



Water Resources Data Kentucky Water Year 1994



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT KY-94-1
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MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
BIG SANDY RIVER BASIN									
03207965		GRAPEVINE CREEK NEAR PHYLLIS, KY (LAT 37 25 57N LONG 082 21 14W)							
OCT 1993					MAY 1994				
13...	1335	1.1	1290	11.5	10...	1150	15	613	14.0
DEC					JUN				
07...	1300	5.6	548	9.0	28...	1235	2.4	1520	21.0
MAR 1994					AUG				
16...	1005	8.9	595	6.5	22...	1320	7.1	950	20.5
31...	1435	27	502	8.5					
03209500		LEVISA FORK AT PIKEVILLE, KY (LAT 37 27 51N LONG 082 31 35W)							
OCT 1993					JUN 1994				
13...	1020	314	646	13.0	29...	0820	1150	536	20.5
MAR 1994					AUG				
11...	1320	9970	450	3.5	23...	0810	1530	420	19.0
MAY									
11...	0800	2850	429	14.0					
03210000		JOHNS CREEK NEAR META, KY (LAT 37 34 01N LONG 082 27 29W)							
OCT 1993					MAY 1994				
13...	1445	12	864	11.5	10...	1355	133	329	14.5
NOV					25...	1010	23	847	19.5
30...	1300	26	656	5.0	JUN				
MAR 1994					28...	1420	16	680	22.5
15...	1055	143	459	8.0	AUG				
31...	1625	296	331	8.0	22...	1500	69	457	20.5
03212500		LEVISA FORK AT PAINTSVILLE, KY (LAT 37 48 55N LONG 082 47 30W)							
OCT 1993					MAY 1994				
04...	1320	675	430	10.5	17...	1400	2370	456	17.0
NOV					JUN				
23...	1100	1480	465	--	24...	1210	847	657	27.0
MAR 1994					JUL				
07...	1120	7820	320	9.0	26...	1130	798	635	27.0
APR									
14...	1205	23400	395	13.0					
LITTLE SANDY RIVER BASIN									
03216500		LITTLE SANDY RIVER AT GRAYSON, KY (LAT 38 19 48N LONG 082 56 22W)							
OCT 1993					MAY 1994				
06...	1145	40	266	13.5	18...	1040	772	164	14.0
APR 1994					JUL				
15...	0940	544	420	13.5	28...	1250	39	272	21.5
TYGARTS CREEK BASIN									
03216800		TYGARTS CREEK AT OLIVE HILL, KY (LAT 38 17 57N LONG 083 10 25W)							
OCT 1993					MAY 1994				
08...	1315	0.80	357	16.5	24...	1235	17	225	20.0
FEB 1994					JUN				
04...	1125	65	190	1.5	20...	1410	0.60	220	26.0
APR					JUL				
19...	0835	104	159	13.0	29...	1355	6.8	306	22.0
03217000		TYGARTS CREEK NEAR GREENUP, KY (LAT 38 33 51N LONG 082 57 08W)							
OCT 1993					MAY 1994				
07...	1530	1.9	298	15.0	20...	1250	189	197	14.5
FEB 1994					JUN				
04...	1440	229	228	1.5	21...	1450	12	250	28.0
APR					AUG				
19...	1245	532	184	14.5	01...	1115	56	270	22.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
KINNICONICK CREEK BASIN									
03237250 KINNICONICK CREEK NEAR TANNERY, KY (LAT 38 32 36N LONG 083 13 29W)									
OCT 1993					MAR 1994				
05...	1055	1.1	175	15.0	22...	0945	1240	65	8.5
NOV					JUN				
23...	1145	79	106	6.5	02...	1120	15	107	20.5
JAN 1994					JUL				
05...	1030	591	96	1.0	29...	1130	20	110	23.5
28...	1415	9350	58	5.5					
FEB									
16...	1120	748	77	3.5					
LICKING RIVER BASIN									
03248500 LICKING RIVER NEAR SALYERSVILLE, KY (LAT 37 45 03N LONG 083 05 04W)									
OCT 1993					APR 1994				
12...	1405	51	442	11.0	14...	1645	516	650	13.5
NOV					MAY				
26...	1330	97	349	11.0	17...	1110	110	346	15.5
MAR 1994					JUL				
04...	1120	807	630	4.0	26...	0850	18	531	23.5
03249500 LICKING RIVER AT FARMERS, KY (LAT 38 06 55N LONG 083 32 36W)									
OCT 1993					MAR 1994				
04...	1230	231	142	19.0	21...	1155	4420	120	7.0
NOV					APR				
22...	1250	2380	158	12.0	26...	1005	4310	112	11.5
JAN 1994					JUN				
03...	1410	944	162	5.0	02...	1520	146	122	17.0
FEB					JUL				
15...	1100	3660	141	2.0	11...	1505	50	--	25.0
03250100 NORTH FORK TRIPLETT CREEK NEAR MOREHEAD, KY (LAT 38 11 57N LONG 083 28 50W)									
OCT 1993					MAR 1994				
04...	1040	0.52	189	10.0	21...	1535	153	165	10.0
NOV					APR				
22...	1545	38	105	6.5	25...	1140	50	84	15.5
JAN 1994					MAY				
04...	1530	522	190	2.5	27...	1135	25	102	16.5
FEB					JUL				
15...	1540	335	83	4.0	11...	1155	0.49	160	24.0
03251200 NORTH FORK LICKING RIVER NEAR MT OLIVET, KY (LAT 38 35 41N LONG 084 01 13W)									
OCT 1993					APR 1994				
05...	1405	1.0	392	14.0	26...	1355	101	356	16.5
NOV					JUN				
23...	1505	112	443	6.5	03...	1015	19	426	18.5
JAN 1994					JUL				
05...	1350	617	435	0.0	12...	1415	2.0	317	23.5
MAR					AUG				
22...	1500	551	350	10.0	10...	1205	49	391	21.5
28...	1535	3280	242	8.5					
03251500 LICKING RIVER AT MCKINNEYSBURG, KY (LAT 38 35 52N LONG 084 16 00W)									
OCT 1993					MAR 1994				
07...	1350	263	169	17.5	24...	1225	6550	175	10.0
NOV					APR				
24...	1045	2860	215	9.0	27...	1040	5330	150	15.0
JAN 1994					JUN				
07...	1025	13200	254	3.0	02...	0940	489	231	20.5
FEB					JUL				
17...	1340	7180	211	3.5	14...	1225	1050	223	26.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
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LICKING RIVER BASIN--Continued

