

MAY 1984-APRIL 1985 WATER BUDGET OF REELFOOT LAKE
WITH ESTIMATES OF SEDIMENT INFLOW AND
CONCENTRATIONS OF PESTICIDES IN BOTTOM MATERIAL
IN TRIBUTARY STREAMS--BASIC DATA REPORT



Prepared by
U.S. GEOLOGICAL SURVEY
in cooperation with
TENNESSEE WILDLIFE RESOURCES AGENCY
and the
TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT,
DIVISION OF WATER MANAGEMENT

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Clarence H. Robbins, Jerry W. Garrett, and Dolores M. Mulderink

U.S. GEOLOGICAL SURVEY

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TENNESSEE DEPARTMENT OF HEALTH AND ENVIRONMENT,
DIVISION OF WATER MANAGEMENT



Nashville, Tennessee
1985

UNITED STATES DEPARTMENT OF THE INTERIOR

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CONVERSION FACTORS

For readers who may prefer to use International System of Units (SI) rather than the inch-pound units used herein, the conversion factors are listed below:

<u>Multiply</u>	<u>By</u>	<u>To obtain</u>
inch (in.)	25.40	millimeter (mm)
ton, short	0.9078	megagram (Mg)
square mile (mi ²)	2.590	square kilometer (km ²)
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
micromho per centimeter at 25° Celsius (μmhos/cm at 25°C)	1.0	microseimens per centimeter at 25° Celsius (μS/cm at 25°C)
cubic foot per second per square mile [(ft ³ /s)/mi ²]	0.01093	cubic meter per second per square kilometer [(m ³ /s)/km ²]

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ABSTRACT

This report contains hydrologic data collected at Reelfoot Lake from May 1, 1984, through April 30, 1985. Additionally, suspended-sediment data and analyses of pesticides in stream-bottom material on three major tributaries to Reelfoot Lake are presented.

INTRODUCTION

Reelfoot Lake is located in Lake and Obion Counties in the northwest corner of Tennessee (fig. 1) and is the largest natural lake in the State. The lake is an important economic, environmental, and recreational resource to the people in the area and to the State of Tennessee. The natural eutropic succession rate of the lake has apparently been accelerated during the past several decades by land-use practices within its drainage basin. Effective management and restoration of the land and its resources has, therefore, become a priority objective of the State and local governments.

To aid in this management objective, the U.S. Geological Survey entered into a cooperatively funded study in May 1984 with the Tennessee Wildlife Resources Agency and the Tennessee Department of Health and Environment, Division of Water Management, to collect hydrologic data and prepare an annual water budget for Reelfoot Lake. This report presents and describes the data collected for that study. A second report presenting the water budget for Reelfoot Lake and describing the relations of various hydrologic components to the lake will be published late in 1985.

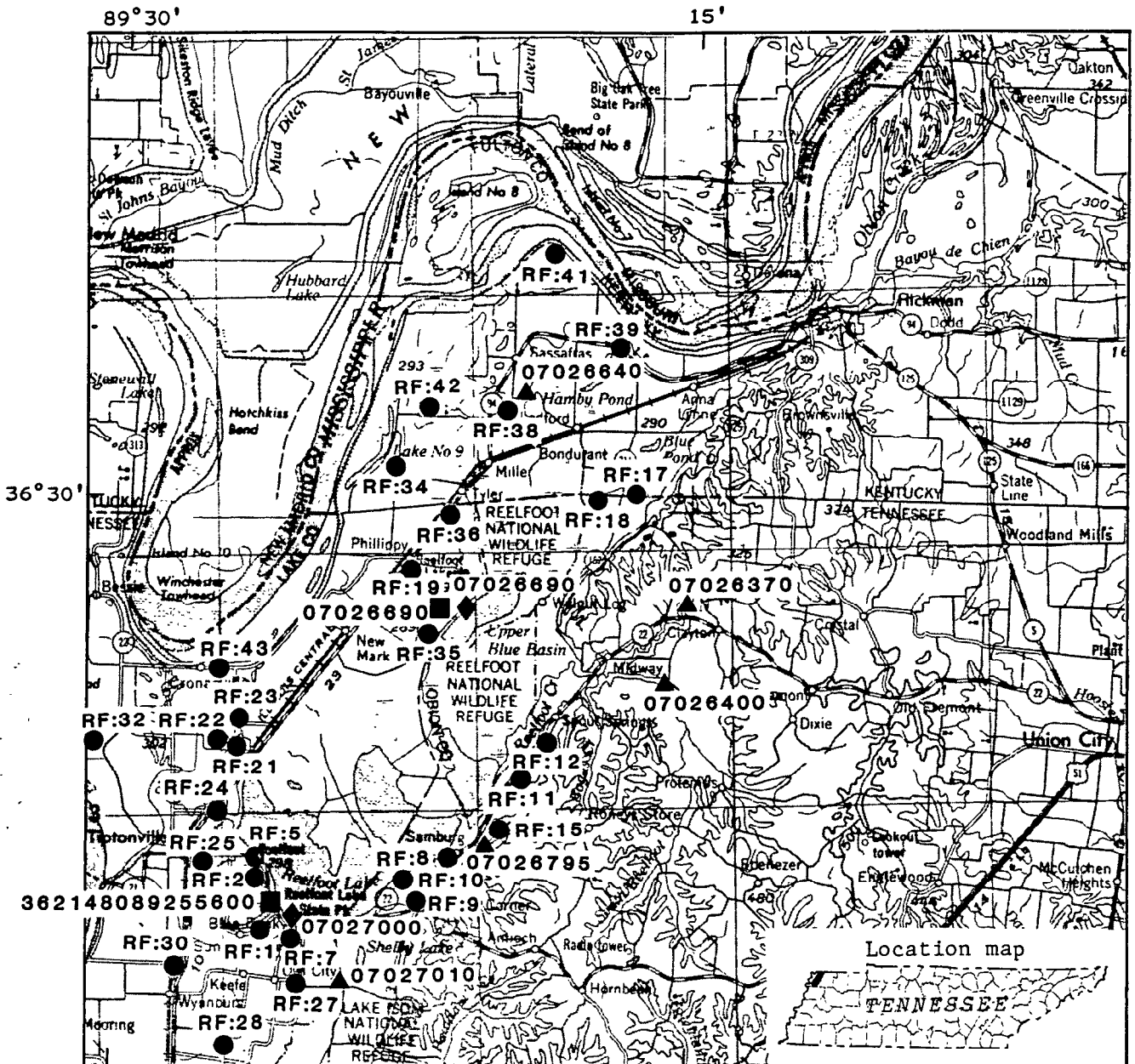
DESCRIPTION OF AREA

Reelfoot Lake covers approximately 24.2 mi² at a normal pool elevation of 282.2 feet above sea level and has a drainage area of 240 mi², including a small area in Kentucky. In addition, the lake lies within the Mississippi embayment section of the Gulf Coastal Plain.

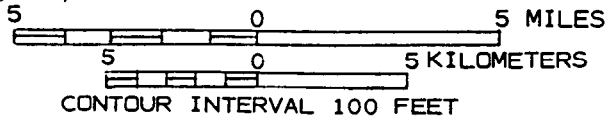
Three major tributaries, Reelfoot Creek, Indian Creek, and Running Slough, provide inflow to the lake and Running Reelfoot Bayou provides the only major outflow from the lake. Topographically, the area is characterized by several prominent physiographic features: Reelfoot Lake, Mississippi River and flood plain, a bluff line which bisects the basin along a northeast-southwest axis, and uplands east of the bluffs.

APPROACH

Continuous streamflow data was collected at four sites on the three major tributaries to Reelfoot Lake and at one site on the lake outflow channel (fig. 1). Daily rainfall and lake-stage data were each collected at two sites on the lake shore (fig. 1). Additionally, suspended-sediment samples were collected by automatic samplers and also manually during equipment maintenance visits at three of the four tributary inflow sites. At these three inflow sites, samples of stream-bottom material were collected at low flow once during the study period and were analyzed to determine the concentration of various pesticides. Periodic observations of ground-water levels were made at 30 wells in the Reelfoot Lake basin (fig. 1). Monitoring sites and types of data collected at each site are listed in table 1.



Base from U.S. Geological Survey, 1:250,000, SCALE 1:250,000
 Dyersburg, Tenn., Ky., Mo., Ill., 1956,
 revised 1970



EXPLANATION

- ▲ 07026370 Streamflow monitoring station and number
- ◆ 07027000 Lake-stage monitoring station and number
- RF:24 Ground-water observation well and number
- 07026690 Rainfall monitoring station and number

Figure 1.--Location of project area, Reelfoot Lake, streamflow monitoring stations, lake-stage monitoring stations, ground-water observation wells, and rainfall monitoring stations.

Table 1.--List of monitoring sites and types of data collected

Continuous streamflow and suspended sediment

07026370 North Reelfoot Creek at Hwy. 22, near Clayton, Tenn.
07026400 South Reelfoot Creek near Clayton, Tenn.
07026640 Running Slough near Ledford, Ky.

Continuous streamflow

07026795 Indian Creek near Samburg, Tenn.
07027010 Running Reelfoot Bayou near Owl City, Tenn.

Stream-bottom material samples, once annually

07026370 North Reelfoot Creek at Hwy. 22, near Clayton, Tenn.
07026400 South Reelfoot Creek near Clayton, Tenn.
07026640 Running Slough near Ledford, Ky.

Daily rainfall accumulation

07026690 Reelfoot Lake near Phillippy, Tenn.
362148089255600 Blue Bank rain gage at Blue Bank, Tenn.

Daily lake stage

07026690 Reelfoot Lake near Phillippy, Tenn.
07027000 Reelfoot Lake near Tiptonville, Tenn.

Periodic observations of ground-water levels

RF:1, RF:2, RF:5, RF:7, RF:8, RF:9, RF:10, RF:11, RF:12, RF:15, RF:17,
RF:18, RF:19, RF:21, RF:22, RF:23, RF:24, RF:25, RF:27, RF:28, RF:30,
RF:32, RF:34, RF:35, RF:36, RF:38, RF:39, RF:41, RF:42, RF:43

EXPLANATION OF DATA

Daily streamflow and sediment-discharge data and results of the stream-bottom material analyses are given in tables 2 through 10; daily rainfall accumulation and lake-stage data are given in tables 11 through 14; and ground-water data are shown in graphical form in figures 2 through 31.

Hydrologic data for the period May 1 to December 31, 1984, were used to describe the surface-water and ground-water hydrology of the Reelfoot Lake basin (Robbins, 1985) and to calibrate a ground-water flow model (McDonald and Harbaugh, 1984) of the Reelfoot Lake study area. Streamflow discharge measurements made subsequent to January 1, 1985, at the South Reelfoot Creek and Indian Creek gaging stations indicated that the upper end of the stage-discharge ratings at these two stations needed to be revised. The result of these changes was

generally an increase in the monthly total runoff computed for each station. The data presented in this report are final data and reflect the rating revisions. Therefore, there are slight differences between some monthly discharge totals presented herein and those presented by Robbins (1985).

REFERENCES

- McDonald, M. C., and Harbaugh, A. W., 1984, A modular three-dimensional finite-difference ground-water flow model: U.S. Geological Survey Open-file Report 83-875, 528 p.
- Robbins, C. H., 1985, Hydrology of the Reelfoot Lake basin, Obion and Lake Counties, northwestern Tennessee: U.S. Geological Survey Water Resources Investigations Report 85-4097, 29 p.

HYDROLOGIC DATA

Table 2.--Daily discharge for streamflow station 07026370 North Reelfoot Creek at Hwy. 22, near Clayton, Tenn.

LOCATION.--Lat 36°27'50", long 89°15'13", Obion County, Hydrologic Unit 08010202, on left bank on upstream side of bridge on State Highway 22, 0.9 mile northwest of Clayton, 9.9 miles west of intersection of State Highways 22 and 5, and 11.8 miles northeast of the spillway at Reelfoot Lake.

DRAINAGE AREA.--56.3 mi².

Mean daily discharge, in cubic feet per second, May 1984 to April 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	161	11	.66	.85	.00	.00	15	31	557	113	36	211
2	90	8.7	.35	.24	.00	.00	40	22	352	71	34	93
3	213	7.2	.21	.11	.00	.00	19	16	314	61	29	52
4	142	5.1	.15	.05	.00	.00	15	13	247	36	72	36
5	82	3.6	37	.01	.00	.00	11	12	104	39	66	51
6	818	2.6	8.2	.00	.00	735	8.2	14	59	50	40	42
7	1640	2.7	5.6	.00	.00	454	5.9	11	96	51	30	28
8	1360	2.1	3.8	.00	.00	310	4.3	11	108	40	199	22
9	537	1.3	2.5	.00	.74	283	3.5	11	85	24	397	18
10	402	.86	1.6	.00	.17	260	5.2	11	110	192	225	16
11	353	.78	1.0	.00	1.9	195	4.2	9.7	103	726	106	14
12	299	.53	.76	.00	.27	66	3.2	9.5	53	392	58	12
13	256	.40	.46	.00	.00	29	2.3	13	40	299	40	11
14	164	.29	.29	.00	.00	19	2.1	18	28	170	43	68
15	79	.19	.29	.00	.00	16	4.7	17	23	103	31	55
16	41	75	38	.00	.00	89	4.1	13	20	70	25	33
17	26	44	13	.00	.00	231	2.8	96	45	189	21	24
18	19	18	9.2	.00	.00	83	459	694	45	360	17	18
19	15	9.2	5.5	.00	.00	161	299	544	47	415	15	15
20	12	5.4	3.5	.00	.00	107	185	417	40	341	14	11
21	11	100	2.2	.00	.00	277	74	1230	31	250	19	9.0
22	20	17	1.3	.00	.00	110	38	485	24	153	27	7.4
23	16	33	.73	.00	.00	76	24	370	21	173	23	15
24	11	25	.38	.00	.00	61	19	410	23	375	21	63
25	8.8	13	.25	.00	.00	38	15	341	34	202	17	27
26	7.3	7.4	.18	.00	.00	26	12	220	22	97	14	19
27	129	4.4	11	.00	.00	19	246	101	19	56	15	438
28	59	3.0	14	.00	.00	14	189	60	19	40	15	231
29	33	1.9	7.5	.01	.00	12	97	42	17	---	13	105
30	21	1.1	4.3	.00	.00	9.9	49	947	35	---	16	58
31	14	---	2.5	.00	---	8.7	---	489	247	---	490	---
TOTAL	7039.1	404.75	176.41	1.27	3.08	3689.60	1856.5	6678.2	2968	5088	2168	1802.4
MEAN	227	13.5	5.69	.04	.10	119	61.9	215	95.7	182	69.9	60.1
MAX	1640	100	38	.85	1.9	735	459	1230	557	726	490	438
MIN	7.3	.19	.15	.00	.00	.00	2.1	9.5	17	24	13	7.4
CFSM	4.03	.24	.10	.00	.00	2.11	1.10	3.82	1.70	3.23	1.24	1.07
IN.	4.65	.27	.12	.00	.00	2.44	1.23	4.41	1.96	3.36	1.43	1.19

Table 3.--Daily discharge for streamflow station 07026400 South Reelfoot Creek near Clayton, Tenn.

LOCATION.--Lat 36°26'20", long 89°15'37", Obion County, Hydrologic Unit 08010202, at county road bridge, 1.7 miles above confluence with North Reelfoot Creek, and 2 miles southwest of Clayton.

DRAINAGE AREA.--38.6 mi².

Mean daily discharge, in cubic feet per second, May 1984 to April 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	43	21	.34	1.1	.09	.00	52	3.6	350	46	48	37
2	36	15	.26	.72	.15	.00	56	5.9	52	44	48	26
3	215	13	.64	.45	.10	.00	17	5.8	43	37	45	23
4	98	11	.80	.29	.05	.00	18	6.5	44	36	67	20
5	44	9.9	3.5	.19	.02	.00	18	16	41	38	49	34
6	509	9.7	2.3	.13	.01	450	15	21	41	39	42	22
7	1050	17	1.4	.06	.00	140	12	12	44	34	42	16
8	150	11	1.1	.04	.00	90	11	11	43	30	66	13
9	110	8.3	.91	.03	8.2	67	11	8.9	39	31	88	14
10	84	5.6	1.1	.02	7.5	50	15	12	48	295	52	15
11	60	3.9	.80	.01	7.1	35	7.3	9.9	38	631	51	16
12	47	3.4	7.9	.01	5.1	18	8.7	11	33	118	46	16
13	40	2.2	1.6	.03	2.7	14	9.7	13	31	102	44	13
14	32	2.0	1.3	.02	1.7	20	11	18	33	91	49	53
15	24	2.2	1.5	.02	1.0	30	15	15	31	82	42	24
16	21	2.3	1.9	.03	.60	36	5.0	15	31	81	40	15
17	18	1.9	.81	.04	.35	43	3.0	45	42	127	38	10
18	16	1.1	.52	.03	.27	29	613	808	37	160	34	6.7
19	17	.58	1.2	.02	.13	116	94	228	34	107	32	6.4
20	21	.47	.59	.01	.08	47	49	121	29	77	30	7.3
21	24	.71	.37	.00	.05	199	21	696	29	66	37	4.2
22	34	.57	.26	.00	.03	38	13	94	30	59	42	5.4
23	15	1.8	.19	.05	.17	34	20	29	30	160	31	49
24	7.4	1.9	.14	.02	.04	27	32	52	33	184	26	57
25	9.8	.87	.11	.02	.01	19	39	28	34	58	22	25
26	22	.26	.59	.03	.04	24	34	16	28	52	20	23
27	726	.44	8.6	.02	.01	31	182	14	29	48	23	165
28	87	.81	1.6	.01	.00	38	45	13	30	46	23	56
29	37	.84	1.2	.13	.00	37	24	12	29	---	20	32
30	33	.61	.90	.07	.00	32	12	866	54	---	22	26
31	29	---	1.8	.05	---	37	---	181	196	---	478	---
TOTAL	3659.2	150.36	46.23	3.65	35.50	1701.00	1462.7	3387.6	1606	2879	1697	830.0
MEAN	118	5.01	1.49	.12	1.18	54.9	48.8	109	51.8	103	54.7	27.7
MAX	1050	21	8.6	1.1	8.2	450	613	866	350	631	478	165
MIN	7.4	.26	.11	.00	.00	.00	3.0	3.6	28	30	20	4.2
CFSM	3.06	.13	.04	.00	.03	1.42	1.26	2.82	1.34	2.67	1.42	.72
IN.	3.53	.14	.04	.00	.03	1.64	1.41	3.26	1.55	2.77	1.64	.80

Table 4.--Daily discharge for streamflow station 07026640 Running Slough near Ledford, Ky.

LOCATION.--Lat 36°32'28", long 89°18'59", Fulton County, Hydrologic Unit 08010202, on county road on the right bank, 1.1 miles northwest of Ledford.

DRAINAGE AREA.--10.8 mi².

