

15A1	Sd	P1	6- 1-61	57	.2	146	40	4	104
15N1	Ls	S	4-61	52	<.1	303	5	4	88
16C1	Sd	P1	6- 1-61	--	1.0	185	95	8	184
17E1	Sd	P1	6- 1-61	57	.1	122	75	8	144
20A1	Sd	P1	6- 1-61	59	1.0	185	105	12	208
21M1	Sd	P1	5- 4-61	55	.1	210	30	4	160
22P1	Sd	P1	5- 4-61	--	1.5	151	125	12	228
25D1	Ls	S	11-57	56	1.0	288	---	76	220
25D1	Ls	S	5-10-61	58	1.0	332	15	24	148
26R1	Sd	P1	5-31-61	54	<.1	273	60	16	236
29R1	Sd	P1	5- 5-61	--	.1	161	40	4	124
31C1	Sd	P1	5- 5-61	51	<.1	171	40	12	136
33A1	Sd	P1	5-31-61	55	.7	220	45	<4	172
36P1	Sd	P1	5-31-61	--	.1	234	35	8	116
31/10W-12E1	Sd	P1	6- 1-61	52	4.0	171	140	12	248
24H1	Sd	P1	6- 1-61	57	.5	142	100	12	180
25R1	Ls	S	5-12-61	58	1.0	156	85	8	180
36R1	Sd	P1	5- 5-61	--	.1	215	70	16	156
32/8W-25R1	Sd	P1	6- 1-61	57	1.0	156	65	8	144
33G1	Ls,G	S,P1	1- 9-59	55	.3	371	20	24	172
34A1	Sd	P1	6- 1-61	52	.5	249	105	24	264
35B1	Sd	P1	6- 1-61	58	5.0	254	210	32	392
35E1	Ls	S	4- 2-59	55	.1	259	10	8	136

Table 6.--Water levels in observation wells in Newton County, Indiana

(In feet below land-surface datum, Water Level:
e, estimated; h, tape measurement)

Newton 2. (27/9W-16P2). E. J. Funk and Sons, formerly Kentland Dairy Products Co., Kentland. SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 27 N., R. 9 W. Drilled unused artesian well in sand and gravel, diameter 10 inches, reported depth 91 feet. Highest water level is 44.28 below lsd, May 25, 1944; lowest 51.80 below lsd, Sept. 9, 1944. Records available: 1944.

Date	Water level	Date	Water level	Date	Water level	Date	Water level
1944 May 25	44.28	June 15	46.20	Aug. 26	51.00	Sept. 9	51.80
		Aug. 19	49.83	Sept. 4	50.65	30	50.60
						Oct. 28	50.10

Newton 3. (27/9W-16L1). E. J. Funk and Sons. Kentland NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, T. 27 N., R. 9 W. Drilled unused artesian well in gravel and sand, diameter 10 inches, depth 103 feet. Recording gage installed Nov. 5, 1954. Highest water level is 30.70 below lsd, Apr. 3, 1959; lowest 39.85 below lsd, Sept. 6, 1959. Records available: 1954-60. Affected by nearby pumping and by trains.

(Daily highest water level from recorder graph, 1954)

Nov. 6	33.85	Nov. 20	33.40	Dec. 5	33.50	Dec. 19	33.35
7	34.00	21	33.50	6	33.60	20	33.35
8	33.95	22	33.50	7	33.65	21	33.50
9	34.05	23	33.60	8	33.40	22	33.45
10	34.10	24	33.15	9	33.05	23	33.20
11	34.00	25	33.55	10	33.40	24	33.40
12	34.10	26	33.40	11	33.65	25	33.65
13	34.10	28	33.25	12	33.50	26	33.30
14	34.05	29	33.40	13	33.40	27	33.25
15	33.70	30	33.85	14	33.40	28	33.40
16	33.70	Dec. 1	33.65	15	33.25	29	33.35
17	33.60	2	33.65	16	33.50	30	33.25
18	33.50	3	33.60	17	33.30	31	33.35
19	33.40	4	33.50	18	33.25		

(Daily highest water level from recorder graph, 1955)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	33.15	32.90	32.30	31.95	32.20	32.10	----	----	----	----	----	----
2	33.15	32.85	32.40	31.80	31.90	32.40	----	----	----	----	33.00	----
3	33.25	33.15	32.25	31.95	32.05	32.25	----	----	----	----	33.10	----
4	33.20	33.30	32.25	31.90	32.15	32.25	----	----	----	----	33.15	----
5	32.95	32.90	32.30	31.85	32.25	32.25	----	----	----	----	33.00	----
6	32.95	32.70	----	31.95	32.35	32.05	----	----	----	----	32.85	----
7	33.15	32.65	----	31.95	32.25	31.95	----	----	----	----	32.85	----
8	32.90	32.80	----	32.00	32.25	31.80	----	----	----	----	33.05	----
9	32.80	32.50	32.00	32.15	32.15	32.05	----	----	----	----	----	----
10	32.80	32.45	32.05	----	32.05	31.85	----	----	----	----	----	----

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	32.85	32.75	31.90	----	32.05	31.60	----	----	----	----	----	----
12	32.75	32.90	32.25	----	32.00	31.70	----	----	----	----	----	----
13	32.70	33.00	32.40	31.90	31.50	31.50	----	----	----	----	----	----
14	32.90	32.95	32.25	31.85	31.80	31.65	----	----	----	----	----	----
15	32.65	32.70	31.95	31.90	31.95	31.50	----	----	----	----	----	----
16	32.60	32.55	32.00	31.95	32.00	31.65	----	----	----	----	----	----
17	32.60	33.10	32.20	32.20	31.70	31.95	----	----	----	----	----	----
18	32.85	32.80	31.95	31.85	32.05	31.90	----	----	----	----	----	----
19	32.75	32.60	32.10	31.85	31.55	31.90	----	----	----	----	----	----
20	32.55	32.40	32.10	31.90	31.85	31.90	----	----	----	----	----	----
21	32.65	32.50	31.65	31.75	32.05	31.85	----	----	----	----	----	----
22	32.40	32.60	31.55	31.85	32.05	31.95	----	----	----	----	----	----
23	32.60	32.95	31.90	31.80	31.95	31.75	----	----	----	----	----	----
24	32.40	32.70	32.00	31.40	32.30	31.90	----	----	----	----	----	----
25	32.60	32.75	32.05	31.25	----	32.10	----	----	----	----	----	----
26	32.85	32.55	31.90	31.80	----	32.20	----	----	----	----	----	----
27	32.85	32.40	32.25	31.65	----	32.05	----	----	----	----	----	----
28	32.75	32.40	32.00	31.85	----	32.60	----	----	----	----	----	----
29	32.90	----	31.95	31.85	31.75	----	----	----	----	----	----	----
30	32.90	----	32.00	32.05	31.60	----	----	----	----	----	----	----
31	33.00	----	31.90	----	31.95	----	----	----	----	----	----	----

(Daily highest water level from recorder graph, 1956)

1	----	----	----	----	----	----	32.10	33.00	----	33.75	33.65	----
2	----	----	----	----	----	----	32.30	33.25	----	33.60	33.95	----
3	----	----	----	----	----	----	32.45	33.55	----	33.85	33.95	----
4	----	----	----	----	----	----	32.20	33.55	----	----	34.35	----
5	----	----	----	----	----	----	31.90	34.15	----	----	34.05	----
6	----	----	----	----	----	----	31.85	33.70	----	----	----	----
7	----	----	----	----	----	----	32.05	33.85	----	----	----	----
8	----	----	----	----	----	----	----	33.80	----	----	----	----
9	----	----	----	----	----	----	----	33.90	----	----	33.70	----
10	----	----	----	----	----	----	----	33.95	----	----	33.70	----
11	----	----	----	----	----	----	----	34.25	----	----	33.50	----
12	----	----	----	----	----	----	----	----	----	----	33.40	----
13	----	----	----	----	----	32.35	----	----	----	----	33.80	34.05
14	----	----	----	----	----	32.85	----	----	----	----	33.55	33.95
15	----	----	----	30.80	----	32.10	----	----	----	----	34.10	33.90
16	----	----	----	30.75	----	32.30	----	----	----	----	----	34.00
17	----	----	----	31.05	----	32.15	----	----	----	----	----	33.85
18	----	----	----	31.05	----	31.70	----	33.85	----	----	34.15	34.30
19	----	31.65	----	31.20	----	31.85	----	33.90	----	----	33.90	----
20	31.75	31.55	----	31.25	----	----	----	33.40	----	----	34.05	34.75
21	31.95	31.70	----	31.25	----	----	32.15	33.65	----	----	34.05	34.70
22	32.00	31.70	----	----	----	----	32.20	33.60	----	----	34.15	34.50
23	31.90	31.75	----	----	----	----	32.10	33.35	----	----	33.95	34.75
24	31.95	31.25	----	----	----	----	32.20	33.65	----	----	34.10	34.55

Table 6.--Water levels in observation wells in Newton County--Cont.

