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GROUND WATER

This sheet describes water levels in the unconfined aquifer system of the Rancocas Creek study area. A water-level map prepared from water levels measured in May, June, and July 1996 is presented. Hydrographs of water levels in two water-table observation wells are shown.

Water Table

Under natural conditions, water in unconfined aquifers generally flows from topographic highs (recharge areas) toward topographic lows (discharge areas), such as wetlands, rivers, streams, and springs. The overall shape of the water table tends to be a subdued replica of the land surface. Where a water-table contour crosses a stream channel, it is shaped like a "v." For a gaining stream (a stream into which ground water flows along most of its length), the "v" points upstream, indicating that nearby ground water is at a higher elevation than the water in the stream channel; therefore, ground water is flowing into the stream. Most of the streams in the study area are gaining streams.

Water-Level Map

The water-table contour map (fig. 2-1) is based on water-level measurements from 234 wells (table 2-1) and 357 stream sites (table 2-2) made in May, June, and July 1996. The most accurate measurements are those made in wells. The well and stream-site locations are shown in figure 2-1. Construction details for the wells shown are in table 2-1 and are from the Ground Water Site Inventory (GWSI) database, which is maintained by the USGS. Wells deeper than about 150 ft and wells with a significant thickness of silt or clay above the screen were not used in order to avoid water levels that could represent confined or semi-confined conditions. Water levels were measured with respect to land surface at each measuring site; then the elevation of the land surface was used to determine the water-level altitude with respect to sea level. Where measurements were not made, elevations of streams, lakes, and wetlands (which represent the water table above land surface) estimated from USGS 7-1/2-minute topographic maps provided supplementary water-table altitude data.

The water-table map shows that water levels ranged from 15 ft below sea level in Burlington Township, along the Delaware River, to 214 ft above sea level in Hopewell Township in the northern part of the study area and 216 ft above sea level in Millstone Township in the northwestern part of the study area. The wide range in water-table gradients (slope of the water table) shown on the water-level map, particularly near discharge areas, is primarily the result of the wide range in permeabilities of the geologic materials and of how deeply the surface-drainage system is incised into the landscape. Relatively steep water-table gradients predominate where the geologic materials are of low-to-moderate permeability and the surface-drainage system is incised deeply into the landscape. Steep water-table gradients predominate in the Piedmont Physiographic Province in the northwestern part of the study area and near Blacks and Crosswicks Creeks, except in the upper reaches, where they are underlain by the Cohansey Sand. In many areas, the shape of the water table that results from local ground-water withdrawals and local variations in the permeability of geologic materials cannot be shown clearly at the 1:100,000 scale of the water-table contour map (fig. 2-1).

Water-Level Monitoring

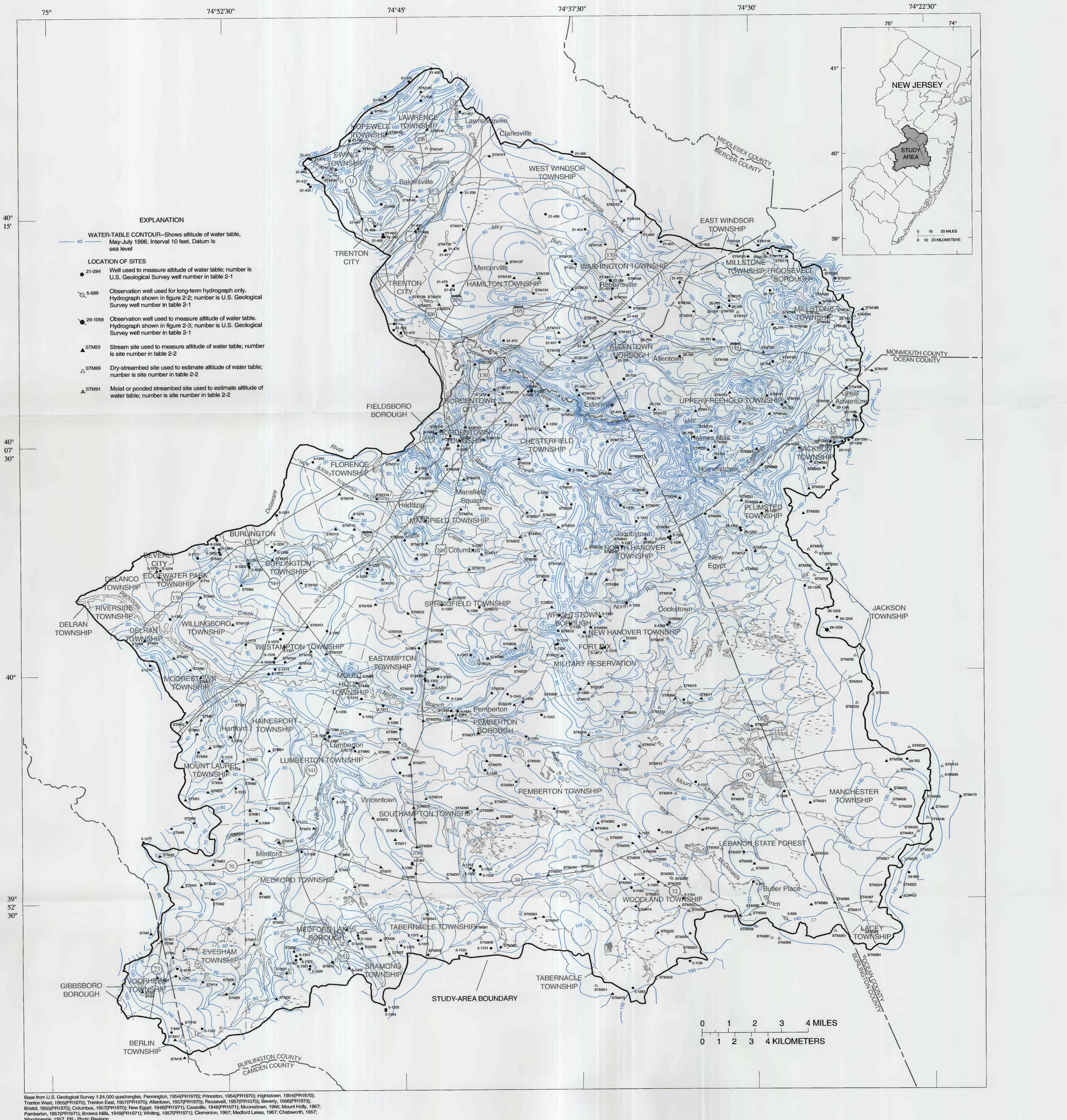
Hydrographs of water levels in two water-table observation wells are shown in figures 2-2 and 2-3. The Lebanon State Forest well (5-689) is in the extreme southwestern corner of the study area, near the headwaters of the North Branch Rancocas Creek in Woodland Township. The Fort Dix well (29-1059) is just outside the southwestern border of the study area in Plumsted Township. Both of these wells tap the Kirkwood-Cohansey aquifer system. Water levels in these wells are recorded hourly by automatic recorders, and data obtained were reduced to, and reported as, the lowest value of the month. When recorders are not in use, manual measurements are made from 1 to 12 times per year. Construction data for these wells are included in table 2-1. Water levels fluctuate seasonally about 3 to 8 ft in the Lebanon State Forest Well and 2 to 4 ft in the Fort Dix well. Water levels typically are highest during late winter and spring and lowest during fall. The water table declines from spring to fall because most of the precipitation is lost through evapotranspiration; therefore, little water remains to percolate down to the water table. From fall to spring, water levels rise because evapotranspiration is low; therefore, most of the water remains to percolate down to the water table and recharge the aquifer.

