"	58.24	Jan.	(Av.)	56.63
May	"	50.97	Apr.	"	59.03	Feb.	"	57.01
June	"	50.87	May	"	56.91	Mar.	"	57.57
July	"	51.13	June	"	57.65	Apr.	"	57.47
Aug.	"	54.19	July	"	58.47	May	"	56.18
Sept.	"	55.89	Aug.	"	59.40	June	"	57.98
Oct.	"	56.45	Sept.	"	59.87	July	"	59.46
Nov.	"	55.98	Oct.	"	59.26	Aug.	"	61.24
Dec.	"	53.68	Nov.	"	58.01	Sept.	"	62.17
	<u>1939</u>		Dec.	"	57.46	Oct.	"	62.52
Jan.	(Av.)	53.60		<u>1942</u>		Nov.	"	60.95
Feb.	"	51.11	Jan.	(Av.)	58.19	Dec.	"	61.05
Mar.	"	51.92	Feb.	"	57.09		<u>1945</u>	
Apr.	"	52.02	Mar.	"	58.66	Jan.	(Av.)	60.54
May	"	52.46	Apr.	"	60.34	Feb.	"	59.89
June	"	55.12	May	"	65.46	Mar.	"	51.58
July	"	54.36	June	"	66.61	Apr.	"	57.50
Aug.	"	57.076	July	"	65.73	May	"	55.99
Sept.	"	56.46	Aug.	"	70.44	June	"	56.38
Oct.	"	58.56	Sept.	"	70.63	July	"	55.94
Nov.	"	57.48	Oct.	"	69.31	Aug.	"	56.35
Dec.	"	55.70	Nov.	"	64.37	Sept.	"	56.78
	<u>1940</u>		Dec.	"	63.29	Oct.	"	56.71
Jan.	(Av.)	51.79		<u>1943</u>		Nov.	"	55.73
Feb.	"	52.49	Jan.	(Av.)	56.76	Dec.	"	54.40
Mar.	"	53.75						

Average of Monthly Water Level Records for Marion 4

Observation Well, Indianapolis

Years 1937 - 1945 (inclusive)

Water level in feet below land surface datum								
Dec.	1937 (Av.)	.02	Aug.	1940 (Cont.) (Av.)	11.30	Apr.	1943 (Cont.) (Av.)	1.16
Jan.	1938 (Av.)	+ .28	Sept.	"	9.93	May	"	.75
Feb.	"	+ .22	Oct.	"	5.42	June	"	.52
Mar.	"	+ 1.33	Nov.	"	4.39	July	"	2.45
Apr.	"	+ 2.35	Dec.	"	4.44	Aug.	"	2.27
May	"	+ 1.65		1941 (Av.)	4.71	Sept.	"	2.85
June	"	.04	Jan.	"	4.82	Oct.	"	3.24
July	"	.63	Feb.	"	4.88	Nov.	"	3.04
Aug.	"	.61	Mar.	"	4.86	Dec.	"	3.37
Sept.	"	1.78	Apr.	"	15.72		1944 (Av.)	3.67
Oct.	"	2.15	May	"	5.93	Jan.	"	4.09
Nov.	"	.62	June	"	10.07	Feb.	"	4.06
Dec.	"	.66	July	"	9.98	Mar.	"	3.23
	1939 (Av.)	.79	Aug.	"	8.33	Apr.	"	2.25
Jan.	"	.09	Sept.	"	6.17	May	"	3.22
Feb.	"	+ .96	Oct.	"	5.66	June	"	5.00
Mar.	"	+ 1.49	Nov.	"	7.95	July	"	4.78
Apr.	"	2.29	Dec.	"		Aug.	"	5.09
May	"	1.98		1942 (Av.)	5.25	Sept.	"	5.16
June	"	4.08	Jan.	"	5.11	Oct.	"	5.28
July	"	2.96	Feb.	"	4.12	Nov.	"	5.31
Aug.	"	7.10	Mar.	"	2.57	Dec.	"	
Sept.	"	2.99	Apr.	"	2.89		1945 (Av.)	5.57
Oct.	"	1.69	May	"	5.02	Jan.	"	5.75
Nov.	"	2.01	June	"	1.88	Feb.	"	5.29
Dec.	"		July	"	2.07	Mar.	"	4.21
	1940 (Av.)	2.11	Aug.	"	2.35	Apr.	"	3.53
Jan.	"	2.17	Sept.	"	2.59	May	"	3.74
Feb.	"	2.07	Oct.	"	2.16	June	"	3.66
Mar.	"	2.07	Nov.	"	1.93	July	"	3.43
Apr.	"	3.22	Dec.	"		Aug.	"	4.10
May	"	2.25		1943 (Av.)	1.67	Sept.	"	3.57
June	"	8.74	Jan.	"	1.63	Oct.	"	3.54
July	"		Feb.	"	1.38	Nov.	"	3.52
			Mar.	"		Dec.	"	

Average of Monthly Water Level Records for Marion 9

Observation well, West Ohio St., Indianapolis

Years 1939 - 1945 (inclusive)

Water level in feet below land surface datum					
	1939		1941 (Cont.)		1943 (Cont.)
Aug.	(Av.) 47.44	Oct.	(Av.) 52.61	Nov.	(Av.) 59.23
Sept.	" 48.31	Nov.	" 49.68	Dec.	" 57.39
Oct.	" 48.67	Dec.	" 47.65		1944
Nov.	" 48.00		1942	Jan.	(Av.) 56.91
Dec.	" 47.07	Jan.	(Av.) 46.42	Feb.	" 56.36
	1940	Feb.	" 45.35	Mar.	" 52.72
Jan.	(Av.) 46.55	Mar.	" 53.12	Apr.	" 48.71
Feb.	" 45.44	Apr.	" 53.08	May	" 54.75
Mar.	" 45.09	May	" 53.75	June	" 57.90
Apr.	" 44.21	June	" 56.03	July	" 59.98
May	" 44.75	July	" 57.39	Aug.	" 60.57
June	" 45.96	Aug.	" 58.93	Sept.	" 61.21
July	" 47.96	Sept.	" 59.95	Oct.	" 61.75
Aug.	" 50.13	Oct.	" 59.00	Nov.	" 60.92
Sept.	" 51.48	Nov.	" 51.16	Dec.	" 59.47
Oct.	" 50.82	Dec.	" 56.64		1945
Nov.	" 48.78		1943	Jan.	(Av.) 58.61
Dec.	" 47.66	Jan.	(Av.) 56.17	Feb.	" 57.90
	1941	Feb.	" 57.41	Mar.	" 57.24
Jan.	(Av.) 46.21	Mar.	" 55.64	Apr.	" 57.54
Feb.	" 45.90	Apr.	" 55.82	May	" 57.02
Mar.	" 44.41	May	" 56.35	June	" 57.38
Apr.	" 48.18	June	" 57.19	July	" 58.05
May	" 50.93	July	" 58.60	Aug.	" 57.92
June	" 52.13	Aug.	" 59.51	Sept.	" 50.93
July	" 53.45	Sept.	" 59.55	Oct.	" 51.44
Aug.	" 53.95	Oct.	" 59.23	Nov.	" 48.64
Sept.	" 54.07			Dec.	" 46.46

Average of Monthly Water Level Records of Marion 10
 Observation Well, Federal Post Office Building, Indianapolis
 Years 1939 - 1945 (inclusive)

Water level in feet below land surface datum																																																																																																																																																																																																																																												
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Monthly Water Level Records for Montgomery 1
 Observation Well in Waveland
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum

1935		1938		1940 (Cont.)		1943	
Oct.	15 13.3	Jan.	3 8.45	Mar.	19 11.28	Jan.	2 9.47
Nov.	1 13.37		22 10.03	Apr.	3 10.61		15 6.90
	15 11.63	Feb.	5 8.48		17 7.86	Feb.	1 9.40
Dec.	2 12.35		16 8.60		30 7.94	Mar.	14 10.41
	16 12.04	Mar.	2 6.96	May	17 8.41	Apr.	1 7.90
	<u>1936</u>		14 5.97	June	1 5.73		16 7.46
Jan.	4 12.14	Apr.	4 5.92		14 8.22	May	1 8.50
Feb.	6 11.73		16 6.33	July	2 10.85	June	15 9.10
	19 10.72		29 8.45		24 12.30	July	1 11.42
Mar.	2 7.65	May	16 10.08	Aug.	2 12.81		28 10.81
	17 8.72		28 8.89		21 13.90		30 11.46
Apr.	1 7.8	June	15 9.01		28 14.13	Aug.	16 11.47
	16 8.74		29 8.18	Sept.	16 14.87		31 12.43
May	1 7.30	Aug.	6 10.74		25 14.52	Sept.	15 13.45
	15 8.20		17 10.78	Oct.	15 13.97	Oct.	1 12.83
June	1 9.85		31 10.24		29 14.12		15 13.50
	15 11.10	Sept.	17 11.27	Nov.	16 15.45		30 13.49
July	1 11.92		30 11.90		26 14.25	Nov.	19 12.10
	15 12.40	Oct.	17 12.68	Dec.	13 14.58		30 12.50
Aug.	6 13.34	Nov.	2 13.06		30 13.10	Dec.	15 12.60
	17 13.89		15 13.11		<u>1941</u>		31 12.85
Sept.	1 14.58	Dec.	1 12.88	Jan.	15 12.93		<u>1944</u>
	15 14.17		15 11.36		31 12.45	Jan.	15 12.66
Oct.	3 12.76		<u>1939</u>	Feb.	14 11.75		31 12.85
	15 10.84	Jan.	3 11.71		28 11.70	Feb.	15 12.67
Nov.	3 7.98		16 9.53	Mar.	13 12.02		28 8.50
	17 9.16		31 7.16		31 11.47	Mar.	15 8.16
Dec.	1 10.56	Feb.	16 7.24	Apr.	15 8.63		30 8.42
	16 11.06	Mar.	2 6.12		28 9.97	Apr.	15 6.00
	31 7.87		15 5.41	May	14 9.86	May	1 7.30
	<u>1937</u>	Apr.	1 8.25	June	15 8.63		21 8.42
Jan.	15 4.78		15 8.12		24 8.46		31 7.07
Feb.	1 5.81	May	2 8.43	Oct.	3 14.24	June	15 8.84
	16 6.95		18 9.34		16 13.30		30 11.42
Mar.	1 7.34		31 10.38	Nov.	4 11.58	July	15 12.04
	15 8.15	June	15 10.28		24 8.05		28 11.79
Apr.	1 7.91	July	5 10.14	Dec.	9 9.75	Aug.	15 12.67
	15 6.29		18 11.10		18 10.30		28 11.92
May	1 6.20		31 10.78		<u>1942</u>	Sept.	(Av.) 11.90
	18 8.04	Aug.	17 10.85	Jan.	14 9.90	Oct.	" 12.78
June	3 9.47	Sept.	2 12.05	Feb.	13 6.87	Nov.	" 12.44
	15 9.05		22 13.21	Mar.	6 10.59	Dec.	" 11.86
July	2 10.02		30 13.56	Apr.	20 7.62		<u>1945</u>
	16 8.40	Oct.	16 14.23	May	22 6.65	Jan.	(Av.) 12.35
Aug.	2 8.65	Nov.	2 14.62	June	24 7.59	Feb.	" 13.12
	20 11.50		19 14.75	July	22 9.24	Mar.	" 7.45
Sept.	1 11.87	Dec.	2 14.65		31 9.91	Apr.	" 6.93
Oct.	2 12.81	-	21 14.90	Aug.	15 11.55	May	" 6.89
	18 11.90		<u>1940</u>	Sept.	2 12.14	June	" 8.23
Nov.	5 11.30	Jan.	2 15.16		15 12.98	July	" 9.48
	18 11.10		15 14.83		30 13.55	Aug.	" 10.05
Dec.	1 10.90	Feb.	5 14.66	Oct.	15 14.01	Sept.	" 11.01
	16 8.44		20 14.16		31 14.19	Oct.	" 8.56
		Mar.	1 13.41	Dec.	1 10.50	Nov.	" 7.03
					15 12.3	Dec.	" 8.06

Monthly Water Level Records for Morgan 1
 Observation Well in Morgan-Monroe State Forest
 Years 1936 - 1945 (inclusive)

Water level in feet below land surface datum									
		1936			1940 (Cont.)			1942 (Cont.)	
Dec.		7	4.4	June	17	8.3	Apr.	15	6.1
		<u>1937</u>		July	1	8.4		30	6.72
Feb.		19	4.2		16	9.3	May	15	5.8
Mar.		2	4.22	Aug.	1	9.5	June	1	6.9
May		5	4.22		15	10.0		30	5.4
Aug.		3	5.10		31	10.2	Aug.	1	8.6
Sept.		20	4.28	Sept.	15	10.5	Sept.	1	6.0
Dec.		21	4.25		30	11.4	Oct.	2	8.8
		<u>1938</u>		Oct.	3	10.74	Nov.	3	9.3
Jan.		18	4.30		15	11.55		30	6.3
Feb.		2	4.28		31	11.1		<u>1943</u>	
		16	4.25	Nov.	15	10.8	Jan.	2	6.8
Mar.		4	4.24		30	8.6	Feb.	1	6.6
		31	4.20	Dec.	15	8.05	Mar.	1	6.6
Apr.		18	4.22		<u>1941</u>		Apr.	2	6.6
May		2	4.34	Feb.	28	7.55	May	1	4.1
		9	4.41	Mar.	10	7.30	June	1	6.6
		16	4.31	Apr.	3	6.62	July	1	8.9*
June		2	4.40		16	7.15		<u>1945</u>	
		15	4.52	May	6	7.46	Aug.	14	2.71
July		2	4.60	June	7	8.38		21	7.92
		16	4.58		30	8.84		28	5.90
		30	4.72	July	29	9.63	Sept.	4	8.90
Aug.		16	5.70	Aug.	15	9.80		11	9.00
Sept.		1	6.60	Sept.	3	10.21		18	8.80
		19	6.65	Oct.	15	7.80		25	8.60
Oct.		3	6.70		31	7.27	Oct.	2	5.80
		17	8.31	Nov.	15	7.22		9	7.00
Nov.		15	8.18		29	7.11		16	7.50
Dec.		3	7.80	Dec.	18	7.02		23	7.95
		<u>1939</u>			31	7.01		30	8.13
Aug.		23	7.35		<u>1942</u>		Nov.	6	7.87
		<u>1940</u>		Jan.	15	7.04		13	6.72
Feb.		21	7.1		31	7.04		20	6.45
May		4	4.3	Feb.	14	6.98		27	6.50
		18	6.1		28	7.0	Dec.	4	5.75
June		1	6.7	Mar.	31	6.3		11	7.01