Mean daily discharge, in cubic feet per second, May 1984 to April 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	60	25	.00	.00	.00	.00	.00	11	86	7.2	13	38
2	52	19	.00	.00	.00	.00	.00	9.8	67	8.7	19	25
3	64	13	.00	.00	.00	.00	.00	9.6	51	6.3	24	15
4	77	5.1	.00	.00	.00	.00	.00	10	41	5.7	30	12
5	63	2.5	.00	.00	.00	.00	.00	11	39	5.9	36	15
6	113	1.7	.00	.00	.00	.00	.00	11	39	6.2	37	20
7	222	1.3	.18	.00	.00	.00	.00	10	41	6.0	37	24
8	259	1.1	.32	.00	.00	.00	.00	10	42	4.8	40	22
9	210	.50	.34	.00	.00	.00	.00	9.5	40	3.9	54	21
10	168	.07	.34	.00	.00	.00	.00	9.2	38	8.4	53	21
11	126	.00	.35	.00	.00	.00	.00	8.6	35	57	51	22
12	99	.00	.23	.00	.00	.00	.00	7.8	25	59	48	22
13	87	.03	.03	.00	.00	.00	.00	7.6	18	50	45	20
14	83	.01	.00	.00	.00	.00	.00	8.2	14	39	45	33
15	78	.00	.00	.00	.00	.00	.00	9.7	12	30	43	57
16	73	.00	.73	.00	.00	.49	.00	9.6	10	22	39	46
17	69	.00	7.2	.00	.00	17	.00	6.8	10	22	36	34
18	66	.00	5.1	.00	.00	15	1.4	5.3	14	38	32	23
19	64	.00	2.3	.00	.00	11	2.4	23	15	49	34	13
20	62	.00	.94	.00	.00	6.1	1.5	20	7.9	52	31	7.6
21	60	.01	.42	.00	.00	16	.09	101	4.5	45	29	3.6
22	60	9.6	.17	.00	.00	9.0	.00	137	3.9	34	34	3.3
23	61	9.1	.00	.00	.00	3.4	.00	94	3.9	28	35	9.7
24	57	5.3	.00	.00	.00	.49	.00	68	4.2	53	30	67
25	52	4.5	.00	.00	.00	.00	.00	52	4.9	39	23	45
26	46	.54	.00	.00	.00	.00	.00	39	4.2	24	16	28
27	48	.00	.00	.00	.00	.00	3.5	29	3.6	12	9.7	145
28	57	.00	.00	.00	.00	.00	11	20	3.1	7.9	9.6	208
29	48	.00	.00	.00	.00	.00	17	14	2.6	---	7.7	154
30	38	.00	.00	.00	.00	.00	14	57	2.9	---	5.5	122
31	32	---	.00	.00	---	.00	---	85	6.4	---	33	---
TOTAL	2654	98.36	18.65	.00	.00	78.48	50.89	903.7	689.1	724.0	979.5	1276.2
MEAN	85.6	3.28	.60	.00	.00	2.53	1.70	29.2	22.2	25.9	31.6	42.5
MAX	259	25	7.2	.00	.00	17	17	137	86	59	54	208
MIN	32	.00	.00	.00	.00	.00	.00	5.3	2.6	3.9	5.5	3.3
CFSM	7.93	.30	.06	.00	.00	.23	.16	2.70	2.06	2.40	2.93	3.94
IN.	9.14	.34	.06	.00	.00	.27	.18	3.11	2.37	2.49	3.37	4.40

Table 5.--Daily discharge for streamflow station 07026795
Indian Creek near Samburg, Tenn.

LOCATION.--Lat 36°22'59", long 89°20'32", Obion County, Hydrologic Unit
08010202, on left bank upstream from a bridge on county road, 0.6 mile
northeast of the four-way stop on State Highway 22 in Samburg.

DRAINAGE AREA.--8.01 mi².

Mean daily discharge, in cubic feet per second, September 1984 to April 1985

DAY	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	.02	.00	1.5	3.3	42	15	7.5	9.3
2	.10	.00	1.5	3.1	10	13	7.4	7.1
3	.03	.00	.62	3.0	7.7	8.9	6.5	6.4
4	.01	.00	.76	2.8	8.4	8.9	11	6.0
5	.01	.00	.59	3.3	6.7	8.8	8.4	13
6	.09	244	.55	3.9	6.1	6.6	6.6	7.8
7	.07	6.5	.46	3.0	6.1	4.7	6.7	6.0
8	.02	2.8	.57	3.1	6.3	4.3	8.4	5.2
9	9.1	2.1	.58	3.2	5.6	4.4	12	4.8
10	.96	1.8	1.1	3.2	6.8	50	8.0	4.5
11	2.3	3.4	.85	2.9	6.6	78	7.9	4.8
12	.30	3.5	.89	3.0	4.9	23	6.1	4.9
13	.10	4.2	.93	2.9	4.9	14	5.8	4.5
14	.06	4.4	.98	3.1	5.3	11	7.2	31
15	.03	5.4	1.7	2.9	5.2	9.8	5.6	11
16	.01	4.7	1.3	2.8	5.3	9.3	5.3	7.0
17	.01	5.8	1.3	8.4	9.6	16	5.2	5.5
18	.13	3.2	90	136	7.8	28	4.8	4.7
19	.18	16	9.8	35	7.3	24	5.0	4.1
20	.18	12	4.5	29	6.6	20	5.1	3.6
21	.17	18	3.5	93	6.7	17	6.8	3.3
22	.18	.96	3.1	18	7.3	13	9.5	3.1
23	5.1	.88	2.8	9.5	7.2	38	7.1	7.9
24	.37	.72	2.8	9.4	7.4	33	5.7	8.1
25	.04	.49	2.5	8.4	6.9	12	5.0	4.0
26	1.3	.32	2.6	6.5	5.1	9.9	4.9	4.3
27	.03	.24	41	5.3	5.7	8.0	6.2	39
28	.01	.46	9.2	4.7	6.2	7.1	5.6	12
29	.00	.60	5.0	3.5	5.5	---	5.2	6.8
30	.00	.48	4.0	144	12	---	6.4	5.2
31	---	.60	---	25	26	---	75	---
TOTAL	20.91	343.55	196.98	585.2	265.2	495.7	277.9	244.9
MEAN	.70	11.1	6.57	18.9	8.55	17.7	8.96	8.16
MAX	9.1	244	90	144	42	78	75	39
MIN	.00	.00	.46	2.8	4.9	4.3	4.8	3.1
CFSM	.09	1.39	.82	2.36	1.07	2.21	1.12	1.02
IN.	.10	1.60	.91	2.72	1.23	2.30	1.29	1.14

Table 6.--Daily discharge for streamflow station 07027010 Running Reelfoot Bayou near Owl City, Tenn.

LOCATION.--Lat 36°19'53", Long 89°24'02", Obion County, Hydrologic Unit 08010202, at bridge on county road 1.5 miles downstream of the spillway at Reelfoot Lake and 1.6 miles east of Owl City.

DRAINAGE AREA.--247 mi².

Mean daily discharge, in cubic feet per second, May 1984 to April 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	675	487	9.2	4.1	3.0	1.5	19	221	1490	30	1120	250
2	681	315	8.7	261	3.4	1.5	181	220	1510	30	1080	415
3	747	308	8.3	549	3.4	1.5	272	223	1570	30	1010	397
4	762	296	8.0	541	3.5	1.5	246	217	1650	30	645	337
5	738	272	8.8	379	3.5	1.6	245	222	1660	31	402	327
6	843	250	8.5	6.5	3.7	637	235	206	1640	34	398	364
7	1550	166	7.6	2.1	3.6	139	111	64	1420	35	84	372
8	1690	22	7.1	2.4	3.5	11	9.2	59	787	36	24	366
9	1660	20	7.4	2.5	6.4	7.4	9.3	61	662	37	34	348
10	1670	18	7.5	2.3	3.0	9.4	11	63	1040	102	27	321
11	1670	18	7.5	2.3	4.0	12	11	65	1500	955	29	306
12	1670	21	7.7	2.5	3.6	13	11	62	1500	1340	37	306
13	1640	18	6.6	2.9	2.9	13	12	62	1460	1310	34	293
14	1620	17	6.5	3.4	1.3	10	14	281	1410	1290	49	356
15	1580	16	7.3	3.6	.14	11	17	310	1350	1130	97	362
16	1540	15	326	3.2	.17	9.9	18	287	1260	450	367	346
17	1490	15	673	3.3	.65	11	20	304	1230	136	379	336
18	1430	16	652	3.2	1.4	11	258	1110	1010	189	350	315
19	1350	15	378	2.9	1.4	43	369	807	586	747	321	297
20	1270	11	8.1	2.8	.99	25	693	967	571	1370	319	286
21	1220	11	5.6	2.9	.98	114	669	1300	573	1370	342	276
22	1170	12	5.2	3.2	1.2	18	622	1280	488	1340	368	149
23	1120	12	4.6	3.1	2.4	97	578	1270	451	1310	329	66
24	700	11	3.0	3.0	2.7	270	542	1280	428	1400	327	81
25	273	11	2.6	3.2	1.9	242	503	1300	409	1330	334	104
26	50	11	2.5	3.3	1.8	110	446	1250	382	1290	283	152
27	925	11	3.1	3.4	1.7	12	620	951	373	1260	102	252
28	922	11	2.9	3.4	1.6	14	465	532	205	1190	91	517
29	722	10	3.3	3.2	1.5	15	254	483	37	---	100	800
30	665	9.8	3.5	2.9	1.5	12	216	940	35	---	113	806
31	617	---	3.8	1.5	---	13	---	1190	79	---	272	---
TOTAL	34660	2425.8	2193.9	1813.1	70.83	1887.3	7676.5	17587	28766	19802	9467	9903
MEAN	1118	80.9	70.8	58.5	2.36	60.9	256	567	928	707	305	330
MAX	1690	487	673	549	6.4	637	693	1300	1660	1400	1120	806
MIN	50	9.8	2.5	1.5	.14	1.5	9.2	59	35	30	24	66
CFSM	4.53	.33	.29	.24	.01	.25	1.04	2.30	3.76	2.86	1.23	1.34
IN.	5.22	.37	.33	.27	.01	.28	1.16	2.65	4.33	2.98	1.43	1.49

Table 7.--Daily suspended-sediment discharge for streamflow station 07026370
North Reelfoot Creek at Hwy. 22, near Clayton, Tenn.

Suspended-sediment discharge, in tons per day, May to October 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	161	630	274	11	103	3.1	.66	76	.14
2	90	490	119	8.7	92	2.2	.35	68	.06
3	213	1520	824	7.2	91	1.8	.21	61	.03
4	142	610	234	5.1	87	1.2	.15	53	.02
5	82	400	89	3.7	83	.83	37	2320	447
6	818	3090	7900	2.7	78	.57	8.2	175	3.9
7	1640	1490	7110	2.7	72	.52	5.6	140	2.1
8	1360	690	2530	2.1	67	.38	3.8	122	1.3
9	537	695	1030	1.3	60	.21	2.5	105	.71
10	402	592	643	.86	55	.13	1.6	93	.40
11	353	520	496	.78	49	.10	1.1	82	.24
12	299	460	371	.53	46	.07	.76	72	.15
13	256	420	284	.40	43	.05	.46	67	.08
14	164	360	159	.29	40	.03	.29	65	.05
15	79	250	53	.19	37	.02	.29	64	.05
16	41	200	22	75	1040	201	39	1500	277
17	26	150	11	44	510	61	13	210	7.4
18	19	115	5.9	18	310	15	9.2	118	2.9
19	15	105	3.1	9.2	160	4.0	5.5	108	1.6
20	12	95	3.1	5.4	110	1.6	3.5	97	.92
21	11	96	2.9	100	3580	1880	2.2	87	.52
22	20	200	11	17	600	28	1.3	76	.27
23	16	172	7.4	33	1800	225	.73	65	.13
24	11	151	4.5	25	500	34	.38	59	.06
25	8.8	125	3.0	13	250	8.8	.25	56	.04
26	7.3	105	2.1	7.4	140	2.8	.18	53	.03
27	129	956	554	4.4	121	1.4	11	339	9.5
28	59	510	81	3.0	104	.84	14	176	6.7
29	33	285	25	1.9	92	.47	7.5	148	3.0
30	21	215	12	1.1	84	.25	4.3	135	1.6
31	14	121	4.6	---	---	---	2.5	155	1.0
TOTAL	7039.1	---	22868.6	404.95	---	2475.37	177.51	---	768.90
		AUGUST			SEPTEMBER			OCTOBER	
1	.85	106	.24	.00	0	.00	.00	0	.00
2	.24	95	.06	.00	0	.00	.00	0	.00
3	.11	75	.02	.00	0	.00	.00	0	.00
4	.05	49	.00	.00	0	.00	.00	0	.00
5	.01	10	.00	.00	0	.00	.00	0	.00
6	.00	0	.00	.00	0	.00	735	738	3520
7	.00	0	.00	.00	0	.00	454	490	601
8	.00	0	.00	.00	0	.00	310	320	268
9	.00	0	.00	.74	71	.31	283	260	199
10	.00	0	.00	.17	10	.00	260	230	161
11	.00	0	.00	1.9	57	.80	195	220	116
12	.00	0	.00	.27	20	.01	66	150	27
13	.00	0	.00	.00	0	.00	29	120	9.4
14	.00	0	.00	.00	0	.00	19	100	5.1
15	.00	0	.00	.00	0	.00	16	105	4.5
16	.00	0	.00	.00	0	.00	89	1000	842
17	.00	0	.00	.00	0	.00	231	571	582
18	.00	0	.00	.00	0	.00	83	225	50
19	.00	0	.00	.00	0	.00	161	500	284
20	.00	0	.00	.00	0	.00	107	452	211
21	.00	0	.00	.00	0	.00	277	422	377
22	.00	0	.00	.00	0	.00	110	200	59
23	.00	0	.00	.00	0	.00	76	155	32
24	.00	0	.00	.00	0	.00	61	290	48
25	.00	0	.00	.00	0	.00	38	98	10
26	.00	0	.00	.00	0	.00	26	85	6.0
27	.00	0	.00	.00	0	.00	19	83	4.3
28	.00	0	.00	.00	0	.00	14	82	3.1
29	.01	45	.00	.00	0	.00	12	80	2.6
30	.00	0	.00	.00	0	.00	10	79	2.1
31	.00	0	.00	---	---	---	8.7	79	1.9
TOTAL	1.27	---	0.32	3.08	---	1.12	3689.70	---	7426.00

Table 7.--Daily suspended-sediment discharge for streamflow station 07026370
North Reelfoot Creek at Hwy. 22, near Clayton, Tenn.--Continued

Suspended-sediment discharge, in tons per day, November 1984 to April 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15	167	12	31	107	9.0	557	527	903
2	40	207	24	22	84	5.0	352	290	276
3	19	119	6.1	16	70	3.0	314	275	233
4	15	102	4.1	13	58	2.0	247	260	173
5	11	91	2.7	12	49	1.6	104	205	58
6	8.2	89	2.0	14	62	2.3	59	160	25
7	5.9	80	1.3	11	58	1.7	96	141	39
8	4.3	69	.80	11	54	1.6	108	110	32
9	3.5	75	.71	11	47	1.4	85	78	18
10	5.2	98	1.4	11	40	1.2	110	98	29
11	4.2	80	.91	9.7	35	.92	103	79	22
12	3.2	72	.62	9.5	32	.82	53	64	9.2
13	2.3	65	.40	13	65	2.3	40	80	8.6
14	2.1	55	.31	18	91	4.4	28	69	5.2
15	4.7	85	1.1	17	75	3.4	23	72	4.5
16	4.1	87	.96	13	57	2.0	20	88	4.8
17	2.8	81	.61	96	260	305	45	181	22
18	459	764	1240	694	1090	2090	45	189	23
19	299	425	343	544	631	1000	47	169	21
20	185	315	157	417	435	490	40	172	19
21	74	175	35	1230	649	2230	31	150	13
22	38	140	14	485	385	504	24	122	7.9
23	24	125	8.1	370	285	285	21	98	5.6
24	19	105	5.4	410	466	611	23	85	5.3
25	15	85	3.4	341	299	284	34	110	10
26	12	62	2.0	220	180	107	22	105	6.2
27	246	538	489	101	140	38	19	94	4.8
28	189	280	143	60	125	20	19	89	4.6
29	97	165	43	42	115	13	17	83	3.8
30	49	130	17	947	1040	3360	35	282	88
31	---	---	---	489	590	796	247	272	211
TOTAL	1856.5	---	2559.92	6678.2	---	12175.64	2968	---	2285.5
		FEBRUARY		MARCH		APRIL			
1	113	144	44	36	116	11	211	650	370
2	71	128	25	34	121	11	93	450	113
3	61	279	48	29	106	8.3	52	300	42
4	36	249	24	72	212	56	36	240	23
5	39	248	26	66	210	37	51	258	42
6	50	280	38	40	151	16	42	224	25
7	51	267	37	30	128	10	28	185	14
8	40	251	27	199	975	2120	22	159	9.4
9	24	218	14	397	716	936	18	141	6.9
10	192	474	623	225	375	228	16	124	5.4
11	726	617	1280	106	300	86	14	106	4.0
12	392	370	392	58	250	39	12	90	2.9
13	299	215	174	40	211	23	11	83	2.5
14	170	184	84	43	178	21	68	432	140
15	103	160	44	31	157	13	55	240	36
16	70	145	27	25	149	10	33	151	13
17	189	355	253	21	141	8.0	24	130	8.4
18	360	372	416	17	138	6.3	18	122	5.9
19	415	349	402	15	130	5.3	15	120	4.9
20	341	272	252	14	128	4.8	11	118	3.5
21	250	212	143	19	141	7.2	9.1	117	2.9
22	153	200	83	27	160	12	7.4	115	2.3
23	173	668	789	23	155	9.6	15	213	17
24	375	1080	1380	21	148	8.4	63	432	89
25	202	425	232	17	145	6.7	27	240	17
26	97	242	63	14	143	5.4	19	170	8.7
27	56	180	27	15	141	5.7	438	1480	1910
28	40	132	14	15	135	5.5	231	445	278
29	---	---	---	13	129	4.5	105	275	78
30	---	---	---	16	215	9.3	58	175	27
31	---	---	---	490	1740	3300	---	---	---
TOTAL	5088	---	6961	2168	---	7024.0	1802.5	---	3301.7

Table 8.--Daily suspended-sediment discharge for streamflow station 07026400
South Reelfoot Creek near Clayton, Tenn.