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
25	32.00	31.05	31.35	-----	-----	-----	32.50	-----	-----	-----	-----	34.50
26	32.25	-----	30.80	-----	-----	-----	32.45	-----	-----	-----	-----	-----
27	-----	-----	31.20	-----	-----	-----	-----	-----	33.85	-----	-----	-----
28	-----	-----	30.85	-----	-----	-----	-----	-----	34.00	-----	-----	33.65
29	-----	-----	31.10	-----	-----	-----	33.25	-----	34.00	-----	-----	33.85
30	-----	-----	31.25	-----	-----	-----	32.70	-----	34.15	33.85	-----	33.85
31	-----	-----	31.45	-----	-----	-----	33.00	-----	-----	33.85	-----	33.55

(Daily highest water level from recorder graph, 1957)

1	34.00	-----	-----	33.35	-----	-----	-----	-----	-----	34.30	33.25	32.45
2	34.15	-----	33.50	33.45	-----	-----	-----	-----	-----	34.00	33.25	32.45
3	34.10	-----	-----	33.60	-----	32.15	-----	-----	-----	33.65	33.05	32.40
4	34.25	-----	-----	33.25	-----	-----	-----	-----	33.35	-----	33.10	32.55
5	34.40	-----	-----	32.95	-----	-----	-----	-----	33.30	-----	33.10	32.50
6	34.10	-----	-----	33.20	-----	-----	-----	32.95	33.25	-----	33.30	32.20
7	34.00	-----	-----	33.15	-----	32.45	-----	32.90	33.25	-----	33.10	32.25
8	33.70	-----	-----	-----	-----	-----	-----	32.95	33.15	-----	32.60	32.50
9	33.80	-----	-----	-----	-----	-----	-----	33.40	33.10	-----	32.90	32.40
10	-----	-----	33.45	-----	-----	-----	-----	33.90	33.10	33.90	33.30	32.25
11	-----	-----	33.35	-----	-----	32.45	-----	33.95	33.20	34.00	33.30	32.30
12	-----	-----	-----	-----	-----	-----	-----	33.45	33.25	34.10	33.25	-----
13	-----	-----	-----	33.40	-----	-----	-----	33.50	33.10	34.00	32.80	-----
14	-----	-----	-----	33.45	-----	-----	-----	33.45	33.25	-----	33.50	-----
15	-----	-----	-----	34.35	-----	-----	-----	33.55	33.25	33.90	33.60	31.90
16	-----	-----	34.35	33.40	-----	-----	-----	33.70	33.20	33.60	33.60	31.70
17	-----	-----	34.15	-----	-----	-----	-----	33.60	33.45	33.50	33.90	32.60
18	-----	-----	33.90	-----	-----	-----	-----	33.70	33.55	33.55	33.40	32.20
19	-----	-----	34.10	-----	31.85	-----	-----	33.40	33.75	33.75	33.30	32.05
20	-----	-----	34.15	-----	31.70	-----	-----	33.60	33.80	33.75	33.50	31.90
21	-----	-----	33.90	-----	31.70	-----	-----	33.65	33.50	33.70	32.55	32.20
22	-----	-----	-----	-----	-----	-----	-----	33.85	33.65	-----	32.80	32.35
23	-----	-----	-----	-----	-----	-----	32.75	33.90	33.50	-----	32.60	32.10
24	-----	-----	-----	-----	-----	-----	33.85	33.75	33.65	33.20	32.50	32.35
25	-----	-----	-----	-----	-----	-----	32.80	33.30	33.45	33.40	32.05	32.15
26	-----	-----	-----	-----	31.90	-----	32.65	33.40	33.85	33.40	32.35	31.70
27	-----	-----	-----	-----	32.85	-----	32.85	33.65	33.90	33.40	32.30	32.05
28	-----	-----	-----	-----	32.45	-----	33.05	30.90	33.95	33.30	32.80	31.80
29	-----	-----	-----	-----	32.30	-----	-----	-----	33.20	33.25	32.30	32.00
30	-----	-----	33.35	-----	32.40	-----	33.30	-----	34.00	33.25	32.05	32.15
31	-----	-----	33.65	-----	32.15	-----	-----	-----	-----	33.10	-----	32.10

Table 6.--Water levels in observation wells in Newton County--Cont.

(Daily highest water level from recorder graph, 1958)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	32.15	31.60	34.50	32.50	32.45	33.15	32.65	32.85	----	----	33.10	32.85
2	32.20	31.70	34.30	32.30	32.55	32.90	32.90	32.95	----	----	32.05	32.70
3	31.45	31.75	34.40	32.25	32.45	32.95	32.90	33.00	----	----	33.05	32.30
4	31.75	----	34.60	32.15	32.35	32.65	33.00	33.10	----	33.55	33.20	32.30
5	32.00	----	34.55	32.25	32.20	32.90	33.15	33.25	----	----	32.95	32.50
6	31.60	----	34.80	31.80	32.30	32.90	33.25	33.55	34.10	33.55	34.25	32.80
7	31.50	----	35.40	31.80	32.50	32.60	33.00	33.10	33.80	----	33.55	----
8	31.60	----	35.70	32.05	32.40	32.85	----	33.40	33.65	----	33.55	----
9	31.80	32.20	35.85	32.30	32.30	32.45	----	33.55	33.65	33.50	33.00	----
10	31.80	32.00	36.30	32.10	32.40	32.40	----	33.60	33.75	33.55	33.15	----
11	32.05	32.20	37.15	32.10	32.80	32.50	----	33.60	33.65	33.45	33.40	----
12	31.80	32.20	37.35	32.00	32.45	32.60	32.65	33.50	33.60	33.75	33.25	----
13	31.55	32.05	37.25	32.10	32.65	33.15	----	33.65	33.60	33.45	33.85	----
14	31.75	32.15	37.30	32.10	32.80	32.50	----	33.50	33.70	33.65	33.15	----
15	31.45	31.90	----	32.30	32.90	32.35	----	33.95	33.95	33.60	33.55	33.15
16	31.45	32.30	37.25	32.20	32.60	32.15	----	33.90	33.75	33.75	33.00	32.60
17	31.45	32.50	37.50	32.35	32.90	32.10	----	33.75	33.45	33.55	32.85	32.50
18	31.65	32.60	34.80	34.35	32.70	32.00	----	33.65	33.50	----	32.85	32.65
19	31.65	32.75	33.95	34.70	32.60	32.00	33.10	33.70	33.50	33.65	33.05	32.85
20	31.90	32.75	----	34.80	32.85	31.70	32.85	33.80	33.55	33.55	32.05	35.15
21	31.70	32.70	----	34.80	32.95	32.05	----	33.85	33.45	33.70	32.90	34.65
22	31.60	32.85	----	34.80	33.05	31.95	32.45	33.60	33.55	33.50	32.90	33.65
23	31.95	33.05	33.10	35.10	32.70	31.70	32.65	33.75	33.65	33.50	32.75	33.00
24	31.85	32.95	32.90	33.95	32.90	31.95	32.90	33.40	33.65	33.15	32.60	33.15
25	31.60	33.20	32.60	33.35	----	31.95	32.95	33.15	33.85	33.70	32.70	33.05
26	31.55	33.80	32.55	33.15	----	31.95	32.95e	33.40	33.90	33.30	32.70	32.75
27	31.50	33.65	32.75	32.85	----	32.15	33.25	33.35	37.20	33.20	33.00	----
28	31.75	34.00	32.40	32.40	----	32.15	32.85	33.40e	37.40	33.35	32.75e	32.95
29	31.75	----	32.40	32.40	33.10	32.50	32.95	----	----	33.40	32.70e	32.75
30	31.60	----	32.45	32.60	32.90	32.45	33.10	34.00	----	33.45	33.15e	32.75
31	31.60	----	32.45	----	33.15	----	32.85	34.40	----	33.35	----	32.80

(Daily highest water level from recorder graph, 1959)

1	e32.30	32.30	34.80	31.10	----	----	----	----	36.40	34.70	34.95	33.95
2	----	32.55	34.65	30.80	----	----	----	----	35.25	34.75	34.80	34.00
3	32.90	31.80	34.65	30.70	----	----	----	----	----	34.80	34.95	33.90
4	32.40	31.50	34.90	31.20	----	----	----	----	e35.60	34.95	34.60	33.80
5	32.70	31.85	----	31.00	----	----	----	----	35.85	35.05	34.65	33.75
6	32.50	32.10	----	31.05	----	----	----	----	e36.25	34.70	34.90	33.65
7	32.20	32.00	----	31.00	----	----	----	----	----	34.95	34.85	33.65
8	32.10	31.75	32.60	31.05	----	----	----	----	----	34.45	34.65	33.70
9	32.30	31.25	31.90	31.05	----	----	----	----	----	34.70	35.10	33.65
10	32.20	32.45	31.90	31.20	----	----	----	----	----	34.50	34.30	33.65

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	32.50	----	31.85	31.20	----	----	----	----	35.85	34.35	34.35	33.50
12	32.30	----	31.60	31.25	----	----	----	----	35.60	34.35	34.35	34.40
13	31.85	----	31.55	31.00	----	----	----	----	----	34.50	34.15	33.65
14	31.70	34.45	31.40	31.10	----	----	----	----	----	34.30	35.40	33.65
15	31.65	33.95	31.15	31.30	----	----	----	----	----	34.35	34.00	33.55
16	31.90	33.65	31.35	31.10	----	----	----	----	----	34.40	34.20	33.45
17	----	33.90	31.50	31.20	----	----	----	----	----	34.50	34.35	33.40
18	----	34.15	31.65	31.10	----	----	----	----	35.10	38.30	33.85	33.35
19	31.60	34.00	31.40	----	----	----	----	----	35.15	36.45	34.10	33.70
20	31.95	34.45	31.35	----	----	----	----	----	35.40	----	34.00	33.50
21	31.85	34.05	31.30	----	----	----	----	----	35.35	----	33.90	33.30
22	31.80	34.35	31.30	----	----	----	----	----	35.15	----	33.45	33.50
23	32.25	34.10	31.15	----	----	----	----	----	35.40	----	33.75	33.45
24	32.40	34.30	31.20	----	----	----	----	----	----	35.70	33.10	33.45
25	32.25	34.20	31.30	----	----	----	----	----	35.05	34.40	33.50	33.50
26	32.00	34.50	31.30	----	----	----	----	----	35.10	35.90	33.90	33.25
27	32.30	34.55	31.10	----	----	----	----	35.75	34.90	34.95	33.80	33.15
28	32.00	34.55	31.50	----	----	----	----	36.35	34.75	----	34.15	33.00
29	32.15	----	31.45	----	----	----	----	36.30	34.95	35.85	34.60	33.00
30	31.95	----	31.10	----	----	----	----	36.55	34.70	34.75	33.95	33.20
31	32.50	----	31.00	----	----	----	----	36.15	----	37.05	----	33.30