03252300 HINKSTON CREEK NEAR CARLISLE, KY (LAT 38 14 33N LONG 084 03 09W)

OCT 1993					APR 1994				
06...	1020	1.8	425	12.5	28...	0955	127	377	20.0
JAN 1994					JUN				
07...	1425	2870	238	5.0	14...	1225	17	360	23.5
FEB					JUL				
17...	1015	290	384	4.5	12...	1045	14	514	23.5
MAR					AUG				
25...	1120	102	512	13.5	10...	1420	6.5	360	23.0
28...	1215	2650	233	8.5					

03252500 SOUTH FORK LICKING RIVER AT CYNTHIANA, KY (LAT 38 23 27N LONG 084 18 11W)

OCT 1993					MAR 1994				
06...	1250	40	361	17.5	23...	1425	553	421	12.0
DEC					APR				
02...	0910	580	451	6.0	27...	1415	270	181	15.0
JAN 1994					JUN				
06...	1455	1340	455	2.5	01...	1545	82	389	24.0
FEB					JUL				
14...	1515	3840	329	5.0	14...	1000	23	363	26.0

03253500 LICKING RIVER AT CATAWBA, KY (LAT 38 42 31N LONG 084 18 38W)

OCT 1993					APR 1994				
07...	1120	286	184	15.0	28...	1310	6440	214	16.0
DEC					JUN				
03...	1045	3680	260	8.0	02...	1245	572	271	22.0
JAN 1994					JUL				
06...	1140	9040	350	1.5	13...	1215	139	287	28.5
MAR					AUG				
23...	1110	7570	234	9.5	11...	1400	555	306	24.0

KENTUCKY RIVER BASIN

03277400 LEATHERWOOD CREEK AT DAISY, KY (LAT 37 06 48N LONG 083 05 33W)

OCT 1993					APR 1994				
13...	0905	8.8	317	10.0	18...	1425	173	157	14.5
NOV					JUN				
16...	1345	58	188	13.5	07...	1340	15	320	21.5
JAN 1994					JUL				
11...	1500	96	177	4.5	20...	1325	9.7	--	25.0
MAR									
01...	1405	89	278	6.5					

03277450 CARR FORK NEAR SASSAFRAS, KY (LAT 37 13 52N LONG 083 02 10W)

OCT 1993					MAR 1994				
01...	1125	56	425	16.5	01...	1115	42	375	7.0
NOV					MAY				
16...	1130	139	476	13.0	19...	1625	11	408	16.0
JAN 1994					JUL				
11...	1205	456	387	4.5	20...	1120	11	--	20.0

03280000 NORTH FORK KENTUCKY RIVER AT JACKSON, KY (LAT 37 32 46N LONG 083 22 21W)

OCT 1993					MAR 1994				
14...	1000	429	733	14.0	01...	1630	2790	481	5.0
NOV					APR				
16...	1615	1750	406	13.0	18...	1710	5110	334	14.0
JAN 1994					JUN				
12...	0910	5140	393	3.5	07...	1745	310	916	22.0