Suspended-sediment discharge, in tons per day, May to October 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	43	---	---	21	325	7.1	.34	26	.02
2	36	---	---	15	125	5.1	.26	23	.02
3	215	2040	1800	13	90	3.2	.64	50	.09
4	98	1010	452	11	88	2.6	.80	53	.11
5	44	375	45	9.9	93	2.5	3.5	57	.54
6	509	2330	4700	9.7	97	2.5	2.3	80	.50
7	1050	---	---	17	105	4.8	1.4	74	.28
8	150	---	---	11	93	2.8	1.1	67	.20
9	110	---	---	8.3	87	1.9	.91	59	.14
10	84	375	85	5.6	81	1.2	1.1	63	.19
11	60	150	24	3.9	76	.80	.80	56	.12
12	47	135	17	3.4	71	.65	7.9	206	4.4
13	40	104	11	2.2	64	.38	1.6	130	.56
14	32	79	6.8	2.0	45	.24	1.3	120	.42
15	24	68	4.4	2.2	48	.29	1.5	115	.47
16	21	55	3.1	2.3	50	.31	1.9	141	.72
17	18	45	2.2	1.9	47	.24	.81	116	.25
18	16	39	1.7	1.1	38	.11	.52	100	.14
19	17	34	1.6	.58	35	.05	1.2	108	.35
20	21	30	1.7	.47	35	.04	.59	95	.15
21	24	32	2.1	.71	35	.07	.37	87	.09
22	34	742	97	.57	30	.05	.26	80	.06
23	15	310	13	1.8	57	.28	.19	79	.04
24	7.4	230	4.6	1.9	59	.30	.14	75	.03
25	9.8	150	4.0	.87	50	.12	.11	74	.02
26	22	1270	97	.26	40	.03	.59	105	.17
27	726	7460	18500	.44	49	.06	8.6	1080	25
28	87	1000	235	.81	47	.10	1.6	290	1.3
29	37	500	50	.84	32	.07	1.2	175	.57
30	33	350	31	.61	28	.05	.90	140	.34
31	29	230	18	---	---	---	1.8	105	.51
TOTAL	3659.2	---	26207.2	150.36	---	37.94	46.23	---	37.80
		AUGUST			SEPTEMBER			OCTOBER	
1	1.1	92	.27	.09	30	.00	0	0	.00
2	.72	80	.16	.15	50	.02	0	0	.00
3	.45	65	.08	.10	30	.00	0	0	.00
4	.29	62	.05	.05	30	.00	0	0	.00
5	.19	61	.03	.02	30	.00	0	0	.00
6	.13	59	.02	.01	30	.00	450	---	---
7	.06	58	.00	.00	0	.00	140	---	---
8	.04	51	.00	.00	0	.00	90	---	---
9	.03	49	.00	8.2	645	14	67	272	49
10	.02	46	.00	7.5	300	6.1	50	235	32
11	.01	46	.00	7.1	300	5.8	35	228	22
12	.01	50	.00	5.1	150	2.1	18	225	11
13	.03	50	.00	2.7	80	.58	14	211	8.0
14	.02	40	.00	1.7	75	.34	20	199	11
15	.02	40	.00	1.0	50	.14	30	170	14
16	.03	30	.00	.60	50	.08	36	408	49
17	.04	30	.00	.35	50	.05	43	928	123
18	.03	20	.00	.27	50	.04	29	575	45
19	.02	20	.00	.13	50	.02	116	1450	703
20	.01	10	.00	.08	50	.01	47	840	308
21	.00	0	.00	.05	50	.00	199	1070	1170
22	.00	0	.00	.03	50	.00	38	560	57
23	.05	30	.00	.17	100	.05	34	500	46
24	.02	30	.00	.04	100	.01	27	215	16
25	.02	30	.00	.01	0	.00	19	149	7.6
26	.03	30	.00	.04	50	.00	24	161	10
27	.02	30	.00	.01	50	.00	31	151	13
28	.01	30	.00	.00	0	.00	38	156	16
29	.13	40	.01	.00	0	.00	37	159	16
30	.07	30	.00	.00	0	.00	32	98	8.5
31	.05	30	.00	---	---	---	37	78	7.8
TOTAL	3.65	---	0.62	35.50	---	29.34	1171	---	2742.90

Table 8.--Daily suspended-sediment discharge for streamflow station 07026400
South Reelfoot Creek near Clayton, Tenn.--Continued

Suspended-sediment discharge, in tons per day, November 1984 to April 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	52	277	81	3.6	37	.36	350	1980	2560
2	56	478	117	5.9	90	1.4	52	300	42
3	17	170	7.8	5.8	84	1.3	43	219	25
4	18	180	8.7	6.5	63	1.1	44	190	23
5	18	163	7.9	16	61	2.6	41	161	18
6	15	169	6.8	21	65	3.7	41	131	15
7	12	128	4.1	12	31	1.0	44	115	14
8	11	98	2.9	11	28	.83	43	119	14
9	11	74	2.2	8.9	26	.62	39	109	11
10	15	154	6.7	12	35	1.1	48	148	19
11	7.3	111	2.2	9.9	25	.67	38	111	11
12	8.7	88	2.1	11	25	.74	33	86	7.7
13	9.7	72	1.9	13	34	1.2	31	80	6.7
14	11	58	1.7	18	55	2.7	33	47	4.2
15	15	71	2.9	15	54	2.2	31	33	2.8
16	5.0	75	1.0	15	40	1.6	31	32	2.7
17	3.0	79	.64	45	617	382	42	67	7.6
18	613	1840	4790	808	2620	7780	37	62	6.2
19	94	570	145	228	730	691	34	72	6.6
20	49	250	33	121	760	648	29	72	5.6
21	21	97	5.5	696	1200	2550	29	60	4.7
22	13	66	2.3	94	290	74	30	57	4.6
23	20	51	2.8	29	149	12	30	55	4.5
24	32	68	5.9	52	402	108	33	69	6.1
25	39	49	5.2	28	260	20	34	71	6.5
26	34	57	5.2	16	150	6.5	28	72	5.4
27	182	928	645	14	103	3.9	29	80	6.3
28	45	200	24	13	86	3.0	30	71	5.8
29	24	53	3.4	12	80	2.6	29	79	6.2
30	12	42	1.4	866	1830	6870	54	725	426
31	---	---	---	181	999	625	196	2120	1850
TOTAL	1462.7	---	5926.2	3387.6	---	19799.12	1606	---	5128.2
		FEBRUARY			MARCH			APRIL	
1	46	380	47	48	72	9.3	37	390	39
2	44	168	20	48	68	8.8	26	190	13
3	37	129	13	45	46	5.6	23	91	5.7
4	36	110	11	67	381	89	20	85	4.6
5	38	90	9.2	49	130	17	34	690	101
6	39	75	7.9	42	66	7.5	22	200	12
7	34	60	5.5	42	55	6.2	16	93	4.0
8	30	29	2.3	66	398	191	13	83	2.9
9	31	24	2.0	88	1140	419	14	72	2.7
10	295	1720	4610	52	200	28	15	66	2.7
11	631	1730	4670	51	95	13	16	61	2.6
12	118	450	143	46	81	10	16	58	2.5
13	102	400	110	44	59	7.0	13	52	1.8
14	91	78	19	49	51	6.7	53	655	189
15	82	45	10	42	35	4.0	24	552	40
16	81	38	8.3	40	34	3.7	15	97	3.9
17	127	191	82	38	32	3.3	10	58	1.6
18	160	354	223	34	29	2.7	6.7	49	.89
19	107	261	80	32	25	2.2	6.4	50	.86
20	77	180	37	30	24	1.9	7.3	52	1.0
21	66	150	27	37	45	4.5	4.2	45	.51
22	59	110	18	42	110	12	5.4	41	.60
23	160	1050	1840	31	82	6.9	49	1070	747
24	184	1420	1290	26	58	4.1	57	1200	394
25	58	310	49	22	38	2.3	25	190	13
26	52	120	17	20	28	1.5	23	190	12
27	48	98	13	23	35	2.2	165	1600	1010
28	46	81	10	23	35	2.2	56	445	76
29	---	---	---	20	29	1.6	32	180	16
30	---	---	---	22	269	31	26	180	13
31	---	---	---	478	2980	8280	---	---	---
TOTAL	2879	---	13374.2	1697	---	9184.2	830.0	---	2713.86

Table 9.--Daily suspended-sediment discharge for streamflow station 07026640
Running Slough near Ledford, Ky.

Suspended-sediment discharge, in tons per day, May to October 1984

DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)									
										MAY			JUNE			JULY		
1	60	132	21	25	71	4.8	.00	0	.00									
2	52	82	12	19	73	3.7	.00	0	.00									
3	64	180	31	13	75	2.6	.00	0	.00									
4	77	212	44	5.1	75	1.0	.00	0	.00									
5	63	96	16	2.5	75	.51	.00	0	.00									
6	113	406	138	1.7	75	.34	.00	0	.00									
7	222	402	232	1.3	75	.26	.18	50	.02									
8	259	308	217	1.1	75	.22	.32	50	.04									
9	210	190	108	.50	65	.09	.34	50	.05									
10	168	171	78	.07	60	.01	.34	50	.05									
11	126	140	48	.00	0	.00	.35	50	.05									
12	99	110	29	.00	0	.00	.23	50	.03									
13	87	85	20	.03	50	.00	.03	50	.00									
14	83	79	18	.01	50	.00	.00	0	.00									
15	78	74	16	.00	0	.00	.00	0	.00									
16	73	69	14	.00	0	.00	.73	60	.12									
17	69	66	12	.00	0	.00	7.2	100	1.9									
18	66	66	12	.00	0	.00	5.1	100	1.4									
19	64	66	11	.00	0	.00	2.3	75	.47									
20	62	65	11	.00	0	.00	.94	50	.13									
21	60	65	11	.01	50	.00	.42	50	.06									
22	60	63	10	9.6	81	2.6	.17	50	.02									
23	61	62	10	9.1	105	2.6	.00	0	.00									
24	57	62	9.5	5.3	60	.86	.00	0	.00									
25	52	60	8.4	4.5	52	.63	.00	0	.00									
26	46	55	6.8	.54	50	.07	.00	0	.00									
27	48	78	10	.00	0	.00	.00	0	.00									
28	57	162	25	.00	0	.00	.00	0	.00									
29	48	82	11	.00	0	.00	.00	0	.00									
30	38	68	7.0	.00	0	.00	.00	0	.00									
31	32	70	6.0	---	---	---	.00	0	.00									
TOTAL	2654	---	1202.7	98.36	---	20.29	18.65	---	4.34									
		AUGUST			SEPTEMBER			OCTOBER										
1	.00	0	.00	.00	0	.00	.00	0	.00									
2	.00	0	.00	.00	0	.00	.00	0	.00									
3	.00	0	.00	.00	0	.00	.00	0	.00									
4	.00	0	.00	.00	0	.00	.00	0	.00									
5	.00	0	.00	.00	0	.00	.00	0	.00									
6	.00	0	.00	.00	0	.00	.00	0	.00									
7	.00	0	.00	.00	0	.00	.00	0	.00									
8	.00	0	.00	.00	0	.00	.00	0	.00									
9	.00	0	.00	.00	0	.00	.00	0	.00									
10	.00	0	.00	.00	0	.00	.00	0	.00									
11	.00	0	.00	.00	0	.00	.00	0	.00									
12	.00	0	.00	.00	0	.00	.00	0	.00									
13	.00	0	.00	.00	0	.00	.00	0	.00									
14	.00	0	.00	.00	0	.00	.00	0	.00									
15	.00	0	.00	.00	0	.00	.00	0	.00									
16	.00	0	.00	.00	0	.00	.49	45	.17									
17	.00	0	.00	.00	0	.00	17	146	6.5									
18	.00	0	.00	.00	0	.00	15	109	4.4									
19	.00	0	.00	.00	0	.00	11	110	3.3									
20	.00	0	.00	.00	0	.00	6.1	90	1.5									
21	.00	0	.00	.00	0	.00	16	129	5.6									
22	.00	0	.00	.00	0	.00	9.0	108	2.6									
23	.00	0	.00	.00	0	.00	3.4	69	.63									
24	.00	0	.00	.00	0	.00	.49	25	.03									
25	.00	0	.00	.00	0	.00	.00	0	.00									
26	.00	0	.00	.00	0	.00	.00	0	.00									
27	.00	0	.00	.00	0	.00	.00	0	.00									
28	.00	0	.00	.00	0	.00	.00	0	.00									
29	.00	0	.00	.00	0	.00	.00	0	.00									
30	.00	0	.00	.00	0	.00	.00	0	.00									
31	.00	0	.00	---	---	---	.00	0	.00									
TOTAL	0.00	---	0.00	0.00	---	0.00	78.48	---	24.73									

Table 9.--Daily suspended-sediment discharge for streamflow station 07026640
Running Slough near Ledford, Ky.--Continued

Suspended-sediment discharge, in tons per day, November 1984 to April 1985

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
	NOVEMBER			DECEMBER			JANUARY		
1	.00	0	.00	11	18	.53	86	172	40
2	.00	0	.00	9.8	12	.32	67	108	20
3	.00	0	.00	9.6	12	.31	51	72	9.9
4	.00	0	.00	10	18	.49	41	45	5.0
5	.00	0	.00	11	21	.62	39	31	3.3
6	.00	0	.00	11	20	.59	39	28	2.9
7	.00	0	.00	10	19	.51	41	25	2.8
8	.00	0	.00	10	19	.51	42	23	2.6
9	.00	0	.00	9.5	18	.46	40	22	2.4
10	.00	0	.00	9.2	18	.45	38	23	2.4
11	.00	0	.00	8.6	18	.42	35	24	2.3
12	.00	0	.00	7.8	17	.36	25	26	1.8
13	.00	0	.00	7.6	18	.37	18	28	1.4
14	.00	0	.00	8.2	21	.46	14	28	1.1
15	.00	0	.00	9.7	25	.65	12	25	.81
16	.00	0	.00	9.6	27	.70	10	23	.62
17	.00	0	.00	6.8	22	.40	10	18	.49
18	1.4	15	.06	5.3	48	.69	14	30	1.1
19	2.4	52	.34	23	219	14	15	41	1.7
20	1.5	45	.18	20	165	8.9	7.9	29	.62
21	.09	29	.00	101	336	95	4.5	28	.34
22	.00	0	.00	137	284	105	3.9	25	.26
23	.00	0	.00	94	109	28	3.9	26	.27
24	.00	0	.00	68	101	19	4.2	29	.33
25	.00	0	.00	52	69	9.7	4.9	28	.37
26	.00	0	.00	39	58	6.1	4.2	29	.33
27	3.5	30	.28	29	48	3.8	3.6	28	.27
28	11	43	1.3	20	39	2.1	3.1	24	.20
29	17	27	1.2	14	30	1.1	2.6	25	.18
30	14	20	.76	57	179	36	2.9	25	.20
31	---	---	---	85	279	64	6.4	120	2.1
TOTAL	50.89	---	4.12	903.7	---	401.54	689.1	---	108.09
	FEBRUARY			MARCH			APRIL		
1	7.2	140	2.7	13	36	1.3	38	189	19
2	8.7	145	3.4	19	49	2.5	25	160	11
3	6.3	128	2.2	24	58	3.8	15	133	5.4
4	5.8	112	1.8	30	30	2.4	12	113	3.7
5	5.9	104	1.7	36	38	3.7	15	108	4.4
6	6.2	95	1.6	37	38	3.8	20	95	5.1
7	6.1	91	1.5	37	35	3.5	24	85	5.5
8	4.8	88	1.1	40	58	6.3	22	75	4.5
9	4.0	82	.89	54	138	20	21	69	3.9
10	8.4	91	2.1	53	110	16	21	65	3.7
11	57	161	25	51	85	12	22	63	3.7
12	59	90	14	48	65	8.4	22	58	3.4
13	50	30	4.1	45	50	6.1	20	51	2.8
14	39	18	1.9	45	19	2.3	33	109	9.7
15	30	15	1.2	43	18	2.1	57	119	18
16	22	13	.77	39	17	1.8	46	99	12
17	22	20	1.2	36	14	1.4	34	82	7.5
18	38	52	5.3	32	19	1.6	23	66	4.1
19	49	55	7.3	34	72	6.6	13	53	1.9
20	52	40	5.6	31	60	5.0	7.6	41	.84
21	45	25	3.0	29	47	3.7	3.6	32	.31
22	34	18	1.7	34	89	8.2	3.3	28	.25
23	28	60	4.5	35	117	11	9.7	134	10
24	53	466	69	30	100	8.1	67	1070	194
25	39	225	24	23	84	5.2	45	760	92
26	24	90	5.8	16	71	3.1	28	440	33
27	12	50	1.6	9.7	60	1.6	145	837	342
28	7.9	30	.64	9.6	45	1.2	208	600	337
29	---	---	---	7.7	30	.62	154	300	125
30	---	---	---	5.5	23	.34	122	429	156
31	---	---	---	33	168	15	---	---	---
TOTAL	724.3	---	195.60	979.5	---	168.66	1276.2	---	1419.70

Table 10.--Analyses of stream-bottom material samples at streamflow monitoring stations in the Reelfoot Lake area

[in micrograms per kilogram, except as noted]

Station	Date	Time	Streamflow (ft ³ /s)	Specific conductance (µS/cm at 25°C)	Temperature (deg C)	Aldrin	Chlordane	DDD	DDE	DDT	Dieldrin	Endosulfan	Endrin	Heptachlor	Heptachlor epoxide	Lindane	Methoxychlor	Mirex	Pertane	PCB	PCH					
North Reelfoot Cr. at Highway 72, near Clayton, Tenn. (07026370)	5/30/84	1630	21	225	19.0	<.1	<.1	<.1	.4	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1				
			27	280	16.5	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1			
			38	380	--	<.1	<.1	<.1	12	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1		
South Reelfoot Cr. near Clayton, Tenn. (07026400)	5/31/84	1310																								
Running Slough near Ledford, Ky. (07026640)	5/30/84	1445																								

Table 11.--Daily rainfall accumulation at rainfall station 07026690 Reelfoot Lake near Phillippy, Tenn.

LOCATION.--Lat 36°27'59", long 89°20'56", Lake County, Hydrologic Unit 08010202, 1.85 miles southeast of Phillippy and 3.0 miles northeast of New Markham.

Accumulated rainfall, in inches, May 1984 to April 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	.00	.00	.00	.00	.00	.00	.73	.00	.09	.06	.11	.00
2	.62	.00	.00	.00	.00	.00	.00	.01	.01	.03	.01	.00
3	.28	.00	.00	.32	.31	.00	.00	.00	.01	.09	.00	.01
4	.03	.00	.43	.12	.00	.00	.06	.04	.01	.03	.33	.00
5	.15	.00	.13	.00	.00	.01	.00	.24	.14	.15	.00	.36
6	2.47	.04	.01	.00	.00	3.68	.00	.03	.00	.01	.00	.00
7	1.63	.03	.00	.00	.00	.20	.00	.03	.00	.05	.00	.00
8	.02	.01	.01	.00	.00	.01	.08	.00	.00	.07	.76	.00
9	.01	.00	.00	.00	1.66	.01	.05	.02	.00	.00	.00	.00
10	.00	.00	.00	.00	.01	.49	.08	.00	.09	.75	.06	.01
11	.00	.00	.00	.00	.49	.03	.00	.00	.00	.12	.00	.01
12	.00	.00	.00	.00	.00	.00	.00	.06	.01	.09	.00	.01
13	.02	.00	.00	.00	.00	.29	.00	.20	.00	.00	.23	.04
14	.00	.00	.00	.00	.03	.02	.00	.19	.01	.00	.04	1.49
15	.00	.00	.25	.00	.00	.19	.31	.00	.00	.05	.00	.01
16	.00	.00	.02	.00	.00	1.32	.00	.00	.32	.01	.00	.00
17	.00	.00	.21	.00	.00	.01	.32	.87	.00	.03	.00	.01
18	.00	.00	.00	.00	.01	.05	1.29	.88	.02	.22	.00	.00
19	.00	.17	.00	.00	.00	.71	.00	.09	.00	.02	.00	.00
20	.00	.63	.00	.00	.00	1.25	.00	1.37	.29	.01	.03	.00
21	.21	.08	.00	.00	.00	.08	.02	.93	.05	.00	.33	.00
22	.05	.23	.00	.06	.00	.07	.02	.00	.00	.07	.18	.12
23	.19	.48	.00	.01	1.01	.33	.00	.00	.00	.82	.02	.86
24	.03	.00	.00	.00	.17	.01	.00	.36	.00	.00	.00	.01
25	.00	.00	.00	.00	.47	.03	.00	.33	.00	.00	.00	.00
26	.05	.00	.04	.00	.00	.01	.00	.00	.01	.00	.00	.64
27	1.01	.00	.02	.00	.00	.00	1.62	.00	.22	.00	.16	1.36
28	.00	.03	.00	.23	.00	.25	.00	.01	.02	.00	.00	.03
29	.00	.20	.00	.00	.00	.00	.00	.00	.09	---	.00	.00
30	.00	.01	.00	.02	.00	.12	.00	1.64	.65	---	.78	.39
31	.01	---	.37	.00	---	.05	---	.62	.07	---	.02	---
TOTAL	6.78	1.91	1.49	.76	4.16	9.22	4.58	7.92	2.11	2.68	3.06	5.36

Table 12.--Daily rainfall accumulation at rainfall station 362148089255600 Blue Bank rain gage at Blue Bank, Tenn.

LOCATION.--Lat 36°21'48", long 89°25'56", Lake County, Hydrologic Unit 08010202, at State Park Museum in Reelfoot Lake State Park, at Blue Bank, 1.2 miles west of the spillway and 2.9 miles southeast of Tiptonville.