* Well put into service and recording discontinued until August, 1945

Monthly Water Level Records for Noble 3

Observation Well Northwest of Merriam

Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum

1935		1940		1941 (Cont.)		1943 (Cont.)	
Oct.	9 21.26	Jan.	2 21.1	Nov.	30 22.1	Nov.	30 20.70
	<u>1937</u>		15 21.2	Dec.	15 19.9	Dec.	15 20.90
Dec.	17 24.	Feb.	1 21.2		<u>1942</u>		31 22.10
	<u>1938</u>	Mar.	2 21.3	Jan.	16 22.5		<u>1944</u>
Jan.	19 21.85		15 20.3	Feb.	1 22.5	Jan.	15 21.40
	31 21.85	Apr.	1 20.7		15 19.73		31 21.40
Feb.	16 21.34		16 20.4	Mar.	1 21.77	Feb.	15 21.80
	28 21.55	June	3 20.1		16 20.58	Mar.	1 21.60
Mar.	15 20.10		15 20.0	Apr.	1 20.87		15 20.90
Apr.	1 19.85		29 20.2		15 20.46	Apr.	1 20.04
May	4 14.98	July	14 20.7	May	2 20.07		15 20.50
June	1 18.90	Aug.	2 20.8		15 20.3		29 19.10
	15 19.00		15 21.0	June	1 20.4	May	15 18.10
July	1 18.85	Sept.	2 21.6		15 20.6		31 17.90
	15 12.95		16 21.8	July	15 20.8	June	15 17.70
Aug.	2 8.40	Oct.	2 21.8	Aug.	1 21.1		30 18.40
	15 14.30		16 21.9		16 20.2	July	30 18.70
	31 19.40	Nov.	1 21.7	Sept.	2 19.9	Aug.	15 19.30
Sept.	16 19.90		14 22.52		16 20.1	Sept.	1 19.50
Oct.	2 20.05		16 22.1	Oct.	1 20.22		15 19.70
	15 20.32	Dec.	2 22.1		16 20.13		30 19.70
Nov.	1 20.50		14 22.0	Nov.	16 20.4	Oct.	17 19.60
Dec.	1 20.60		30 22.0	Dec.	1 20.26		31 20.40
	15 21.01		<u>1941</u>		16 20.2	Nov.	15 20.80
	31 21.10	Jan.	15 20.01		31 21.3		30 20.90
	<u>1939</u>		31 20.01		<u>1943</u>	Dec.	1 20.90
Jan.	15 21.4	Feb.	15 21.9	Jan.	14 19.60		30 20.90
Feb.	2 20.3	Mar.	1 21.8		29 19.40		<u>1945</u>
Mar.	1 20.9		15 21.7	Feb.	13 19.30	Feb.	1 22.40
	18 11.6	Apr.	1 21.3		27 19.90		28 21.80
Apr.	2 19.10		15 21.3	Mar.	13 19.40	Mar.	15 22.40
	16 18.7	May	2 15.6		31 19.20	Apr.	1 20.60
May	15 18.0		15 21.0	Apr.	14 18.70		15 20.80
	31 18.0	June	2 20.6		29 19.00		30 19.90
June	16 18.6		14 20.6	May	15 19.00	May	1 20.60
July	1 18.2	July	1 21.3		31 17.00		15 19.70
	15 18.3		15 20.8	June	14 17.10	July	1 18.80
Aug.	1 18.6		31 21.1		30 17.70		15 18.90
	15 18.8	Aug.	15 21.2	July	14 18.20	Aug.	1 18.50
Sept.	1 19.4	Sept.	2 20.5	Aug.	2 18.70		16 18.50
	19 19.6		15 21.8		16 19.00	Sept.	1 18.50
Oct.	16 20.1		30 21.9	Sept.	16 18.75		6 19.82
Nov.	13 19.8	Oct.	16 22.1	Oct.	2 19.30		17 20.08
	16 19.8	Nov.	5 22.92		18 19.90	Nov.	17 20.50
	30 20.9		15 22.3	Oct.	30 20.20	Dec.	30 21.23
Dec.	16 21.1						

Monthly Water Level Records for Porter 1
 Observation Well in Valparaiso.
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum

	1935	1938 (Cont.)	1940 (Cont.)	1943 (Cont.)
Oct.	16 51.38	May 16 52.53	Oct. 15 51.86	Mar. 15 52.08
Dec.	2 52.14	June 1 52.45	Nov. 2 51.92	Apr. 1 51.92
	17 51.30	15 52.36	16 51.65	15 51.80
	1936	July 1 52.38	Dec. 15 51.62	May 3 51.92
Jan.	2 51.12	15 52.20	1941	17 51.73
	15 51.45	Aug. 1 52.14	Jan. 2 52.49	June 1 51.75
Feb.	2 51.38	15 51.95	16 52.94	15 51.20
	15 51.63	Sept. 2 52.00	Feb. 2 54.01	July 2 51.17
Mar.	1 51.42	16 51.98-	15 54.56	15 51.14
	16 51.56	Oct. 2 51.82	Mar. 2 54.76	Aug. 3 50.63
	31 51.62	15 51.77	16 54.62	17 51.08
Apr.	16 51.52	Nov. 1 51.85	31 55.73	Sept. 2 51.14
May	1 51.55	16 51.88	Apr. 16 56.27	16 51.21
	15 51.02	Dec. 2 52.15	May 1 55.65	Oct. 1 50.38
June	1 51.40	16 51.86	16 56.20	31 51.00
	15 51.61	1939	June 15 55.52	Nov. 16 50.82
July	3 52.42	Jan. 1 51.80	July 1 54.19	Dec. 1 50.91
	15 52.62	16 51.63	16 54.00	1944
Aug.	1 57.00	Feb. 1 51.71	Aug. 1 55.12	Jan. 1 50.95
	15 57.15	15 51.54	15 55.32	16 51.10
Sept.	1 54.29	Mar. 2 51.42	Sept. 1 55.38	Feb. 15 51.40
	15 53.57	16 51.88	16 56.14	29 51.55
Oct.	1 52.84	Apr. 2 51.97	Oct. 2 56.60	Mar. 15 51.28
Nov.	1 52.65	15 51.76	16 55.30	31 51.34
	16 52.71	May 15 51.48	Nov. 1 55.08	Apr. 15 50.90
	30 52.09	June 1 51.46	15 53.74	30 51.19
Dec.	1 52.77	16 51.00	Dec. 2 53.42	May 15 51.06
	15 52.45	July 1 51.35	15 53.35	31 50.93
	1937	15 51.26	1942	June 15 50.96
Jan.	1 52.48	Aug. 1 51.22	Jan. 1 53.36	30 50.98
	16 52.06	15 57.12	30 52.74	July 15 50.96
Feb.	1 52.01	27 51.20	Feb. 15 52.50	31 50.87
	15 52.61	Sept. 1 51.14	Mar. 2 52.50	Aug. 15 52.03
Mar.	16 52.50	Oct. 2 51.34	16 52.80	31 52.22
Apr.	15 52.77	16 51.21	Apr. 1 52.20	Sept. 15 51.14
May	1 52.54	Nov. 2 50.98	15 52.10	30 53.67
	15 52.49	16 51.10	May 1 52.40	Oct. 15 52.74
June	1 52.45	Dec. 2 51.37	16 52.10	31 53.86
	15 52.14	15 51.12	June 1 51.70	Nov. 15 54.46
July	1 52.38	1940	16 52.00	30 54.70
	15 52.40	Jan. 2 51.09	July 2 51.92	Dec. 15 55.25
Aug.	1 52.37	Feb. 1 50.96	15 51.92	31 56.65
	15 52.48	15 51.14	Aug. 3 51.98	1945
Sept.	2 52.60	Mar. 1 51.72	15 52.00	Jan. 31 57.15
	16 52.75	15 51.62	Sept. 1 51.80	Feb. 15 56.65
Oct.	1 56.02	Apr. 1 51.54	15 51.88	28 56.85
	16 57.34	16 51.14	Oct. 1 51.68	Mar. 16 57.45
Nov.	16 54.85	May 2 51.49	16 51.73	31 57.85
Dec.	15 53.25	15 51.85	Nov. 2 51.88	Apr. 15 54.60
	1938	June 1 50.98	15 51.82	30 53.55
Jan.	2 52.79	15 51.64	Dec. 1 52.00	May 15 53.40
Feb.	1 52.33	July 1 51.54	15 52.42	31 55.50
	15 52.76	15 51.53	1943	June 15 56.95
Mar.	1 52.85	Aug. 1 52.16	Jan. 1 51.62	30 56.90
	16 52.99	15 51.60	15 51.94	July 15 56.80
Apr.	1 52.54	Sept. 2 51.59	Feb. 1 51.28	30 57.40
	15 52.63	15 51.66	15 51.68	Sept. 15 54.30
May	1 52.77	Oct. 1 51.73	Mar. 1 51.96	30 53.80
				Oct. 15 53.74

Monthly Water Level Records for Porter 2
 Observation Well in Dunes State Park, Chesterton
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum			
	1935	1938 (Cont.)	1943 (Cont.)
Oct.	18 13.8	Sept. 1 11.7	May 15 10.9
Nov.	15 13.5	Oct. 1 11.4	June 20 10.7
Dec.	2 12.03	18 11.17	July 10 10.5
	16 12.04	Nov. 1 11.3	Aug. 9 12.1
	1936	Dec. 30 12.2	Nov. 1 10.5
Jan.	2 12.04	1939	16 10.1
	15 12.07	Feb. 1 11.9	30 10.8
Feb.	3 13.01	Apr. 1 12.3	1944
	15 12.02	May 1 12.2	Jan. 5 10.6
	29 12.07	June 1 12.2	18 11.5
Mar.	15 13.	July 1 12.0	Feb. 4 11.3
	31 13.03	Aug. 1 11.8	15 11.1
Apr.	15 13.01	27 11.70	Mar. 3 11.6
May	1 12.08	Sept. 1 11.65	20 11.7
	15 13.01	Oct. 15 11.2	Apr. 1 11.2
	31 13.	Nov. 15 11.0	15 11.5
June	15 13.	Dec. 12 11.2	June 5 10.8
July	1 13.	1940	15 11.5
	15 13.2	Jan. 3 12.0	July 19 10.1
Nov.	30 13.03	Feb. 1 12.3	Aug. 2 10.92
Dec.	16 12.	Mar. 15 12.6	Oct. 24 11.00
	1937	Apr. 5 12.3	Nov. 30 11.00
Jan.	15 13.1	May 4 11.3	Dec. 15 11.10
Feb.	1 13.3	June 24 12.4	1945
Mar.	1 13.2	July 20 12.4	Feb. 13 12.19
Apr.	1 13.	Sept. 12 11.5	Mar. 1 12.25
May	1 12.09	Oct. 5 11.8	19 12.10
	15 12.09	Nov. 1 12.1	Apr. 4 11.00
June	15 12.07	Dec. 23 12.3	16 11.25
July	1 12.08	1941	May 1 11.50
Aug.	2 12.07	Jan. 24 12.3	21 10.96
Sept.	1 13.	Mar. 3 12.6	June 2 10.67
Oct.	1 12.7	Sept. 30 12.56	19 10.87
Nov.	2 12.6	1942	July 2 10.50
Dec.	2 12.6	Apr. 21 11.6	18 10.71
	1938	June 20 11.5	Aug. 1 10.00
Jan.	1 12.8	Aug. 5 11.4	17 10.71
Feb.	1 13.0	Nov. 3 11.4	Sept. 4 10.71
Mar.	1 13.3	1943	17 10.08
Apr.	1 13.0	Jan. 8 11.8	Oct. 1 9.83
May	1 12.6	Mar. 24 12.2	16 10.50
June	1 12.6	Apr. 5 12.3	Nov. 2 10.83
July	1 12.0	30 11.2	16 11.08
Aug.	6 12.3		Dec. 4 10.96

Monthly Water Level Records for Porter 3
 Observation Well in Dunes State Park, Chesterton
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum		
	1935	1938 (Cont.)
Oct.	13 15.5	Sept. 1 14.7
Nov.	15 15.7	Oct. 1 15.1
Dec.	2 15.08	Nov. 1 15.5
	16 16.	Dec. 30 16.4
	1936	1939
Jan.	2 16.	Feb. 1 15.7
	15 16.	Apr. 1 14.9
Feb.	3 16.02	May 1 14.8
	15 16.03	June 1 14.7
	29 15.08	July 1 15.1
Mar.	15 15.08	Aug. 1 15.3
	31 15.08	27 15.84
Apr.	15 15.05	Sept. 1 15.9
May	1 15.	15 14.9
	15 15.01	Nov. 15 15.0
	31 15.02	Dec. 2 15.3
June	15 15.06	1940
July	1 15.08	Jan. 3 15.1
	15 16.02	Feb. 1 15.3
Nov.	30 16.0	Mar. 15 15.0
Dec.	16 15.6	Apr. 5 14.9
	1937	May 4 14.3
Jan.	15 15.9	June 24 13.6
Feb.	1 15.8	July 20 14.2
Mar.	1 15.7	Sept. 12 14.9
Apr.	1 15.03	Oct. 5 15.2
May	1 15.01	Nov. 1 15.1
	15 15.01	Dec. 23 15.3
June	15 14.06	1941
July	1 15.01	Jan. 24 15.1
Aug.	2 15.04	Mar. 3 14.9
Sept.	1 15.07	Sept. 30 14.8
Oct.	1 15.1	Oct. 2 14.8
Nov.	2 15.2	1942
Dec.	2 15.3	Apr. 21 12.4
	1938	June 20 12.9
Jan.	1 15.6	Aug. 5 14.2
Feb.	1 16.0	Nov. 3 14.5
Mar.	1 15.0	1943
Apr.	1 14.1	Jan. 8 13.9
May	1 14.3	Feb. 2 13.1
June	1 14.1	Mar. 24 12.8
July	1 13.7	Apr. 5 12.8
Aug.	6 14.0	30 12.8
		1943 (Cont.)
		May 15 11.8
		June 20 11.1
		July 10 11.3
		Aug. 9 12.7
		Nov. 1 13.6
		16 13.9
		30 13.9
		1944
		Jan. 5 13.6
		18 14.3
		Feb. 4 14.6
		15 14.1
		Mar. 3 14.5
		20 14.3
		Apr. 1 13.8
		15 12.8
		June 5 12.5
		15 12.7
		July 19 13.6
		Aug. 2 13.67
		Oct. 24 14.8
		Nov. 30 14.8
		Dec. 15 14.90
		1945
		Feb. 13 15.39
		Mar. 1 15.04
		19 15.00
		Apr. 4 14.67
		16 14.50
		May 1 14.31
		21 12.67
		June 2 12.21
		19 12.12
		July 2 11.19
		18 11.92
		Aug. 1 11.70
		17 12.06
		Sept. 4 12.33
		17 12.92
		Oct. 1 12.83
		16 12.66
		Nov. 2 13.10
		16 13.23
		Dec. 4 13.29

Monthly Water Level Records for Pulaski 1
 Observation Well in Jasper-Pulaski State Park near Medaryville
 Years 1936 - 1944 (inclusive)