03280600 MIDDLE FORK KENTUCKY RIVER NEAR HYDEN, KY (LAT 37 08 13N LONG 083 22 17W)

APR 1994									
13...	1310	5390	94	12.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	
KENTUCKY RIVER BASIN--Continued										
		03280700	CUTSHIN CREEK AT WOOTON, KY (LAT 37 09 54N LONG 083 18 29W)							
JAN 1994					MAY 1994					
03...	1110	91	276	4.5	20...	1300	31	424	16.0	
FEB					AUG					
28...	1145	118	288	3.0	26...	1425	8.5	432	26.0	
APR										
21...	1305	104	305	13.5						
		03281000	MIDDLE FORK KENTUCKY RIVER AT TALLEGA, KY (LAT 37 33 18N LONG 083 35 38W)							
OCT 1993					APR 1994					
14...	1315	92	322	14.0	19...	0830	4140	121	14.0	
NOV					JUN					
17...	0910	904	252	12.0	08...	0905	220	158	20.0	
JAN 1994					JUL					
12...	1200	4500	126	5.0	21...	0835	130	--	24.0	
MAR										
02...	0850	3890	140	7.0						
		03281040	RED BIRD RIVER NEAR BIG CREEK, KY (LAT 37 10 43N LONG 083 35 35W)							
OCT 1993					APR 1994					
04...	1005	27	283	14.0	11...	1145	3390	91	11.0	
NOV					13...	1030	3860	105	12.5	
15...	1035	285	212	13.5	JUN					
JAN 1994					03...	1135	28	365	20.0	
03...	1320	264	162	4.0	JUL					
FEB					19...	1303	63	--	24.0	
28...	1430	320	201	4.5						
		03281100	GOOSE CREEK AT MANCHESTER, KY (LAT 37 09 07N LONG 083 45 37W)							
OCT 1993					APR 1994					
04...	1230	35	315	14.0	11...	1415	3250	83	12.0	
NOV					JUN					
15...	1325	406	226	14.0	03...	1355	21	--	20.0	
JAN 1994					JUL					
06...	1055	578	129	4.0	19...	1450	88	--	24.0	
MAR										
04...	1410	931	104	6.5						
		03281500	SOUTH FORK KENTUCKY RIVER AT BOONEVILLE, KY (LAT 37 28 45N LONG 083 40 38W)							
OCT 1993					FEB 1994					
13...	1550	106	282	13.5	25...	1150	4140	114	7.5	
NOV					APR					
18...	1415	5660	128	13.0	19...	1140	2220	127	14.0	
JAN 1994										
12...	1525	4610	140	4.0						
		03282040	STURGEON CREEK AT CRESSMONT, KY (LAT 37 30 02N LONG 083 48 37W)							
OCT 1993					MAR 1994					
08...	1145	5.6	170	14.0	02...	1315	291	140	4.5	
NOV					28...	1027	2380	60	9.0	
18...	1140	375	89	11.5	JUN					
JAN 1994					09...	1305	28	175	20.5	
13...	1255	361	102	5.0	JUL					
28...	1305	1440	70	7.5	25...	1310	5.2	186	24.0	
					AUG					
					30...	1130	8.2	--	21.0	
		03282500	RED RIVER NEAR HAZEL GREEN, KY (LAT 37 48 44N LONG 083 27 50W)							
OCT 1993					MAY 1994					
26...	1500	32	127	13.5	25...	1030	13	129	19.5	
NOV					JUN					