Accumulated rainfall, in inches, May 1984 to April 1985												
DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	.00	.00	.00	.00	.00	.00	.00	.00	.12	.00	.10	.00
2	.40	.00	.00	.00	.00	.00	.00	.03	.00	.00	.01	.00
3	.57	.00	.00	.88	.31	.00	.00	.00	.04	.04	.00	.00
4	.00	.00	.43	.06	.00	.00	.02	.02	.00	.01	.27	.00
5	.24	.00	.13	.00	.00	.10	.00	.32	.08	.17	.00	.37
6	1.87	.05	.00	.11	.00	4.06	.00	.10	.00	.01	.00	.01
7	1.62	.03	.00	.01	.00	.10	.00	.00	.00	.00	.01	.00
8	.00	.00	.00	.11	.00	.00	.07	.00	.00	.01	.45	.00
9	.00	.00	.00	.00	1.94	.02	.06	.02	.00	.00	.01	.00
10	.00	.00	.00	.00	.00	.18	.22	.00	.11	.68	.15	.00
11	.00	.00	.00	.00	.71	.00	.00	.00	.05	.14	.01	.04
12	.00	.00	.00	.00	.00	.40	.00	.02	.00	.13	.00	.02
13	.00	.00	.00	.00	.00	.20	.00	.28	.00	.01	.24	.00
14	.00	.00	.00	.00	.00	.00	.00	.07	.00	.00	.00	1.29
15	.00	.00	.10	.28	.00	.40	.30	.00	.01	.01	.00	.01
16	.00	.00	.01	.00	.00	1.20	.00	.00	.30	.02	.00	.00
17	.00	.00	.02	.00	.00	.00	.33	.59	.02	.04	.00	.01
18	.00	.00	.00	.00	.07	.00	1.28	.86	.01	.24	.00	.00
19	.00	.17	.00	.00	.00	1.00	.00	.08	.00	.03	.00	.00
20	.00	.63	.00	.00	.00	1.20	.00	.96	.02	.01	.00	.00
21	.00	.08	.00	.00	.00	.10	.00	.60	.00	.00	.57	.00
22	.00	.23	.00	.60	.01	.10	.00	.00	.01	.00	.17	.19
23	.00	.48	.00	.00	.74	.40	.01	.00	.00	.88	.05	.78
24	.00	.00	.00	.00	.15	.10	.00	.22	.00	.00	.02	.02
25	.00	.00	.00	.00	.48	.00	.00	.01	.00	.00	.00	.01
26	.27	.00	.00	.00	.00	.00	.02	.00	.01	.00	.00	.64
27	2.73	.00	.00	.00	.00	.00	1.65	.00	.21	.00	.17	.66
28	.02	.03	.00	.00	.00	.30	.00	.02	.03	.00	.01	.02
29	.00	.20	.00	.00	.00	.00	.00	.00	.01	---	.00	.01
30	.00	.00	.00	.27	.00	.00	.00	1.78	.52	---	.83	.25
31	.00	---	.00	.00	---	.10	---	.52	.00	---	.02	---
TOTAL	7.72	1.90	.69	2.32	4.41	9.96	3.96	6.50	1.55	2.43	3.09	4.33

Table 13.--Midnight lake stages for lake-stage station 07026690 Reelfoot Lake near Phillippy, Tenn.

LOCATION.--Lat 36°27'59", long 89°20'56", Lake County, Hydrologic Unit 08010202, 1.85 miles southeast of Phillippy, and 3.0 miles northeast of New Markham.

DRAINAGE AREA.--240 mi².

Midnight lake stage, in feet, May 1984 to May 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	12.49	12.11	11.52	10.75	---	---	11.93	12.04	13.36	11.81	12.04	12.33
2	12.47	12.07	11.50	10.73	---	---	11.88	12.02	13.27	11.92	11.95	12.29
3	12.51	12.01	11.51	10.66	---	10.05	11.91	12.01	13.27	11.93	11.91	12.26
4	12.52	11.98	11.53	10.62	---	10.04	11.90	11.96	13.20	11.96	11.90	12.31
5	12.49	11.95	11.51	10.54	---	---	11.84	11.98	13.10	12.00	11.84	12.31
6	12.85	11.93	11.49	10.51	---	---	11.82	12.00	13.02	12.01	11.79	12.23
7	13.55	11.90	11.44	10.50	---	---	11.83	12.04	12.93	12.04	11.82	12.17
8	13.85	11.88	11.45	10.49	---	---	11.84	12.02	12.89	12.05	11.86	12.12
9	13.79	11.85	11.44	10.47	---	11.19	11.90	12.04	12.87	12.06	11.98	12.08
10	13.68	11.82	11.44	10.47	---	11.19	11.87	12.01	12.82	12.18	12.06	12.08
11	13.58	11.79	11.39	10.47	---	11.19	11.80	12.03	12.70	12.51	12.12	12.05
12	13.46	11.77	11.36	10.47	---	11.19	11.79	12.07	12.62	12.58	12.08	12.02
13	13.35	11.75	11.34	10.46	---	11.19	11.79	12.08	12.54	12.53	12.10	12.00
14	13.22	11.75	11.33	---	---	11.18	11.83	12.07	12.44	12.44	12.12	12.11
15	13.11	11.73	11.34	---	---	11.21	11.82	12.05	12.33	12.33	12.12	12.14
16	12.98	11.73	11.29	---	---	11.33	11.79	12.07	12.24	12.29	12.11	12.13
17	12.85	11.73	11.22	---	---	11.34	11.82	12.12	12.16	12.29	12.06	12.12
18	12.74	11.70	11.12	---	---	11.43	11.98	12.42	12.10	12.41	12.07	12.11
19	12.63	11.65	11.03	---	---	11.49	12.14	12.60	12.08	12.51	12.08	12.08
20	12.51	11.66	10.98	---	---	11.66	12.12	12.68	12.07	12.52	12.04	12.04
21	12.44	11.64	10.95	---	---	11.77	12.07	13.08	11.95	12.49	12.00	12.00
22	12.36	11.66	10.94	---	---	11.80	12.03	13.11	11.91	12.43	12.04	12.01
23	12.26	11.69	10.93	---	---	11.81	11.98	13.05	11.85	12.49	12.08	12.08
24	12.16	11.62	10.90	---	---	11.82	11.93	12.98	11.83	12.52	12.03	12.09
25	12.11	11.62	10.90	---	---	11.82	11.89	12.96	11.79	12.43	12.00	12.08
26	12.06	11.61	10.89	---	---	11.81	11.91	12.93	11.74	12.32	12.02	12.12
27	12.25	11.60	10.80	---	---	11.83	12.03	12.88	11.73	12.20	12.11	12.34
28	12.33	11.57	10.80	---	---	11.83	12.11	12.89	11.70	12.11	12.16	12.54
29	12.28	11.57	10.75	---	---	11.83	12.12	12.89	11.70	---	12.09	12.55
30	12.21	11.52	10.75	---	---	11.85	12.07	13.18	11.78	---	12.12	12.54
31	12.16	---	10.75	---	---	11.88	---	13.38	11.80	---	12.36	---
MEAN	12.75	11.76	11.18	---	---	---	11.92	12.44	12.38	12.26	12.03	12.18
MAX	13.85	12.11	11.53	---	---	---	12.14	13.38	13.36	12.58	12.36	12.55
MIN	12.06	11.52	10.75	---	---	---	11.79	11.96	11.70	11.81	11.79	12.00

NOTE.--There is no midnight lake stage record for August 12 through October 2.

Table 14.--Midnight lake stages for lake-stage station 07027000 Reelfoot Lake near Tiptonville, Tenn.

LOCATION.--Lat 36°21'09", long 89°25'07", Lake County, Hydrologic Unit 08010202, at Middle Landing in Reelfoot Lake State Park, 0.4 mile east of Blue Bank, 0.8 mile west of the spillway, and 3.3 miles southeast of Tiptonville.

DRAINAGE AREA.--240 mi².

Midnight lake stage, in feet, May 1984 to April 1985

DAY	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	12.36	12.23	11.76	10.96	10.36	10.27	12.28	12.21	13.53	11.92	12.07	12.37
2	12.38	12.20	11.73	10.89	10.34	10.24	12.20	12.24	13.54	12.04	11.99	12.34
3	12.48	12.21	11.68	10.80	10.37	10.23	12.12	12.20	13.48	12.05	11.85	12.31
4	12.45	12.14	11.70	10.70	10.34	10.23	12.11	12.22	13.32	12.08	11.87	12.16
5	12.47	12.08	11.71	10.64	10.32	10.23	12.12	12.22	13.24	12.12	11.93	12.28
6	12.61	12.04	11.70	10.65	10.29	10.81	12.06	12.18	13.06	12.13	11.91	12.31
7	13.09	12.03	11.71	10.64	10.24	10.89	12.01	12.14	13.09	12.16	11.88	12.32
8	13.43	12.00	11.68	10.62	10.20	10.99	12.01	12.18	13.12	12.17	12.03	12.30
9	13.51	11.99	11.64	10.61	10.36	11.09	11.99	12.14	13.10	12.18	12.07	12.26
10	13.48	11.98	11.60	10.60	10.36	11.21	12.00	12.21	13.04	12.31	12.15	12.21
11	13.40	11.98	11.59	10.61	10.42	11.25	12.07	12.18	12.90	12.41	12.31	12.19
12	13.40	11.97	11.60	10.61	10.42	11.32	12.06	12.18	12.76	12.71	12.26	12.17
13	13.34	11.96	11.58	10.60	10.42	11.37	12.04	12.23	12.56	12.66	12.31	12.16
14	13.28	11.95	11.54	10.58	10.46	11.38	12.00	12.25	12.54	12.57	12.33	12.27
15	13.16	11.94	11.52	10.59	10.41	11.39	12.08	12.19	12.48	12.46	12.34	12.28
16	13.04	11.90	11.45	10.58	10.39	11.50	12.08	12.17	12.30	12.42	12.35	12.28
17	12.92	11.87	11.33	10.56	10.36	11.53	12.12	12.30	12.19	12.43	12.30	12.27
18	12.79	11.86	11.23	10.54	10.35	11.51	12.31	12.42	12.16	12.52	12.23	12.22
19	12.66	11.86	11.18	10.54	10.33	11.67	12.35	12.57	12.24	12.53	12.20	12.19
20	12.51	11.86	11.18	10.52	10.32	11.81	12.32	12.72	12.17	12.50	12.20	12.17
21	12.42	11.86	11.18	10.49	10.30	11.95	12.27	12.88	12.05	12.46	12.29	12.15
22	12.29	11.84	11.18	10.53	10.27	12.03	12.22	13.07	12.01	12.38	12.24	12.10
23	12.22	11.86	11.12	10.51	10.32	12.08	12.17	13.11	11.95	12.38	12.21	12.17
24	12.20	11.87	11.11	10.51	10.32	12.06	12.14	13.26	11.95	12.43	12.26	12.20
25	12.16	11.85	11.10	10.47	10.43	12.04	12.07	13.13	11.93	12.39	12.19	12.22
26	12.24	11.81	11.06	10.45	10.36	12.05	11.96	13.08	11.90	12.37	12.14	12.25
27	12.42	11.79	11.04	10.41	10.35	12.03	12.13	13.04	11.88	12.27	12.03	12.34
28	12.48	11.79	11.03	10.38	10.34	12.13	12.16	12.98	11.88	12.15	12.06	12.43
29	12.40	11.80	11.02	10.36	10.33	12.11	12.20	12.96	11.90	---	12.17	12.45
30	12.36	11.79	10.98	10.36	10.30	12.13	12.21	13.28	11.98	---	12.26	12.47
31	12.32	---	10.96	10.37	---	12.12	---	13.26	11.91	---	12.26	---
MEAN	12.72	11.94	11.38	10.57	10.35	11.41	12.13	12.55	12.52	12.33	12.15	12.26
MAX	13.51	12.23	11.76	10.96	10.46	12.13	12.35	13.28	13.54	12.71	12.35	12.47
MIN	12.16	11.79	10.96	10.36	10.20	10.23	11.96	12.14	11.88	11.92	11.85	12.10

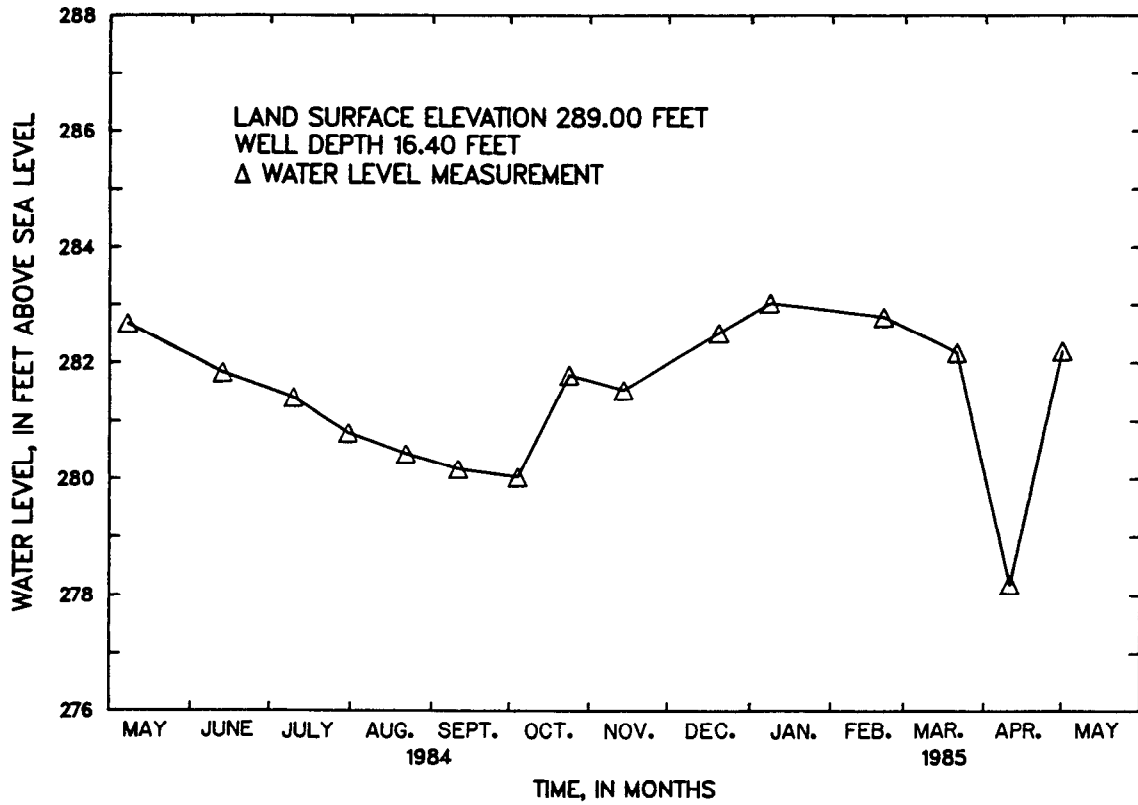


Figure 2.-- Hydrograph of well RF:1.

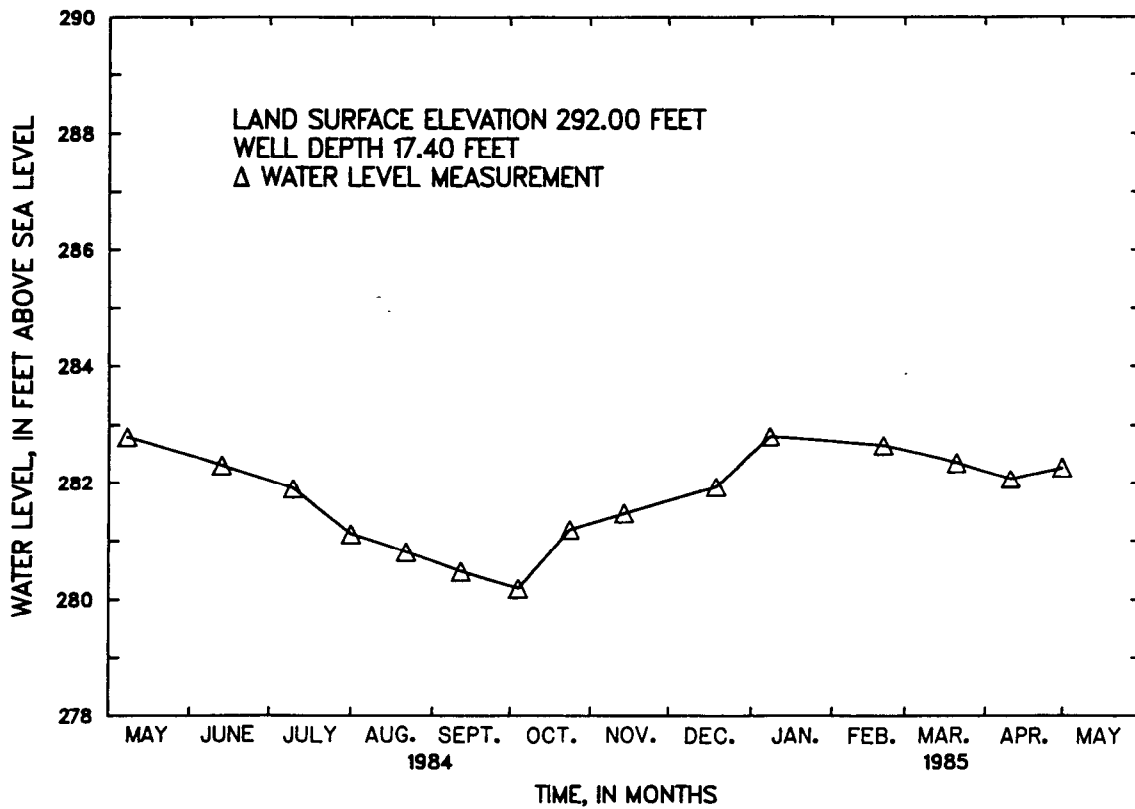


Figure 3.-- Hydrograph of well RF:2.

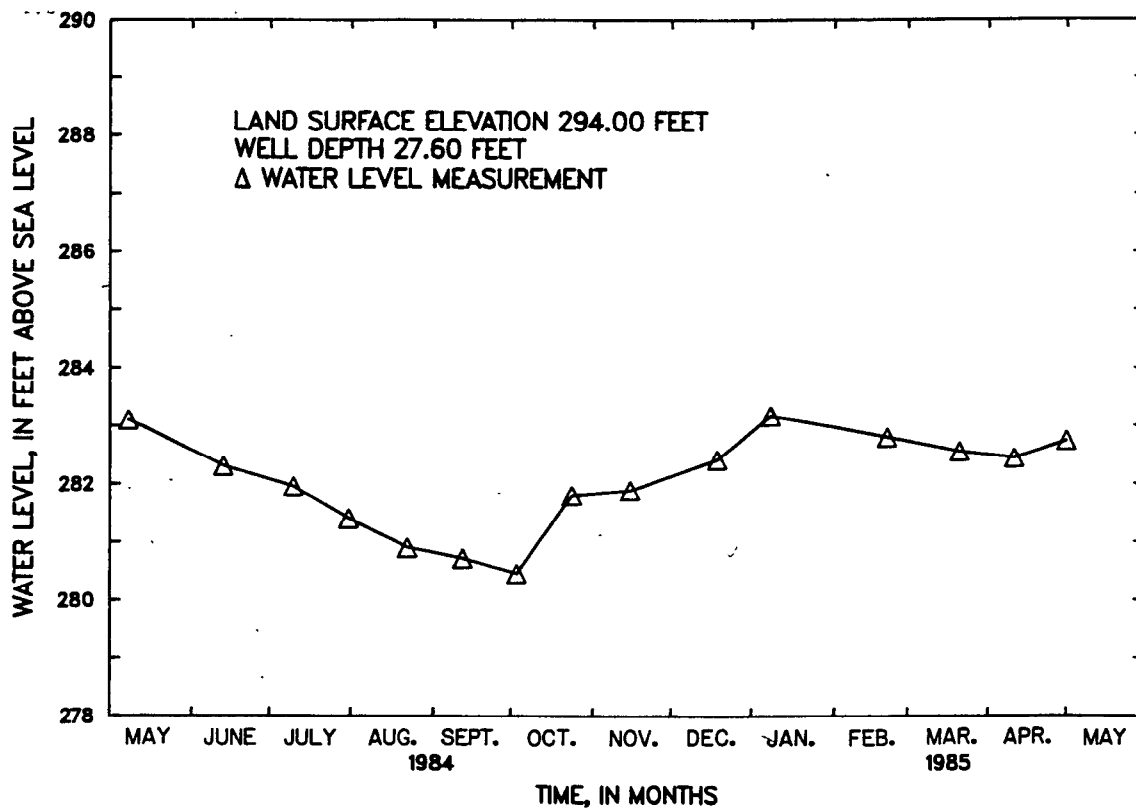


Figure 4.-- Hydrograph of well RF:5.