(Daily highest water level from recorder graph, 1960)

1	33.35	32.15	32.15	----	31.05	----	31.90	33.20	----	----	33.80	----
2	32.85	32.30	31.75	32.65	31.45	----	32.95	33.55	----	----	34.30	----
3	36.05	32.40	31.40	31.65	----	----	32.20	34.20	35.50	----	33.85	----
4	34.80	32.15	31.65	31.40	----	----	31.85	33.15	35.55	34.50	33.80	----
5	33.65	31.90	31.60	31.40	31.75	32.05	31.95	33.35	35.90	33.55	----	33.85
6	33.40	31.65	----	31.25	21.60	----	32.25	33.45	35.40	33.45	----	33.60
7	32.75	31.80	----	31.20	31.60	32.25	32.45	----	35.45	33.55	----	33.80
8	----	31.65	----	31.30	----	----	----	----	35.70	33.75	----	33.90
9	33.45	31.55	----	31.30	----	----	----	----	35.55	33.40	----	33.70
10	32.85	31.10	----	31.50	----	----	32.25	----	----	33.45	----	33.70
11	32.75	31.55	----	31.10	----	33.00	32.05	----	----	----	----	33.35
12	32.55	31.85	32.50	31.00	----	31.95	32.45	----	----	----	----	33.40
13	32.70	31.80	31.60	31.00	----	31.80	32.15	34.35	----	----	----	33.70
14	32.55	31.65	31.45	33.00	32.40	----	----	33.20	----	----	----	33.25
15	32.20	31.50	32.00	31.40	----	----	----	33.25	----	----	34.05	33.10
16	32.45	31.60	31.45	31.35	----	----	----	33.25	----	----	33.30	33.10
17	32.40	31.45	31.55	31.30	----	----	----	33.40	34.91	----	33.55	33.40
18	31.90	31.35	31.45	31.50	----	----	----	33.45	----	----	----	33.55
19	32.20	31.45	31.55	31.30	32.35	31.50	----	----	----	----	----	33.55
20	32.30	31.80	31.70	31.35	----	31.40	----	----	----	----	----	33.50

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	32.30	31.45	31.60	31.30	e31.65	31.45	----	----	----	----	----	33.35
22	32.35	31.40	31.90	31.10	30.90	31.70	----	----	----	e34.20	----	33.25
23	32.90	31.95	31.75	e31.30	31.25	31.75	----	----	----	33.50	----	33.55
24	32.45	31.90	31.65	----	----	31.35	----	----	----	33.65	e34.15	----
25	32.35	31.80	32.25	----	----	31.40	----	----	----	33.90	33.50	----
26	32.20	31.90	32.00	----	----	31.60	33.00	----	----	33.60	33.65	----
27	32.25	32.20	32.00	----	----	31.65	32.80	----	----	33.65	33.55	----
28	32.40	32.00	31.65	----	h35.88	32.10	e32.70	34.60	----	33.65	33.60	----
29	32.35	31.95	31.70	----	----	31.60	e33.05	34.65	h34.96	33.15	----	33.75
30	32.25	----	----	----	----	32.80	33.50	----	----	33.65	----	----
31	32.20	----	----	----	----	----	33.35	----	----	33.30	----	33.40

Newton 4. (28/8W-19A2). Brown Trucking Co. Brook. NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 28 N., R. 8 W. Drilled unused artesian well in sand and gravel, diameter 5 inches, depth 114 feet. Recording gage installed Nov. 5, 1954. Highest water level is 6.2 below lsd, June 16, 1958; lowest 16.5 below lsd, Feb. 22, 1957. Records available: 1954-60. Affected by nearby pumping.

(Daily highest water level from recorder graph, 1954)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
Nov. 6	11.4	Nov. 19	11.4	Dec. 4	11.5	Dec. 16	11.3
7	11.5	20	11.5	5	11.2	17	11.2
8	11.5	21	11.4	6	11.2	18	11.2
9	11.5	22	11.4	7	11.2	19	11.3
11	11.6	23	11.4	8	11.1	20	11.4
12	11.6	24	11.3	9	11.0	22	11.4
13	11.6	28	11.2	10	11.1	23	11.3
14	11.6	29	11.3	11	11.2	24	11.4
15	11.6	30	11.4	12	11.2	25	11.5
16	11.5	Dec. 1	11.3	13	11.3	26	11.4
17	11.5	2	11.4	14	11.3	27	11.4
18	11.5	3	11.4	15	11.2	28	11.3

(Daily highest water level from recorder graph, 1955)

Feb. 18	10.2	Feb. 24	9.9	Aug. 24	11.4	Nov. 6	11.3
19	10.1	Aug. 19	11.3	25	11.5	7	11.2
20	10.0	20	11.3	Nov. 2	11.4	8	11.2
21	9.9	21	11.4	3	11.4		
22	9.9	22	11.4	4	11.3		
23	9.9	23	11.4	5	11.3		

Table 6.--Water levels in observation wells in Newton County--Cont.

(Daily highest water level from recorder graph, 1956)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	----	11.0	9.4	9.4	----	----	----	----	----	12.8	13.2	----
2	----	----	9.3	9.3	----	----	----	10.9	----	12.8	13.2	----
3	----	11.0	9.3	9.5	----	----	----	----	----	12.8	13.3	----
4	----	11.0	9.2	9.5	----	----	----	----	----	12.8	13.3	----
5	----	11.0	9.1	9.8	----	----	9.5	11.1	11.9	----	13.3	----
6	----	10.9	9.0	9.7	----	----	9.6	11.1	11.9	----	13.3	----
7	----	10.9	9.0	9.6	----	----	9.7	11.1	12.0	----	13.3	----
8	----	11.0	9.0	9.7	----	----	9.7	11.1	----	----	13.3	----
9	----	10.9	9.0	9.5	----	----	10.1	11.1	----	----	13.3	----
10	----	10.9	----	9.4	----	----	10.0	11.2	----	----	13.2	----
11	----	10.8	----	9.4	----	----	10.0	11.2	----	----	13.3	----
12	----	10.8	----	9.4	----	8.8	----	----	----	----	13.4	----
13	----	10.7	9.0	----	----	8.9	----	----	----	----	13.3	----
14	----	10.7	9.0	----	----	9.0	----	----	----	----	----	----
15	----	10.6	9.1	----	----	9.0	----	----	----	----	----	----
16	----	10.4	9.0	----	----	----	----	----	----	----	----	----
17	----	----	9.0	----	----	9.1	----	----	----	----	----	----
18	----	10.4	9.0	8.9	----	----	----	11.5	----	----	----	----
19	----	10.2	9.1	9.0	----	----	----	11.6	----	----	----	----
20	10.9	10.1	9.1	9.3	----	----	10.3	11.6	----	----	----	----
21	11.0	10.1	9.0	9.1	----	----	10.3	11.7	----	----	----	----
22	11.0	10.1	9.2	9.1	----	----	10.4	11.7	----	----	----	----
23	11.0	9.9	9.1	9.2	----	----	10.4	11.6	----	----	----	----
24	11.0	9.7	9.1	9.2	----	----	10.4	11.8	----	----	----	----
25	11.0	9.7	9.1	----	----	----	10.6	12.0	----	----	----	----
26	11.0	9.6	9.0	----	----	----	10.6	12.0	----	----	----	----
27	11.0	9.5	9.3	----	----	----	----	12.0	----	----	----	----
28	10.9	9.5	9.2	----	----	----	----	12.1	12.9	----	----	----
29	10.9	9.5	9.3	----	----	----	10.7	12.2	12.9	----	----	----
30	10.9	----	9.3	----	----	----	----	12.1	12.9	13.3	----	----
31	11.0	----	9.4	----	----	----	----	12.0	----	13.2	----	----

(Daily highest water level from recorder graph, 1957)

1	----	----	----	----	----	----	----	----	10.6	----	----	----
2	----	----	12.8	----	----	----	8.4	----	----	11.1	----	----
3	----	----	12.9	----	----	----	8.4	----	10.3	11.2	----	9.6
4	----	----	12.9	----	----	9.0	8.3	----	10.4	11.2	----	9.6
5	----	----	12.9	----	----	9.1	8.2	----	10.5	11.3	11.1	9.6
6	----	----	12.8	----	----	9.1	8.3	9.4	10.5	11.2	11.0	9.5
7	----	----	12.8	----	----	9.5	8.3	9.5	10.5	11.2	----	9.4
8	----	----	12.8	----	----	9.4	8.4	9.6	10.6	11.2	----	----
9	----	----	----	----	----	9.4	----	9.7	10.6	----	----	----
10	----	----	----	----	----	9.4	8.7	9.7	----	----	----	9.1