29...	1330	213	135	--	22...	1320	8.1	189	27.0	
FEB 1994					AUG					
09...	1100	1250	250	3.0	02...	0845	3.3	188	22.5	
APR										
18...	1400	229	150	13.5						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
KENTUCKY RIVER BASIN--Continued									
03283500 RED RIVER AT CLAY CITY, KY (LAT 37 51 53N LONG 083 56 01W)									
OCT 1993					MAY 1994				
26...	1310	192	152	12.5	25...	1330	132	240	20.0
JAN 1994					JUN				
11...	1300	884	140	2.0	22...	1105	37	215	25.5
APR					AUG				
18...	1055	1280	275	13.0	02...	1130	44	491	24.0
03284000 KENTUCKY RIVER AT LOCK 10 NEAR WINCHESTER, KY (LAT 37 53 41N LONG 084 15 44W)									
OCT 1993					APR 1994				
05...	1430	819	385	21.0	05...	0855	14500	216	9.5
DEC					JUN				
01...	1015	7570	223	8.0	16...	1200	1090	457	27.5
JAN 1994					JUL				
11...	0945	17900	194	3.5	12...	1045	400	550	30.5
FEB					AUG				
18...	0915	13800	217	5.5	19...	0915	806	422	28.0
03285000 DIX RIVER NEAR DANVILLE, KY (LAT 37 38 31N LONG 084 39 39W)									
OCT 1993					APR 1994				
06...	1210	3.4	317	18.0	06...	1050	493	267	11.5
DEC					JUN				
01...	1530	271	377	5.0	09...	1340	143	311	24.0
JAN 1994					JUL				
12...	1320	2690	264	4.5	13...	0950	4.8	335	25.5
FEB					AUG				
17...	1650	630	260	7.0	13...	1330	11	305	26.0
03285200 CLARKS RUN NEAR DANVILLE, KY (LAT 37 38 20N LONG 084 43 16W)									
OCT 1993					APR 1994				
06...	1045	3.0	1700	12.5	06...	1340	45	468	12.5
DEC					JUN				
02...	1000	21	598	7.5	09...	1530	125	298	20.5
JAN 1994					JUL				
12...	1705	107	427	6.5	13...	1155	4.1	1230	24.5
28...	1020	543	292	8.5					
FEB									
16...	1815	67	428	7.5					
03286500 KENTUCKY RIVER AT LOCK 7 AT HIGHBRIDGE, KY (LAT 37 49 45N LONG 084 43 26W)									
OCT 1993					APR 1994				
06...	1020	793	401	19.5	07...	0920	16300	236	9.5
DEC					JUN				
03...	1050	5310	249	8.0	15...	0945	1440	323	24.5
JAN 1994					JUL				
28...	1410	51300	240	4.0	08...	1010	837	498	28.0
FEB					AUG				
22...	1115	17200	258	7.0	18...	1000	592	335	30.0
MAR									
10...	1140	91900	180	6.0					
11...	1300	78300	158	6.5					
03287000 KENTUCKY RIVER AT LOCK 6 NEAR SALVISA, KY (LAT 37 55 32N LONG 084 49 17W)									
DEC 1993					APR 1994				
02...	1455	6680	280	7.5	08...	0945	18500	249	10.0
JAN 1994					JUN				
13...	1100	23800	240	4.0	17...	1230	1130	310	24.5
FEB					JUL				
16...	1355	30400	201	5.5	11...	1345	562	455	28.0