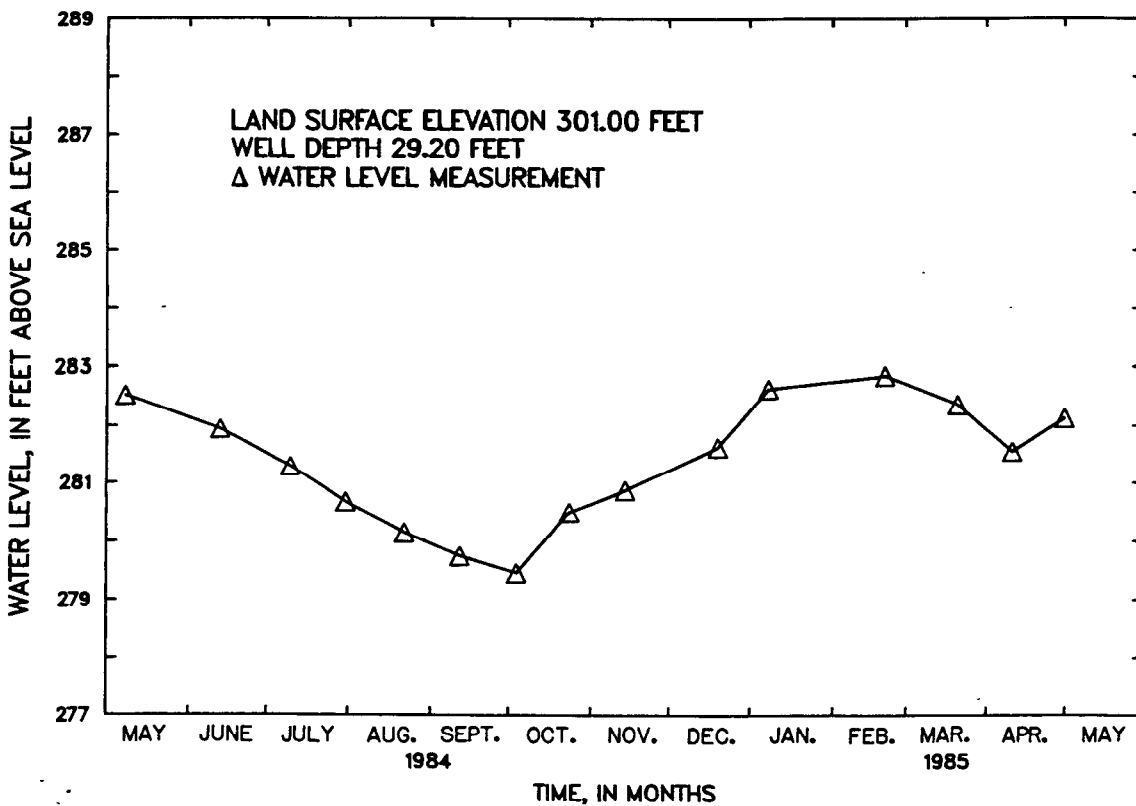


Figure 5.-- Hydrograph of well RF:7.

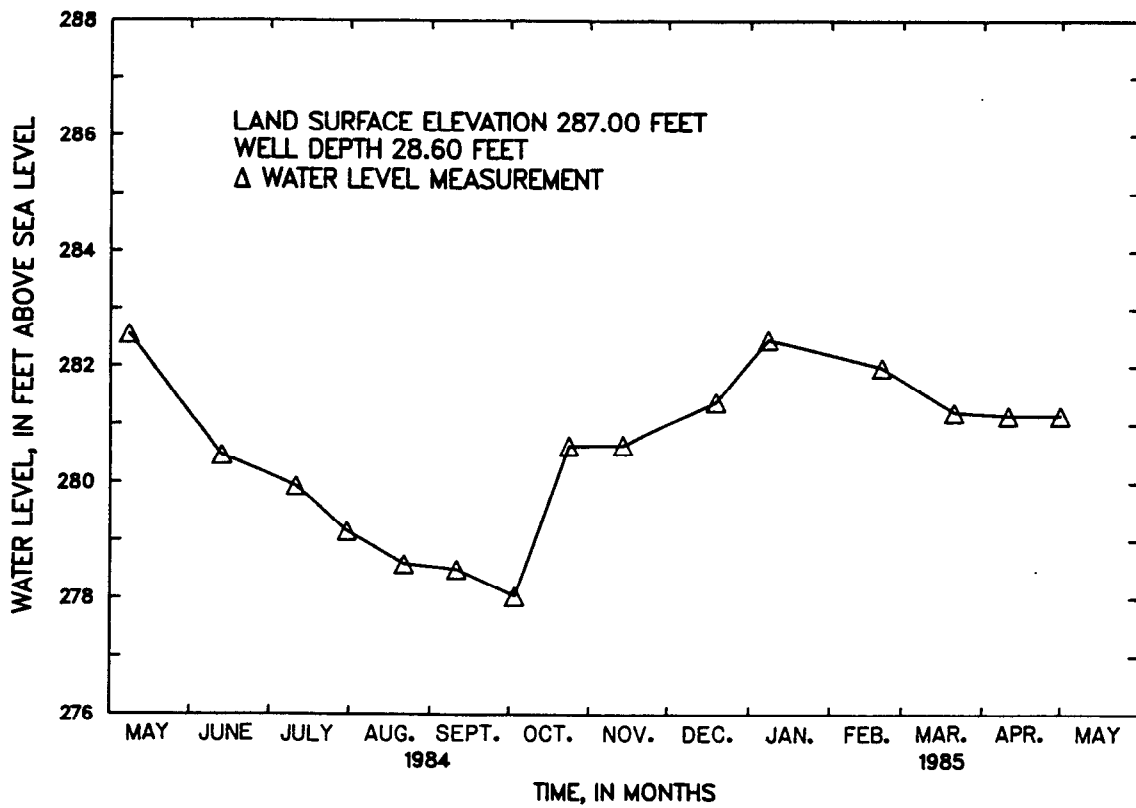


Figure 6.-- Hydrograph of well RF:8.

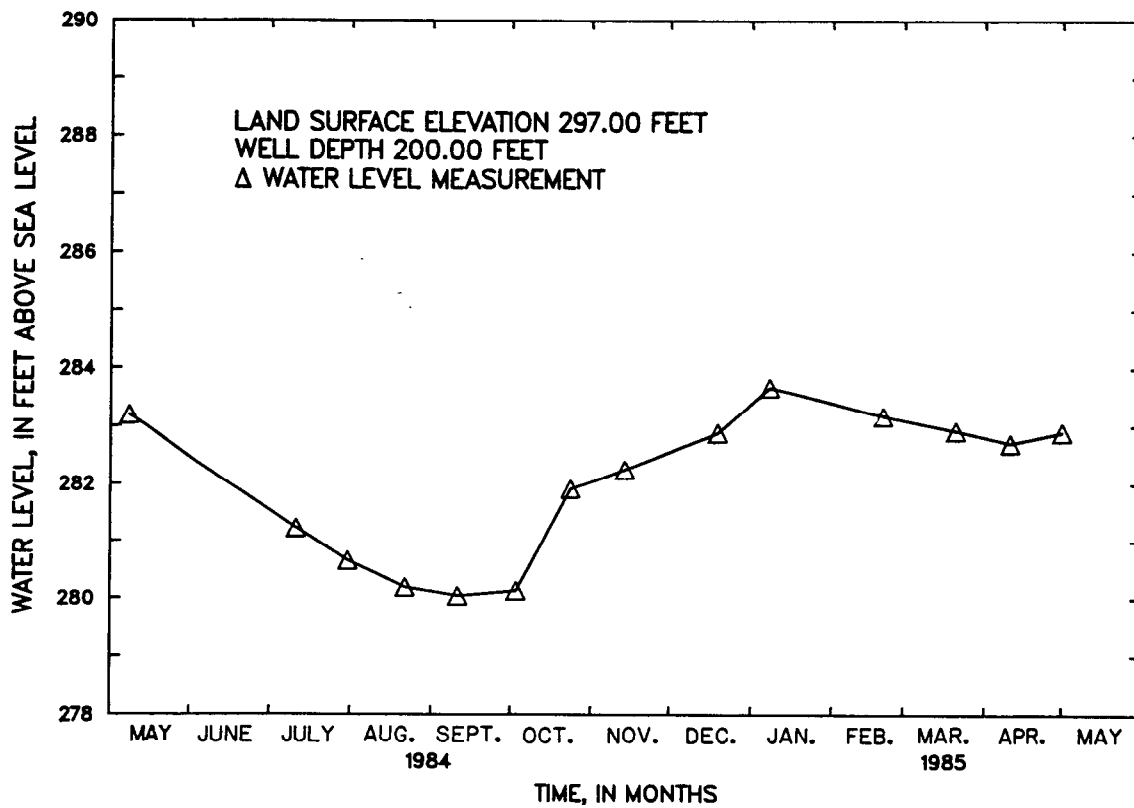


Figure 7.-- Hydrograph of well RF:9.

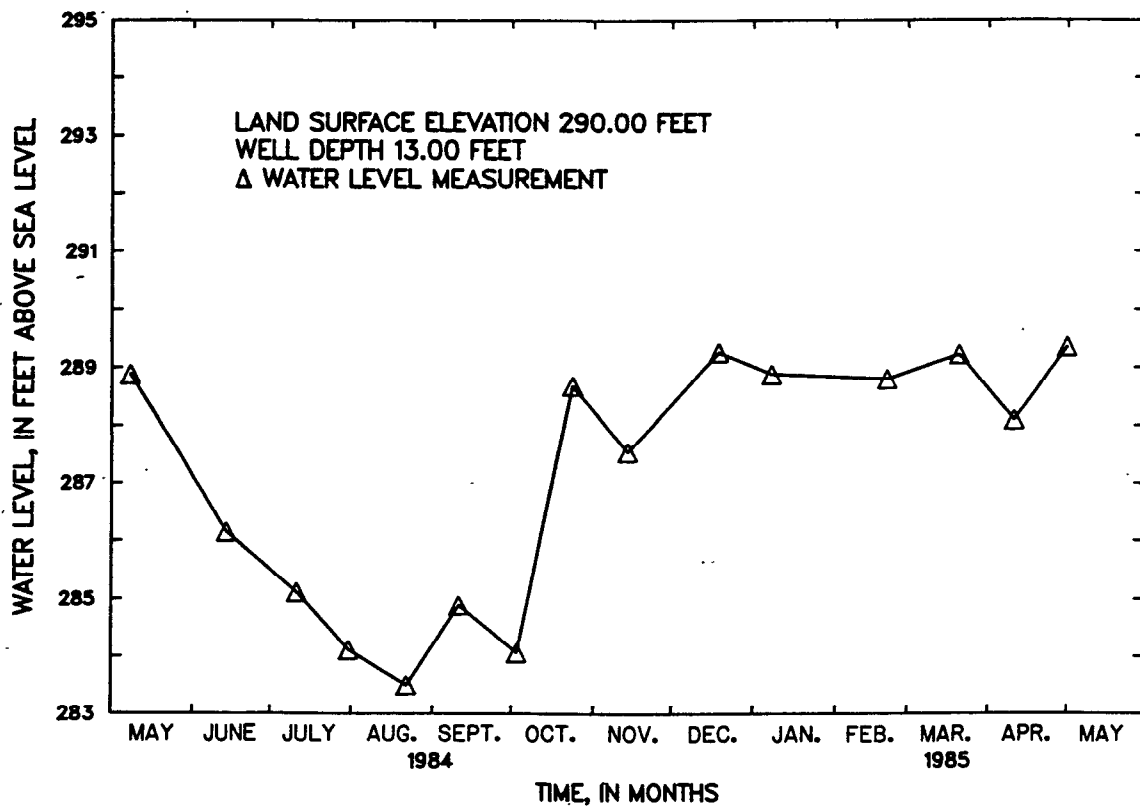


Figure 8.— Hydrograph of well RF:10.

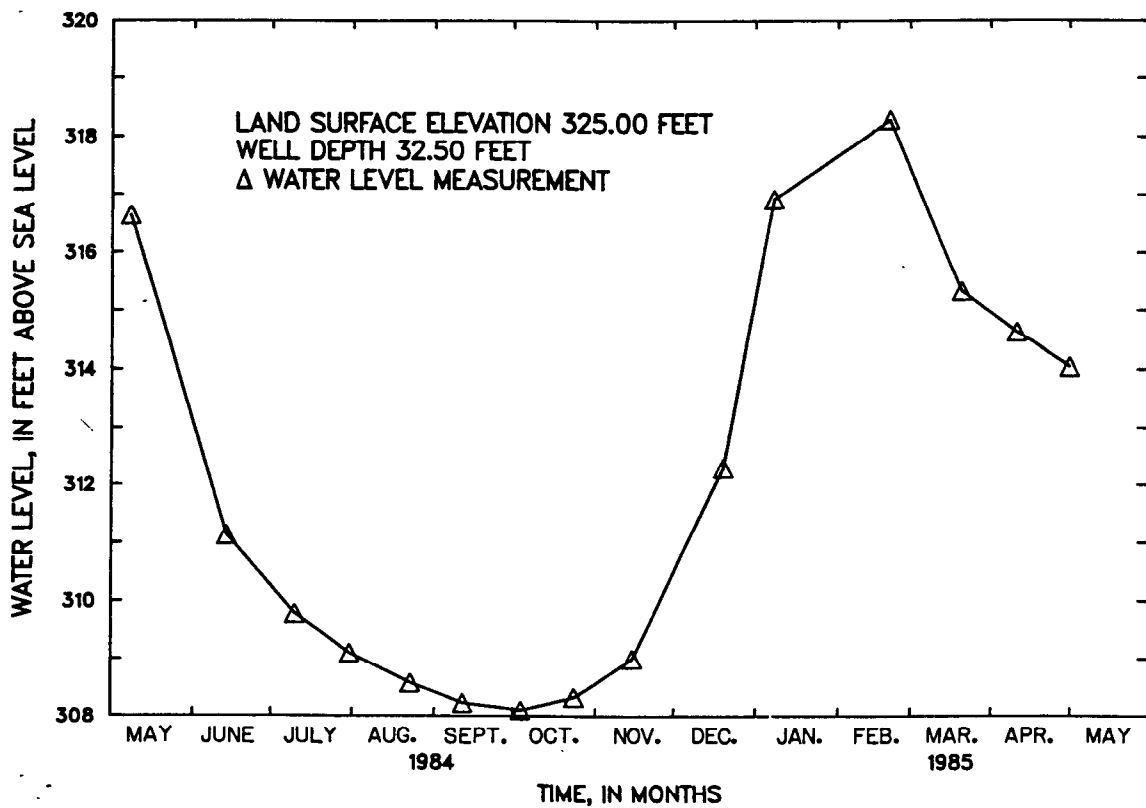


Figure 9.— Hydrograph of well RF:11.

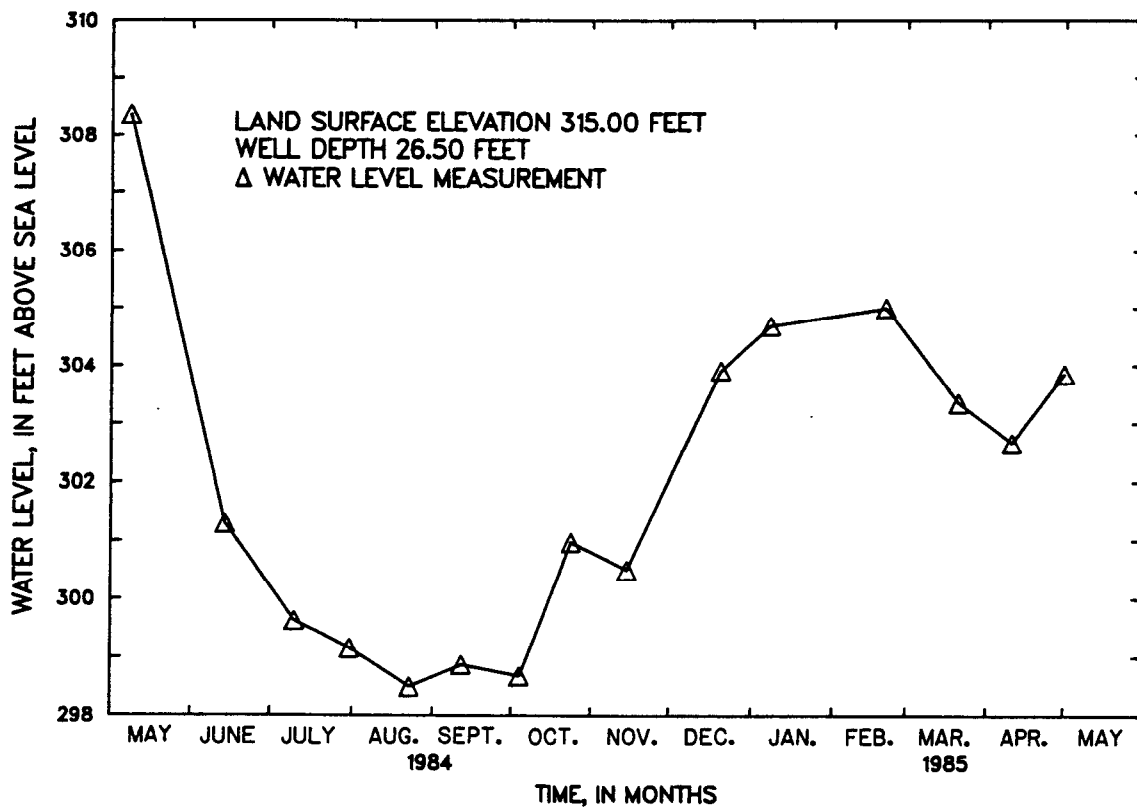


Figure 10.-- Hydrograph of well RF:12.

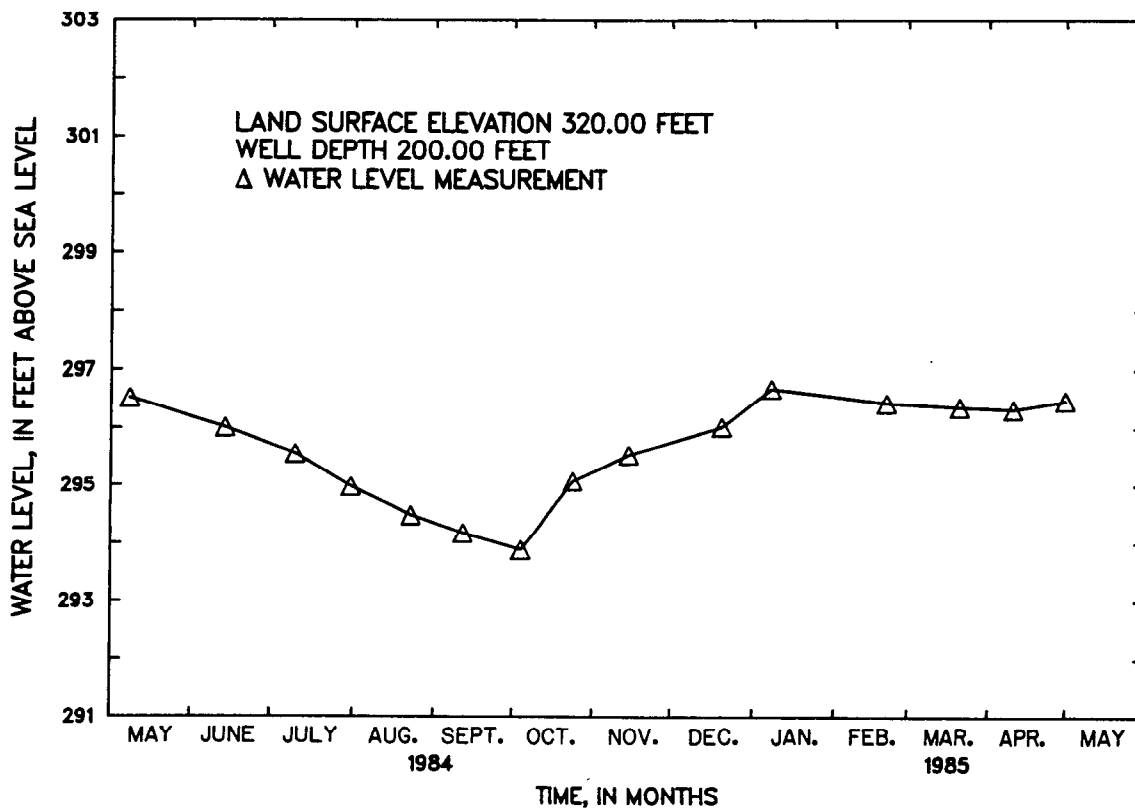


Figure 11.-- Hydrograph of well RF:15.