Water level in feet below land surface datum								
	1936		1938 (Cont.)		1940 (Cont.)			
Jan.	1	11.83	Sept.	30	9.19	May	15	7.99
	16	11.94	Oct.	16	9.29		31	7.65
Dec.	2	11.45		31	9.29	June	15	7.49
	<u>1937</u>		Nov.	15	9.29	July	2	8.36
Jan.	2	7.83		30	9.19		15	8.72
	16	10.63	Dec.	14	8.69	Aug.	1	9.19
	30	10.08		31	9.39		17	9.59
Feb.	16	10.43		<u>1939</u>			31	9.69
Mar.	1	10.33	Jan.	14	9.19	Sept.	14	9.67
	15	11.21		30	8.79		30	10.09
Apr.	1	10.61	Feb.	15	7.96	Oct.	15	9.89
	15	9.92	Mar.	1	8.01		30	9.47
May	1	9.58		14	7.73	Nov.	18	8.99
	15	10.13		31	7.49	Dec.	4	8.61
June	2	9.73	Apr.	14	7.59		17	8.69
	15	9.98		29	7.39		<u>1941</u>	
July	1	9.98	May	14	7.85	Jan.	2	8.19
	15	10.06		30	8.09		15	8.09
	30	10.58	June	10	8.35	Feb.	1	9.09
Aug.	14	10.63		29	9.17		15	9.13
	21	10.91	July	14	8.69		28	8.07
Sept.	14	11.01		30	9.01	Mar.	15	7.77
Oct.	1	11.06	Aug.	14	9.34	Apr.	15	7.68
	16	9.06		25	9.72	May	1	7.63
	20	10.69		26	9.73		19	8.88
Nov.	15	10.57	Sept.	15	9.99	July	25	8.54
Dec.	2	10.69		30	10.02	Aug.	6	9.29
	14	10.16	Oct.	16	10.34		16	9.29
	<u>1938</u>		Nov.	2	9.27	Oct.	3	9.99
Jan.	14	10.20		16	10.22		16	9.58
Feb.	2	9.46		30	10.49	Nov.	4	9.07
	14	9.76	Dec.	14	10.02		15	8.29
	28	9.11		<u>1940</u>			29	8.28
May	2	9.98	Jan.	2	10.21	Dec.	16	8.14
	16	10.14		15	10.29		<u>1942</u>	
	30	9.92	Feb.	1	9.69	Jan.	2	8.06
June	16	9.22		15	10.09		21	8.18
July	1	8.91	Mar.	1	9.93	Feb.	5	7.59
	16	9.69		14	9.49	Apr.	30	6.67
Aug.	16	9.69	Apr.	1	9.43		<u>1944</u>	
	31	9.79		16	9.04	May	22	6.14
Sept.	16	9.54	May	1	8.42		27	6.13
						Aug.	1	8.79
						Nov.	2	10.05

Monthly Water Level Records for St. Joseph 1

Observation Well in Mishawaka

Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum			
	<u>1935</u>	<u>1938 (Cont.)</u>	<u>1941</u>
Oct.	16 9.85	July 1 8.62	Jan. 1 9.57
Nov.	1 10.82	16 7.84	16 9.66
	16 8.54	Aug. 1 9.21	1 9.34
Dec.	3 8.96	16 10.08	15 10.74
	17 8.76	Sept. 1 9.83	1 10.92
	<u>1936</u>	15 10.25	17 8.75
Jan.	2 8.58	Oct. 1 9.85	1 8.91
	9 8.66	15 10.00	15 9.84
Feb.	1 9.68	Nov. 1 9.96	May 1 9.17
	17 10.21	15 11.08	16 11.25
Mar.	1 8.92	Dec. 1 9.64	June 2 11.65
	17 8.71	17 10.75	16 11.85
Apr.	1 9.12	<u>1939</u>	July 1 12.92
	16 8.78	Jan. 2 9.50	15 13.06
May	2 7.86	16 10.66	Aug. 1 13.34
	16 9.25	Feb. 1 9.54	16 13.09
June	1 10.75	14 8.68	Sept. 2 12.15
	19 10.29	Mar. 1 8.25	15 11.51
July	2 10.33	16 6.84	Oct. 1 11.33
	17 12.83	Apr. 1 8.09	16 10.52
Aug.	3 11.25	15 7.92	Nov. 1 9.02
	17 11.50	May 2 7.83	16 8.52
Sept.	15 10.67	15 8.68	Dec. 1 8.15
Oct.	1 10.12	June 1 9.82	16 9.26
	16 9.91	16 9.95	<u>1942</u>
Nov.	2 9.58	July 1 8.34	Jan. 3 7.95
Dec.	2 10.08	15 9.25	16 9.18
	16 9.66	Aug. 1 9.98	1 7.74
	<u>1937</u>	16 8.85	15 7.65
Jan.	4 8.75	22 8.08	Mar. 1 8.50
	16 8.91	Sept. 1 9.92	16 6.81
Feb.	1 8.33	16 11.18	Apr. 1 7.17
	18 8.25	Oct. 2 9.85	15 7.34
Mar.	1 8.75	16 10.42	May 1 9.15
	16 9.59	Nov. 1 10.40	16 9.42
Apr.	1 9.33	16 10.00	June 1 10.01
	16 8.33	Dec. 1 10.24	15 8.92
May	3 8.16	16 9.42	July 1 10.16
	17 9.00		Aug. 1 9.92
			<u>1943 (Cont.)</u>
			June 15 7.34
			July 1 9.50
			15 9.68
			Aug. 1 10.17
			16 9.75
			Sept. 1 9.75
			15 9.16
			Oct. 1 9.58
			15 9.42
			Nov. 1 8.75
			15 9.42
			Dec. 1 8.67
			16 9.33
			<u>1944</u>
			Jan. 1 9.26
			17 8.57
			Feb. 1 8.92
			Mar. 1 8.07
			16 6.06
			Apr. 1 6.58
			15 6.08
			May 1 6.00
			16 6.84
			June 1 7.42
			15 11.83
			July 1 9.84
			15 11.24
			Aug. 1 12.58
			16 12.75
			Sept. 1 11.24
			16 12.31
			Oct. 2 10.75
			16 11.08
			Nov. 1 11.51
			15 9.75
			Dec. 1 9.66
			16 9.83
			<u>1945</u>
			Jan. 1 11.18

Monthly Water Level Records for St. Joseph 1 (Cont.)

1937 (Cont.)		1940		1942 (Cont.)		1945 (Cont.)	
June	2 9.69	Jan.	1 9.74	Aug.	15 9.25	Jan.	16 11.51
	17 8.17		16 9.00	Sept.	1 9.17	Feb.	1 11.74
July	16 7.40	Feb.	1 9.22		15 9.42		15 9.66
Aug.	3 3.92		15 9.50	Oct.	1 9.69	Mar.	1 9.25
	16 9.02	Mar.	1 9.59		16 9.08		16 9.82
Sept.	1 9.34		16 9.93	Nov.	2 8.93	Apr.	1 9.42
	16 10.22	Apr.	1 8.42		16 8.50		15 10.00
Oct.	1 11.17		15 7.96	Dec.	1 8.32	May	1 8.34
Nov.	16 9.09	May	1 8.43		16 9.25		16 9.00
Dec.	1 10.00		16 9.67	<u>1943</u>		June	1 9.25
	15 10.25	June	1 8.41	Jan.	1 6.25		15 10.08
<u>1938</u>			17 8.08		16 8.00	July	2 8.75
Jan.	1 8.75	July	1 8.61	Feb.	1 7.60		16 10.67
	17 8.92		16 8.69		16 7.15		31 10.66
Feb.	1 9.18	Aug.	1 12.17		18 11.18	Aug.	16 10.25
	14 8.29		16 11.26	Mar.	1 6.92	Sept.	1 11.08
Mar.	1 8.42	Sept.	1 9.31		16 7.42		15 10.58
	16 8.31		15 9.85	Apr.	1 7.08	Oct.	1 9.08
Apr.	1 8.07	Oct.	1 10.34		15 7.50		15 8.42
	15 7.65		16 10.57	May	1 8.33	Nov.	1 10.25
May	2 8.67	Nov.	1 9.92		15 5.58		15 10.42
	16 8.25		15 10.09		25 4.46	Dec.	1 10.75
June	2 7.34	Dec.	2 9.75	June	1 4.67		15 10.59
			16 9.55				

Monthly Water Level Records for Starke 1
 Observation Well at Bass Lake State Hatchery near Knox
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum				
	1935	1939 (Cont.)	1941 (Cont.)	1943 (Cont.)
Oct.	<u>3</u> 15.79	May 9 13.60	Sept. 15 17.74	Oct. 2 14.34
	1936	17 13.62	Oct. 7 17.15	18 14.57
Nov.	<u>5</u> 16.0	June 1 13.74	18 17.22	1944
	1937	July 12 14.00	Nov. 1 16.97	Jan. 26 14.74
Jan.	<u>4</u> 14.94	Aug. 2 14.39	15 16.45	Feb. 15 14.20
Feb.	3 14.53	15 14.79	Dec. 1 16.26	Mar. 1 14.99
	15 14.54	21 14.88	15 16.18	16 14.47
Mar.	1 14.53	Sept. 18 14.79	1942	Apr. 1 14.41
	16 13.44	Oct. 2 14.49	Jan. 2 16.05	17 13.50
Apr.	1 14.53	16 16.12	15 16.04	25 12.90
	15 14.04	Nov. 29 16.20	Feb. 2 16.0	May 2 12.50
May	19 13.83	Dec. 18 16.22	16 15.37	16 12.50
June	1 14.13	1940	Mar. 2 15.18	June 1 12.46
	15 14.07	Jan. 8 16.33	21 14.60	15 12.18
July	6 13.82	Feb. 8 16.40	Apr. 1 14.28	July 3 12.85
	17 14.04	Mar. 18 16.21	20 14.26	25 13.70
Aug.	3 14.19	Apr. 1 16.40	May 6 14.34	Aug. 12 13.98
	17 14.38	16 16.32	16 14.28	Sept. 1 14.70
Oct.	4 14.64	May 6 16.30	June 1 14.32	21 15.00
	15 15.38	17 15.27	15 14.51	Oct. 11 13.98
Nov.	3 15.36	June 4 14.83	July 1 14.64	Nov. 3 15.65
Dec.	6 15.28	18 14.78	15 14.79	16 15.80
	1938	July 5 14.86	Aug. 1 15.06	Dec. 2 15.87
Jan.	<u>4</u> 15.07	15 14.98	15 15.30	21 15.45
	16 15.05	Aug. 5 15.35	Sept. 2 15.91	1945
	31 15.04	19 15.57	Oct. 1 16.23	Jan. 5 15.17
Feb.	15 15.69	Sept. 4 15.81	19 16.17	18 16.22
Mar.	1 14.34	16 16.03	Nov. 4 16.15	Feb. 1 16.30
	20 14.31	Oct. 19 16.29	14 16.08	16 16.80
Apr.	1 13.92	Nov. 7 16.31	Dec. 18 15.79	Mar. 2 16.27
May	1 14.27	15 16.14	1943	Apr. 2 16.40
	15 14.16	Dec. 16 16.48	Jan. 1 15.36	17 15.10
June	5 14.20	1941	16 15.10	May 1 14.90
July	3 14.08	Jan. 2 16.27	Feb. 8 15.01	17 14.00
	20 14.59	31 15.98	15 14.92	June 4 13.00
Aug.	2 14.08	Feb. 17 15.94	Mar. 1 14.83	15 13.10
	17 14.10	Mar. 1 15.94	17 14.79	July 2 13.14
Sept.	1 14.94	15 15.91	Apr. 3 14.14	Oct. 30 13.54
	15 14.70	Apr. 1 15.85	May 1 14.30	Nov. 1 13.54
Oct.	1 14.87	16 15.86	15 13.71	8 13.69
	15 14.93	30 16.63	June 1 12.78	15 13.71
Nov.	4 15.08	May 5 15.78	17 12.85	23 13.74
Dec.	5 14.96	June 2 15.90	July 1 13.12	29 13.75
	16 14.98	17 15.72	15 13.40	Dec. 7 13.73
	1939	July 1 15.88	31 13.64	13 13.76
Jan.	<u>17</u> 14.75	15 16.13	Aug. 16 13.87	20 13.90
Feb.	3 14.62	Aug. 2 16.64	Sept. 1 14.09	27 13.91
Mar.	1 13.92	17 17.09	15 14.16	

Monthly Water Level Records for Starke 2

Observation Well at Bass Lake State Hatchery near Knox

Years 1935 - 1945 (inclusive).

Water level in feet below land surface datum											
1935			1939 (Cont.)			1941 (Cont.)			1944 (Cont.)		
Oct.	3	4.49	July	12	3.65	Nov.	15	3.70	Apr.	17	2.15
	<u>1936</u>		Aug.	2	6.99	Dec.	1	3.77		25	1.88
Nov.	5	2.5		15	4.38		15	3.93	May	2	2.65
	<u>1937</u>			21	4.48		<u>1942</u>			16	2.66
Jan.	4	2.62	Sept.	18	5.09	Jan.	2	3.24	June	1	1.68
Feb.	3	2.94	Oct.	2	5.09		15	3.84		15	2.15
	15	2.95		16	4.92	Feb.	2	3.13	July	3	3.77
Mar.	1	3.01	Nov.	29	4.48		16	2.58		25	4.26
	16	3.07	Dec.	18	4.37	Mar.	2	3.22	Sept.	1	4.80
Apr.	1	2.94		<u>1940</u>			21	2.43		21	4.93
	15	2.36	Jan.	8	4.50	Apr.	1	2.80	Oct.	11	4.79
May	19	2.95	Feb.	8	4.38		20	3.03	Nov.	3	4.80
June	1	3.26	Mar.	18	3.86	May	6	3.25		16	4.55
	15	2.74	Apr.	1	3.88		16	3.11	Dec.	2	4.55
July	6	3.19		16	3.27	June	1	3.60		21	4.60
	17	3.20	May	6	2.42		15	3.79		<u>1945</u>	
Oct.	4	3.44		17	2.85	July	1	3.90	Jan.	5	4.42
	15	3.69	June	4	2.96		15	3.97		18	4.20
Nov.	3	3.72	July	18	3.05	Aug.	1	4.44	Feb.	1	4.40
Dec.	6	3.67	Aug.	5	3.58	Sept.	2	4.78		16	3.70
	<u>1938</u>			15	3.84	Oct.	1	4.25	Mar.	2	3.45
Jan.	4	3.16	Aug.	5	4.54		19	4.29		19	3.15
	16	3.14		19	4.34	Nov.	4	4.06	Apr.	2	2.30
	31	3.11	Sept.	4	4.97		14	3.53		17	2.93
Feb.	15	2.55		16	4.90	Dec.	18	3.61	May	1	3.16
Mar.	1	2.39	Oct.	19	4.71		<u>1943</u>			17	1.67
	20	2.36	Nov.	7	4.61	Jan.	4	2.47	June	4	2.88
Apr.	1	2.41		15	4.43		16	2.97		15	3.16
May	1	2.96	Dec.	16	3.83	Feb.	8	2.52	July	2	3.36
	15	3.10		<u>1941</u>			15	2.97	Aug.	16	4.10
June	5	3.09	Jan.	2	3.42	Mar.	1	2.98		30	4.50
July	3	3.01		31	3.86		17	2.93	Sept.	6	4.70
	20	3.43	Feb.	17	3.50	Apr.	3	3.03		14	4.66
Aug.	2	2.96	Mar.	1	3.88	May	1	2.90		21	4.70
	17	3.61		15	3.47		15	2.14		27	4.20
Sept.	1	3.94	Apr.	1	3.48	June	1	2.29	Oct.	4	2.80
	15	3.87		16	3.64		17	2.70		11	3.00
Oct.	1	3.81		30	3.44	July	1	3.40		18	3.30
	15	3.83	May	15	3.60		15	3.40		25	3.10
Nov.	4	3.64	June	2	3.83		31	3.12	Nov.	1	3.26
Dec.	5	2.96		17	3.41	Sept.	15	2.64		8	4.04
	16	3.23	July	1	3.82	Oct.	2	3.37		15	3.21
	<u>1939</u>			15	3.23		18	3.11		23	3.24
Jan.	17	3.01	Aug.	2	4.68		<u>1944</u>			29	2.77
Feb.	3	2.79		17	5.17	Jan.	26	3.64	Dec.	7	3.04
Mar.	1	1.99	Sept.	15	5.59	Feb.	15	3.46		13	3.26
May	9	2.90	Oct.	7	4.97	Mar.	1	2.70		20	3.47
	17	3.25		18	4.86		16	1.15		27	3.27
June	1	3.43	Nov.	1	4.20	Apr.	1	2.25			