Table 2-1. Well-construction data for, and water levels measured in, wells in unconfined aquifers in the Rancocas Creek study area, New Jersey, May-July 1996

[Well locations shown in fig. 2-1; --, missing data; altitudes of water levels are rounded to the nearest whole number]

U.S. Geological Survey well number	Latitude[1]	Longitude[1]	New Jersey permit number	Aquifer code[2]	Altitude of land surface (feet above sea level)[3]	Depth of well (feet below land surface)	Screened interval (feet below land surface) Top	Bottom	Date water level measured	Water level (feet below land surface)	Altitude of water level (feet above sea level)
[4]5-689	395152	0742848	--	CKKD	152.0	33	--	--	--	--	--
5-719	400314	0745336	27-03590	MRPAU	40	61	51	61	6-06-96	16.20	24
5-902	395306	0743009	--	CKKD	138.67	29	26	29	6-25-96	16.94	122
5-1084	395838	0744254	32-09556	HRRS	35.95	20	5	20	5-07-96	5.65	30
5-1120	395048	0744225	32-07839	CKKD	101.16	27	17	27	6-26-96	11.64	90
5-1121	395059	0744121	32 13309	CKKD	100	76	71	76	6-26-96	13.58	86
5-1136	395030	0743254	32-12712	CKKD	120	80	70	80	6-26-96	15.66	104
5-1168	395310	0743458	32-08580	CKKD	120	86	50	60	6-19-96	19.05	101
							66	86			
5-1169	395256	0743521	32-00429	CKKD	105	84	46	64	6-18-96	9.08	96
5-1171	400353	0745340	27-10874	MRPAM	22	132	76	127	6-05-96	37.47	-15
5-1173	395315	0743451	32-06083	CKKD	130	97	77	97	6-19-96	27.10	103
5-1255	400754	0744328	--	WBMV	100	19	--	--	6-06-96	15.58	84
5-1256	400805	0743851	--	EGLS	89	12	--	--	6-06-96	7.25	82
5-1257	400819	0743948	--	EGLS	112	23.5	--	--	6-06-96	16.60	95
5-1258	400910	0744113	--	WBMV	103	17.25	--	--	6-12-96	11.75	91
5-1259	400334	0745128	27-08669-1	MRPAU	24.9	28	8	28	6-19-96	7.78	17
5-1260	400336	0745130	27-08668-2	MRPAU	20.89	27	7	27	6-19-96	12.61	8
5-1261	400342	0745130	27-08667-4	MRPAU	23.05	35	15	35	6-19-96	10.96	12
5-1262	400404	0745245	27-07304	MRPAM	14.28	25	14.5	25	6-19-96	16.76	-2
5-1263	400410	0745245	27-07302	MRPAM	9.15	22.5	12	22.5	6-19-96	11.43	-2
5-1264	400413	0745300	27-07608-3	MRPAM	8.88	30	20	30	6-19-96	18.95	-10
5-1265	400547	0743847	--	MLRW	93	13.8	--	--	6-28-96	4.70	88
5-1266	400640	0743748	--	MLRW	100	35.7	--	--	6-28-96	5.54	94
5-1267	400916	0743931	28-17303-1	WBMV	84.48	17	2	17	6-13-96	7.44	77
5-1268	400917	0743923	28-17304-0	WBMV	41.21	17	2	17	6-13-96	10.51	31
5-1269	400919	0743923	28-17305-8	WBMV	34.10	17	2	17	6-13-96	11.39	23
5-1270	400022	0745544	--	WBMV	75	13.4	--	--	6-21-96	3.98	71
5-1271	395859	0744550	32-01083	MLRW	42.13	13	3	13	7-02-96	8.80	33
5-1272	400315	0745519	27-09307	MRPAM	27.19	26.5	11.5	26.5	6-20-96	19.60	8
5-1273	400327	0745525	27-09310	MRPAM	29.4	25.8	13.8	25.8	6-20-96	20.45	9
5-1274	400329	0745516	27-09311	MRPAM	26.52	29.5	16.5	29.5	6-20-96	18.13	8
5-1275	395009	0745444	31-22976-0	CKKD	108.88	23	3	23	5-20-96	6.13	103
5-1276	395024	0745440	31-20963	CKKD	103.74	32.5	7.5	32.5	5-20-96	10.04	94
5-1277	395434	0745604	--	MLRW	106	34.75	--	--	6-03-96	31.49	75
5-1278	400509	0744704	--	WBMV	65	15.1	--	--	6-18-96	7.10	58
5-1279	395738	0744705	--	NVSK	44	18.1	--	--	6-04-96	8.39	36
5-1280	395755	0744818	31-47752	MLRW	27.15	49	34	49	7-29-96	20.70	6
5-1281	395800	0744808	31-47755	MLRW	23.59	37	22	37	7-29-96	13.00	11
5-1282	395807	0744812	31-18801	MLRW	28.93	30	10	30	7-29-96	10.73	18
5-1283	395843	0744649	32-13565	MLRW	49.91	18	8	18	7-02-96	11.13	39
5-1284	400348	0744422	--	EGLS	74	12.2	--	--	6-27-96	7.25	67
5-1285	400729	0744232	48-00048-5	WBMV	83.02	53.5	--	--	7-08-96	47.44	36
5-1286	400731	0744259	48-00049-3	WBMV	60.28	40.5	--	--	7-08-96	10.43	50
5-1287	400739	0744228	48-00052-3	WBMV	92.96	62	--	--	7-08-96	47.41	46
5-1288	400749	0744252	48-00051-5	WBMV	95.00	44.8	--	--	7-08-96	37.54	57
5-1289	400407	0745022	47-00004	MRPAM	21.8	40	--	--	6-18-96	19.26	3
5-1290	400414	0745030	27-10951-8	MRPAM	33.4	39	29	39	6-18-96	30.82	3
5-1291	400516	0745017	27-10915	MRPAM	10.85	24	4	24	6-13-96	5.49	5
5-1292	400633	0743707	--	MLRW	100	15	--	--	6-28-96	7.98	92
5-1293	395303	0743420	31-30616-1	CKKD	75	15	2	15	5-07-96	3.85	71
5-1294	400700	0744844	27-12173	MRPAM	30	40	30	40	6-27-96	15.22	15