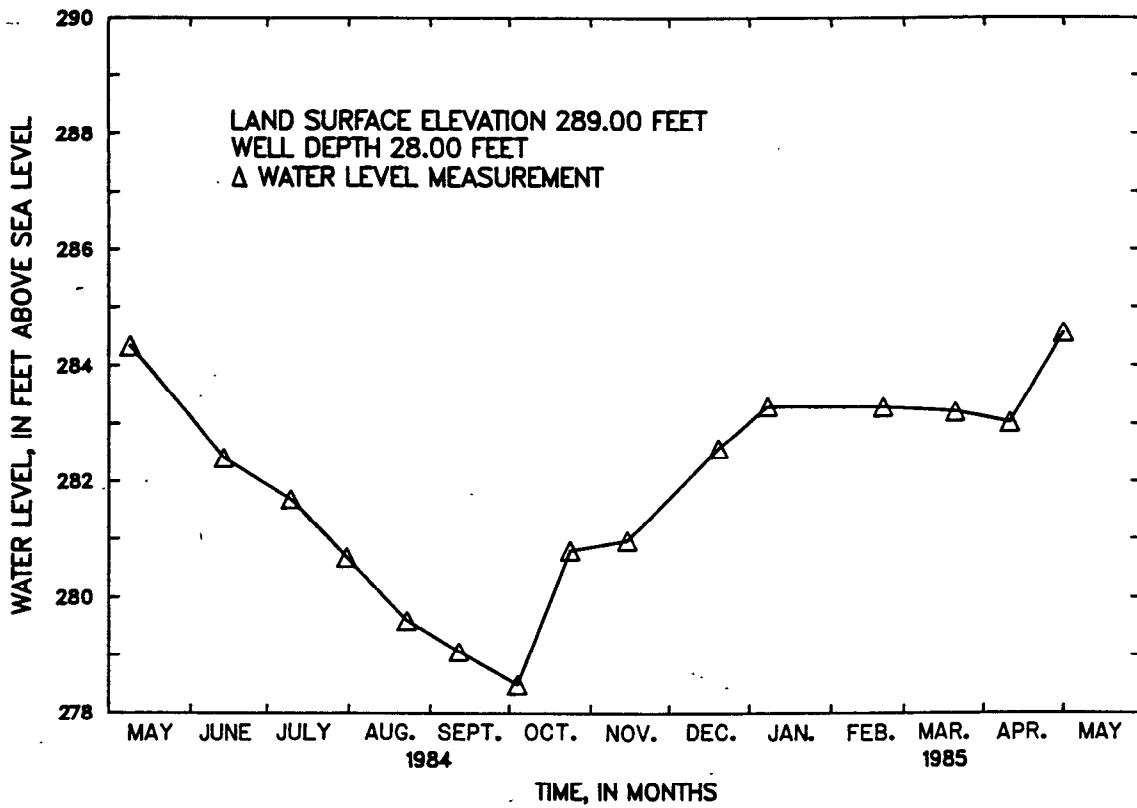


Figure 12.— Hydrograph of well RF:17.

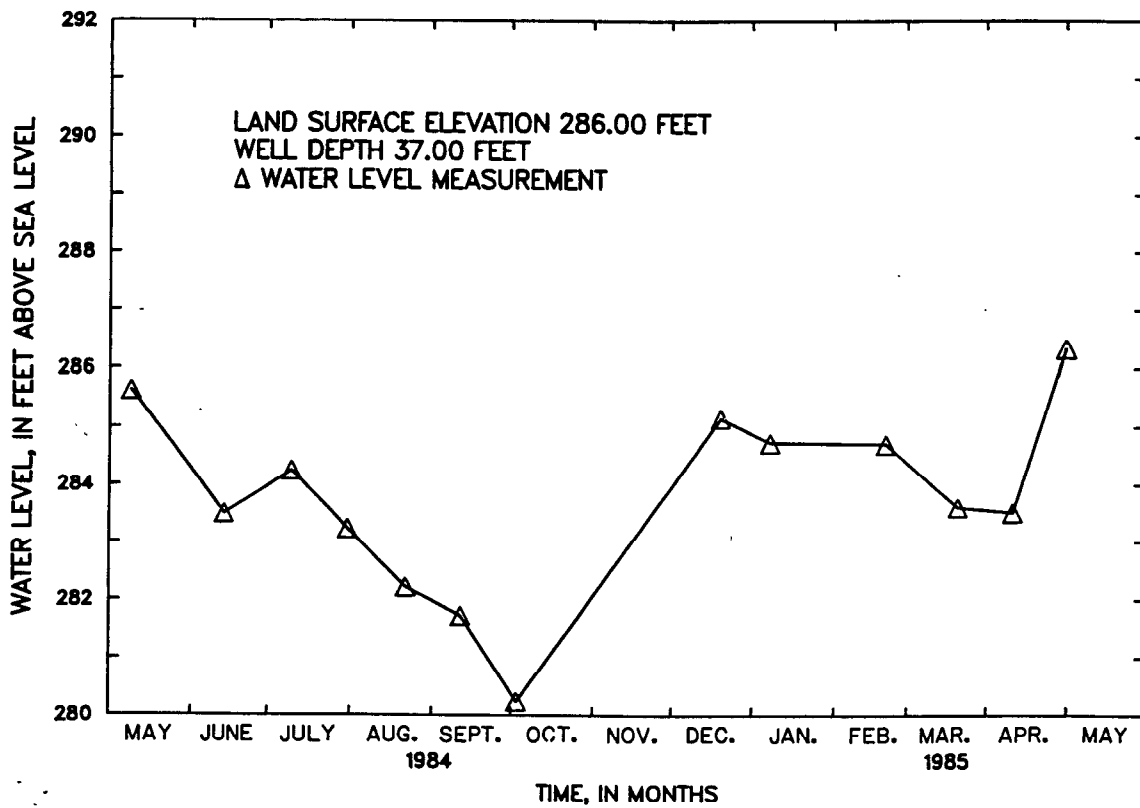


Figure 13.— Hydrograph of well RF:18.

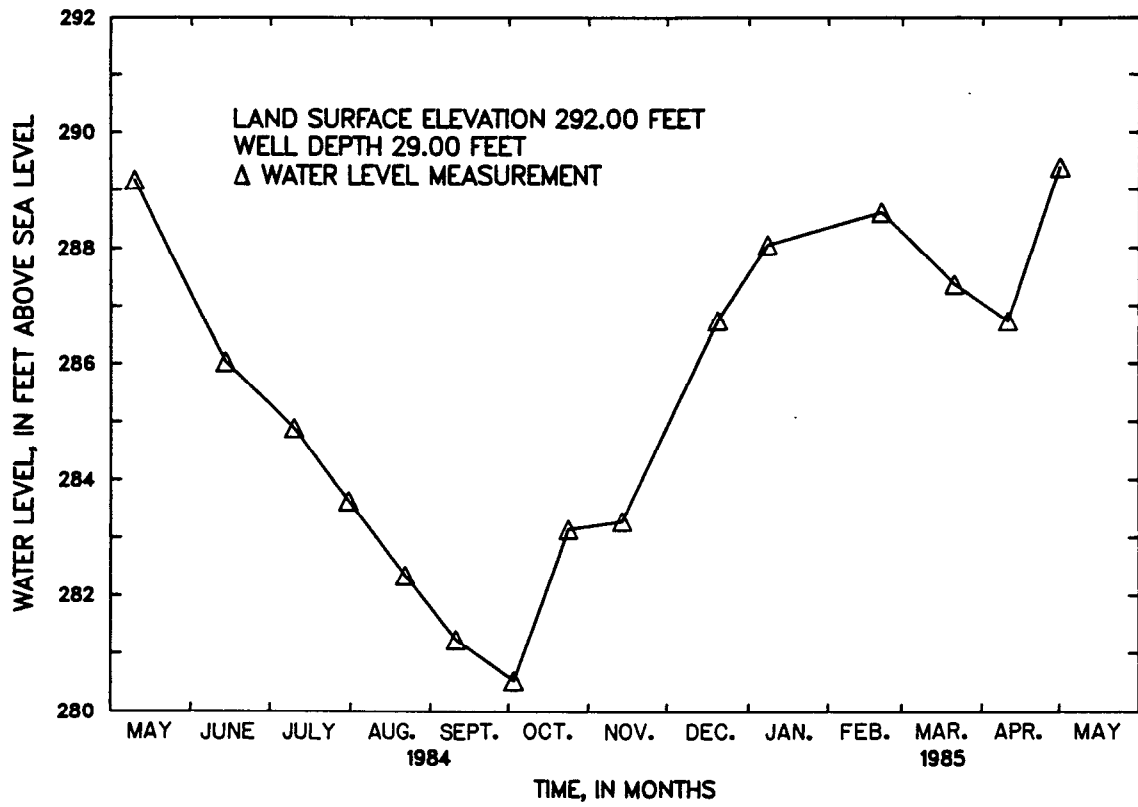


Figure 14.-- Hydrograph of well RF:19.

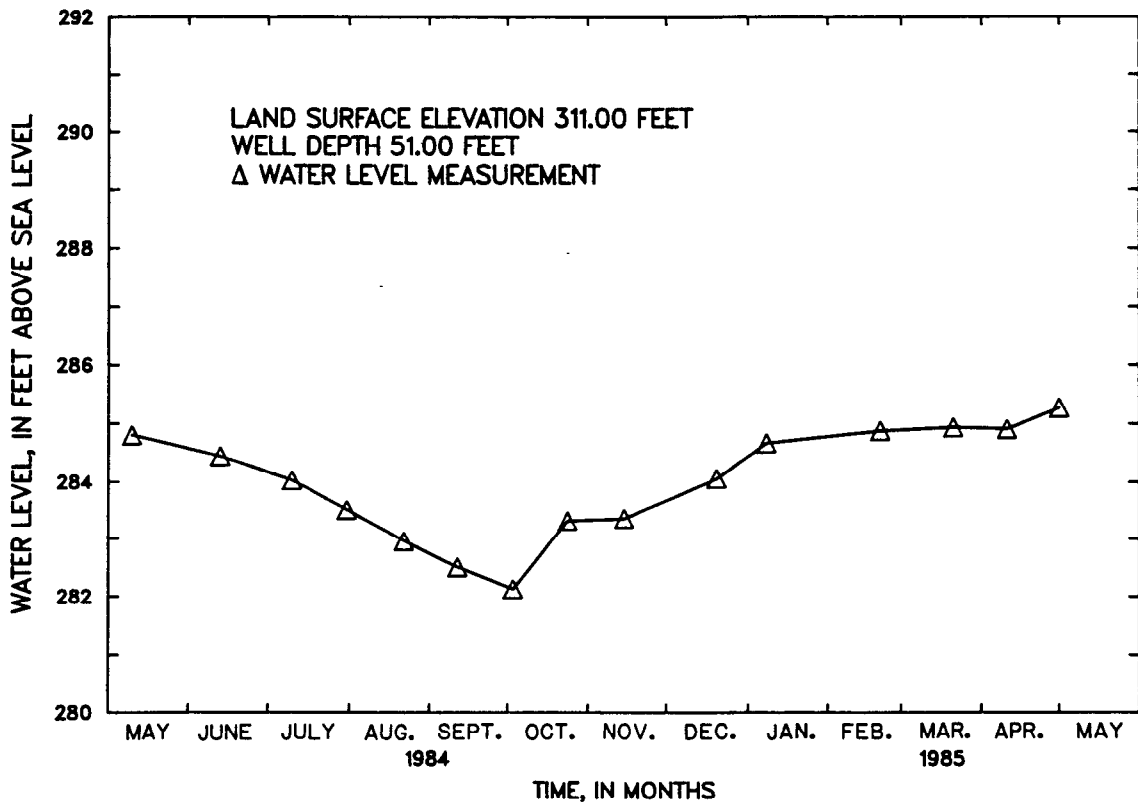


Figure 15.-- Hydrograph of well RF:21.

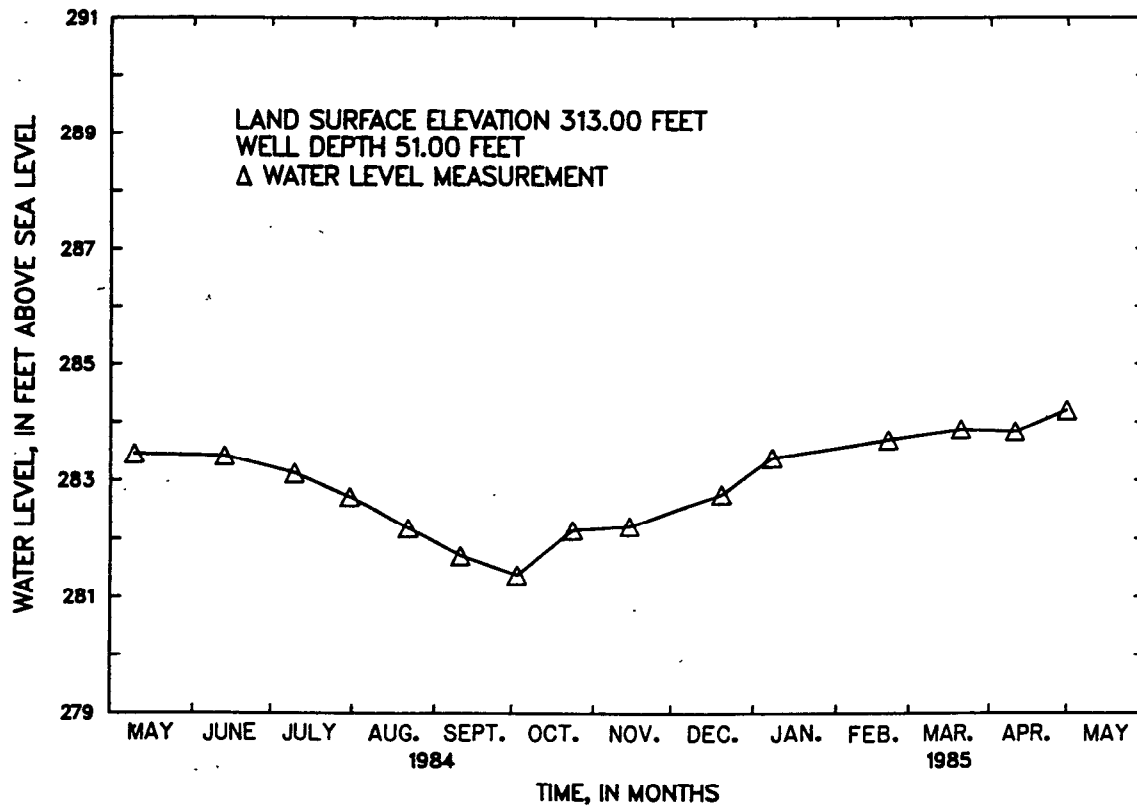


Figure 16.-- Hydrograph of well RF:22.

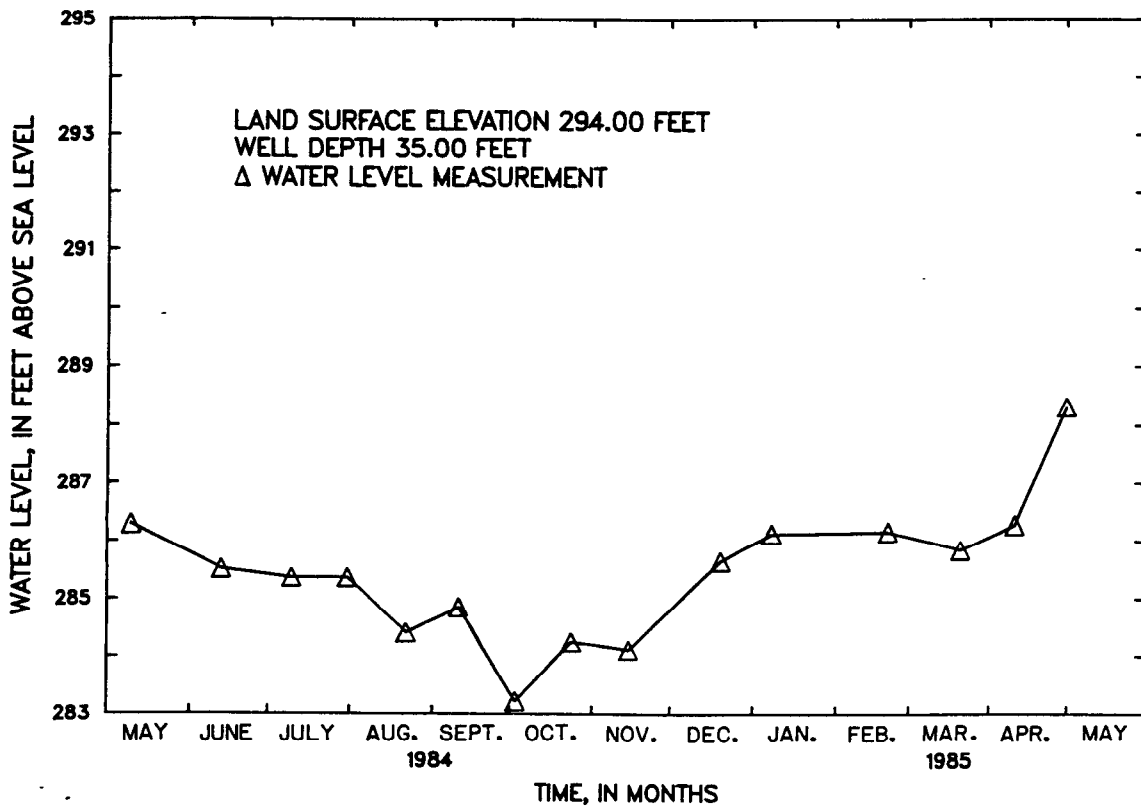


Figure 17.-- Hydrograph of well RF:23.

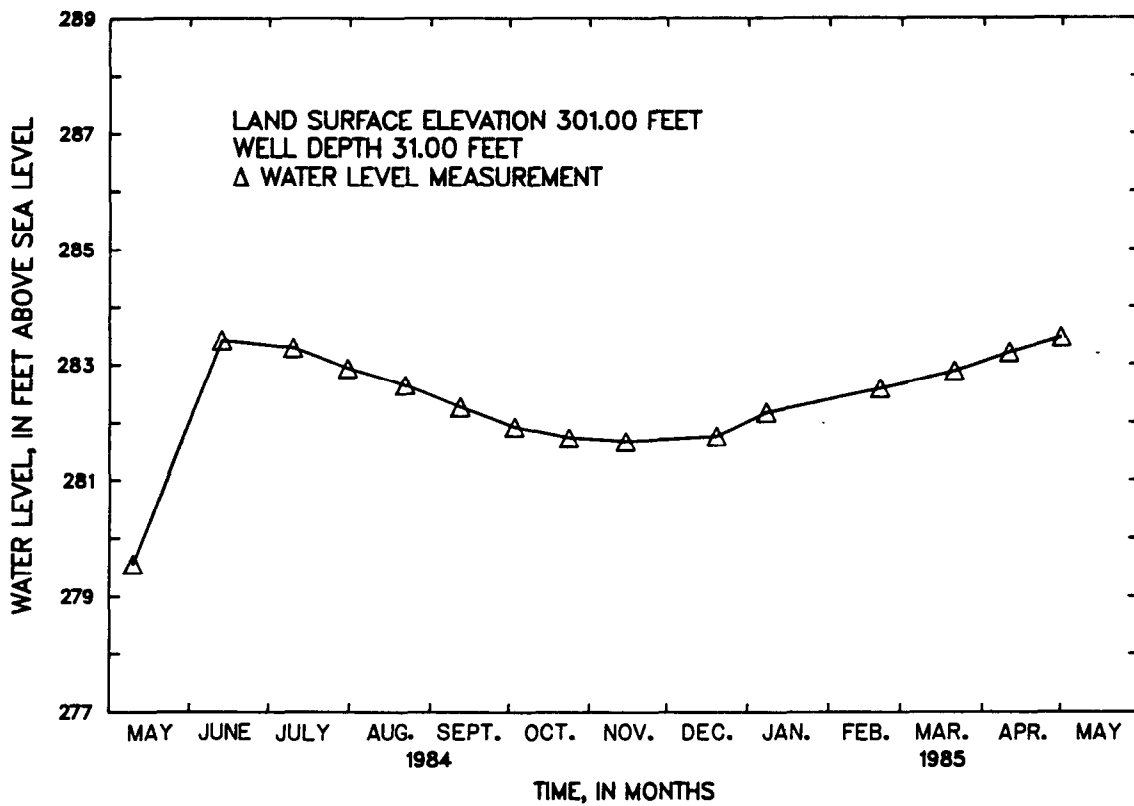


Figure 18.-- Hydrograph of well RF:24.