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	----	----	----	----	----	9.4	8.8	9.8	11.0	----	----	9.1
12	----	----	12.7	----	----	9.4	8.7	10.5	11.0	----	10.6	9.1
13	----	----	12.7	----	----	9.3	8.0	12.0	11.1	----	----	9.0
14	----	----	12.7	----	8.3	9.2	7.9	10.1	11.1	----	----	9.0
15	----	----	12.7	----	8.4	9.2	----	10.2	11.1	----	----	9.1
16	----	----	12.8	----	8.4	9.2	----	10.2	11.1	----	----	----
17	----	----	12.8	----	8.4	9.2	----	10.3	11.2	----	----	9.1
18	----	----	12.7	----	8.4	9.3	----	10.4	----	----	----	8.9
19	13.7	13.1	----	----	8.3	9.1	----	10.4	----	----	----	8.6
20	13.7	13.1	----	----	8.3	9.0	----	10.4	----	----	----	8.5
21	13.6	13.1	----	----	8.3	9.0	----	10.3	----	----	9.7	8.1
22	13.5	13.1	----	----	8.3	9.0	----	10.3	----	11.9	----	7.9
23	13.6	13.3	----	9.0	8.5	9.2	8.0	10.3	----	11.6	----	----
24	13.5	13.2	----	8.9	----	9.5	8.1	10.3	----	----	----	7.9
25	13.4	13.1	----	8.7	----	9.4	8.1	10.3	----	----	----	7.7
26	----	----	----	8.5	----	9.3	8.1	10.3	----	----	----	7.6
27	----	----	----	8.2	----	9.2	8.2	10.5	----	----	----	7.5
28	----	----	----	----	----	8.7	----	10.4	----	----	----	7.5
29	----	----	----	----	----	8.6	8.5	10.8	----	11.0	----	7.5
30	----	----	----	----	----	8.4	8.5	10.7	----	10.9	----	7.5
31	----	----	----	----	----	----	----	10.7	----	----	----	7.6

(Daily highest water level from recorder graph, 1958)

1	7.6	8.6	----	9.2	----	----	----	8.8	10.2	11.0	11.4	10.4
2	7.6	8.6	----	9.2	----	----	----	8.8	10.4	11.0	11.4	10.4
3	7.7	----	----	9.2	----	----	----	9.0	10.4	11.0	11.4	10.2
4	7.8	----	9.3	9.1	----	----	7.8	9.4	10.4	11.0	----	10.2
5	7.8	----	9.3	9.1	----	----	8.0	----	10.4	11.2	11.4	10.2
6	7.7	8.7	9.3	9.0	----	----	8.0	----	10.4	11.2	11.4	10.2
7	7.8	8.8	9.3	9.0	----	----	9.2	9.4	10.4	11.2	11.4	10.6
8	7.9	8.9	9.2	9.1	----	----	8.2	9.4	10.6	11.2	11.4	10.2
9	8.0	9.0	9.2	9.2	----	----	8.4	9.4	10.6	11.2	11.4	----
10	8.0	9.0	9.2	9.2	----	----	8.6	9.6	10.6	----	11.4	----
11	8.1	9.0	9.2	9.1	----	----	----	9.6	10.6	----	11.4	----
12	8.2	9.0	9.3	----	----	----	----	9.6	10.6	----	11.6	10.6
13	----	9.1	9.2	----	----	----	----	9.6	10.8	----	11.4	10.6
14	----	9.1	9.2	----	10.4	----	8.8	9.6	10.8	11.4	11.4	10.4
15	8.4	9.1	9.2	----	10.1	----	8.6	9.6	10.8	11.4	11.4	----
16	8.4	9.1	9.2	9.2	10.1	6.2	8.2	9.6	10.8	11.2	11.4	----
17	8.5	----	9.3	9.3	10.2	----	8.2	9.6	10.8	11.2	11.2	----
18	8.5	----	9.3	9.3	----	----	8.0	9.6	10.8	11.4	----	----
19	8.6	----	----	9.3	----	----	8.0	9.6	10.8	11.4	11.0	----
20	8.6	----	----	9.3	----	----	8.0	9.6	10.8	11.4	11.2	----

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	----	----	----	9.3	----	6.2	8.0	9.6	10.8	11.4	11.0	----
22	----	----	----	9.3	----	6.2	8.0	9.6	10.8	11.4	11.0	----
23	----	----	----	----	----	6.3	8.2	9.8	----	11.4	10.8	----
24	8.5	----	----	----	----	----	8.2	9.6	10.8	11.4	10.8	----
25	8.5	9.3	----	----	----	----	8.4	9.8	10.8	----	10.8	----
26	8.4	9.3	9.4	----	----	----	8.4	9.8	10.8	----	----	----
27	8.5	9.1	9.3	----	----	----	8.6	9.8	10.8	11.6	10.6	----
28	8.5	8.9	9.3	----	----	----	8.6	10.0	11.0	11.4	10.4	----
29	8.5	----	9.3	----	----	----	8.6	10.0	11.0	11.4	10.4	----
30	8.5	----	9.2	----	----	----	8.8	10.2	11.0	11.4	10.6	----
31	8.5	----	9.2	----	----	----	8.8	10.2	----	11.4	----	----

(Daily highest water level from recorder graph, 1959)

1	----	----	8.9	8.0	6.7	8.7	----	11.3	12.5	----	11.7	e9.3
2	----	----	8.9	8.0	6.7	8.9	----	11.4	12.5	----	11.7	9.3
3	----	----	e8.9	7.8	6.9	8.9	----	11.3	12.5	----	11.6	9.3
4	----	----	e8.9	8.0	6.9	9.0	----	11.2	12.6	----	11.4	9.3
5	----	----	9.0	7.8	7.1	9.1	----	11.3	12.7	h13.10e	11.3	9.3
6	----	----	8.8	7.9	7.2	9.5	----	11.3	12.7	----	e11.3	9.3
7	10.3	----	8.9	7.9	7.3	10.0	----	11.3	12.7	----	11.1	9.2
8	10.3	----	8.9	7.9	7.5	----	h11.09	11.4	12.9	----	11.0	9.6
9	10.3	----	8.8	7.9	7.6	----	----	11.4	13.0	----	10.9	9.6
10	10.4	----	8.8	7.9	7.6	----	----	11.8	12.9	----	10.9	9.6
11	10.4	----	----	7.9	7.7	----	----	11.6	13.0	----	10.8	9.5
12	e10.4	----	----	8.0	7.9	----	----	11.6	13.0	12.5	----	9.4
13	e10.3	----	----	8.0	7.9	----	----	11.7	13.1	e12.4	----	9.4
14	10.3	----	----	8.0	8.0	----	----	11.7	13.1	e12.1	----	9.2
15	10.2	----	----	8.0	8.1	h11.00	----	11.7	13.0	12.0	----	9.0
16	10.1	----	----	8.1	8.1	----	----	11.7	13.0	11.9	e10.2	8.9
17	e10.4	----	----	8.2	8.2	----	----	11.6	13.1	11.9	10.0	8.9
18	----	8.5	----	8.2	8.2	----	----	11.8	13.1	e11.8	9.9	8.9
19	----	8.6	----	8.2	8.4	----	----	11.9	13.1	12.2	9.8	8.9
20	----	8.7	----	8.1	8.5	----	----	11.9	13.2	12.1	9.7	8.9
21	----	8.8	----	8.1	8.5	----	----	11.9	13.2	12.1	9.6	8.9
22	----	8.9	----	8.1	8.6	----	----	12.0	13.0	12.0	9.6	9.0
23	----	8.8	----	8.2	8.7	h10.80	----	12.1	13.0	11.9	9.3	9.0
24	----	8.9	----	8.2	8.7	----	----	12.1	13.0	11.8	9.1	9.0
25	----	8.9	8.3	8.1	e8.7	----	----	12.2	13.0	11.8	9.1	9.1
26	----	8.9	8.3	8.3	8.6	----	----	12.3	13.0	11.8	9.1	9.0
27	----	8.9	8.1	7.2	8.6	----	----	12.3	12.9	11.9	e9.1	9.0
28	----	8.9	8.2	7.0	8.7	----	----	12.3	12.9	11.9	9.1	8.8
29	----	----	8.1	6.9	8.7	----	e11.3	12.4	13.1	11.8	9.2	e8.8
30	----	----	8.0	6.7	8.7	h11.07	11.2	12.5	----	11.8	9.1	8.7
31	----	----	8.0	----	8.7	----	11.3	12.4	----	11.7	----	8.7

Table 6.--Water levels in observation wells in Newton County--Cont.