5-1295	395834	0744532	32-17856	NVSK	61.84	35	20	35	7-02-96	13.14	49
5-1296	395854	0744754	31-40340	MLRW	52	31	10.5	31	6-24-96	21.16	31
5-1297	400404	0744157	--	MRSL	63	22.2	--	--	6-28-96	8.49	55
5-1298	400639	0744420	--	WBMV	75	14.4	--	--	6-27-96	4.30	71
5-1299	395021	0744903	31-29073-6	CKKD	126.8	28	18	28	6-20-96	15.55	111
5-1300	395022	0744722	31-32258	CKKD	130	65	59	64	6-05-96	19.44	111
5-1301	395027	0744902	31-29070-1	CKKD	128.71	33	23	33	6-20-96	17.37	111
5-1302	395039	0744938	31-18768	CKKD	134.05	57	47	57	6-13-96	29.09	105
5-1303	395041	0744926	31-25937-5	CKKD	147.30	65	55	65	6-13-96	40.15	107
5-1304	395047	0744937	31-39981	CKKD	130.32	42	27	42	6-13-96	26.47	104
5-1305	395120	0744657	31-37471	CKKD	96	13.5	3.5	13.5	6-04-96	5.20	91
5-1306	395126	0744659	31-37473	CKKD	94.53	12.5	2.5	12.5	6-04-96	1.57	93
5-1307	395358	0745136	--	VNCN	65	11	--	--	6-04-96	5.22	60
5-1308	395413	0744921	31-46476	MNSQ	50.8	12	2	12	6-24-96	3.79	47
5-1309	395515	0745115	31-39983	HRRS	84	25	15	25	6-04-96	14.57	69
5-1310	395516	0744941	--	VNCN	67	18.3	--	--	6-04-96	10.56	56
5-1311	395557	0744759	--	VNCN	40	12.9	--	--	6-05-96	5.19	35
5-1312	395913	0744645	32-13568	MLRW	40.18	25	15	25	7-11-96	21.23	19
5-1313	395619	0745208	--	MLRW	69	13.5	--	--	6-04-96	4.95	64
5-1314	395654	0745230	31-47272	MLRW	40	14.08	4.08	14.08	6-04-96	2.58	37
5-1315	395713	0745241	--	MLRW	45	14.75	--	--	6-03-96	3.75	41
5-1316	395800	0745219	--	MLRW	72	31.6	--	--	6-04-96	12.65	59
5-1317	400048	0743630	28-16560	CKKD	122.11	25	15	25	6-25-96	5.52	117
5-1318	400050	0743624	28-37291	CKKD	121.28	18.5	8	18	6-25-96	7.69	114
5-1319	400057	0743823	28-26160	CKKD	127.20	35	25	35	6-25-96	12.83	114
5-1320	400102	0743534	28-17789	CKKD	117.47	19	4	19	6-21-96	4.37	113
5-1321	400120	0743715	28-16721	CKKD	144.98	35	15	35	6-25-96	13.34	132
5-1322	394826	0745338	31-46506	CKKD	140	74	64	74	6-05-96	14.70	125
5-1323	400133	0743342	28-27016	CKKD	98.16	15	5	15	6-21-96	10.23	88
5-1324	400151	0743634	28-27426-1	CKKD	126.52	13	3	13	6-21-96	5.52	121
5-1325	400217	0743526	28-17769	CKKD	128.56	27	12	27	6-21-96	15.35	113
5-1326	400056	0743828	28-26158-5	CKKD	111.30	35	25	35	6-25-96	2.15	109
5-1327	400408	0743536	--	CKKD	160	--	--	--	7-01-96	3.79	156
5-1328	400422	0743333	28-15455-0	VNCN	120.77	17.5	7.5	17.5	6-27-96	3.02	118
5-1329	400425	0743338	28-15452-5	VNCN	122.44	15.4	5.4	15.4	6-27-96	3.41	119
5-1330	400427	0743332	28-15453-3	VNCN	121.06	18.75	8.75	18.75	6-27-96	4.28	117
5-1331	400457	0743459	--	HRRS	140	21.3	--	--	6-28-96	6.53	133
5-1332	400529	0743539	--	RDBK	131	4	--	--	6-28-96	2.25	129
5-1333	395437	0743500	32-14363	CKKD	115	100	85	95	6-18-96	27.88	87
5-1334	395449	0743409	32-13114	CKKD	109	108	95	100	6-18-96	25.41	84
5-1335	395515	0743234	32-14492	CKKD	120	90	75	90	6-18-96	27.50	93
5-1336	395603	0742848	32-10914-8	CKKD	128	20.5	5.5	20.5	7-01-96	4.21	124
5-1337	395624	0743234	32-20726	CKKD	82	67	62	67	6-19-96	10.45	72
5-1338	395651	0744131	--	CKKD	84	22	--	--	6-20-96	15.50	69
5-1339	395659	0743546	--	CKKD	75	23.7	--	--	6-26-96	17.92	57
5-1340	395757	0743946	--	CKKD	68	15.15	--	--	6-19-96	11.35	57
5-1341	395834	0744246	32-12399-0	VNCN	36.85	19	2.5	19	5-07-96	4.88	32
5-1342	395837	0744303	32-12396-5	HRRS	28.31	20	3	20	5-07-96	3.39	25
5-1343	395839	0743906	--	CKKD	62	11.05	--	--	6-19-96	5.50	57
5-1344	395847	0744240	52-00011-7	HRRS	38.59	15	10	15	5-07-96	8.46	30
5-1345	395848	0744257	32-03219-6	HRRS	31.76	17	7	17	5-07-96	4.42	27
5-1346	395904	0743953	--	MNSQ	62	18	--	--	6-20-96	3.25	59
5-1347	395906	0743303	32-20964	CKKD	98	60	50	60	6-26-96	5.16	93
5-1348	395914	0744305	--	HRRS	60	14.7	--	--	6-18-96	6.83	53
5-1349	395920	0744032	32-08117-1	VNCN	70.64	14	9	14	6-20-96	5.06	66
5-1350	395929	0743727	32-19331	CKKD	173.17	62	52	62	6-25-96	49.90	123
5-1351	395939	0744342	--	NVSK	60	24	--	--	6-18-96	7.14	53
5-1352	395948	0744402	32-11028-6	NVSK	53	21	6	21	6-18-96	6.90	46
5-1353	395955	0744329	32-11030-8	NVSK	54.68	20	5	20	6-18-96	0.13	55
5-1354	394858	0744550	31-36390-3	CKKD	103.20	28	8	28	6-04-96	9.85	93
5-1355	394901	0744550	31-36392-0	CKKD	107.70	26	6	26	6-04-96	14.06	94