Monthly Water Level Records for Steuben 1
 Observation Well in Pokagon State Park near Angola
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum			
	1935	1940 (Cont.)	1942 (Cont.)
Sept.	16 4.25	May 15 1.6	Mar. 16 0.15
	1936	31 1.1	31 + .10
Nov.	4 1.6	June 15 1.2	May 2 0.55
	1937	July 1 0.7	June 1 1.05
Jan.	5 1.53	15 2.1	16 0.85
Feb.	2 0.95	Aug. 1 1.9	July 1 0.80
	15 1.08	15 2.2	15 2.65
Mar.	1 1.21	31 1.1	31 1.85
Apr.	1 0.86	Sept. 15 2.2	Aug. 15 1.00
May	1 + .05	30 2.6	31 0.95
June	16 1.16	Oct. 15 2.6	Sept. 15 1.15
	1938	31 2.7	30 1.30
Oct.	19 1.88	Nov. 18 2.2	Oct. 15 1.55
Nov.	14 2.19	30 2.1	31 1.15
	1939	Dec. 16 1.1	Nov. 15 0.70
Mar.	21 0.0	31 0.7	30 0.70
	31 + .35	1941	Dec. 15 1.15
Apr.	15 + .65	Jan. 15 1.2	1943
May	1 + .42	Feb. 1 1.7	Jan. 1 + .10
	15 + .10	15 1.3	16 .40
	31 1.25	28 1.7	Feb. 1 .40
July	15 1.6	Mar. 15 1.2	Mar. 1 .20
	31 2.05	31 1.0	15 .10
Aug.	15 2.35	Apr. 15 1.3	Apr. 1 .00
	31 2.65	30 1.5	May 1 + .10
Sept.	15 3.35	May 26 0.3	15 1.50
	30 3.50	June 30 0.0	June 2 +1.00
Oct.	16 3.4	July 15 3.0	15 + .60
	30 3.45	Aug. 1 3.3	July 1 .30
Nov.	16 3.4	Sept. 3 + .50	15 .10
	30 3.4	15 2.5	Aug. 1 .80
Dec.	15 3.4	30 2.9	19 1.45
	30 3.5	Nov. 6 3.85	Sept. 1 1.55
	1940	14 2.2	15 1.00
Jan.	15 2.9	Dec. 1 3.4	Oct. 1 1.65
	30 3.15	31 4.2	15 1.50
Mar.	1 2.35	1942	Nov. 1 1.85
	15 2.2	Jan. 15 2.25	15 1.25
	30 1.6	31 1.5	Dec. 1 1.60
Apr.	15 1.0	Feb. 16 1.25	1944
May	1 1.2	Mar. 2 1.40	Jan. 3 2.30

Monthly Water Level Records for Steuben 2
 Observation Well in Pokagon State Park near Angola
 Years 1935 - 1945 (inclusive)

Water level in feet below land surface datum												
			1940 (Cont.)			1942 (Cont.)			1944 (Cont.)			
Sept.	<u>1935</u>	16 5.95	May	15	3.0	Mar.	31	.65	Jan.	31	4.50	
	<u>1936</u>			31	2.4	May	2	1.75	Feb.	28	3.20	
Nov.	4	3.6	June	15	2.9	June	1	3.20	Mar.	15	0.95	
	<u>1937</u>		July	1	2.4		16	3.15	Apr.	3	1.10	
Jan.	5	3.43		15	3.4	July	1	3.30		15	0.50	
Feb.	2	1.67	Aug.	1	4.2		15	4.05	May	2	0.70	
		15 1.81		15	4.5		31	4.60		17	1.20	
Apr.	1	2.05		31	4.0	Aug.	15	3.80	June	1	0.80	
May	1	.56	Sept.	15	4.7		31	3.55		15	2.20	
June	16	2.96		30	5.0	Sept.	15	4.08	July	3	3.50	
	<u>1938</u>		Oct.	15	4.3		30	4.95		28	4.70	
Oct.	19	4.20		31	5.3	Oct.	15	4.35	Aug.	28	5.50	
Nov.	14	4.50	Nov.	18	4.8		31	3.80	Sept.	28	6.00	
	<u>1939</u>			30	4.6	Nov.	15	2.55	Oct.	28	6.20	
Mar.	21	.70	Dec.	16	3.5		30	2.10	Nov.	28	6.20	
		31 .45		31	3.0	Dec.	15	2.55	Dec.	28	6.35	
Apr.	15	.05		<u>1941</u>				<u>1943</u>				
May	1	.28	Jan.	15	2.7	Jan.	1	.70	Jan.	29	6.40	
		15 .95	Feb.	1	2.7		16	1.25	Feb.	28	5.20	
		31 1.2		15	2.6	Feb.	1	1.45	Mar.	28	3.20	
July	15	3.95		28	3.2	Mar.	1	1.10	Apr.	28	3.50	
		31 3.25	Mar.	15	2.6		15	1.10	May	28	.80	
Aug.	15	4.80		31	2.5	Apr.	1	.80	June	28	2.70	
		31 5.05	Apr.	15	2.9	May	1	.70	July	28	4.20	
Sept.	15	5.55	May	26	3.5	June	1	.20	Aug.	25	4.95	
		30 5.7	June	30	.4		15	.80		28	5.10	
Oct.	16	5.85	July	15	4.6	July	1	2.40		31	5.05	
		30 5.9	Sept.	3	.5		15	2.20	Sept.	8	6.11	
Nov.	16	6.0		15	4.4	Aug.	1	3.10		15	5.47	
		30 6.0	Nov.	30	3.6		19	4.00		22	5.58	
Dec.	15	6.0		6	6.11	Sept.	1	4.25		28	5.60	
		30 6.1	Dec.	14	4.3		15	3.90	Oct.	6	4.60	
	<u>1940</u>			1	6.4	Oct.	1	4.35		13	4.68	
Jan.	15	5.70		31	4.8		15	4.50	Nov.	3	4.91	
		30 5.75		<u>1942</u>			Nov.	1	4.60		17	4.97
Mar.	1	5.3	Jan.	15	4.45	Jan.	15	3.80		24	4.80	
		15 4.9		31	3.5	Dec.	1	3.85	Dec.	1	4.92	
		30 3.9	Feb.	16	3.00		<u>1944</u>				8	4.90
Apr.	15	3.1	Mar.	2	2.85	Jan.	3	4.40		15	5.00	
May	1	2.8		16	.95		15	4.60		26	4.90	

Summary

Fluctuation in Water Levels

While available records of water levels are meager they are sufficient to supply some interesting information. In general, the water level in wells that are not affected by heavy pumping fluctuate with precipitation. The years of extreme low levels correspond closely to the years of deficient precipitation. Fluctuations appear to be more or less seasonal. The degree to which precipitation affects water levels depends on many conditions, including evaporation, transpiration in plant growth, absorption near the surface of the ground, runoff, etc.

The greatest range in fluctuation occurs in wells subject to excessive pumping. If only one well is pumped excessively it may result in decline of water level in nearby wells. Relief from such pumping usually results in a return to normal water levels. Where industrial needs have increased, as they have in recent years in most cities, excessive pumping has been necessary. Some of the accompanying tables show more than average decline in observation wells located in industrial areas.

Ten of the 26 wells discussed in this report are more than 100 feet deep, and one other is nearly that depth. Five of these are located in the Indianapolis area and are affected by more or less heavy pumping of nearby wells. Fluctuation in these five wells is higher than the others in the 100-foot depth group. Their total average fluctuation was 19.26 feet. Three of the wells of this 100-foot depth group are in areas of little ground water pumpage. The total average fluctuation of those three was 4.12 feet.

There was a wide variety in the fluctuation, depths to water, depths of wells, proximity to other wells which were in use periodically, in the 15 wells that are less than 50 feet in depth. The range in fluctuation in this group was from 25.39 feet to 3.5 feet, the average being 10.56 feet. Two of the wells fluctuated more than 20 feet or nearly the entire depth of the wells. They are both located in the Clark County State Forest. The fluctuation of eight wells in this group was less than 10 feet.

Some Causes of Fluctuation

In general, water levels in wells that are not affected by pumping will rise during the late winter and spring, and fall during the remainder of the year. However, there are many factors which may alter these general conditions. For example, wells in the northern part of the State may penetrate glacial materials for 200 feet or more before they reach bed rock, while some wells in the southern part of the State enter rock within a few feet of the surface. Wells of the former type may encounter large reservoirs of water in the glacial drift that are replenished by great underground drainage areas. During cold and protracted winters the frozen ground breaks the contact between surface water and ground water thus retarding the seepage into underground reservoirs and effecting water levels temporarily. Surface drainage, type of glacial drift, type of surface vegetation, topographical features all have a bearing on replenishing the seasonal supply of underground reservoirs by seepage of surface water.

Many shallow wells in the southern or unglaciated parts of the State have only small underground reservoirs to draw on for their supply. Located in narrow valleys which have filled with unconsolidated wash material through which surface water seeps, their recharge is more directly affected by rainfall. A heavy rainfall of short duration followed by

a dry spell will cause marked changes in water level of such wells regardless of season, so that the general rule of high levels in winter and spring and low in summer and fall may not apply in periods of abnormal rainfall.

In this connection it is interesting to note the difference in fluctuation of the observation wells in Clark and Harrison Counties, the records for which are included in this report. The two Clark wells are situated in an area of unusually rough topography, known as the Knobstones. There the hills are high and the valleys are steep and narrow. The Harrison wells are located in a more level area subject to more seepage and have larger reservoirs of underground water which are necessary in maintaining a uniform water level. The two locations are so close together that there should be only slight differences in amount of rainfall. The total fluctuation for the ten year period of observation for the two Clark wells was nearly 25 feet and for the two Harrison wells was less than six feet.

Such factors are being studied and emphasize the need for further investigation of our water resources. While many of these factors may be beyond control, some of them are not. During a heavy rainfall the run-off is rapid and seepage is slow. Floods result. A dam constructed primarily to control floods, or built for recreational purposes, also holds back rainfall that would otherwise drain away through natural channels. A portion of this water, depending on the geologic formations, may seep underground to replenish reservoirs and maintain more uniform water levels. Weeks and months after the flood periods have passed, when dry weather may be parching vegetation, the same water held back by the dam may be pumped from wells that otherwise might be dry.

Other factors that are not beyond control are more judicious drainage, proper location of wells, wise use of cover vegetation and

prevention of waste of water drawn from wells.

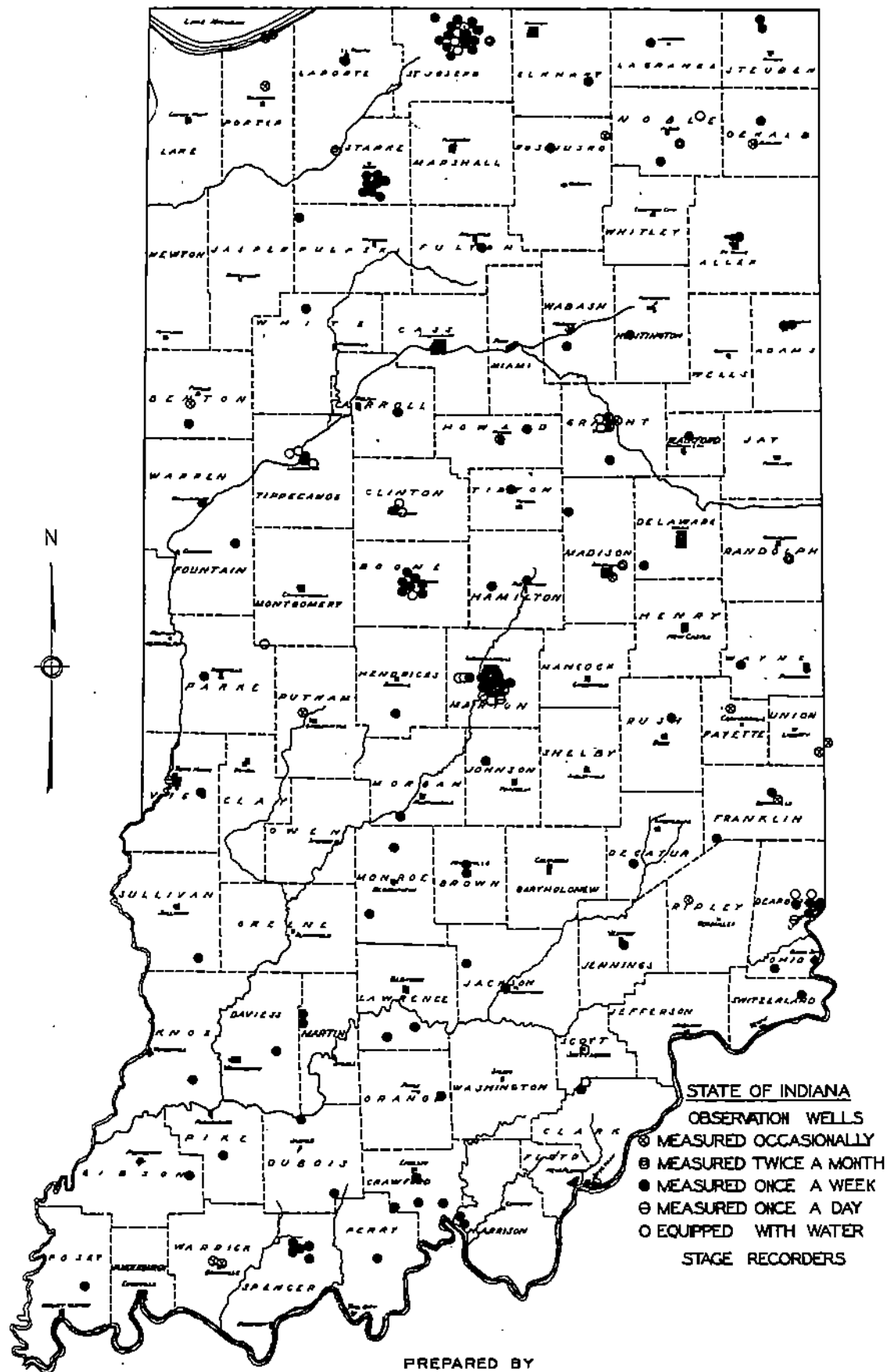
Conclusions

From a study of the hydrographs of the water levels in the 26 wells which have been under observation for a period of about ten years, and water level data which is available from other observation wells there does not appear to be any marked downward trend in the ground water level in the areas in which there is no large withdrawal of water from the ground. There has been a general downward trend in the ground water level in the wells which are affected by pumping. In one of the Indianapolis wells the average annual water level shows a gradual decline from near 47 feet in 1935 to 58 feet in 1945. In two other wells near the center of the City records from 1939 to 1944 show declines of 10 feet in one well and 15 feet in the other.