(Daily highest water level from recorder graph, 1960)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.7	h8.75	----	7.6	8.0	8.9	8.2	e10.3	11.5	e12.1	12.1	e12.2
2	8.6	----	----	7.5	8.0	9.0	8.2	10.3	11.6	e12.1	12.2	12.2
3	8.5	----	----	7.5	8.1	9.0	8.2	10.2	12.3	e12.1	12.3	12.1
4	8.3	----	----	7.6	8.1	9.0	8.2	e10.2	12.2	12.1	12.3	12.1
5	8.3	----	----	7.5	8.2	8.9	8.5	e10.3	12.2	12.0	12.3	12.1
6	8.3	----	----	7.5	8.2	8.8	8.6	10.2	11.8	12.1	12.3	12.1
7	8.2	----	8.8	7.5	8.1	8.9	8.7	10.2	11.8	12.2	12.3	12.1
8	8.2	h8.23	8.7	7.6	8.2	8.9	8.7	10.3	11.9	12.1	12.3	12.1
9	8.3	----	8.6	7.7	8.2	8.9	8.8	10.4	11.9	12.1	12.3	e12.1
10	8.3	----	e8.7	7.8	8.3	8.9	8.8	10.4	e11.9	12.2	e12.3	e12.2
11	8.3	----	e8.7	7.8	8.4	8.9	----	10.4	11.9	12.3	e12.3	e12.2
12	----	----	8.7	8.0	8.4	8.7	h9.70	10.4	11.8	12.3	e12.3	e12.2
13	----	----	8.8	7.8	8.5	8.4	----	10.5	12.0	12.2	e12.3	12.2
14	----	----	8.8	7.9	8.5	8.3	----	10.5	12.0	12.3	13.2	12.2
15	----	h7.33	8.9	7.8	8.5	8.2	----	10.6	12.0	12.2	12.2	e12.2
16	----	----	8.8	7.6	8.6	8.2	----	10.7	12.0	12.2	12.2	12.2
17	----	----	8.8	7.2	8.5	8.0	----	10.7	11.9	12.2	12.2	12.1
18	h8.80	----	8.8	7.2	8.4	8.0	----	10.7	11.9	12.3	12.1	12.1
19	----	----	8.9	7.0	8.5	7.9	h11.00	10.8	11.8	12.2	12.2	12.1
20	----	----	8.9	6.9	e8.4	7.8	----	10.7	11.9	12.3	12.1	12.1
21	----	----	9.1	6.8	e8.4	7.8	----	10.7	11.9	e12.3	12.2	12.0
22	----	----	9.0	6.9	e8.4	7.8	----	10.7	11.9	e12.3	12.2	e12.0
23	----	h8.20	9.1	7.0	e8.4	7.8	----	10.9	e11.9	e12.3	12.2	e12.0
24	----	----	9.1	7.1	8.4	7.8	----	11.0	12.0	e12.3	12.1	e12.1
25	h8.70	----	9.2	7.2	8.4	7.8	e9.9	11.0	12.0	12.3	12.1	e12.1
26	----	----	9.1	7.3	8.4	7.9	e9.9	11.0	12.0	12.2	12.1	e12.2
27	----	----	9.1	7.3	8.4	7.9	e10.0	11.1	12.1	12.2	12.1	12.3
28	----	----	8.8	7.6	8.4	8.1	9.9	11.1	12.1	e12.2	12.0	12.2
29	----	----	8.3	8.0	8.5	8.0	e10.0	11.2	12.0	e12.2	12.1	12.1
30	----	----	8.0	----	8.4	8.1	10.0	11.3	12.0	12.2	12.1	12.1
31	----	----	7.7	----	e8.5	----	10.2	11.4	----	12.1	----	e12.1

Newton 5. (29/9W-15E2). Town of Morocco. SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 15, T. 29 N., R. 9 W. Drilled unused water-table well in sand and gravel, diameter 16 inches, depth 49 feet. Recording gage installed July 19, 1956. Highest water level is 4.80 below lsd, June 10, 1958; lowest 9.90 below lsd, Oct. 26-27, Dec. 16, 21-22, 1960. Records available: 1956-60. Affected by nearby pumping.

Table 6.--Water levels in observation wells in Newton County--Cont.

(Daily highest water level from recorder graph, 1956)

Date	Water level	Date	Water level	Date	Water level	Date	Water level
July 20	7.95	July 10	8.35	Sept. 6	8.40	Sept. 26	8.60
21	7.95	11	8.35	7	8.45	27	8.60
22	7.95	12	8.40	8	8.45	28	8.60
23	8.00	13	8.25	9	8.55	29	8.50
24	8.00	14	8.20	10	8.45	30	8.45
25	8.10	15	8.15	11	8.55	Oct. 1	8.50
26	8.05	16	8.15	12	8.55	2	8.45
28	8.15	17	8.10	13	8.50	3	8.50
29	8.15	18	8.15	14	8.60	4	8.60
30	8.15	19	8.15	15	8.60	5	8.65
31	8.20	20	8.20	16	8.50	6	8.60
Aug. 1	8.10	21	8.15	17	8.55	7	8.60
2	8.10	27	8.20	18	8.60	8	8.60
3	8.15	28	8.40	19	8.65	9	8.70
4	8.15	29	8.30	20	8.55	10	8.65
5	8.15	30	8.25	21	8.55	11	7.75
6	8.15	31	8.30	22	8.55	12	8.70
7	8.20	Sept 3	8.25	23	8.60	13	8.75
8	8.40	4	8.25	24	8.50	14	8.70
9	8.30	5	8.40	25	8.65	15	8.70
						16	8.75

(Daily highest water level from recorder graph, 1957)

	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.85	8.75	8.80	5.95	7.40	8.30			
2	8.85	8.75	8.75	6.20	7.30	7.40	8.30		
3	8.85	8.80		6.30	7.20	7.40	8.35		
4	8.90	8.85		6.30	7.10	7.50	8.30		
5	8.95	8.80		e6.35	7.15	7.85			
6	8.90	8.65		e6.45	7.20	7.90			
7	8.90	8.80			7.20	.95			
8	8.90	8.80			7.40	8.00	8.25		
9	8.80	8.75			7.50	8.00	8.25		
10	8.70	8.85			7.55	8.00	8.45		
11	8.75	8.80	7.50		7.55	8.00	8.40		
12	8.65	8.75	7.60		7.40	8.00	8.55		
13	8.75	8.75	7.70		7.45	8.00			
14	8.75	8.75	7.80		7.50	8.00			
15	8.70	8.75	7.85		7.55	8.00			
16	8.75	8.75	7.90		e6.50	7.60	8.00		
17	8.70	8.75	7.90		e6.40	7.55	8.05		
18	8.65	8.75	6.35		e6.35	7.60	8.10		
19	8.70	8.80	6.25		e6.30	7.55	8.10		
20	8.70	8.75	e6.35		e6.30	7.60	8.10		

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
21	----	8.70	8.75	e6.35	----	6.70	e6.30	7.70	8.10	----	----	----
22	----	8.70	8.80	6.60	----	6.85	----	----	8.10	----	----	----
23	e8.65	8.80	8.80	6.55	----	6.90	6.60	----	8.05	----	----	----
24	8.75	8.75	8.80	e6.65	----	6.95	6.60	----	8.15	----	----	----
25	8.75	8.75	8.85	----	----	----	6.70	----	8.15	----	----	----
26	8.85	8.75	8.80	----	----	----	6.75	----	8.20	----	----	----
27	8.80	8.70	8.80	----	----	6.75	6.85	----	8.25	----	----	----
28	8.80	8.80	8.85	----	----	5.95	6.85	----	8.25	----	----	----
29	8.80	----	8.85	----	----	5.65	6.90	7.30	8.20	----	----	----
30	8.90	----	8.85	----	----	5.70	6.95	e7.35	8.20	----	----	----
31	8.85	----	8.85	----	----	----	7.10	e7.40	----	----	----	----

(Daily highest water level from recorder graph, 1958)

1	----	----	----	7.60	7.95	8.10	6.75	7.15	----	8.05	8.20	7.85
2	----	----	----	7.55	7.95	8.00	6.85	7.20	----	8.10	8.20	7.85
3	----	----	----	7.70	7.95	8.00	6.95	7.20	----	8.05	8.15	7.85
4	----	----	----	7.80	7.90	8.00	7.00	7.30	----	8.05	8.20	7.85
5	----	----	----	7.75	7.90	7.95	7.05	7.30	7.85	8.10	8.15	7.90
6	----	----	----	7.65	7.90	8.10	7.10	7.30	7.80	8.10	8.15	7.90
7	----	----	----	7.60	7.90	8.05	7.10	7.30	7.80	8.30	8.20	7.95
8	----	----	----	7.65	7.90	7.30	7.15	7.30	7.80	8.10	8.15	7.95
9	----	----	----	7.60	7.95	6.10	7.15	7.40	7.90	8.15	8.20	7.95
10	----	----	----	7.65	7.95	4.80	7.15	7.40	7.90	8.10	8.20	7.95
11	----	----	----	7.65	7.95	5.40	7.15	7.35	7.85	----	8.15	7.95
12	----	----	7.65	7.70	7.95	5.55	7.10	7.25	7.85	----	8.25	8.00
13	----	----	7.65	7.70	8.00	4.90	7.10	7.40	7.90	8.15	8.25	7.95
14	----	----	7.65	7.75	8.00	4.85	6.05	7.40	7.95	8.20	8.25	8.00
15	----	----	7.65	7.75	8.15	5.20	5.75	7.40	7.95	8.25	8.10	8.00
16	----	----	7.65	7.80	8.10	5.55	5.80	7.35	7.90	8.25	----	8.00
17	----	----	7.70	7.75	8.05	5.90	6.15	7.40	7.85	8.30	----	8.00
18	----	----	7.65	7.80	8.10	6.00	6.30	7.45	7.80	8.25	----	7.95
19	----	----	7.70	7.85	8.10	6.10	6.45	7.50	7.80	8.20	7.60	8.00
20	----	----	7.65	7.85	8.10	6.05	6.50	7.45	7.90	8.15	7.75	8.05
21	----	----	7.65	7.85	8.15	6.10	6.55	7.45	7.85	8.20	7.80	8.05
22	----	----	7.70	7.80	8.15	6.20	6.65	7.50	7.85	8.20	7.80	8.05
23	----	----	7.70	7.80	8.10	6.40	6.70	7.50	7.95	8.15	7.80	8.05
24	----	----	7.65	7.85	8.05	6.40	6.85	7.50	7.95	8.15	7.90	8.10
25	----	----	7.60	7.85	8.10	6.45	6.90	7.50	8.00	8.20	7.75	8.15
26	----	----	7.60	7.90	8.10	6.45	6.95	7.55	e8.10	8.15	7.70	8.10
27	----	----	7.50	7.90	8.15	6.55	7.05	----	e7.90	8.10	7.70	8.15
28	----	----	7.55	7.90	8.15	6.60	7.05	----	e8.10	8.10	7.75	8.10
29	----	----	7.55	7.90	8.20	6.65	7.10	----	8.00	8.15	7.80	8.15
30	----	----	7.55	7.95	8.20	6.70	7.10	----	8.10	8.15	7.85	8.10
31	----	----	7.60	----	8.20	----	7.15	----	----	8.20	----	----

Table 6.--Water levels in observation wells in Newton County--Cont.