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

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KENTUCKY RIVER BASIN--Continued									
03287500 KENTUCKY RIVER AT LOCK 4 AT FRANKFORT, KY (LAT 38 12 06N LONG 084 52 54W)									
OCT 1993					JUN 1994				
05...	1000	987	297	19.5	14...	1035	1530	287	25.0
DEC					JUL				
06...	1155	42100	274	8.5	06...	1000	610	369	27.5
MAR 1994					AUG				
03...	1055	18800	239	6.0	17...	1100	589	461	26.0
APR									
04...	1000	21800	224	9.0					
03288000 NORTH ELKHORN CREEK NEAR GEORGETOWN, KY (LAT 38 12 20N LONG 084 30 49W)									
OCT 1993					APR 1994				
04...	1850	4.6	438	14.0	11...	1045	314	376	13.0
NOV					MAY				
30...	1625	242	403	7.0	27...	1500	57	396	20.5
JAN 1994					JUL				
26...	1215	1590	296	4.5	07...	1526	5.9	390	26.0
FEB									
15...	1625	577	380	6.5					
03288100 NORTH ELKHORN CREEK AT GEORGETOWN, KY (LAT 38 13 10N LONG 084 33 48W)									
OCT 1993					MAY 1994				
04...	1645	7.8	550	15.5	27...	1625	68	483	20.5
JAN 1994					JUL				
10...	1515	443	434	3.5	05...	1500	5.5	432	29.0
FEB					AUG				
18...	1505	282	424	7.5	16...	1345	5.5	576	25.5
22...	0920	195	443	10.0					
APR									
05...	1330	208	403	11.5					
03288110 ROYAL SPRINGS AT GEORGETOWN, KY (LAT 38 12 34N LONG 084 33 43W)									
OCT 1993					JUL 1994				
04...	1525	1.2	711	18.5	07...	1505	3.9	605	18.5
APR 1994					AUG				
05...	1500	41	470	11.0	16...	1200	2.1	768	18.5
03289300 SOUTH ELKHORN CREEK NEAR MIDWAY, KY (LAT 38 08 27N LONG 084 38 43W)									
OCT 1993					APR 1994				
07...	1110	35	681	15.0	07...	1345	501	355	10.5
NOV					MAY				
29...	1705	262	484	8.0	27...	1240	111	319	19.0
JAN 1994					JUL				
13...	1600	250	525	8.0	06...	1435	76	685	28.0
MAR					AUG				
03...	1450	249	449	6.0	17...	1540	78	483	24.0
03289500 ELKHORN CREEK NEAR FRANKFORT, KY (LAT 38 16 07N LONG 084 48 53W)									
OCT 1993					APR 1994				
04...	1240	55	534	13.5	04...	1350	1100	409	11.5
DEC					MAY				
07...	0930	2030	425	8.5	26...	1120	242	457	11.5
JAN 1994					JUL				
10...	1210	1790	456	4.0	05...	1235	65	565	27.5
FEB									
14...	1040	2790	416	5.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT ³ /S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
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KENTUCKY RIVER BASIN--Continued

03291500

EAGLE CREEK AT GLENCOE, KY (LAT 38 42 18N LONG 084 49 26W)