5-1356	395326	0744146	32-14441-5	CKKD	100.54	45	25	45	6-25-96	30.77	70
5-1357	395334	0744203	32-18203	CKKD	79.90	55	45	55	6-25-96	15.90	64
5-1358	395338	0744211	32-18188	CKKD	57.50	15	5	15	6-25-96	3.03	54
5-1359	395342	0744146	32-18214	CKKD	117.81	60	50	60	6-25-96	50.12	68
5-1360	395347	0744439	32-14191-2	CKKD	53.81	19.54	4.54	19.54	6-24-96	2.00	52
5-1361	395349	0744439	32-14193-9	CKKD	56.17	13.6	3.6	13.6	6-24-96	5.07	51
5-1362	395647	0744508	--	VNCN	60	22	--	--	6-04-96	16.15	44
5-1363	400037	0744206	--	HRRS	113	29.6	--	--	6-27-96	18.47	95
5-1364	400052	0744417	--	MLRW	70	21.2	--	--	6-25-96	14.27	56
5-1365	400154	0743819	28-37542	CKKD	188.61	64	53.5	63.5	6-25-96	53.58	135
5-1366	400211	0744142	--	MLRW	70	14.2	--	--	6-25-96	5.07	65
5-1367	400217	0744318	--	MLRW	65	17.5	--	--	6-25-96	7.89	57
5-1368	400321	0744628	27-09682-3	EGLS	95.20	27	17	27	6-11-96	17.42	78
5-1369	400329	0744627	27-09685-8	EGLS	68.09	17	9	17	6-11-96	7.23	61
5-1370	395106	0744509	31-25879	CKKD	130	80	71	76	6-05-96	17.44	113
5-1371	395116	0744426	32-11732-9	CKKD	120.42	52	32	52	6-26-96	21.63	99
5-1372	395124	0744417	32-11724-5	CKKD	139.39	56	36	56	6-26-96	42.34	97
5-1373	400004	0745042	27-09141-4	EGLS	35.40	28	8	28	6-12-96	14.73	21
5-1374	400013	0745025	27-09140-6	EGLS	35.59	18	8	18	6-12-96	6.85	29
5-1375	400026	0745028	27-09581-9	EGLS	59.66	18	8	18	6-12-96	9.33	50
5-1376	400035	0745025	27-07934	EGLS	66.73	28	8	28	6-12-96	10.89	56
5-1377	400056	0745001	27-07936	EGLS	80	33	18	33	6-12-96	21.38	59
5-1378	400102	0745139	--	EGLS	80	21.8	--	--	6-18-96	18.86	61
5-1379	400112	0745010	27-07902	EGLS	55.70	25	5	25	6-12-96	1.93	54
5-1380	400123	0745004	27-08460-4	EGLS	70.92	30	15	30	6-12-96	16.07	55
5-1381	400127	0744811	--	EGLS	63	17	--	--	6-21-96	12.32	51
5-1382	400153	0745452	27-11449	MRPAU	19.20	10	5	10	6-05-96	4.61	15
5-1383	394938	0743520	32-08151	CKKD	100	14.5	--	--	6-26-96	3.40	97
5-1384	395234	0743309	32-19191	CKKD	140	80	70	80	6-18-96	33.31	107
5-1385	395307	0743413	32-19550	CKKD	148	105	95	105	6-20-96	39.89	108
5-1386	400137	0743750	28-35830	CKKD	167.17	37	22	37	6-25-96	27.02	140
7-849	394819	0745456	31-32690-1	CKKD	164.01	40	2	40	6-03-96	16.57	147
7-850	395006	0745531	31-24364-9	CKKD	154.60	84	64	84	6-04-96	36.84	118
21-239	401525	0744244	28-13256	WSCK	58	150	39	150	6-17-96	8.17	50
21-284	401734	0744703	--	SCKN	200	63	16	63	6-07-96	16.88	183
21-417	401609	0744849	27-12427	LCKG	160	100	85	100	6-07-96	6.65	153
21-433	401604	0744844	27-12413	SCKN	148.20	91	76	91	6-07-96	7.61	141
21-443	400831	0743527	--	EGLS	72	17.05	--	--	6-17-96	11.96	60
21-444	400847	0743559	--	EGLS	70	18.2	--	--	6-24-96	15.07	55
21-445	400918	0743727	--	EGLS	91	11.6	--	--	6-06-96	4.55	86
21-446	401052	0743707	--	WBMV	102	16	--	--	6-07-96	7.90	94
21-447	401053	0743810	--	WBMV	74	30.6	--	--	6-06-96	6.47	68
21-448	401137	0743524	--	EGLS	112	10.6	--	--	6-07-96	6.15	106
21-449	401221	0743636	--	WBMV	138	27.65	--	--	6-07-96	23.90	114
21-450	401248	0743302	--	EGLS	111	16.65	--	--	6-18-96	9.13	102
21-451	401326	0743728	--	WBMV	115	9.85	--	--	6-12-96	4.43	111
21-452	401359	0743217	--	EGLS	120	16	--	--	6-20-96	5.07	115
21-453	401408	0743349	--	WBMV	115	11.9	--	--	6-07-96	4.73	110
21-454	401435	0743703	--	MRPAU	102	35	--	--	6-19-96	28.78	73
21-455	401506	0743843	--	MRPAM	108	38	--	--	6-17-96	34.60	73
21-456	401557	0743513	--	MRPAU	103	19.2	--	--	6-19-96	6.53	96
21-457	401829	0744220	--	SCKN	105	22.2	--	--	6-07-96	21.15	84
21-458	401852	0744359	--	LCKG	180	18	--	--	6-07-96	7.40	173
21-459	401929	0744429	--	LCKG	236	15.5	--	--	6-07-96	6.05	230
21-460	401954	0744332	--	LCKG	195	15.2	--	--	6-17-96	6.62	188
21-461	401237	0743554	--	WBMV	104	12.1	--	--	6-19-96	2.00	102
21-462	401423	0744536	28-17795-9	SCKN	100.06	20	5	20	6-12-96	5.04	95
21-463	401423	0744541	28-17794-1	SCKN	99.40	25	10	25	6-12-96	7.81	92
21-464	401428	0744539	28-17797-5	SCKN	95.80	22	7	22	6-12-96	13.54	82
21-466	401445	0744600	27-11917	HPPM	84.90	17	2	17	6-21-96	2.08	83
21-467	401500	0744633	27-10759-1	HPPM	87	10	1	10	6-28-96	5.26	82
21-468	401528	0744543	28-25018-4	SCKN	112	12.5	2.5	12.5	6-26-96	6.95	105