(Daily highest water level from recorder graph, 1959)

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	8.00	----	7.05	6.90	6.55	7.05	7.95	8.00	8.50	8.50	8.25	----
2	7.95	----	7.10	6.80	6.65	7.15	7.90	8.05	8.55	8.55	8.25	e3.15
3	7.95	----	7.15	6.75	6.70	7.25	7.95	8.10	8.60	e8.60	8.30	8.15
4	7.95	----	7.25	6.75	6.70	7.25	7.95	8.10	8.70	e8.50	8.20	8.10
5	.00	----	7.15	6.80	6.70	7.25	7.95	8.10	.70	8.40	8.10	8.10
6	8.00	----	6.90	6.90	6.75	7.30	8.00	8.10	6.70	e8.55	8.10	8.05
7	8.05	----	6.95	6.90	6.80	7.35	8.00	8.10	8.65	e8.50	8.10	8.05
8	8.10	----	7.00	6.95	6.90	7.40	8.10	8.10	.70	8.55	8.10	8.00
9	8.10	----	7.00	6.95	6.90	7.45	8.05	e8.10	8.75	8.50	8.15	8.10
10	8.10	----	7.05	.00	6.90	7.50	8.15	e8.15	8.75	8.50	8.15	8.10
11	8.15	----	7.15	7.00	6.90	7.35	8.05	e8.20	8.70	8.30	8.10	7.95
12	8.15	----	7.20	7.00	6.95	7.30	8.05	e8.25	8.75	8.25	e8.15	7.85
13	8.15	----	7.15	7.05	6.95	7.35	8.05	8.30	8.80	8.35	8.15	7.85
14	8.00	----	7.15	7.15	7.00	7.35	8.10	e8.35	.80	8.35	7.95	7.85
15	7.95	----	6.75	7.10	7.05	7.35	8.15	8.35	8.85	8.40	7.90	7.90
16	7.90	----	6.65	7.15	7.10	7.40	8.25	8.30	8.90	8.40	7.85	7.90
17	8.05	----	6.80	7.20	7.10	7.50	8.15	8.25	8.90	8.30	7.95	7.95
18	8.05	----	6.90	7.20	7.15	7.50	8.15	8.30	8.90	8.25	7.95	7.90
19	8.15	6.75	6.95	7.20	7.20	7.55	----	8.25	8.85	8.20	8.00	8.00
20	8.10	6.85	7.00	6.95	7.20	7.60	----	e8.35	8.80	8.30	8.00	7.95
21	8.10	7.00	7.05	6.95	7.30	7.65	----	8.40	e8.75	8.30	8.00	8.00
22	----	7.05	7.10	7.10	7.15	7.15	----	8.40	9.00	8.35	7.95	8.05
23	----	6.65	7.15	7.35	7.05	7.70	7.80	8.40	e8.95	8.30	7.95	8.10
24	----	6.65	7.20	7.40	7.00	7.70	7.80	8.60	8.70	8.25	7.90	8.15
25	----	6.90	7.25	7.45	7.10	7.75	7.70	8.45	e8.85	8.25	7.95	8.15
26	----	7.00	7.05	7.50	7.10	7.75	7.80	8.55	e8.85	8.25	----	8.10
27	----	7.00	6.85	6.85	7.00	7.80	7.80	8.50	e8.65	8.20	----	8.05
28	----	6.95	6.80	6.65	7.00	7.85	7.86	8.50	e8.50	8.25	----	7.95
29	----	----	6.85	6.30	7.05	7.85	7.90	8.50	8.50	8.25	----	.85
30	----	----	6.90	6.40	7.05	7.85	7.95	8.55	8.50	8.40	----	7.85
31	----	----	6.90	----	7.05	----	8.05	8.50	----	8.35	----	7.90

(Daily highest water level from recorder graph, 1960)

1	7.95	8.00	7.65	6.60	7.25	7.45	7.25	8.05	8.55	8.90	8.85	8.95
2	7.90	7.95	7.65	6.70	7.35	7.50	7.40	8.05	8.60	8.75	8.95	9.00
3	7.90	7.85	7.60	6.85	e7.40	7.55	7.35	8.10	8.50	8.70	8.95	9.00
4	7.95	7.80	7.65	6.90	7.45	7.60	7.35	8.05	8.65	8.95	9.00	9.05
5	8.00	7.75	7.65	6.85	7.55	7.00	7.35	8.05	8.50	8.95	9.00	8.95
6	8.15	7.50	7.70	6.80	7.55	7.00	7.45	8.15	8.50	8.85	8.95	9.10
7	8.00	7.45	7.65	6.65	e7.50	7.10	7.45	8.05	8.65	8.90	8.95	9.00
8	8.00	7.45	7.70	6.90	e7.40	7.25	7.50	8.10	8.70	8.90	8.95	9.10
9	8.00	7.45	7.70	7.00	e7.45	7.30	7.55	8.05	8.70	9.20	8.85	9.20
10	7.95	7.40	7.65	7.10	e7.45	7.40	7.50	8.15	8.65	9.20	8.90	9.15

Table 6.--Water levels in observation wells in Newton County--Cont.

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
11	7.95	----	7.65	7.10	e7.45	7.50	7.50	7.95	8.60	9.10	8.85	9.05
12	7.95	----	e7.65	7.25	e7.60	7.40	7.50	7.85	8.65	8.90	8.90	9.00
13	7.81	----	e7.70	e7.35	e7.60	7.35	7.55	7.90	8.65	8.90	8.85	9.25
14	7.75	----	e7.70	----	e7.60	7.20	7.70	7.95	8.70	8.95	8.85	9.20
15	7.75	----	e7.70	----	7.65	7.10	7.75	7.95	8.75	8.90	8.85	9.10
16	7.75	----	7.70	----	7.65	e7.10	7.70	8.00	8.70	8.80	8.85	9.15
17	7.80	e7.30	7.80	----	7.50	----	7.75	8.00	8.65	8.75	8.90	----
18	7.85	7.30	7.80	----	7.45	----	7.70	----	8.60	9.00	8.95	----
19	7.95	7.35	7.80	----	7.35	----	7.80	8.25	8.55	8.95	8.90	----
20	7.80	7.40	7.80	7.00	7.35	7.05	7.90	8.25	8.70	8.95	8.90	----
21	7.75	7.45	7.80	6.95	7.40	7.05	7.90	8.20	8.75	8.90	8.85	----
22	7.85	7.45	7.80	7.10	7.35	6.95	7.95	8.20	8.75	8.90	8.95	9.05
23	7.85	7.50	7.80	7.15	7.40	7.15	8.00	8.20	8.70	8.85	8.95	9.10
24	7.90	7.50	7.80	7.25	7.45	7.15	7.95	8.25	8.70	8.90	8.90	9.15
25	7.95	7.50	7.85	7.30	7.50	7.15	8.00	8.35	8.65	9.00	8.95	9.15
26	7.95	7.50	7.85	7.40	7.60	7.25	7.95	8.35	8.55	9.05	8.95	9.10
27	7.95	7.50	7.45	7.30	7.55	7.35	7.95	8.40	8.80	9.05	8.90	9.15
28	8.05	7.70	6.85	7.30	7.50	7.20	8.05	8.35	8.75	9.00	8.95	9.15
29	8.05	7.60	6.60	7.40	7.50	7.20	8.40	8.35	8.85	8.95	8.95	9.15
30	8.00	----	6.50	7.30	7.45	7.25	8.15	8.40	8.70	8.85	8.95	9.15
31	8.00	----	6.45	----	7.40	----	8.10	8.40	----	8.90	----	9.20

PUBLICATIONS OF COOPERATIVE GROUND-WATER PROGRAM

Report

Ground-water resources of the Indianapolis area, Marion County, Indiana. C. L. McGuinness. Indiana Department of Conservation, Division of Geology. 1943.

Bulletins

- No. 1 Memorandum concerning a pumping test at Gas City, Indiana. J. G. Ferris, Indiana Department of Conservation, Division of Water Resources. 1945.
- 2 A preliminary report of the ground-water levels of the State based on records of twenty-six observation wells for which long time records are available. Indiana Department of Conservation, Division of Water Resources. 1946 (Out of print).
- 3 Ground-water resources of St. Joseph County, Indiana. Part 1, South Bend area. F. H. Klaer, Jr., and R. W. Stallman. Indiana Department of Conservation, Division of Water Resources. 1948.
- 4 Ground-water resources of Boone County, Indiana. E. A. Brown. Indiana Department of Conservation, Division of Water Resources. 1949.
- 5 Ground-water resources of Noble County, Indiana. R. W. Stallman and F. H. Klaer, Jr. Indiana Department of Conservation, Division of Water Resources. 1950.
- 7 Water-level records of Indiana. Indiana Department of Conservation, Division of Water Resources. 1956.
- 8 Ground-water resources of Tippecanoe County, Indiana. Appendix, Basic Data. J. S. Rosenshein and O. J. Cosner. Indiana Department of Conservation, Division of Water Resources. 1956.
- 8 Ground-water resources of Tippecanoe County, Indiana. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1958 (1959).
- 9 Ground-water resources of Adams County, Indiana. F. A. Watkins, Jr., and P. E. Ward. Indiana Department of Conservation, Division of Water Resources. 1962.
- 10 Ground-water resources of northwestern Indiana. Preliminary Report: Lake County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1961.
- 11 Ground-water resources of west-central Indiana. Preliminary Report: Greene County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1961.
- 12 Ground-water resources of northwestern Indiana. Preliminary Report: Porter County. J. S. Rosenshein. Indiana Department of Conservation, Division of Water Resources. 1962.