OCT 1993					JUN 1994				
07...	0925	1.8	344	14.5	03...	1420	42	465	22.0
DEC					JUL				
02...	1320	141	375	4.5	15...	1155	307	306	24.0
JAN 1994					AUG				
11...	1045	305	372	0.5	12...	1230	28	315	24.0
28...	1010	19800	160	3.0	SEP				
MAR					15...	1330	1.5	307	25.0
25...	1410	246	546	13.0					
APR									
28...	1240	609	200	20.5					

HARRODS CREEK BASIN

03292460

HARRODS CREEK NEAR LA GRANGE, KY (LAT 38 26 50N LONG 085 24 33W)

NOV 1993					APR 1994				
17...	1615	153	331	12.0	06...	1355	24	502	10.5
JAN 1994					MAY				
14...	1115	18	563	0.5	05...	1100	21	491	13.0
28...	0840	850	214	4.0	JUL				
FEB					25...	1045	0.01	385	24.0
28...	1045	17	336	1.5					

BEARGRASS CREEK BASIN

03292700

MIDDLE FK BEARGRASS CREEK TRIB NEAR MIDDLETOWN, K(LAT 38 15 05N LONG 085 33 36

DEC 1993					APR 1994				
14...	1420	40	486	8.5	13...	1440	5.3	527	13.5
14...	1555	2.1	412	10.5	13...	1605	2.3	552	14.5
FEB 1994					JUN				
08...	1433	38	139	4.0	14...	1435	0.25	583	23.5
					JUL				
					12...	1625	0.15	612	23.5

SALT RIVER BASIN

03295400

SALT RIVER AT GLENSBORO, KY (LAT 38 00 07N LONG 085 03 38W)

OCT 1993					MAY 1994				
06...	1615	3.6	703	15.5	03...	1225	147	461	14.0
NOV					JUN				
24...	1600	64	489	9.5	14...	1555	17	454	27.5
FEB 1994					JUL				
03...	1525	152	473	2.5	19...	1655	19	451	30.5
22...	1550	263	483	9.0					
APR									
05...	1635	183	433	12.5					

03295890

BRASHEARS CREEK AT TAYLORSVILLE, KY (LAT 38 02 13N LONG 085 20 27W)