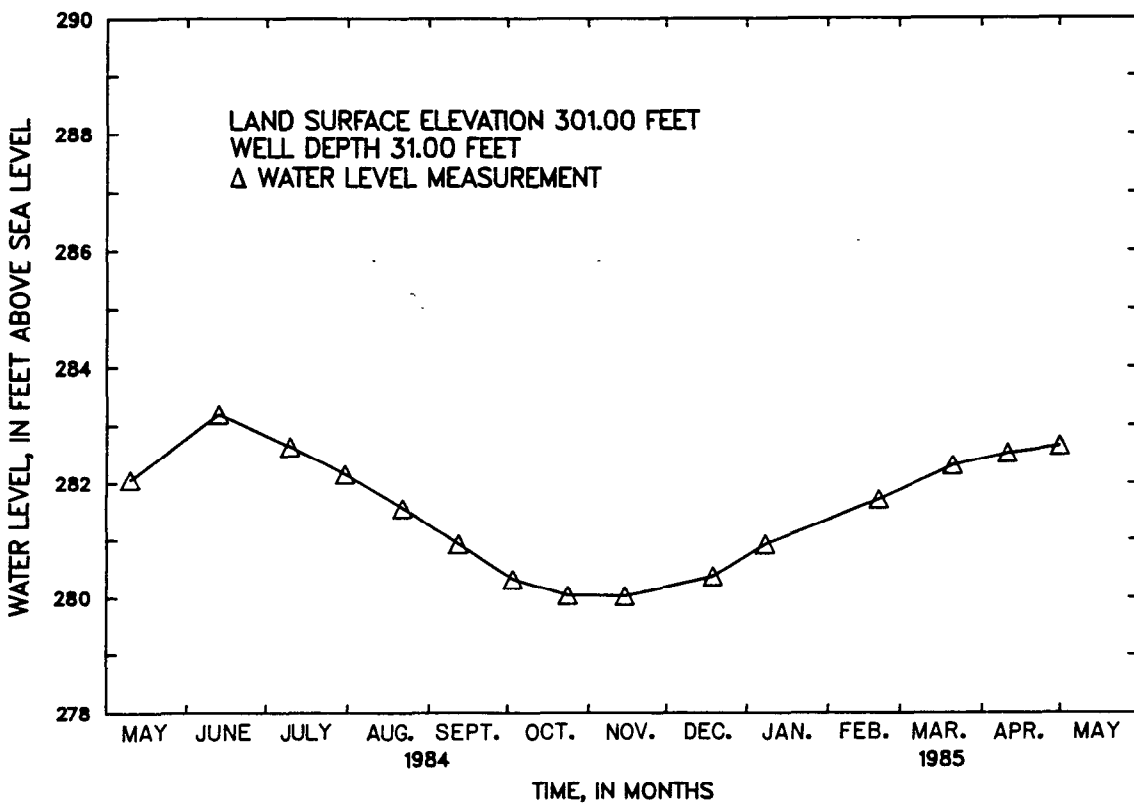


Figure 19.-- Hydrograph of well RF:25.

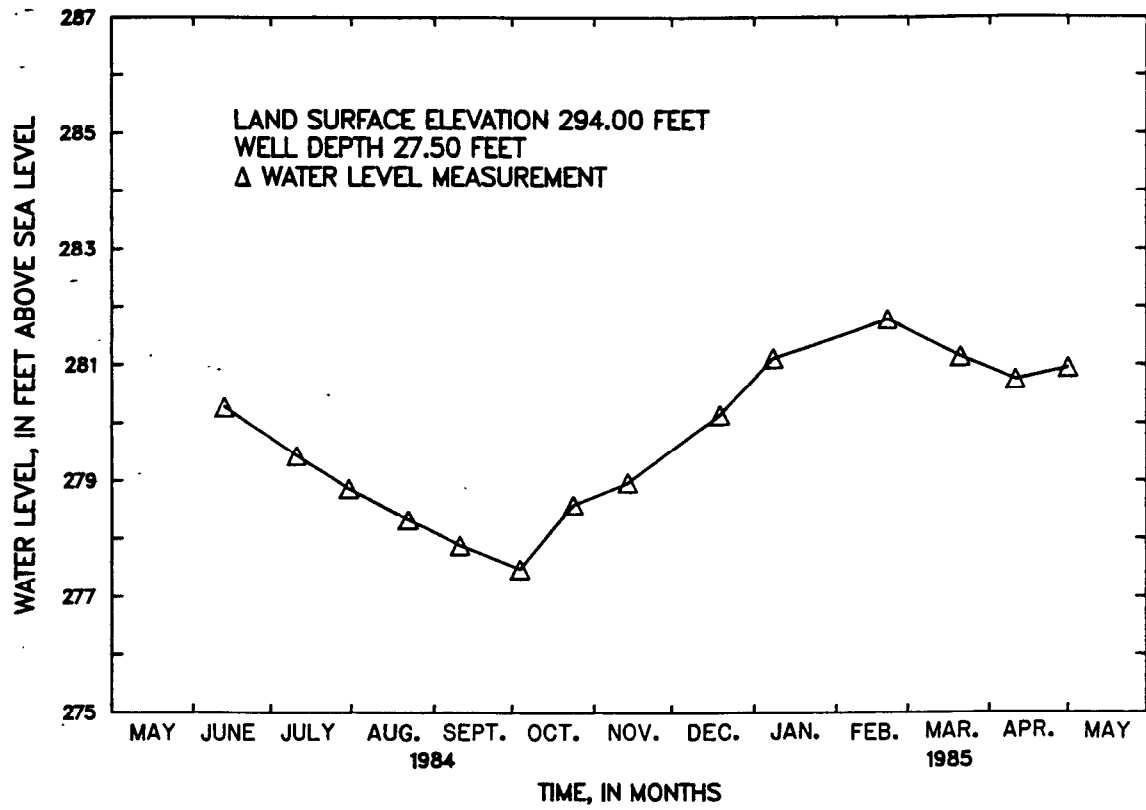


Figure 20.-- Hydrograph of well RF:27.

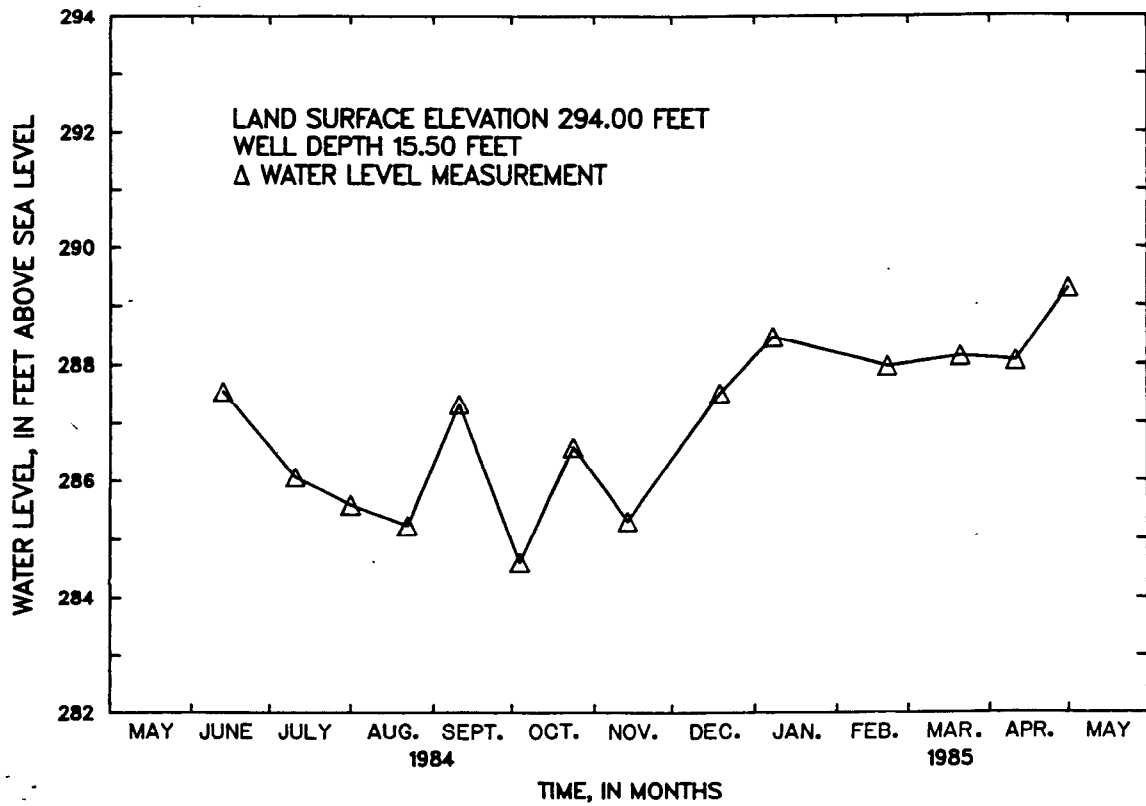


Figure 21.-- Hydrograph of well RF:28.

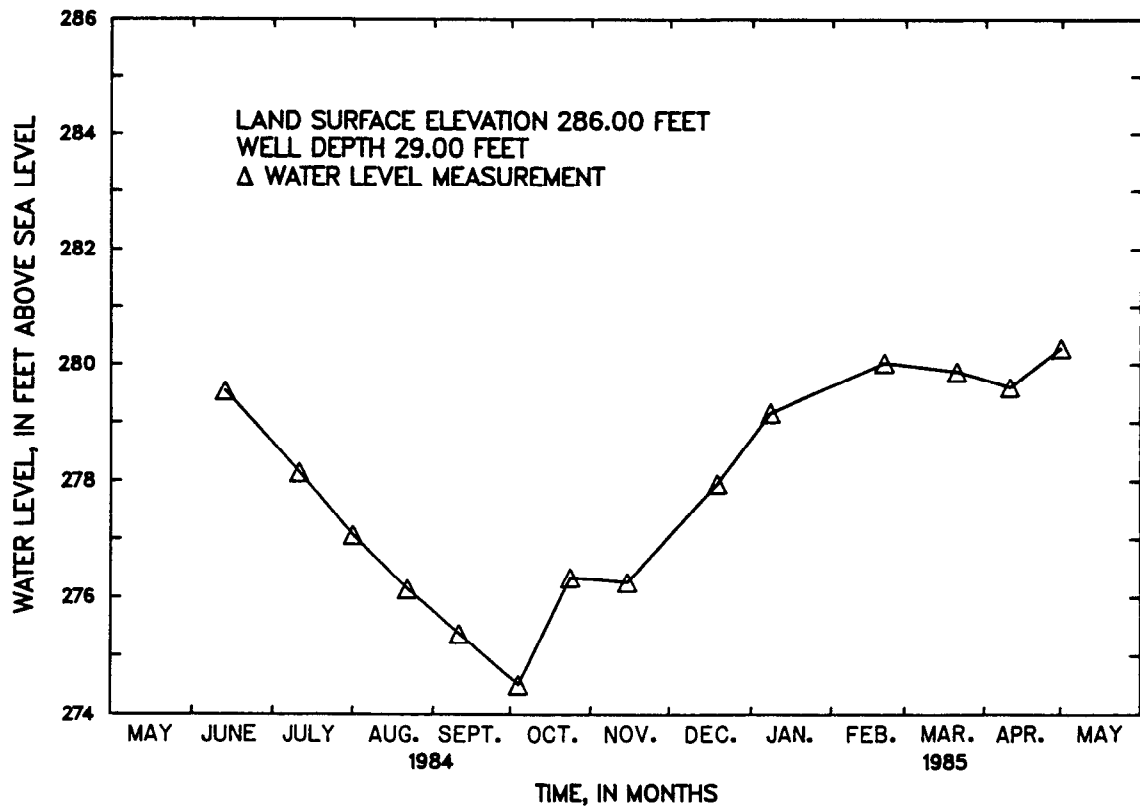


Figure 22.-- Hydrograph of well RF:30.

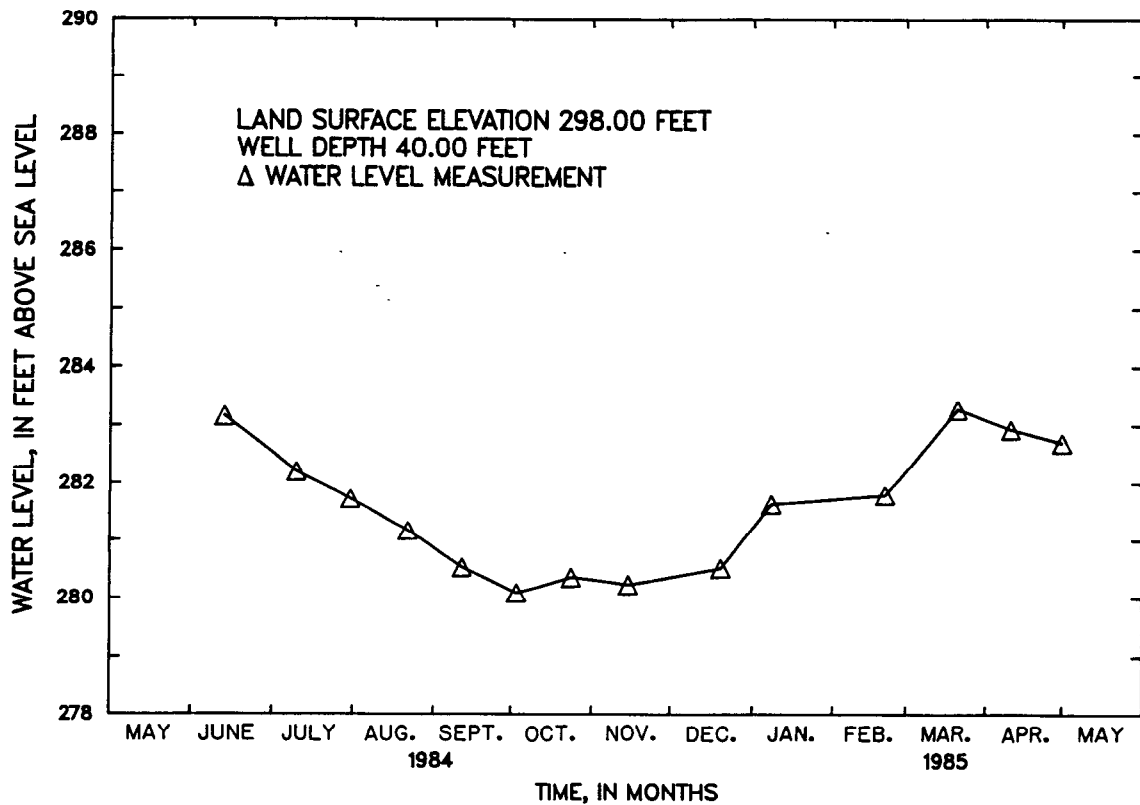


Figure 23.-- Hydrograph of well RF:32.

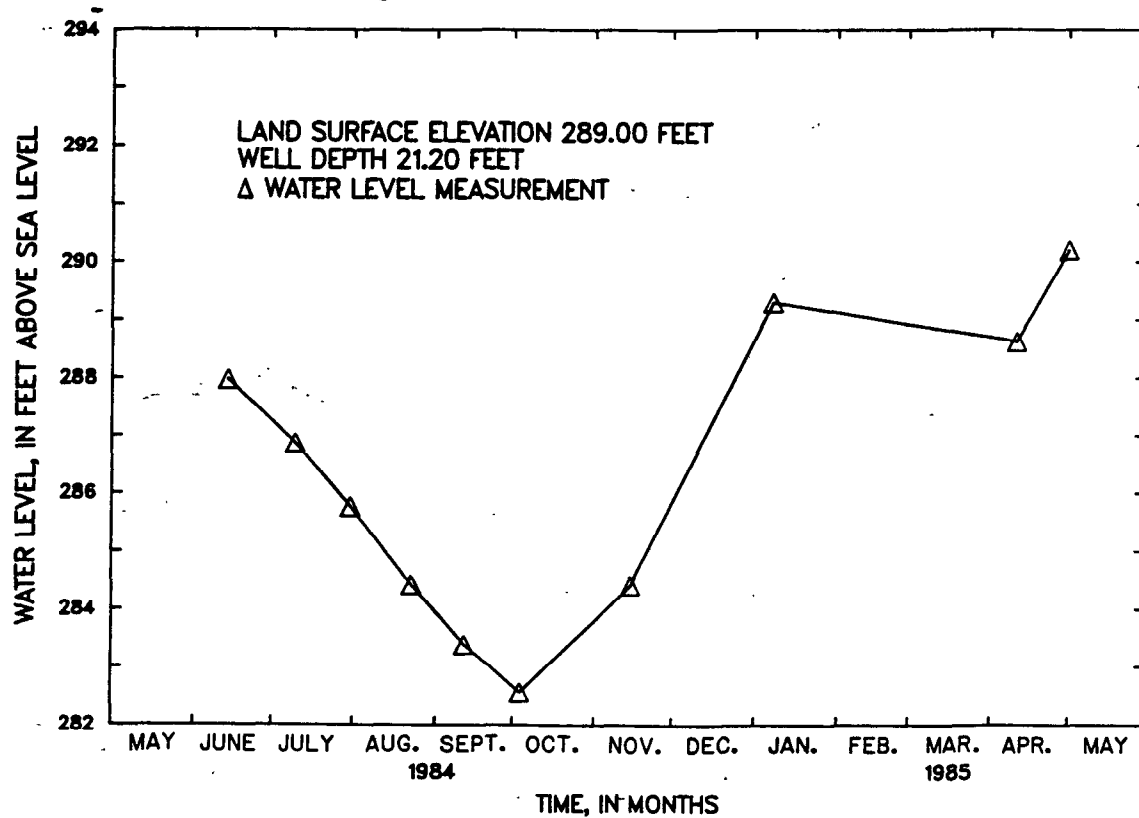


Figure 24.-- Hydrograph of well RF:34.