Publication of cooperative ground-water programs--Continued

Bulletins--Continued

- 13 Ground-water resources of northwestern Indiana. Preliminary Report: La Porte County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.
- 14 Ground-water resources of west-central Indiana. Preliminary Report: Sullivan County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.
- 15 Ground-water resources of northwestern Indiana. Preliminary Report: St. Joseph County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1962.
- 16 Ground-water resources of west-central Indiana. Preliminary Report: Clay County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1962.
- 17 Ground-water resources of west-central Indiana. Preliminary Report: Vigo County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 18 Ground-water resources of west-central Indiana. Preliminary Report: Owen County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 19 Ground-water resources of northwestern Indiana. Preliminary Report: Marshall County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1963.
- 20 Ground-water resources of northwestern Indiana. Preliminary Report: Fulton County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1963.
- 21 Ground-water resources of west-central Indiana. Preliminary Report: Putnam County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 22 Ground-water resources of northwestern Indiana. Preliminary Report: Starke County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 23 Ground-water resources of west-central Indiana. Preliminary Report: Parke County. F. A. Watkins, Jr., and D. G. Jordan. Indiana Department of Conservation, Division of Water Resources. 1963.
- 24 Ground-water resources of northwestern Indiana. Preliminary Report: Pulaski County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1963.
- 25 Ground-water resources of northwestern Indiana. Preliminary Report: Jasper County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1963.

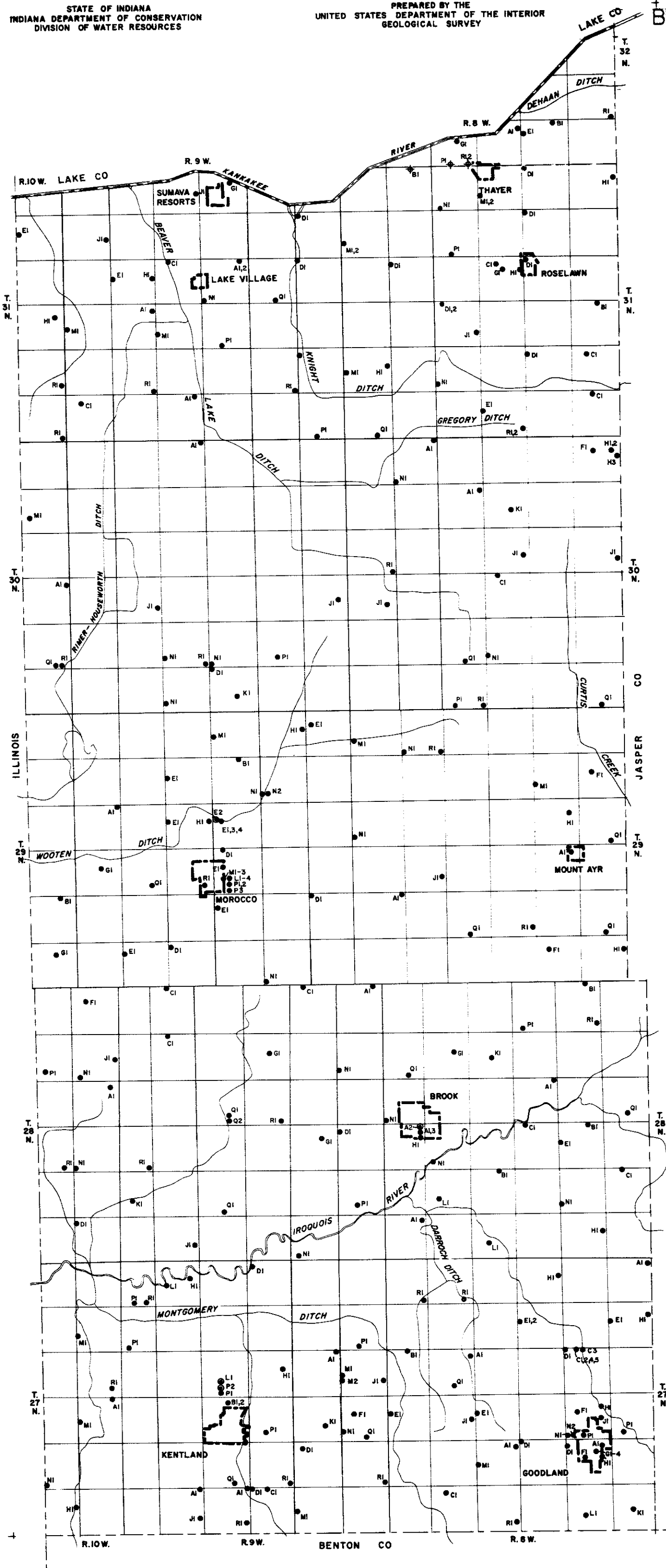
Publication of cooperative ground-water programs--Continued

Bulletins--Continued

- 26 Ground-water resources of northwestern Indiana. Preliminary Report: Newton County. J. S. Rosenshein and J. D. Hunn. Indiana Department of Conservation, Division of Water Resources. 1963.

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EXPLANATION

- R1 Water well or test hole
- NI Observation well
- ◆ BI Oil or gas or test hole

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

SECTION LETTER SYMBOLS IN WELL-NUMBERING SYSTEM.

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

DIAGRAM OF TOWNSHIP

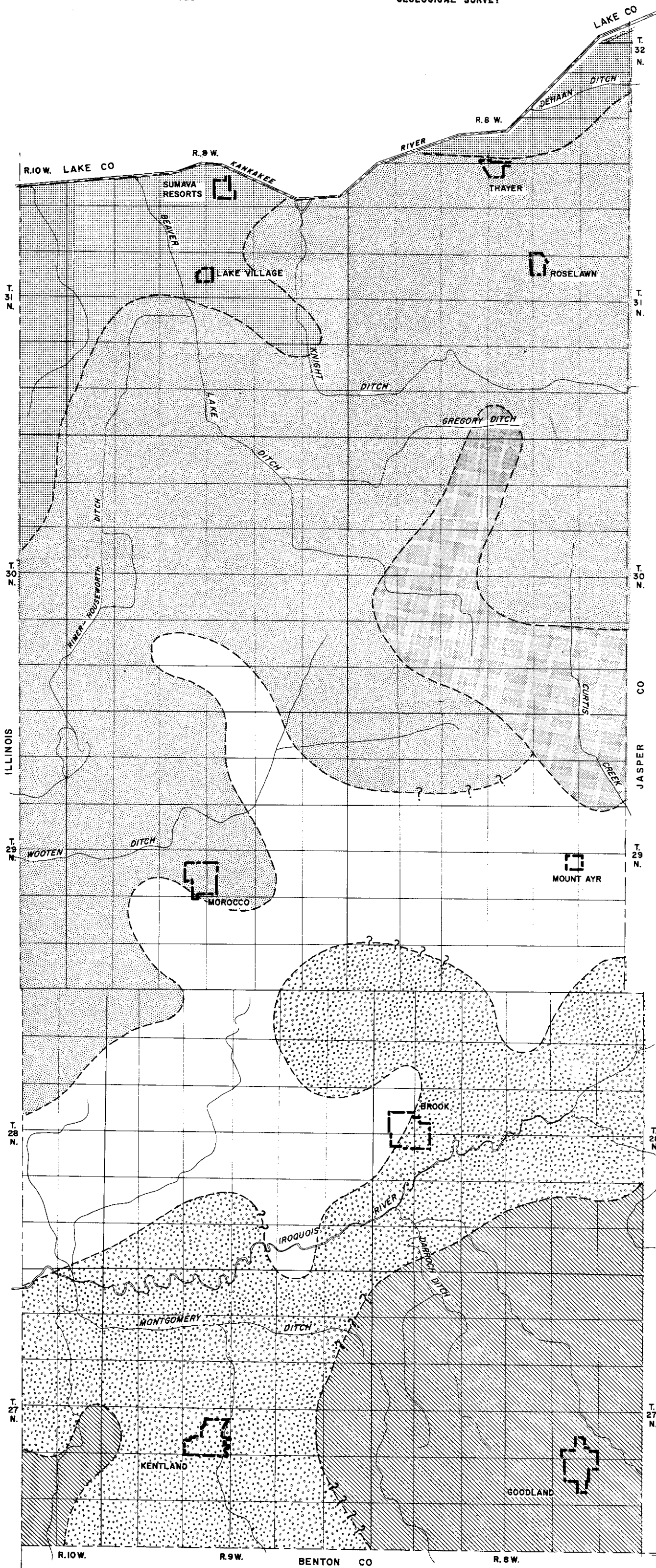
Base from modified General Highway and Transportation Map revised to July, 1953

MAP OF NEWTON COUNTY, INDIANA, SHOWING LOCATION OF WELLS AND TEST HOLES




BY J. S. ROSENSEIN AND J. D. HUNN


1961




EXPLANATION


- 

Production from bedrock


Well depths generally from 100 to 200 feet. Few wells deeper. Locally some production possible from sand and gravel. Water from some wells contains hydrogen sulfide gas. Yields adequate to more than adequate for domestic use. Larger yields possible locally
- 