21-469	401640	0744857	27-13579	LCKG	193.93	36.63	11.63	36.63	6-07-96	4.79	189
21-470	401658	0744843	27-13573	LCKG	201.80	22.17	2.17	22.17	6-07-96	9.61	192
21-471	401700	0744848	27-13580	LCKG	205.82	33.71	8.71	33.71	6-07-96	11.17	195
21-472	401057	0744034	28-31853	WBMV	56	15	2	15	6-12-96	3.36	53
21-473	401114	0744456	28-17481-0	MRPAM	20	28	18	28	6-07-96	17.23	3
21-474	401246	0744241	28-16766-0	MRPA	61.90	30	10	30	7-08-96	.41	61
21-475	401247	0744257	28-16767-8	MRPA	64.60	30	10	30	7-08-96	7.44	57
21-476	401329	0744116	28-27157-2	MRPA	88	15	2	15	5-15-96	1.72	86
21-477	401355	0744302	28-37989	MRPAM	53.04	17	7	17	5-03-96	7.10	46
21-478	401356	0744300	28-37990	MRPAM	53.97	17	7	17	5-03-96	7.61	46
21-479	401400	0744117	28-23053-1	MRPA	81	18	3	18	6-26-96	5.17	76
21-480	401900	0744530	--	LCKG	220	50	--	--	6-07-96	6.14	214
21-481	401141	0744404	28-13359-5	HPPM	57.32	12	2	12	6-13-96	0.62	57
21-482	401539	0744328	28-20129-9	HPPM	76.06	18	3	18	6-27-96	6.90	69
21-483	401120	0744514	28-17480-1	MRPAM	17	21	10	21	6-07-96	11.63	5
21-484	401132	0744513	28-17477-1	MRPAM	20	25	5	25	6-07-96	18.00	2
21-485	401434	0744416	28-23905-9	HPPM	65.83	14	4	14	6-13-96	3.78	62
21-486	401253	0743559	28-30244	WBMV	118.29	40	5	40	6-20-96	6.44	112
21-487	401253	0743600	28-30245	WBMV	116.95	30	5	30	6-20-96	5.59	111
21-488	401427	0743439	28-20321-6	WBMV	90	13	3	13	6-20-96	3.39	87
21-489	401708	0743734	28-17627	MRPAM	106	60	50	60	6-06-96	19.58	86
21-490	401715	0743954	28-18908-6	HPPM	92.37	20	10	20	5-21-96	11.71	81
21-491	401747	0744001	28-18906-0	HPPM	68.68	13	3	13	5-21-96	3.64	65
25-752	400742	0743229	--	NVSK	107	31	--	--	6-25-96	26.47	81
25-753	400811	0743031	--	RDBK	140	17.55	--	--	6-26-96	4.15	136
25-754	400841	0743423	--	MLRW	83	21	--	--	6-17-96	10.57	72
25-755	400844	0742843	--	RDBK	192	27.9	--	--	6-26-96	15.04	177
25-756	400939	0743528	--	EGLS	115	37.5	--	--	6-17-96	27.27	88
25-757	400957	0742557	--	CKKD	165	9.75	--	--	6-26-96	4.69	160
25-758	401010	0742904	--	RDBK	182	29.1	--	--	6-26-96	27.46	155
25-759	401021	0743546	--	EGLS	88	11.75	--	--	6-18-96	3.05	85
25-760	401022	0743304	--	MLRW	102	19.85	--	--	6-20-96	2.70	99
25-761	401055	0743135	--	MLRW	130	14.5	--	--	6-25-96	8.27	122
25-762	401103	0743415	--	EGLS	110	14.2	--	--	6-18-96	8.42	102
25-763	401126	0742549	--	CKKD	232	23	--	--	6-26-96	16.36	216
25-764	401157	0743122	--	MLRW	130	12.2	--	--	6-18-96	7.53	122
25-765	401159	0743121	--	MLRW	132	12.8	--	--	6-18-96	6.86	125
25-766	401200	0743053	--	MLRW	121	22.1	--	--	6-18-96	7.57	113
25-767	401230	0742909	--	MLRW	153	17.8	--	--	6-26-96	12.82	140
25-768	401347	0742844	--	MLRW	165	17	--	--	6-26-96	12.09	153
25-769	400700	0743134	--	RDBK	125	22.4	--	--	6-20-96	15.12	110
25-770	401123	0742904	--	RDBK	240	56	--	--	6-25-96	49.90	190
29-395	395321	0742333	--	CKKD	139.81	18	8	18	7-15-96	12.26	128
29-755	395705	0742334	32-06687	CKKD	156	80	74	80	6-24-96	34.14	122
[5]29-1059	400120	0742654	28-16707-4	CKKD	180	75	--	--	6-25-96	49.53	130
29-1194	400842	0742631	28-29245	CKKD	134.73	21	6	21	6-26-96	5.68	129
29-1195	400819	0742534	28-24893-7	CKKD	143.32	23	3	23	6-26-96	3.57	140
29-1196	400821	0742538	28-29243	CKKD	138.56	20	5	20	6-26-96	5.30	133
29-1197	400720	0742620	48-00035-3	CKKD	159.43	19.3	--	--	6-21-96	14.94	144
29-1198	400730	0742610	48-00036-1	CKKD	148.04	15.4	--	--	6-21-96	12.68	135
29-1199	400728	0742630	48-00041-8	CKKD	165.44	29	19	29	6-21-96	16.99	148
29-1200	400730	0742640	48-00043-6	CKKD	143.49	27.4	17.4	27.4	6-21-96	5.93	138
29-1201	400737	0742544	28-22729-8	CKKD	158.09	28	8	28	6-21-96	13.78	144
29-1202	400733	0742553	28-22730-1	CKKD	166.50	30	10	30	6-21-96	23.23	143
29-1203	400204	0742651	28-17921-8	CKKD	166.24	50	35	50	6-21-96	37.42	129
29-1204	400248	0742749	28-21322-0	CKKD	176.75	67	47	67	7-01-96	55.85	121
29-1205	400438	0743030	28-23190-2	CKKD	25	25	15	25	6-27-96	20.35	5
29-1206	400443	0743033	28-23189-9	CKKD	115	24	9	24	6-27-96	3.95	111
29-1207	400511	0742937	28-11204	CKKD	145	25	15	25	7-03-96	6.44	139
29-1208	400719	0742800	--	VNCN	140	17.5	--	--	6-24-96	14.64	125
29-1209	400145	0742628	28-17925-1	CKKD	141.10	25	10	25	6-21-96	12.70	128