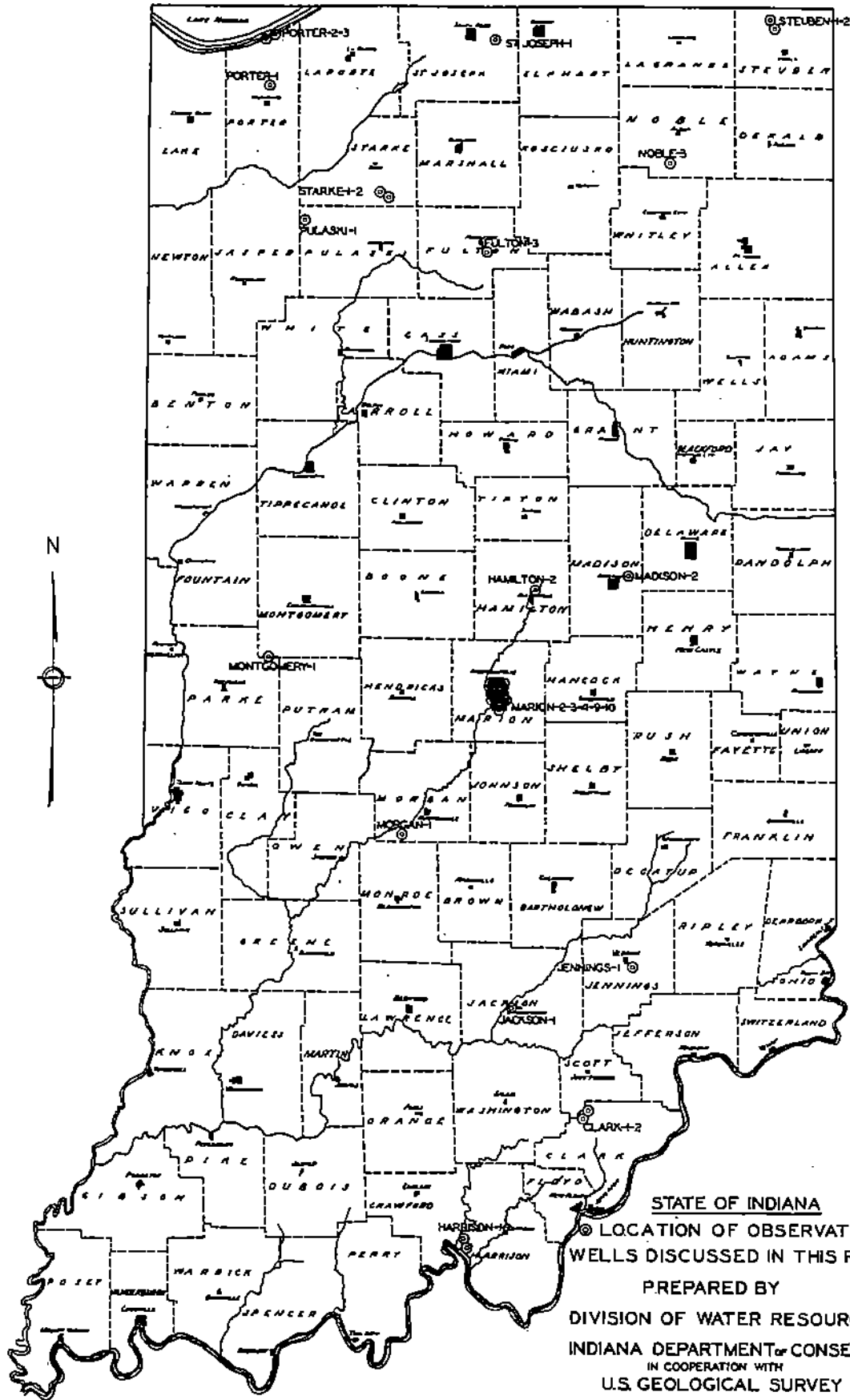
Sufficient data are not available to evaluate the true significance of this downward trend. A much more comprehensive and closer picture of the ground water levels for the State as a whole can be had, however, when more complete data is available for a much greater number of areas in the State. Under the State-wide water resources investigation now being made, in cooperation with the U. S. Geological Survey, the observation well program has been expanded and placed on a more sound and permanent basis. Observers have been employed to measure the water level in the observation wells and it is hoped that continuous records will then be obtained on many wells in all parts of the State. At the present time there are over 160 wells now being regularly measured and it is planned to increase this number to 250 or more as rapidly as possible. Plate II shows the location of the wells now under observation and the frequency which measurements are made.

A study of the water levels in the 26 wells included in this report shows that most of the wells not affected by pumping reached their

lowest levels in 1941. That was a year when precipitation in the State was considerably below normal. There was a deficiency during the preceding year, also. In the two years the total deficiency was more than twelve inches below the average for the 58-year period of weather observation. Since 1942 and until 1945 the State's precipitation was near normal but in the last mentioned year there was a surplus of more than 10 inches above the 58-year average. Since the low level of 1941 there has been a net rise in the average water level in the wells under observation.

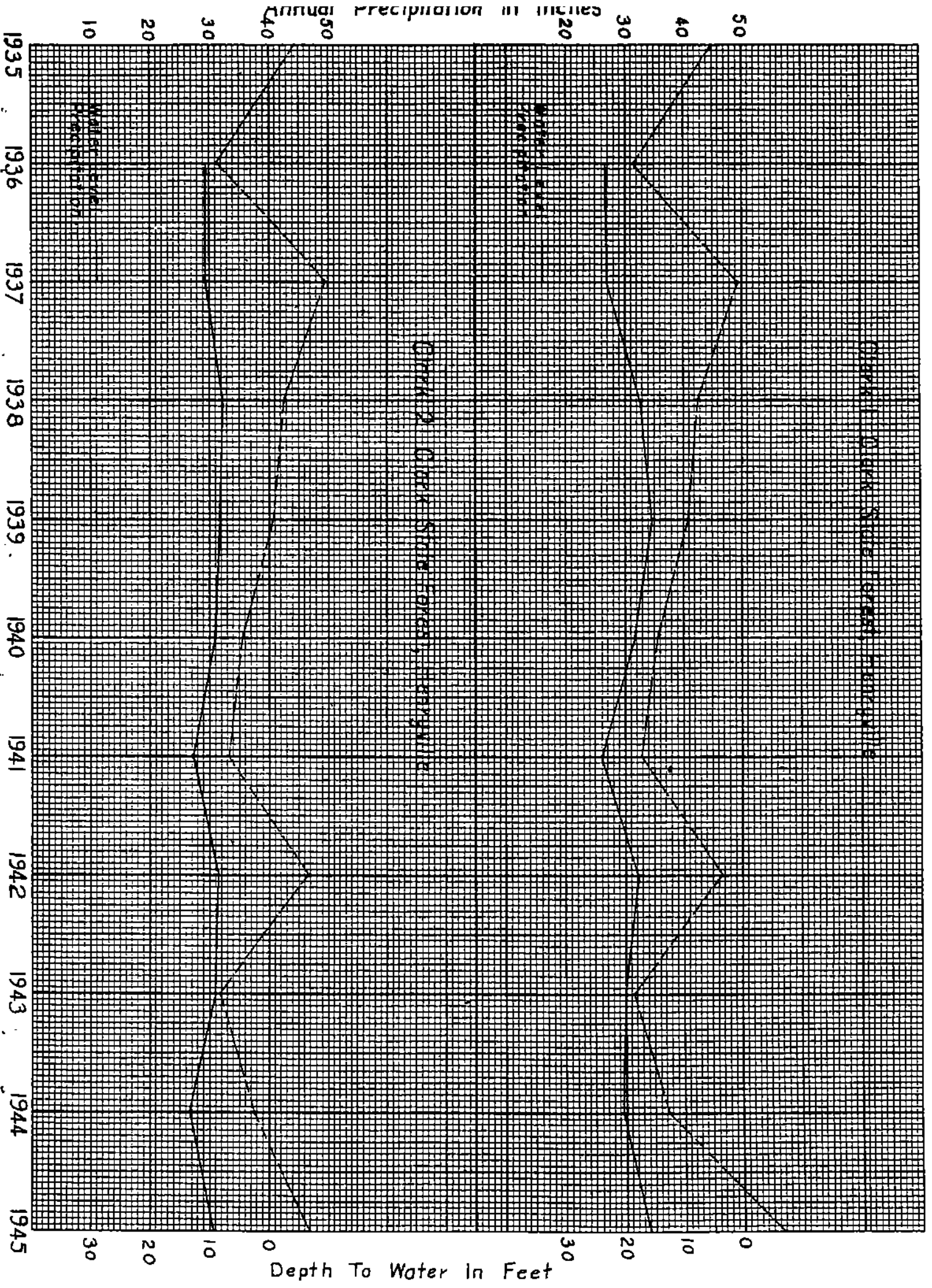


PREPARED BY
 DIVISION OF WATER RESOURCES
 INDIANA DEPARTMENT OF CONSERVATION
 IN COOPERATION WITH
 U.S. GEOLOGICAL SURVEY



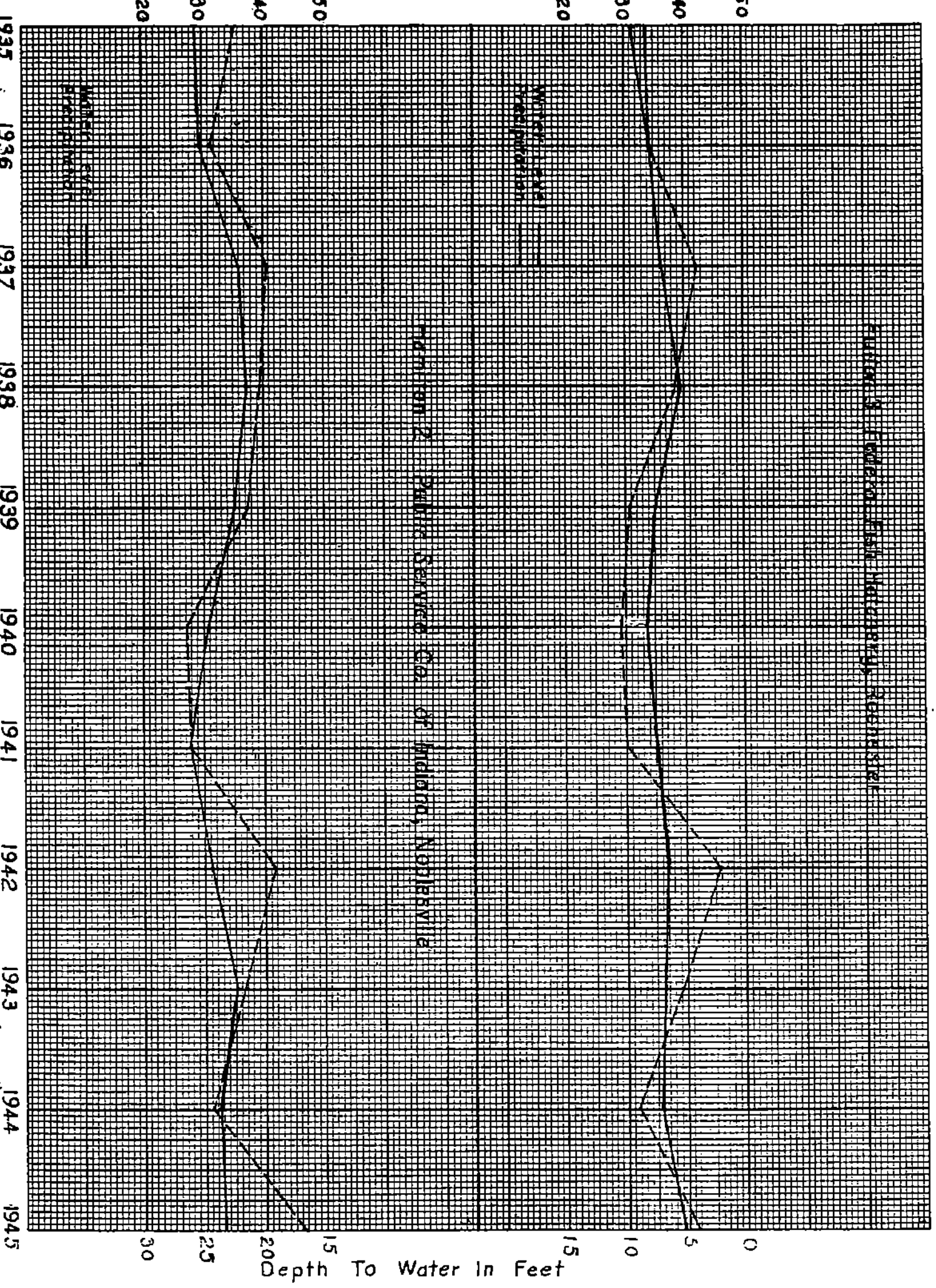
Map showing the State of Indiana with county boundaries and the locations of observation wells. The wells are marked with a circle containing a dot and labeled with their names and numbers:

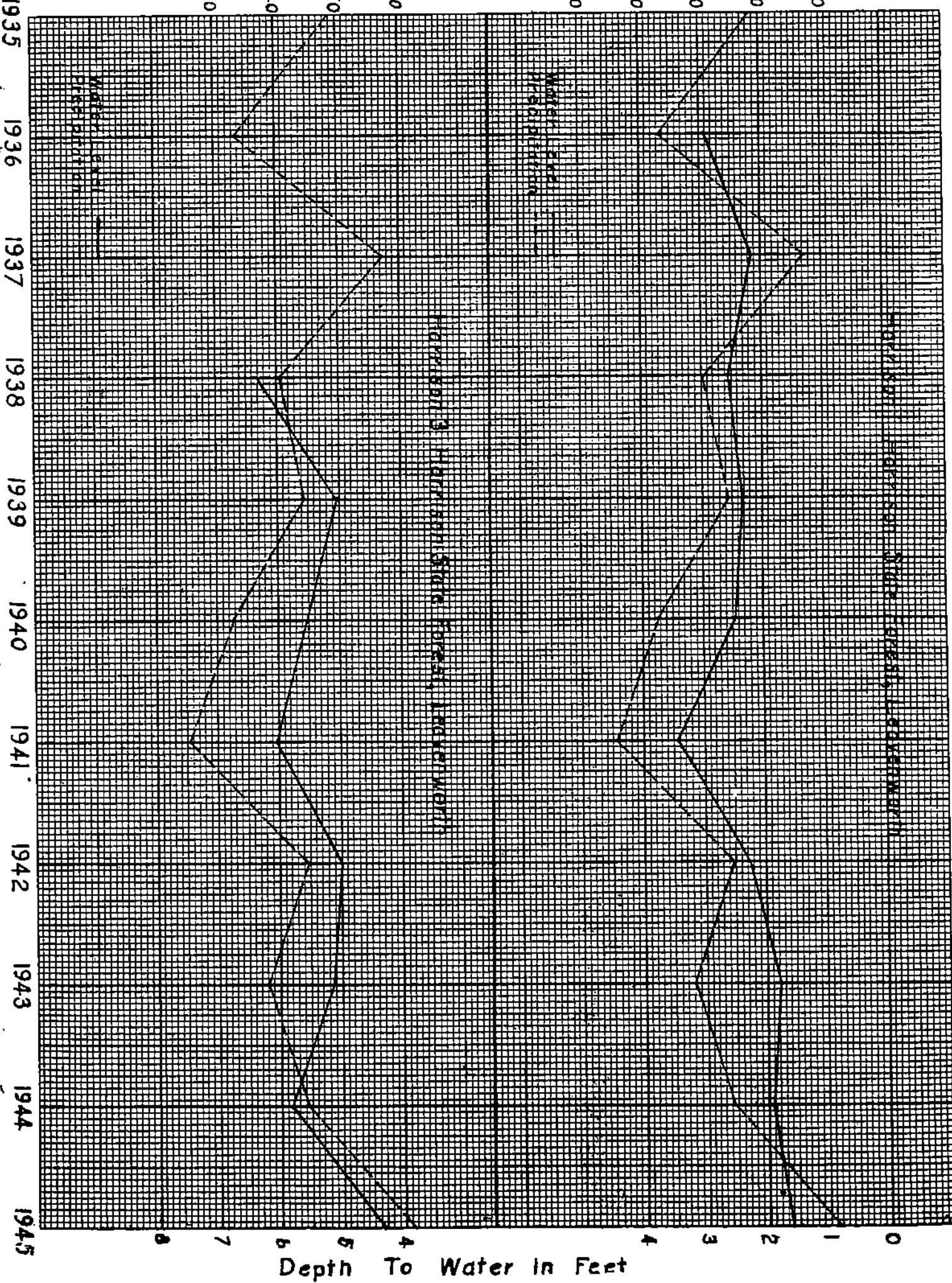
- PORTER-2-3
- PORTER-1
- STARKE-2
- STARKE-1
- STARKE-3
- ST. JOSEPH-1
- ST. JOSEPH-2
- ST. JOSEPH-3
- ST. JOSEPH-4
- ST. JOSEPH-5
- ST. JOSEPH-6
- ST. JOSEPH-7
- ST. JOSEPH-8
- ST. JOSEPH-9
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- ST. JOSEPH-12
- ST. JOSEPH-13
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- ST. JOSEPH-17
- ST. JOSEPH-18
- ST. JOSEPH-19
- ST. JOSEPH-20
- ST. JOSEPH-21
- ST. JOSEPH-22
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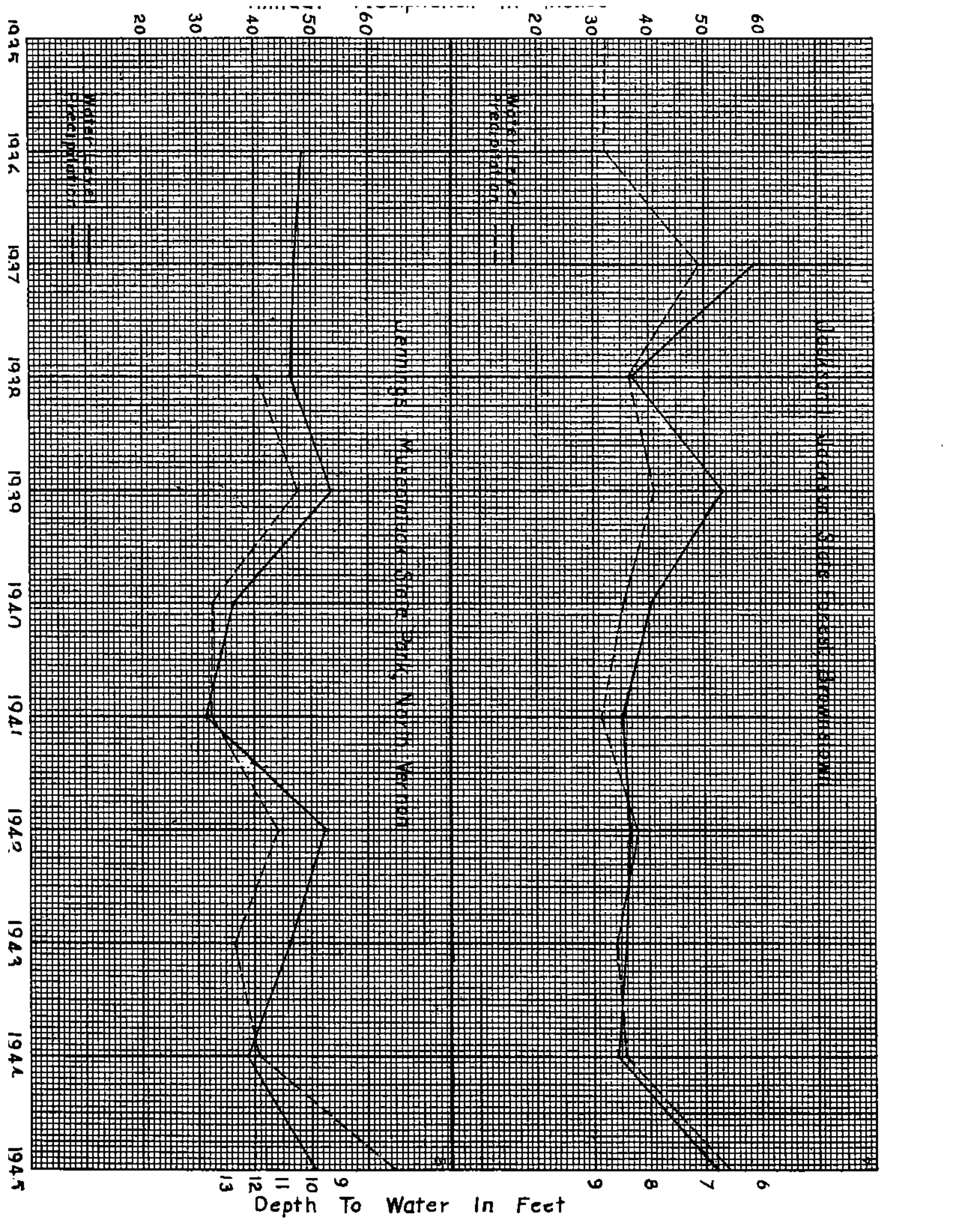


STATION 3 - EMERALD LAKE, INDIANAPOLIS, INDIANA

STATION 2 - PUBLIC SERVICE CO. OF INDIANA, NOBLESVILLE

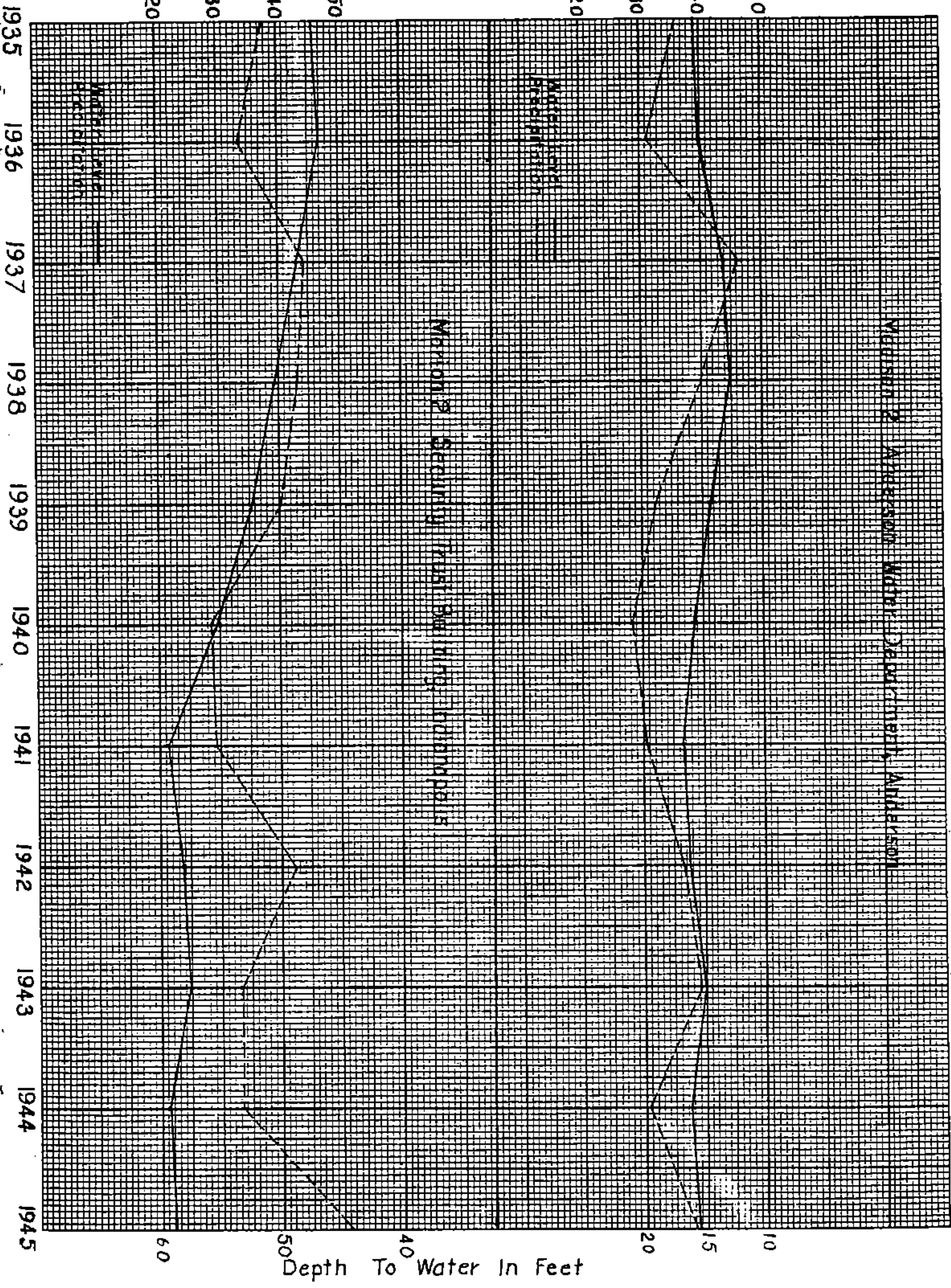






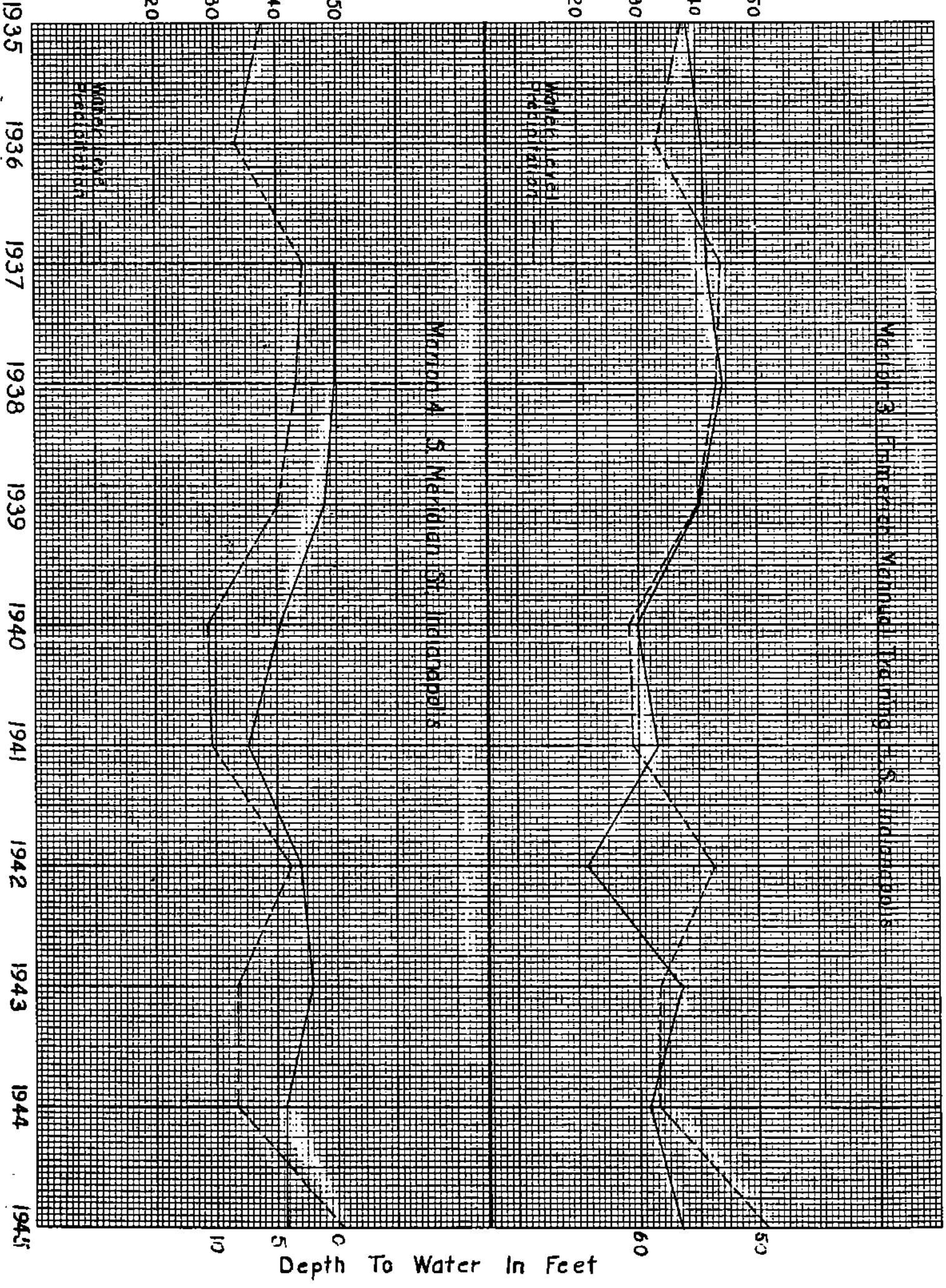
MONITOR 2 - JACKSON WATER DETRIMENTAL ALIEN