OCT 1993					MAY 1994				
07...	1000	2.4	441	15.0	03...	1530	732	375	13.0
NOV					JUN				
26...	1245	134	456	9.0	17...	1125	8.3	437	15.5
FEB 1994					JUL				
03...	1320	421	406	0.5	20...	1025	5.5	403	26.5
23...	1100	5170	294	7.0	AUG				
APR					24...	1125	3.0	483	22.5
06...	1650	531	408	11.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
SALT RIVER BASIN--Continued									
03297900		FLOYDS FORK NEAR PEWEE VALLEY, KY (LAT 38 17 07N LONG 085 28 04W)							
OCT 1993					MAY 1994				
07...	1300	1.1	595	13.0	05...	1330	78	524	13.0
NOV					JUN				
26...	1520	32	589	10.0	17...	1445	1.7	460	32.5
JAN 1994					JUL				
14...	1425	65	610	1.0	20...	1305	1.3	438	25.0
28...	0915	4360	155	4.5	SEP				
FEB					02...	1420	0.96	562	20.0
23...	1515	701	353	8.0					
APR									
06...	0940	73	314	11.0					
03298500		SALT RIVER AT SHEPHERDSVILLE, KY (LAT 37 59 06N LONG 085 43 03W)							
OCT 1993					MAY 1994				
04...	1050	42	430	15.5	11...	1200	3320	348	15.0
NOV					JUN				
22...	1130	3420	362	9.0	13...	0950	98	420	24.5
JAN 1994					JUL				
10...	1100	2590	427	0.5	18...	1000	54	342	26.0
FEB					AUG				
18...	1005	5150	370	3.5	22...	1120	69	353	23.5
APR									
04...	1040	4170	357	9.5					
03298550		LONG LICK AT CLERMONT, KY (LAT 38 55 40N LONG 085 39 15W)							
OCT 1993					MAY 1994				
04...	1615	0.10	993	17.5	04...	1535	8.4	400	14.5
NOV					JUN				
22...	1515	2.3	780	9.5	14...	1010	0.55	505	21.0
JAN 1994					JUL				
11...	1110	4.8	398	5.0	19...	1045	0.13	640	22.0
FEB					AUG				
22...	0950	12	302	7.5	22...	1340	0.44	514	22.5
APR									
05...	1005	11	--	9.5					
03300400		BEECH FORK AT MAUD, KY (LAT 37 49 58N LONG 085 17 46W)							
OCT 1993					MAY 1994				
06...	1320	1.5	319	15.0	11...	1540	450	385	17.0
NOV					JUN				
24...	1255	138	372	7.5	14...	1255	48	476	25.5
JAN 1994					JUL				
11...	1355	494	384	1.5	19...	1335	46	361	26.5
FEB					AUG				
22...	1300	778	458	9.5	23...	1420	342	179	21.5
APR									
05...	1250	546	450	10.5					
03301500		ROLLING FORK NEAR BOSTON, KY (LAT 37 46 02N LONG 085 42 14W)							
OCT 1993					MAY 1994				
05...	1425	25	423	14.5	04...	1200	1730	346	14.5
NOV					JUN				
23...	1155	644	373	7.5	13...	1340	187	414	25.5
JAN 1994					JUL				
10...	1540	2810	329	2.0	18...	1355	134	361	26.0
FEB					AUG				
18...	1435	2400	362	5.5	23...	1000	1940	316	23.5
APR									
04...	1520	2510	356	10.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT ³ /S)	SPE-CIFIC CON-DUCT-ANCE (US/CM)	TEMPER-ATURE WATER (DEG C)
SALT RIVER BASIN--Continued									
03301580		WILSON CREEK NEAR DEATSVILLE, KY (LAT 37 51 49N LONG 085 36 41W)							
OCT 1993					MAY 1994				
19...	1330	2.3	478	16.0	17...	1225	10	424	16.0
DEC 09...	1435	7.3	301	6.0	JUN 10...	1045	1.8	458	21.0
FEB 1994					JUL 21...	1140	0.15	463	26.0
24...	1125	46	332	5.5	AUG 16...	1110	0.05	458	21.0
MAR 17...	1325	19	273	7.0					
APR 19...	1155	18	393	17.5					
03301585		HARTS RUN AT MOUTH NEAR DEATSVILLE, KY (LAT 37 51 49N LONG 085 36 44W)							
DEC 1993					APR 1994				
09...	1505	1.1	190	8.0	19...	1535	2.9	260	19.5
FEB 1994					MAY 17...	1440	1.3	300	17.5
24...	1210	8.2	160	5.0	JUN 10...	1130	0.08	381	18.0
MAR 17...	1230	2.5	178	7.5					