Well depths from 40 to 300 feet. Locally some production possible from sand and gravel. Water from some wells contains hydrogen sulfide gas. Yields inadequate to more than adequate for domestic use. Larger yields possible locally
- 


Production from bedrock and glaciofluvial sand

Well depths in bedrock generally less than 150 feet. Well depths in sand less than 50 feet. Yields from bedrock and sand generally adequate for domestic use. Larger yields possible from sand
- 

Production from bedrock and glaciofluvial sand and gravel


Well depths in bedrock generally from 50 to 160 feet. Well depths in sand and gravel generally from 50 to 160 feet. Yields from bedrock and sand and gravel adequate for domestic use
- 

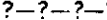
Production from glaciofluvial sand and gravel and some wind-blown sand

Well depths generally less than 50 feet. Where improperly located, very shallow wells may be subject to contamination by septic wastes. Yields adequate to more than adequate for domestic use. Larger yields possible
- 

Production from glaciofluvial sand and gravel

Well depths generally from 50 to 100 feet. Locally some wells shallower. Yields adequate to more than adequate for domestic use. Larger yields possible locally

- 

Boundary approximate
- 

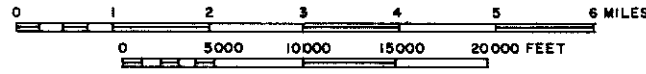
Boundary uncertain

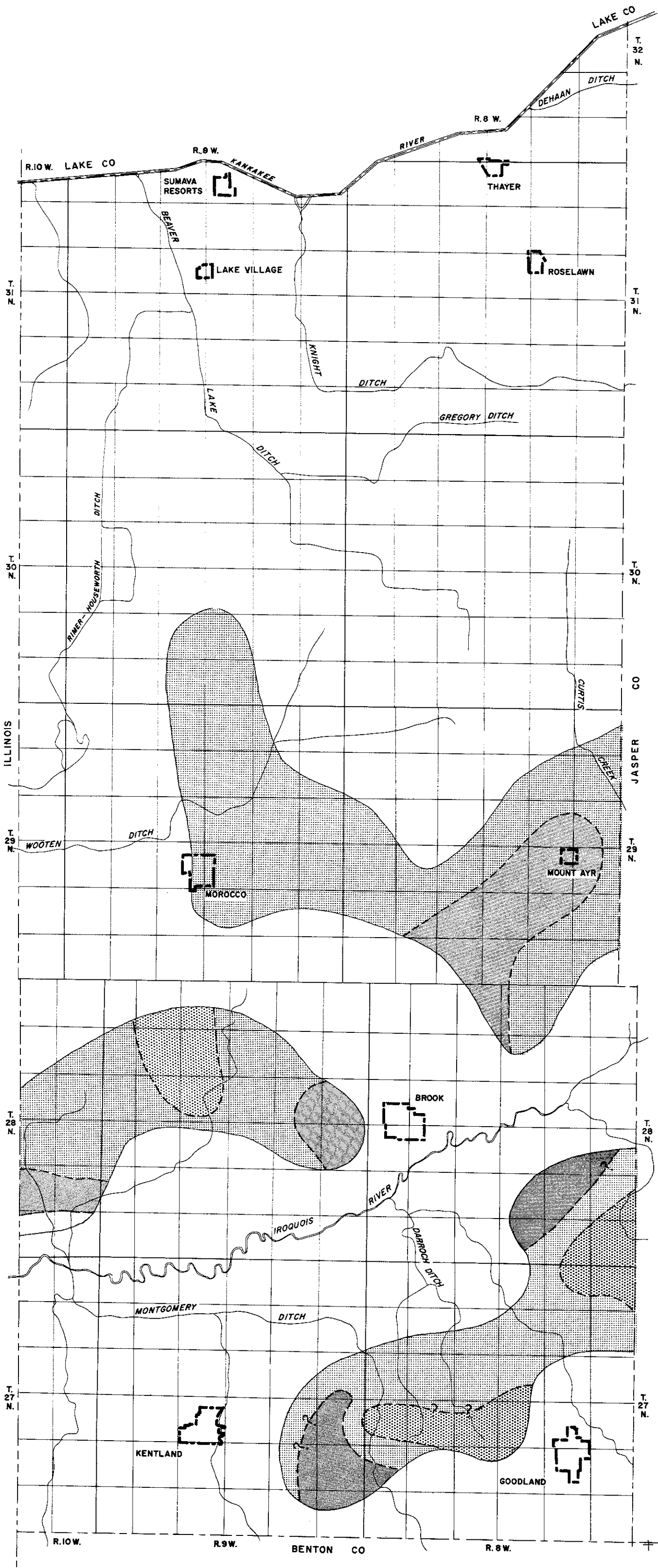
6	5	4	3	2	1
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DIAGRAM OF TOWNSHIP

Base from modified General Highway and Transportation Map revised to July, 1953

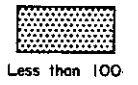
MAP OF NEWTON COUNTY, INDIANA, SHOWING AVAILABILITY OF GROUND WATER



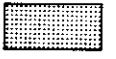


EXPLANATION

HARDNESS OF WATER, IN PARTS PER MILLION



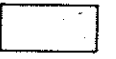
Less than 100



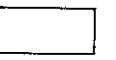
100 - 200



200 - 300



More than 300



Data not sufficient to show hardness

--- Boundary approximate

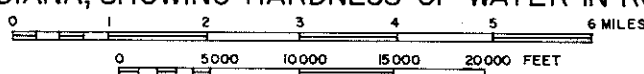
-?-?-? Boundary uncertain

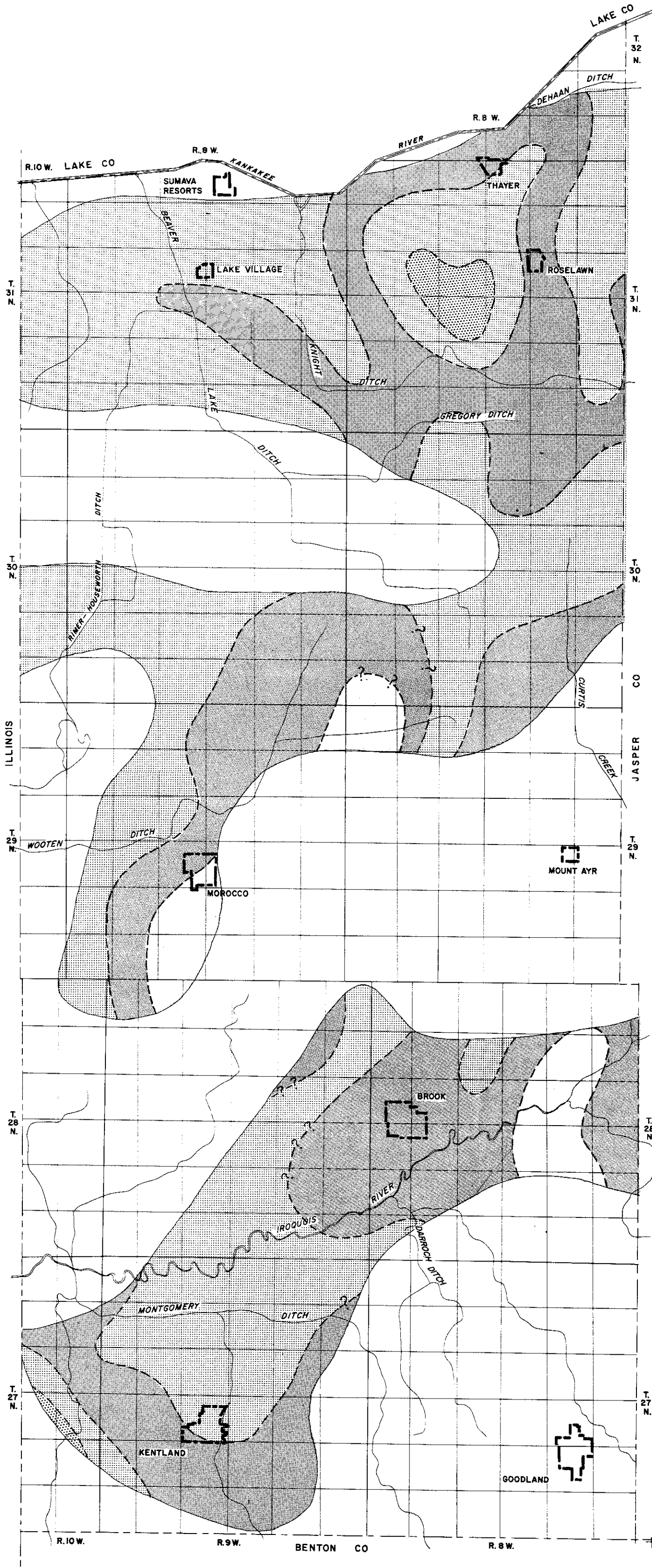
6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
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DIAGRAM OF TOWNSHIP

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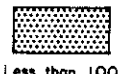



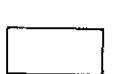
MAP OF NEWTON COUNTY, INDIANA, SHOWING HARDNESS OF WATER IN ROCKS OF DEVONIAN AGE





EXPLANATION

HARDNESS OF WATER, IN PARTS PER MILLION

-  Less than 100
-  100 - 200
-  200 - 300
-  More than 300
-  Data not sufficient to show hardness

Boundary approximate

-?-?-?-?
Boundary uncertain

6	5	4	3	2	1
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

DIAGRAM OF TOWNSHIP

Base from modified General Highway and Transportation Map revised to July, 1953

MAP OF NEWTON COUNTY, INDIANA, SHOWING HARDNESS OF WATER IN SAND AND GRAVEL OF PLEISTOCENE AGE