Monitor's Security Building, Honolulu



MEASUREMENTS FROM THE MONITOR TRACKING U.S. INDIANAPOLIS

MONITOR A S. MERIDIAN ST. INDIANAPOLIS

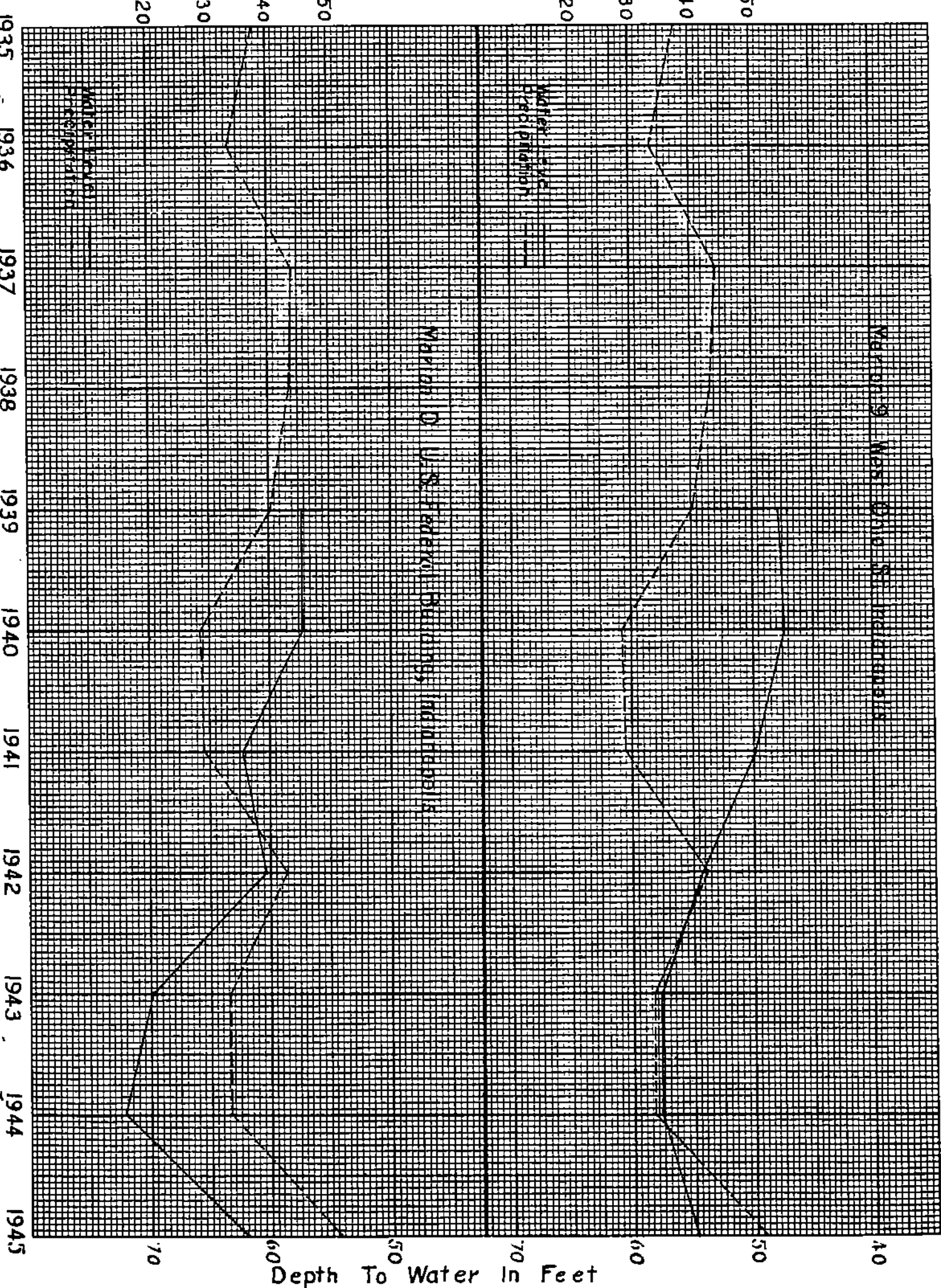


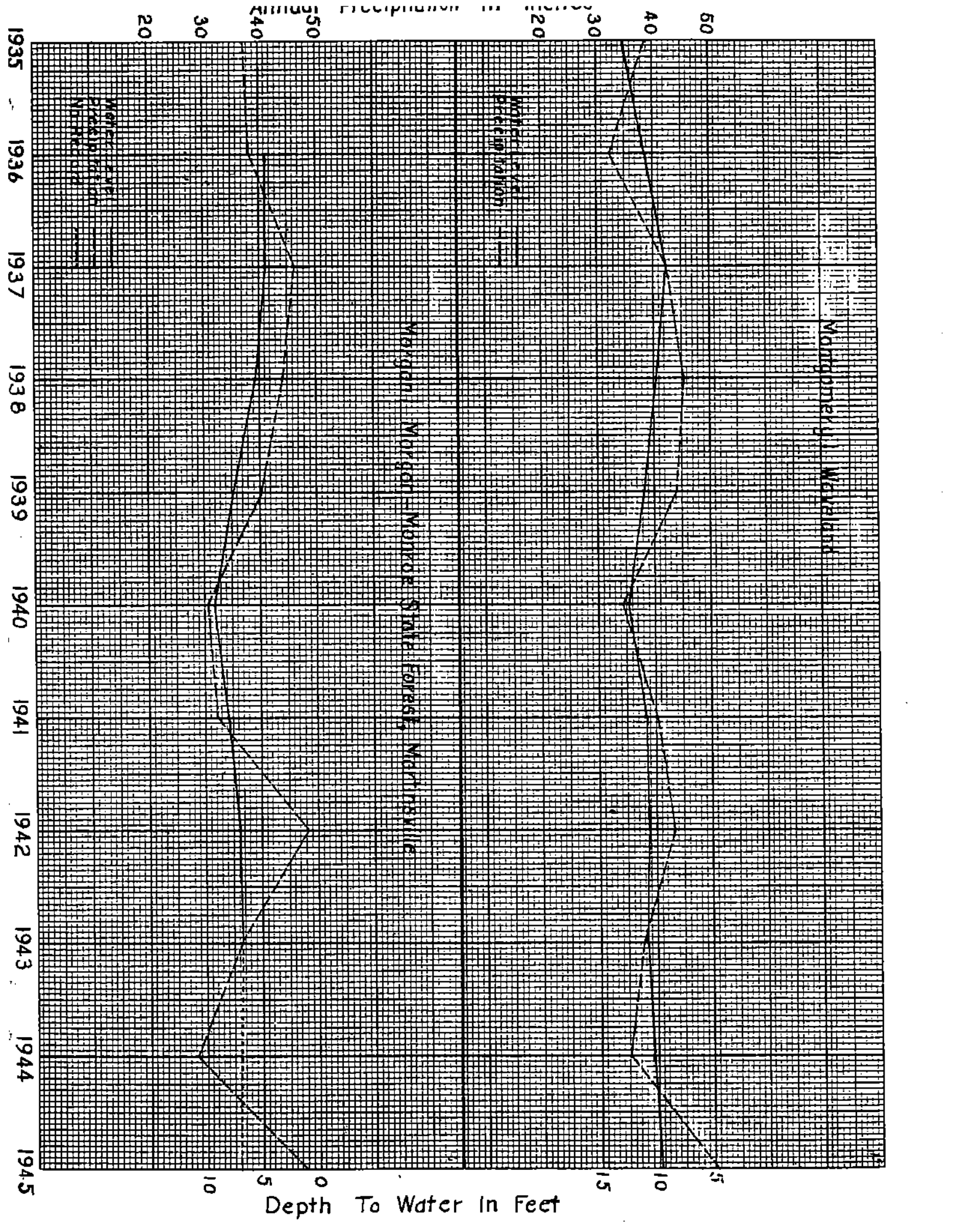
WATER TABLE - WEST QUINN SPRING, MISSISSIPPI

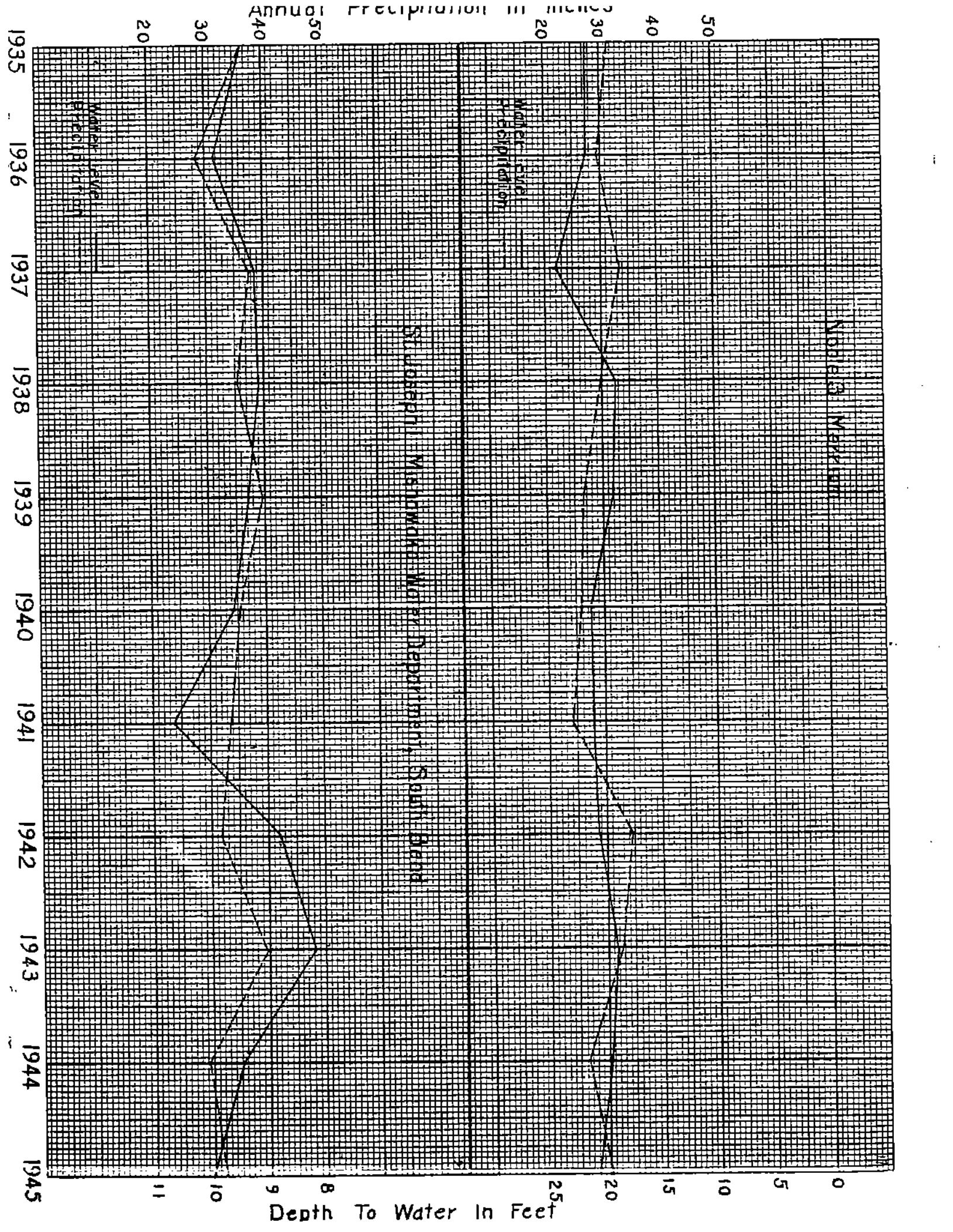
WATER TABLE - WEST QUINN SPRING, MISSISSIPPI