[1]Latitude and longitude are referenced to the North American Datum of 1927.
[2]Aquifer codes are HPPM, Undifferentiated Holocene, Pleistocene, Pliocene, and Miocene; CKKD, Kirkwood-Cohansey aquifer system; MNSQ, Manasquan Formation; VNCN, Vincentown aquifer; HRRS, Hornerstown Sand; RDBK, Red Bank Sand; NVSK, Navesink Formation; MLRW, Wenonah-Mount Laurel aquifer; MRSL, Marshalltown Formation; EGLS, Englishtown aquifer system; WBMV, Woodbury Clay-Merchantville Formation; MRPAU, Upper Potomac-Raritan-Magothy aquifer; MRPAM, Middle Potomac-Raritan-Magothy aquifer; MRPA, Undifferentiated Potomac-Raritan-Magothy aquifer; LCKG, Lockatong Formation; SCKN, Stockton Formation; WSCK, Wissahickon Gneiss.
[3]Values of altitude of land surface listed as whole numbers were determined by visual inspection of a 1:24,000-scale topographic map or by altimeter. Values listed to the tenth or hundredth place were determined from level measurements.
[4]Well used for long-term hydrograph only
[5]Well used for long-term hydrograph also



Base from U.S. Geological Survey 1:24,000 quadrangles, Pennington, 1954(PR1970); Princeton, 1954(PR1970); Hightstown, 1954(PR1970); Trenton West, 1955(PR1970); Trenton East, 1957(PR1970); Allentown, 1957(PR1970); Roosevelt, 1957(PR1070); Beverly, 1966(PR1973); Bristol, 1955(PR1970); Columbus, 1957(PR1970); New Egypt, 1948(PR1971); Cassville, 1948(PR1971); Moorestown, 1966; Mount Holly, 1967; Pemberton, 1957(PR1971); Browns Mills, 1949(PR1971); Whiting, 1957(PR1971); Clementon, 1967; Medford Lakes, 1967; Chatsworth, 1957; Woodmansie, 1957. PR - Photo Revision

Figure 2-1. Map of the Rancocas Creek study area, New Jersey, showing well and stream-site locations and the altitude of the water table in the unconfined aquifer system, May-July 1996.