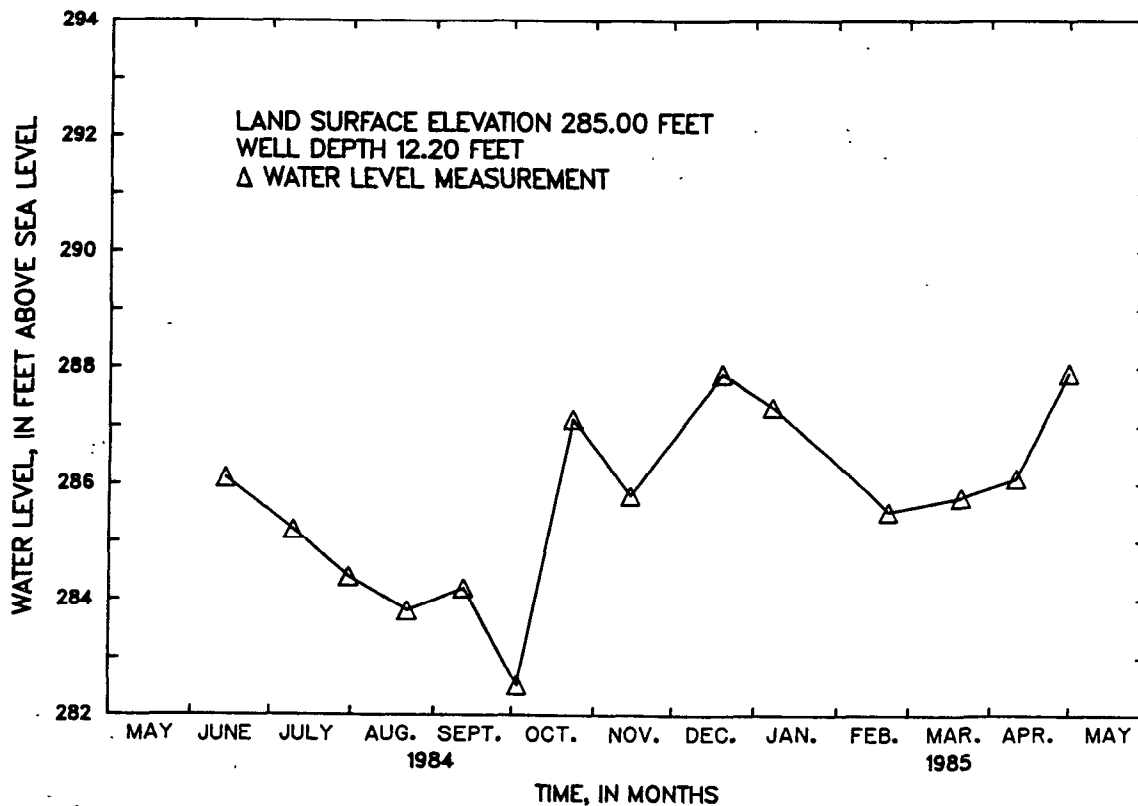


Figure 25.-- Hydrograph of well RF:35.

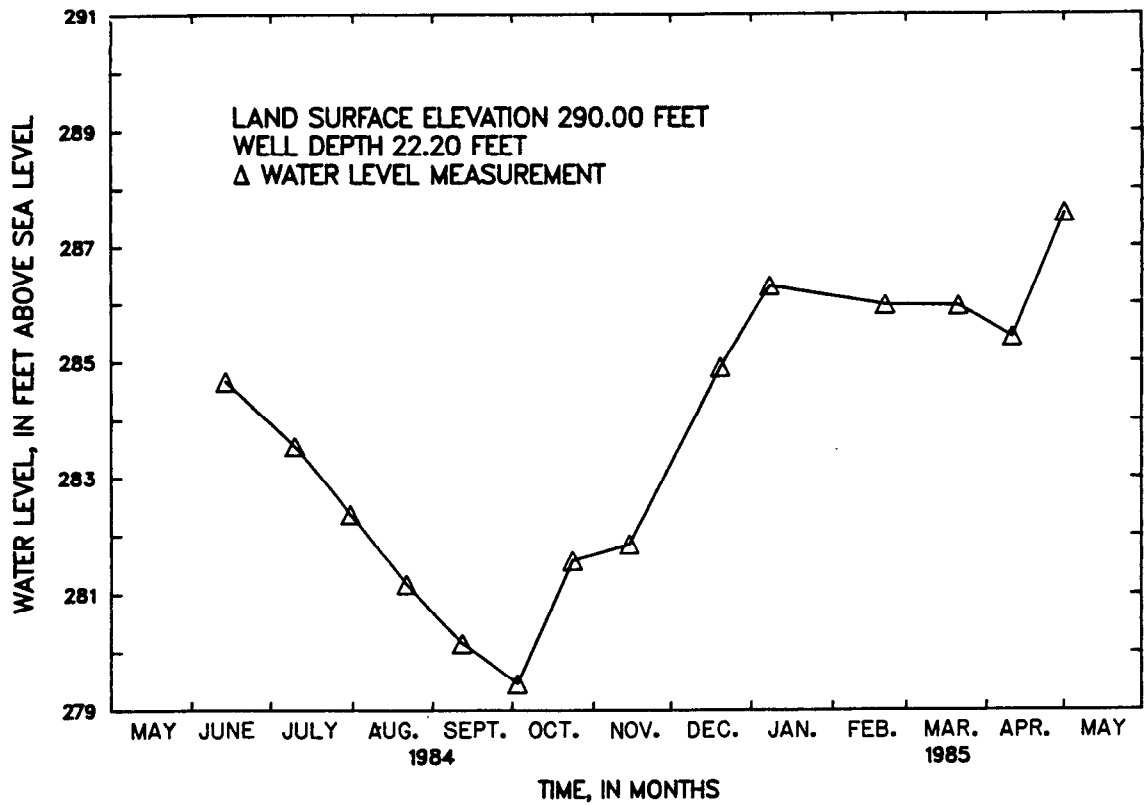


Figure 26.-- Hydrograph of well RF:36.

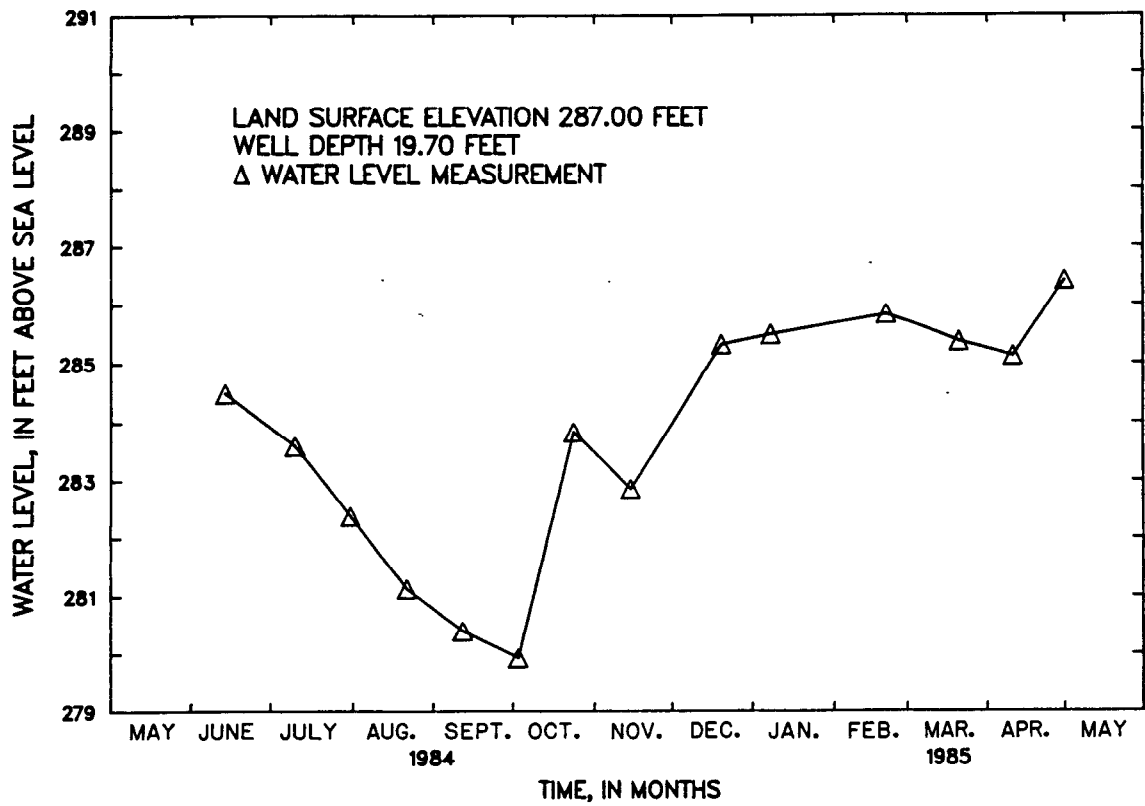


Figure 27.-- Hydrograph of well RF:38.

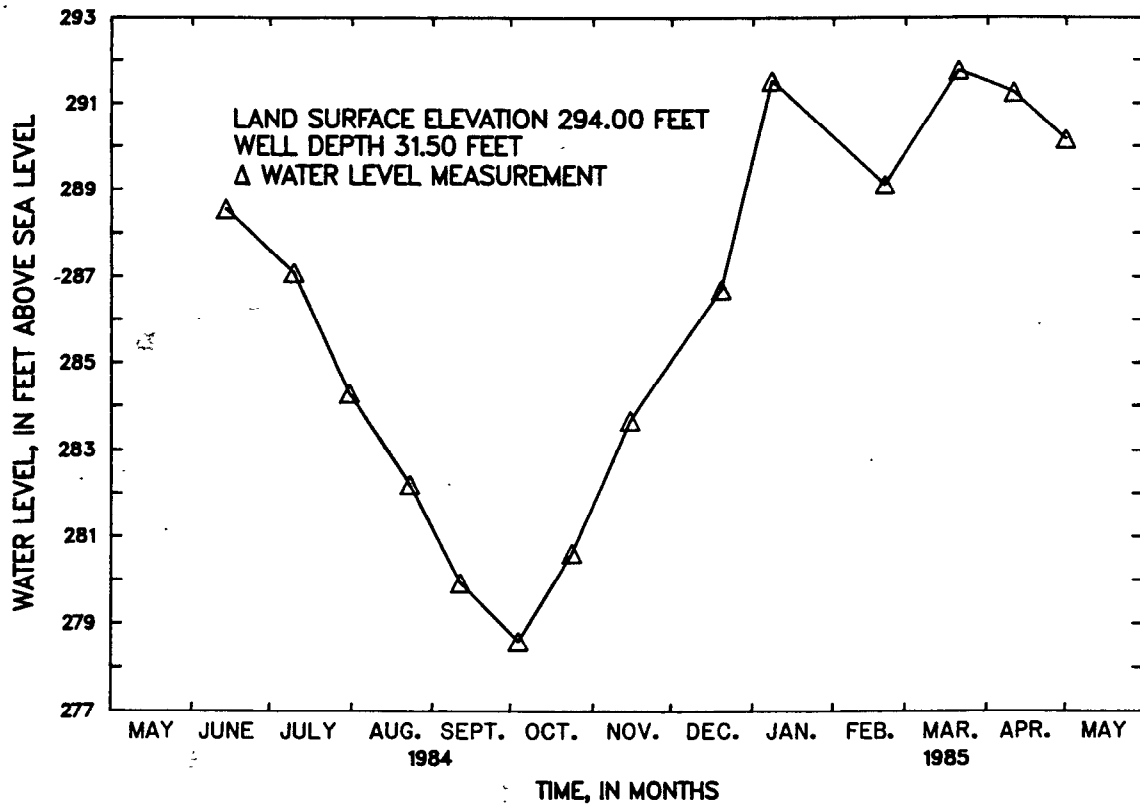


Figure 28.-- Hydrograph of well RF:39.

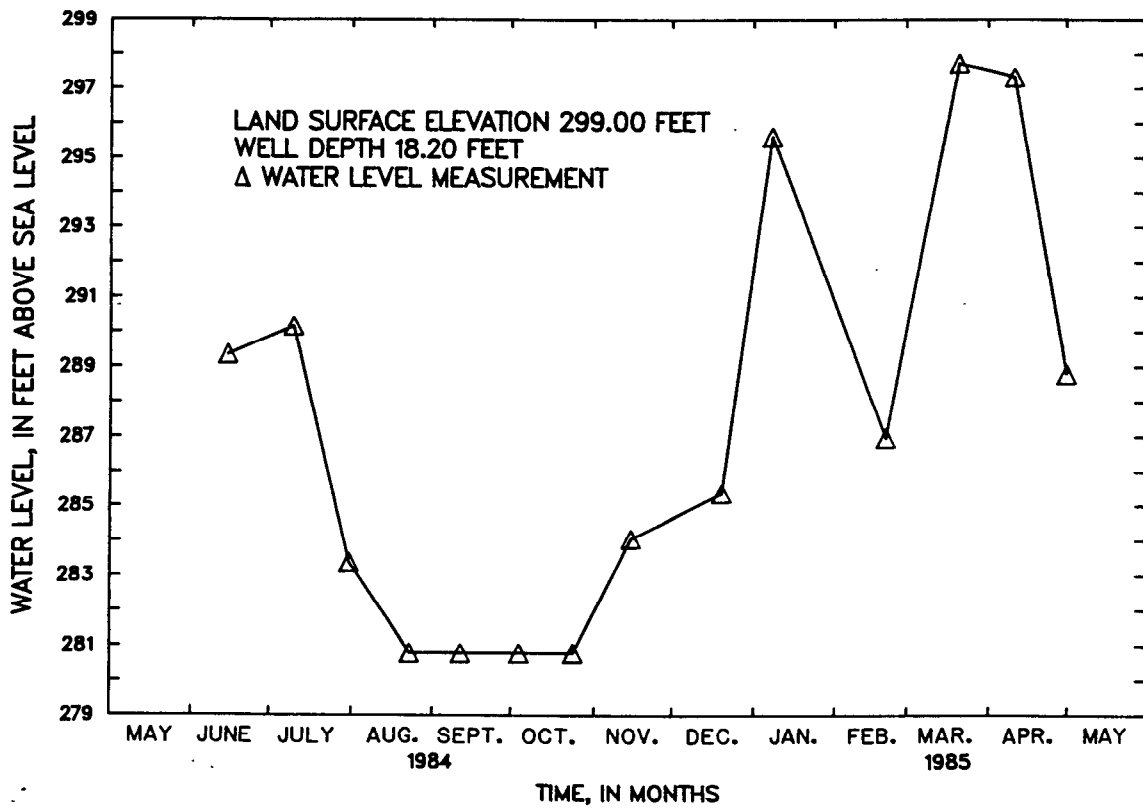


Figure 29.-- Hydrograph of well RF:41.

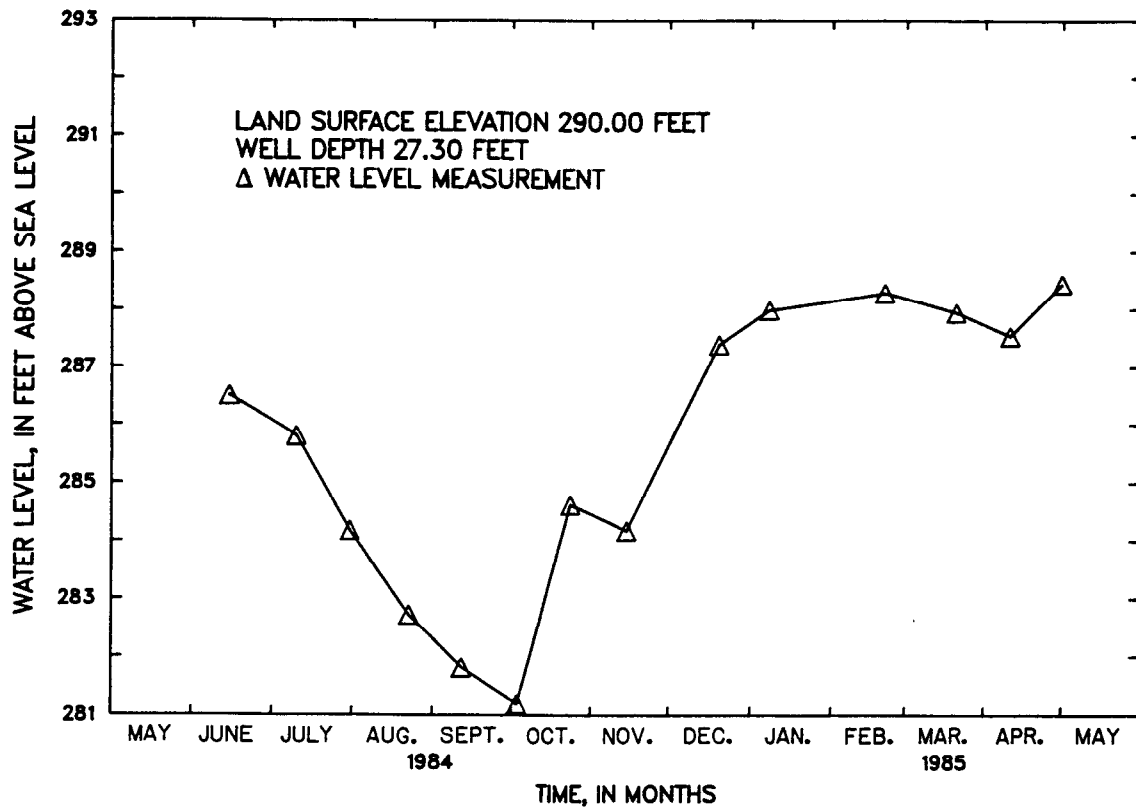


Figure 30.-- Hydrograph of well RF:42.

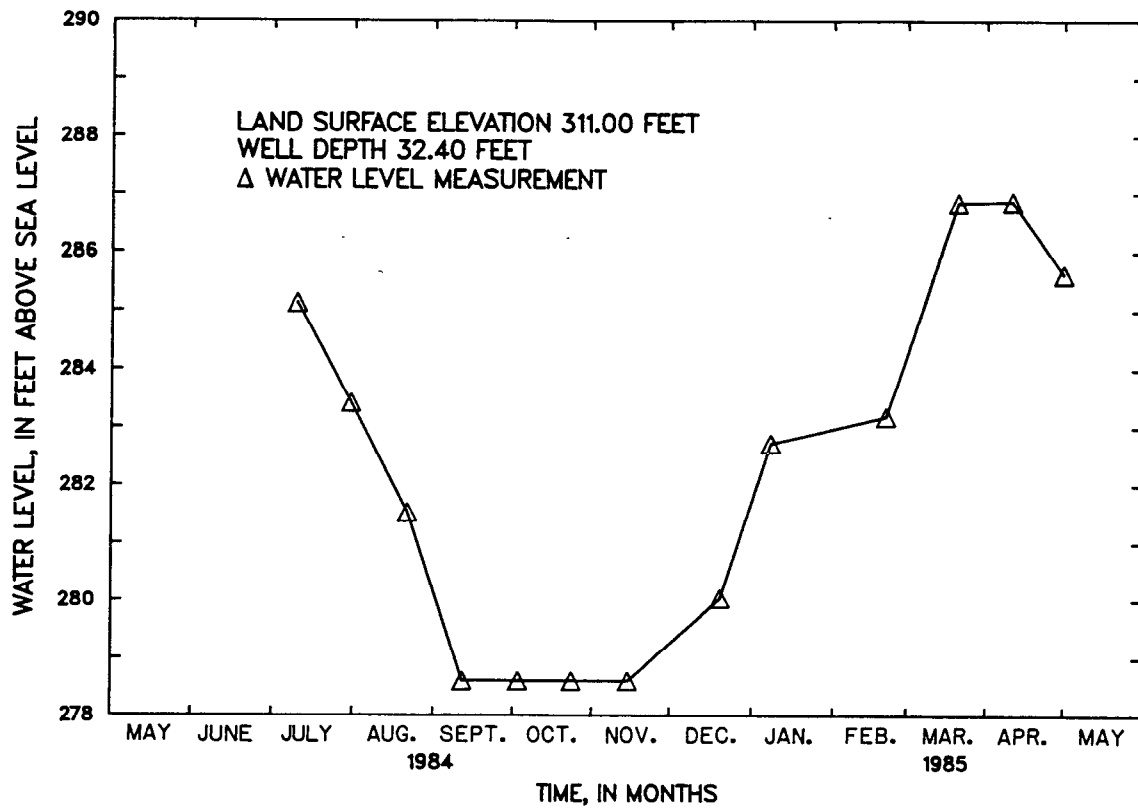


Figure 31.-- Hydrograph of well RF:43.