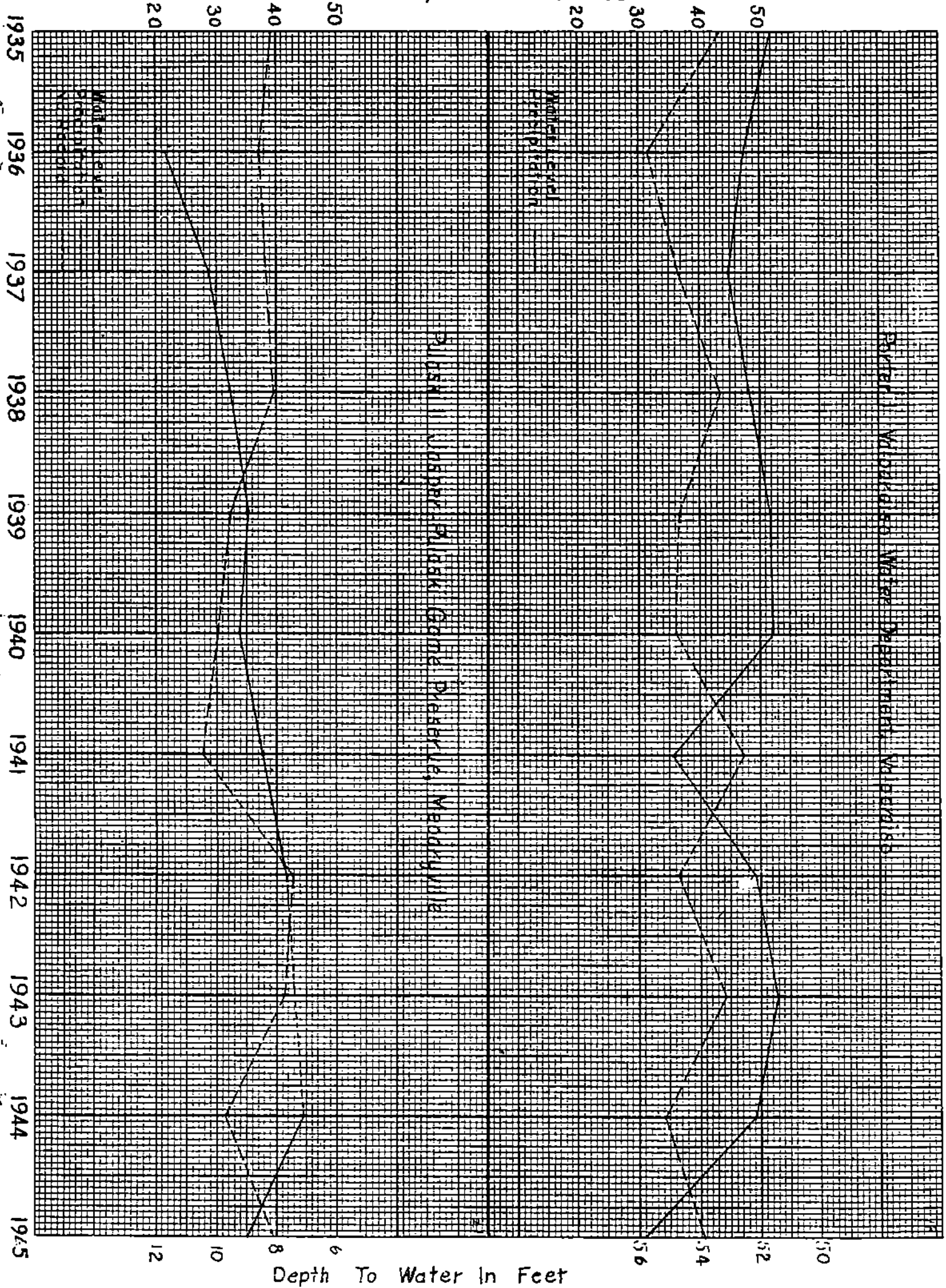
Water table
Elevation

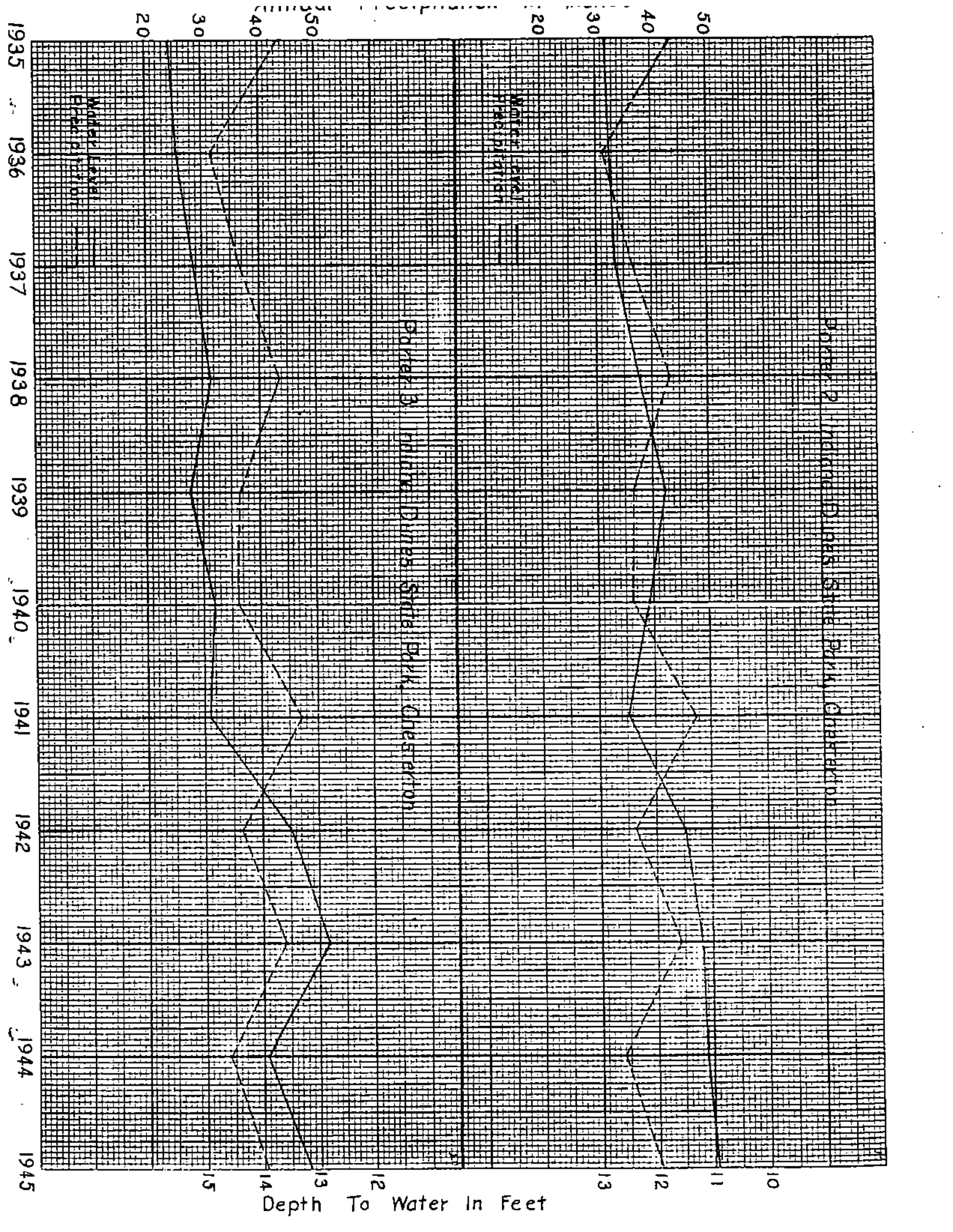
Water table
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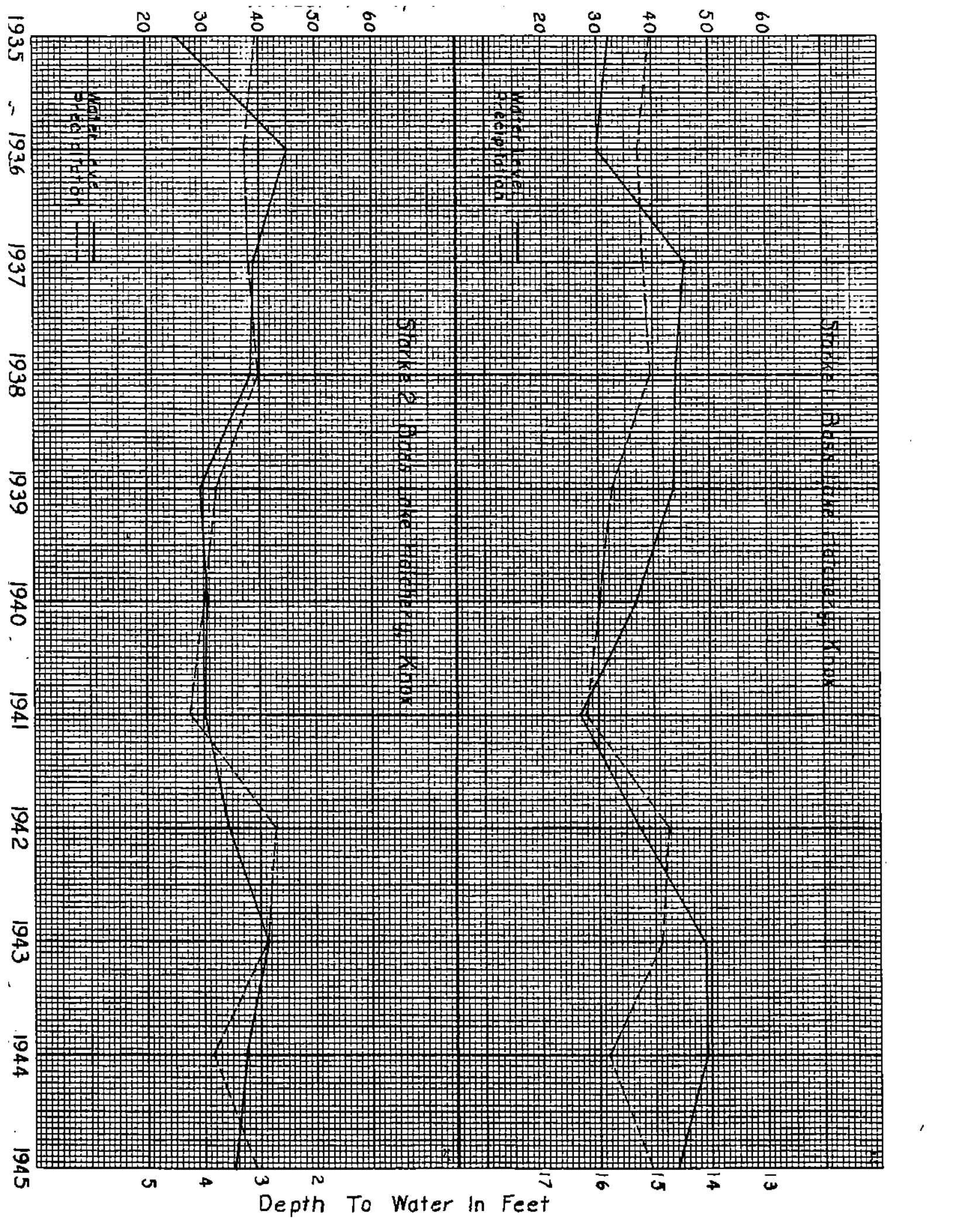


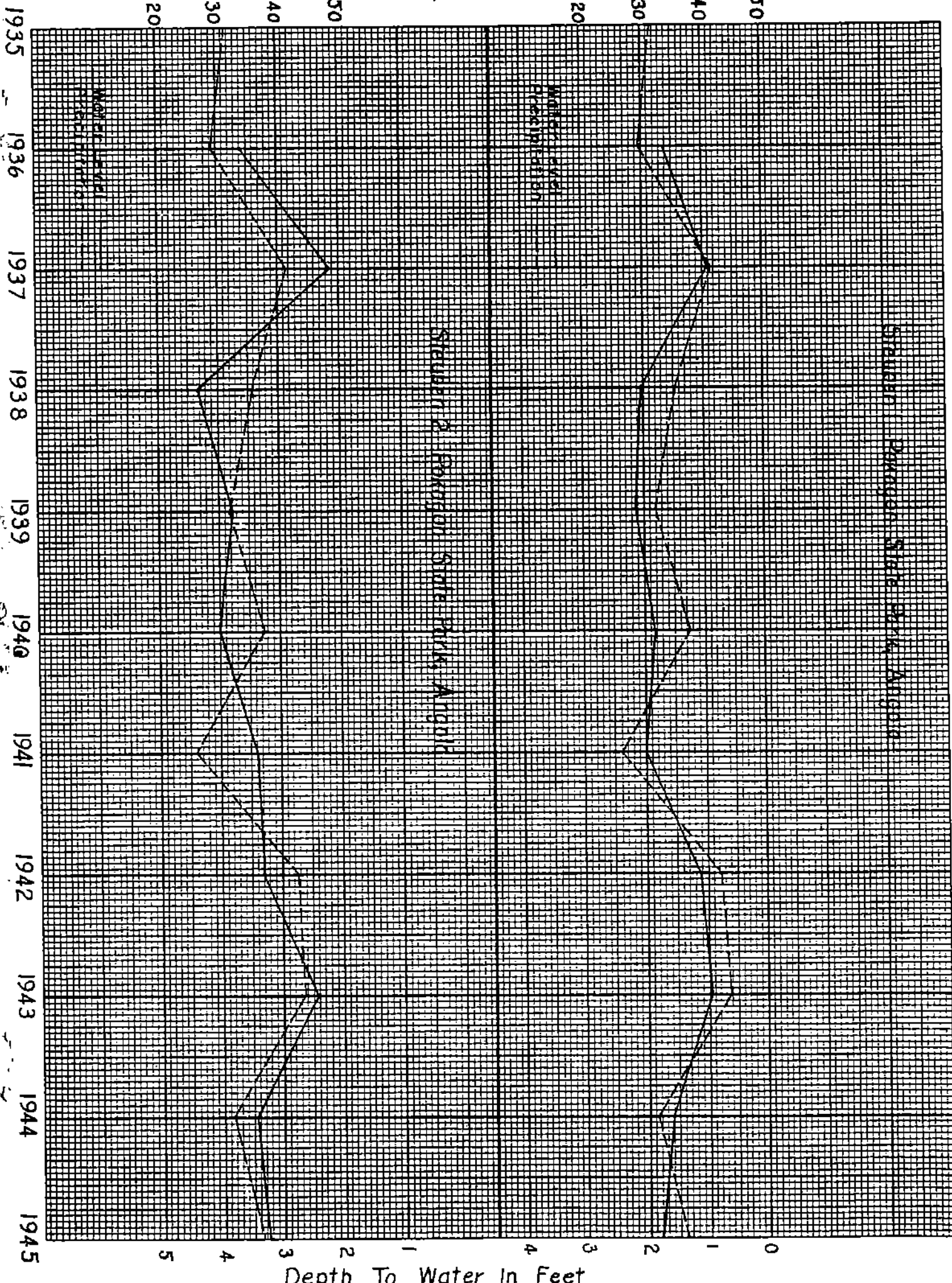






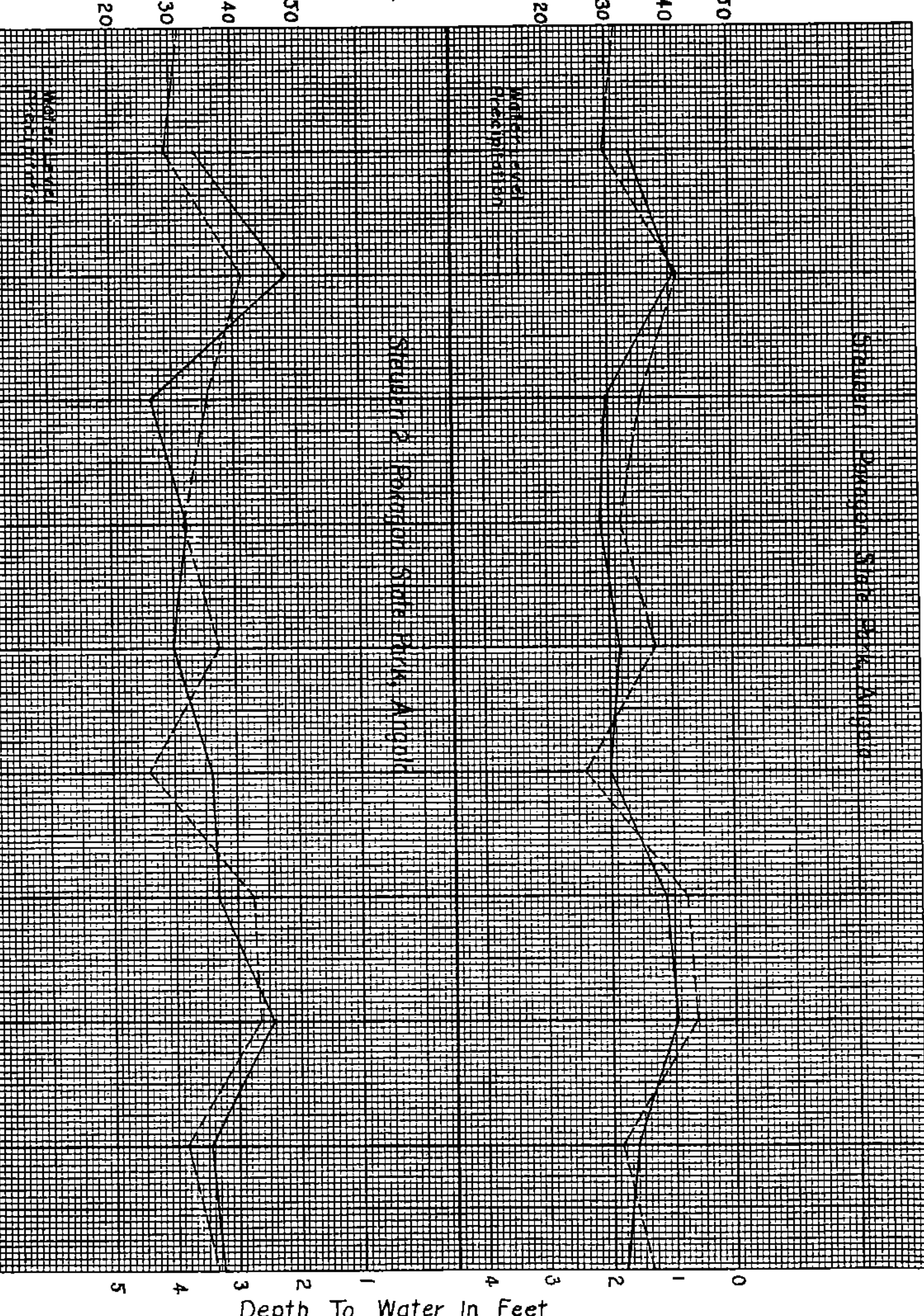






Depth To Water In Feet

1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945



Depth To Water In Feet

1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945