Table 2-2. Altitude of water levels measured at stream sites in the Rancocas Creek study area, New Jersey, July 1996

[Altitude of water levels are rounded to the nearest whole number. Site locations are shown in fig. 2-1]

Site number	Latitude	Longitude	Date water level measured	Altitude of water level (feet above sea level)	Site number	Latitude	Longitude	Date water level measured	Altitude of water level (feet above sea level)	Site number	Latitude	Longitude	Date water level measured	Altitude of water level (feet above sea level)
STM1	395119	0745520	7-02-96	81	STM98	400111	0745557	7-03-96	6	STM176	401400	0742938	7-09-96	119
STM2	395133	0745546	7-02-96	78	STM99	400259	0745150	7-05-96	54	STM177	401342	0742925	7-09-96	Dry
STM3	394940	0745610	7-02-96	120	STM100	400302	0744916	7-05-96	33	STM178	401343	0742914	7-09-96	140
STM4	394939	0745610	7-02-96	125	STM101	400137	0744902	7-05-96	51	STM179	401336	0742825	7-09-96	135
STM8	395119	0745520	7-02-96	86	STM103	400142	0745212	7-05-96	267	STM180	401309	0742648	7-09-96	Ponded
STM9	395047	0745451	7-02-96	76	STM104	400027	0744959	7-05-96	43	STM181	401157	0742617	7-09-96	Dry
STM10	395100	0745423	7-02-96	73	STM105	400016	0744922	7-05-96	26	STM182	401150	0742700	7-09-96	Dry
STM14	394958	0745336	7-02-96	101	STM106	400048	0744854	7-05-96	34	STM183	401219	0742721	7-09-96	Dry
STM16	394836	0745429	7-02-96	133	STM107	400042	0744814	7-05-96	51	STM184	401138	0742534	7-09-96	Dry
STM17	394804	0745447	7-02-96	142	STM108	400117	0744507	7-05-96	34	STM185	401151	0742513	7-09-96	227
STM18	394728	0745423	7-02-96	142	STM109	400219	0744607	7-05-96	33	STM186	401114	0742550	7-09-96	Dry
STM23	394934	0745236	7-02-96	82	STM110	400308	0744548	7-05-96	46	STM188	401119	0742816	7-09-96	Moist
STM26	394953	0745217	7-02-96	82	STM112	400447	0744659	7-05-96	28	STM189	401029	0742929	7-09-96	154
STM27	395111	0745124	7-02-96	45	STM113	400448	0744746	7-05-96	19	STM190	401010	0742822	7-09-96	Dry
STM28	395202	0745030	7-02-96	41	STM114	400546	0744601	7-05-96	20	STM191	400903	0742920	7-09-96	158
STM30	395056	0744943	7-02-96	101	STM116	400556	0744737	7-05-96	30	STM192	400827	0742914	7-09-96	149
STM31	395014	0745002	7-02-96	78	STM117	400702	0744506	7-05-96	18	STM193	400850	0742833	7-09-96	145
STM32	394924	0745028	7-02-96	75	STM118	400800	0744315	7-05-96	57	STM195	400842	0742645	7-09-96	Dry
STM33	395035	0744804	7-02-96	88	STM119	400807	0744213	7-05-96	32	STM196	400916	0742557	7-09-96	140
STM35	395117	0744719	7-02-96	77	STM120	400741	0744126	7-05-96	34	STM197	400950	0742452	7-09-96	150
STM36	395102	0744649	7-02-96	84	STM121	400800	0743902	7-05-96	70	STM198	401005	0742522	7-09-96	Moist
STM37	395050	0744540	7-02-96	99	STM122	400838	0743751	7-05-96	64	STM199	400336	0743805	7-09-96	Dry
STM38	395117	0744601	7-02-96	94	STM123	400848	0743844	7-05-96	52	STM200	400352	0743919	7-09-96	92
STM39	395138	0744728	7-02-96	74	STM124	400818	0744031	7-05-96	75	STM201	400433	0743943	7-09-96	Dry
STM42	395240	0745310	7-02-96	52	STM125	400851	0744057	7-05-96	79	STM202	400429	0743956	7-09-96	76
STM43	395307	0745425	7-02-96	67	STM126	400913	0744037	7-05-96	80	STM203	400448	0743818	7-09-96	96
STM45	395309	0745337	7-02-96	58	STM127	400921	0744058	7-05-96	65	STM204	400532	0743745	7-09-96	87
STM48	395407	0745522	7-02-96	77	STM128	401012	0744147	7-05-96	41	STM205	400613	0743754	7-09-96	94
STM49	395501	0745452	7-02-96	64	STM129	401017	0743736	7-05-96	64	STM206	400520	0743900	7-09-96	Moist
STM50	395512	0745354	7-02-96	48	STM130	401028	0743811	7-05-96	6	STM207	400517	0743939	7-09-96	59
STM51	395557	0745416	7-02-96	43	STM131	401112	0743813	7-05-96	56	STM208	400702	0743958	7-09-96	36
STM53	395612	0745319	7-02-96	41	STM132	401237	0743737	7-05-96	97	STM209	400650	0744302	7-09-96	40
STM54	395639	0745248	7-02-96	36	STM133	401333	0743737	7-05-96	87	STM210	400634	0744351	7-09-96	25
STM57	395740	0745312	7-03-96	15	STM134	401230	0743916	7-05-96	81	STM211	400558	0744406	7-09-96	53
STM58	395732	0745342	7-03-96	14	STM135	401300	0743902	7-05-96	78	STM212	400623	0744219	7-10-96	54
STM59	395831	0745411	7-03-96	47	STM136	401301	0744005	7-05-96	72	STM213	400534	0744142	7-10-96	Dry
STM60	395807	0745345	7-03-96	25	STM137	401330	0744023	7-05-96	81	STM214	400525	0744227	7-10-96	52
STM61	395834	0745334	7-03-96	27	STM138	401411	0744238	7-05-96	Dry	STM215	400503	0744358	7-10-96	49
STM62	395958	0745334	7-03-96	13	STM139	401218	0744353	7-05-96	Dry	STM216	400419	0744355	7-10-96	50
STM63	395349	0745307	7-03-96	55	STM140	401747	0744529	7-08-96	147	STM217	400356	0744136	7-10-96	55
STM65	395252	0745409	7-03-96	45	STM141	401829	0744606	7-08-96	209	STM218	400326	0744208	7-10-96	45
STM66	395303	0744706	7-03-96	36	STM142	401714	0744639	7-08-96	135	STM219	400215	0744130	7-10-96	Dry
STM67	395334	0744753	7-03-96	34	STM144	401638	0744738	7-08-96	147	STM220	400228	0744258	7-10-96	49
STM68	395404	0744754	7-03-96	29	STM145	401623	0744812	7-08-96	140	STM221	400257	0744334	7-10-96	35
STM69	395944	0744657	7-03-96	13	STM146	401543	0744412	7-08-96	72	STM222	400201	0744444	7-10-96	33
STM70	395342	0744559	7-03-96	34	STM147	401719	0744347	7-08-96	Dry	STM223	400102	0744400	7-10-96	57
STM71	395435	0744522	7-03-96	35	STM148	401555	0744344	7-08-96	113	STM224	400119	0744318	7-10-96	57
STM72	395454	0744508	7-03-96	33	STM150	401909	0744359	7-08-96	182	STM225	400005	0744401	7-10-96	40
STM73	395519	0744618	7-03-96	33	STM151	401702	0744106	7-08-96	64	STM226	400028	0744145	7-10-96	Dry
STM74	395459	0744850	7-03-96	49	STM152	401529	0743528	7-08-96	92	STM227	400014	0744012	7-10-96	68
STM76	395432	0745019	7-03-96	43	STM154	401452	0743522	7-08-96	79	STM228	400050	0744011	7-10-96	95
STM77	395439	0745159	7-03-96	49	STM155	401405	0743611	7-08-96	103	STM229	400134	0744011	7-10-96	82
STM79	395541	0744953	7-03-96	42	STM156	401305	0743513	7-08-96	118	STM230	400304	0743855	7-10-96	105
STM80	395537	0745051	7-03-96	54	STM158	401400	0743031	7-08-96	111	STM231	400211	0743838	7-10-96	109
STM81	395536	0745132	7-03-96	65	STM159	401338	0743004	7-08-96	127	STM232	400124	0743822	7-10-96	146
STM82	395637	0745124	7-03-96	41	STM160	401158	0743114	7-08-96	Dry	STM233	400034	0743814	7-10-96	97
STM83	395713	0745147	7-03-96	27	STM161	401148	0743032	7-08-96	Dry	STM234	400130	0743658	7-10-96	118
STM84	395732	0745041	7-03-96	26	STM162	401200	0743301	7-08-96	Dry	STM235	400107	0743343	7-10-96	Dry
STM85	395955	0744650	7-03-96	Moist	STM163	401201	0743509	7-08-96	116	STM236	400243	0743324	7-10-96	89
STM86	395813	0744507	7-03-96	38	STM164	401217	0743558	7-08-96	98	STM237	400319	0743611	7-10-96	Dry
STM87	395748	0744509	7-03-96	37	STM166	401133	0743632	7-08-96	91	STM238	400308	0743707	7-10-96	149
STM88	395714	0744524	7-03-96	41	STM167	401109	0743548	7-08-96	70	STM239	400405	0743708	7-10-96	Dry
STM89	395726	0744611	7-03-96	Dry	STM168	401007	0743132	7-08-96	Dry	STM240	400407	0743548	7-10-96	146
STM90	395731	0744702	7-03-96	32	STM169	400910	0743055	7-08-96	140	STM241	400424	0743436	7-10-96	134
STM91	395911	0745205	7-03-96	Moist	STM170	400754	0743144	7-08-96	96	STM242	400437	0743335	7-10-96	98
STM92	400013	0745401	7-03-96	13	STM171	400834	0743225	7-08-96	85	STM243	400430	0743526	7-10-96	Dry
STM93	400036	0745443	7-03-96	12	STM172	400838	0743409	7-08-96	77	STM244	400525	0743442	7-10-96	120
STM94	400111	0745558	7-03-96	11	STM173	400735	0743611	7-08-96	80	STM245	400554	0743431	7-10-96	119
STM95	400235	0745334	7-03-96	9	STM174	400903	0743619	7-08-96	Dry	STM246	400640	0743605	7-10-96	106
STM97	400400	0745241	7-03-96	11	STM175	400908	0743722	7-08-96	65	STM247	400702	0743434	7-10-96	Dry

Table 2-2. Altitude of water levels measured at stream sites in the Rancocas Creek study area, New Jersey, July 1996--Continued

Site number	Latitude	Longitude	Date water level measured	Altitude of water level (feet above sea level)	Site number	Latitude	Longitude	Date water level measured	Altitude of water level (feet above sea level)	Site number	Latitude	Longitude	Date water level measured	Altitude of water level (feet above sea level)
STM248	400543	0743308	7-10-96	101	STM305	395413	0743129	7-12-96	Dry	STM371	401437	0744213	7-05-96	47
STM249	400512	0743202	7-10-96	89	STM306	395330	0743011	7-12-96	Dry	STM372	401217	0744346	7-05-96	Dry
STM250	400717	0743152	7-10-96	98	STM307	395405	0743033	7-12-96	119	STM373	401216	0744337	7-05-96	Dry
STM251	400537	0743029	7-10-96	109	STM308	395602	0743326	7-12-96	Dry	STM374	401210	0744318	7-05-96	50
STM252	400319	0743029	7-10-96	Moist	STM309	395558	0743058	7-12-96	93	STM375	401212	0743054	7-08-96	103
STM253	400359	0743017	7-10-96	101	STM310	395813	0743008	7-12-96	91	STM376	401151	0743226	7-08-96	96
STM254	400357	0742954	7-10-96	130	STM311	395908	0743217	7-12-96	89	STM377	401253	0742623	7-09-96	183
STM256	400029	0742543	7-10-96	Dry	STM313	395930	0743311	7-12-96	Dry	STM378	401137	0742643	7-09-96	193
STM259	400308	0742725	7-10-96	Dry	STM314	395851	0743405	7-12-96	Dry	STM379	401205	0742702	7-09-96	192
STM260	400400	0742739	7-10-96	Dry	STM315	395706	0743352	7-12-96	Dry	STM380	401138	0742831	7-09-96	168
STM261	400354	0742719	7-10-96	Dry	STM316	395735	0743458	7-12-96	Moist	STM381	395132	0744137	7-16-96	Dry
STM262	400511	0742751	7-10-96	149	STM318	395759	0743706	7-12-96	52	STM382	395102	0744056	7-16-96	75
STM263	400639	0742657	7-10-96	138	STM319	395915	0743656	7-12-96	Dry	STM383	395158	0743927	7-16-96	81
STM264	400559	0742736	7-10-96	146	STM321	395541	0742742	7-15-96	119	STM384	395421	0744426	7-11-96	34
STM265	400533	0742939	7-10-96	132	STM322	395358	0742739	7-15-96	134	STM385	400425	0744451	7-10-96	76
STM266	400647	0742936	7-10-96	92	STM324	395258	0742434	7-12-96	Dry	STM386	400031	0744122	7-10-96	69
STM267	400717	0742948	7-10-96	74	STM325	395302	0742356	7-15-96	Dry	STM387	400138	0743337	7-10-96	78
STM268	395952	0744403	7-11-96	49	STM326	395345	0742352	7-15-96	Dry	STM388	400303	0743617	7-10-96	117
STM269	395925	0744436	7-11-96	56	STM327	395352	0742414	7-15-96	Dry	STM389	400723	0743137	7-10-96	106
STM270	395829	0744408	7-11-96	44	STM328	395357	0742256	7-15-96	Dry	STM390	400320	0742733	7-10-96	Dry
STM271	395704	0744443	7-11-96	46	STM329	395535	0742406	7-15-96	Dry	STM391	400322	0742648	7-10-96	130
STM272	395538	0744434	7-11-96	35	STM330	395728	0742328	7-15-96	Dry	STM392	400652	0742730	7-10-96	113
STM273	395517	0744432	7-11-96	43	STM332	395701	0742426	7-15-96	138	STM393	395505	0743645	7-11-96	87
STM274	395556	0744402	7-11-96	35	STM333	395857	0742540	7-15-96	Dry	STM394	395452	0743700	7-11-96	77
STM275	395709	0744127	7-11-96	60	STM334	395947	0742557	7-15-96	Dry	STM395	395424	0743517	7-11-96	100
STM277	395804	0744148	7-11-96	45	STM335	395913	0742459	7-15-96	Dry	STM396	395414	0743415	7-12-96	87
STM278	395922	0744112	7-11-96	43	STM339	395630	0742206	7-15-96	Dry	STM397	395314	0743337	7-12-96	Dry
STM279	395859	0744015	7-11-96	50	STM343	395207	0744403	7-16-96	82	STM398	395342	0743006	7-12-96	123
STM280	395910	0743859	7-11-96	Dry	STM345	395048	0744401	7-16-96	102	STM399	395909	0743324	7-12-96	78
STM282	395700	0743941	7-11-96	55	STM346	395119	0744147	7-16-96	Dry	STM400	395834	0743541	7-12-96	72
STM283	395534	0743836	7-11-96	56	STM347	395201	0743907	7-16-96	82	STM401	395940	0743705	7-12-96	116
STM284	395628	0744012	7-11-96	58	STM351	394944	0743654	7-16-96	Dry	STM402	395233	0742355	7-15-96	137
STM285	395718	0744040	7-11-96	54	STM352	394956	0743420	7-16-96	Ponded	STM403	395443	0742308	7-15-96	Dry
STM286	395535	0744152	7-11-96	40	STM353	395048	0743306	7-16-96	Dry	STM404	395433	0742317	7-15-96	Dry
STM287	395517	0744101	7-11-96	44	STM354	395125	0743252	7-16-96	118	STM405	395547	0742251	7-15-96	Dry
STM288	395529	0744218	7-11-96	35	STM355	395127	0743415	7-16-96	108	STM406	395510	0742244	7-15-96	Dry
STM289	395329	0744430	7-11-96	54	STM356	395209	0743256	7-16-96	Ponded	STM407	395527	0742231	7-15-96	121
STM291	395319	0744310	7-11-96	Moist	STM357	395219	0743320	7-16-96	Ponded	STM408	395538	0742414	7-15-96	Dry
STM293	395324	0743854	7-11-96	79	STM358	395201	0743018	7-16-96	Moist	STM409	395605	0742416	7-15-96	148
STM294	395330	0743742	7-11-96	Dry	STM359	395138	0743004	7-16-96	Dry	STM410	395641	0742359	7-15-96	Dry
STM295	395332	0743726	7-11-96	Dry	STM360	395133	0742905	7-16-96	Dry	STM412	395650	0742205	7-15-96	Dry
STM296	395402	0743638	7-11-96	Dry	STM361	395115	0742923	7-16-96	Dry	STM413	395550	0742119	7-15-96	107
STM297	395433	0743623	7-11-96	Dry	STM362	395222	0742946	7-16-96	125	STM414	395219	0743511	7-12-96	88
STM298	395350	0743513	7-11-96	Dry	STM363	395128	0742642	7-16-96	Dry	STM415	394927	0743612	7-16-96	96
STM299	395350	0743433	7-11-96	Dry	STM364	395036	0742529	7-16-96	Dry	STM416	395200	0743043	7-16-96	122
STM300	395315	0743539	7-12-96	98	STM365	395129	0742533	7-16-96	Dry	STM417	395217	0742609	7-16-96	Moist
STM301	395251	0743414	7-12-96	Dry	STM367	395224	0742510	7-16-96	Dry	STM427	395546	0744116	7-11-96	Moist
STM302	395300	0743355	7-12-96	Dry	STM368	395223	0742643	7-16-96	135					
STM303	395316	0743340	7-12-96	Dry	STM369	395220	0742742	7-16-96	133					
STM304	395450	0743218	7-12-96	92	STM370	400348	0745030	7-05-96	9					

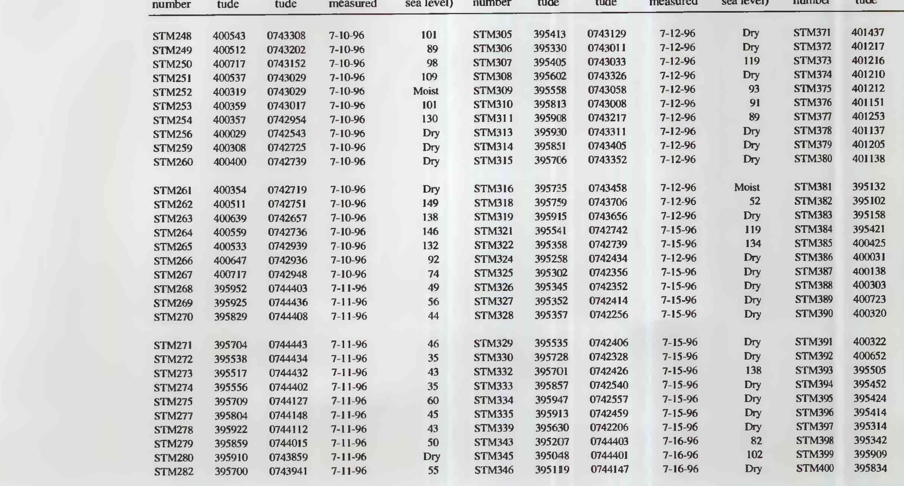


Figure 2-2. Water levels in Lebanon State Forest 23-D Obs well (5-689), Rancocas Creek study area, New Jersey, September 30, 1955, through April 2, 1997. (Well location shown in fig. 2-1; construction data listed in table 2-1. Water levels for September 1955 to April 1975 and January 1979 to April 1997 are monthly low water levels. Water levels for April 1975 to January 1979 are periodic manual measurements.)

Figure 2-3. Water levels in Fort Dix RLF-30 Obs well (29-1059), just outside the Rancocas Creek study area, New Jersey, May 31, 1992, through April 1, 1997. (Well location shown in fig. 2-1; construction data listed in table 2-1. Water levels reported as monthly low water levels.)

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by

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2003