03302000		POND CREEK NEAR LOUISVILLE, KY (LAT 38 07 11N LONG 085 47 45W)							
NOV 1993					APR 1994				
04...	1430	29	538	10.5	05...	1000	72	404	11.5
DEC 07...	1320	74	545	7.0	MAY 03...	1155	107	480	13.0
JAN 1994					JUL 05...	1140	6.1	664	31.5
06...	1305	52	484	3.0	AUG 02...	1405	8.3	630	27.0
FEB 01...	1245	82	601	1.0					
MAR 01...	1000	54	463	6.5					
GREEN RIVER BASIN									
03306000		GREEN RIVER NEAR CAMPBELLSVILLE, KY (LAT 37 14 25N LONG 085 20 50W)							
OCT 1993					APR 1994				
05...	1445	76	234	21.0	07...	1545	5330	95	9.0
NOV 30...	1505	1430	162	10.5	MAY 05...	1000	1530	102	12.0
JAN 1994					JUN 15...	1315	150	109	21.0
12...	1650	2780	146	4.0					
FEB 24...	1310	3300	131	4.5					
03307000		RUSSELL CREEK NEAR COLUMBIA, KY (LAT 37 07 09N LONG 085 23 38W)							
OCT 1993					MAY 1994				
05...	0930	8.3	282	14.0	05...	1305	271	260	14.0
DEC 01...	1145	126	251	4.0	JUN 16...	1415	50	261	26.5
JAN 1994					JUL 21...	1510	84	235	26.5
13...	1440	511	215	6.5	AUG 25...	1135	56	268	22.5
FEB 25...	1050	860	188	7.0					
APR 08...	1005	433	189	9.0					
03307260		LITTLE PITMAN CREEK NEAR CAMPBELLSVILLE, KY (LAT 37 20 50N LONG 085 23 25W)							
OCT 1993					MAY 1994				
05...	1240	9.0	2210	19.5	04...	1445	25	857	16.5
NOV 30...	1120	17	710	7.0	JUN 16...	1030	7.3	2140	26.5
JAN 1994					JUL 22...	0920	9.6	1580	25.5
13...	1005	70	532	7.0	AUG 26...	0955	11	224	25.5
FEB 24...	1630	110	352	10.0					
APR 07...	1925	69	464	14.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	SPE-CIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTANTANEOUS (FT ³ /S)	SPE-CIFIC CONDUCTANCE (US/CM)	TEMPERATURE WATER (DEG C)	
GREEN RIVER BASIN--Continued										
		03310300	NOLIN RIVER AT WHITE MILLS, KY (LAT 37 33 03N LONG 086 02 43W)							
OCT 1993					APR 1994					
04...	1140	61	767	14.0	19...	1042	877	253	15.0	
NOV					MAY					
30...	0900	214	430	6.0	25...	1000	251	353	18.0	
JAN 1994					JUN					
06...	0925	336	385	5.0	28...	1000	188	418	21.0	
FEB					AUG					
07...	0935	570	378	7.5	01...	1050	63	472	21.5	
		03310400	BACON CREEK NEAR PRICEVILLE, KY (LAT 37 21 31N LONG 085 59 53W)							
OCT 1993					APR 1994					
04...	1345	8.7	447	12.5	19...	1250	132	263	16.0	
NOV					MAY					
30...	1115	17	236	4.0	25...	1315	28	306	18.0	
JAN 1994					JUN					
06...	1100	36	350	4.5	28...	1250	19	314	20.0	
FEB					AUG					
07...	1110	55	366	6.5	01...	1325	11	313	21.0	
MAR										
15...	1013	152	243	12.0						
		03311600	BEAVERDAM CREEK AT RHODA, KY (LAT 37 09 18N LONG 086 13 35W)							
OCT 1993					APR 1994					
08...	0830	0.60	246	14.5	21...	0920	11	126	13.0	
DEC					MAY					
02...	0800	2.2	241	6.0	24...	1705	2.1	217	20.0	
JAN 1994					JUN					
07...	0830	355	98	7.0	29...	1250	2.3	216	21.0	
FEB					AUG					
17...	0836	18	95	5.5	03...	0915	1.7	229	21.0	
MAR										
17...	1255	12	108	9.0						
		03312765	BEAVER CREEK AT HWY 31 E NEAR GLASGOW, KY (LAT 37 02 05N LONG 085 54 13W)							
OCT 1993					APR 1994					
04...	1450	4.1	543	14.5	19...	1623	140	227	15.5	
NOV					MAY					
30...	1335	20	432	6.5	25...	0745	26	397	18.5	
JAN 1994					JUN					
10...	0830	134	315	7.0	28...	1455	27	371	19.5	
FEB					AUG					
07...	1310	59	339	8.5	01...	1600	12	433	22.0	
MAR										
15...	1600	218	169	12.0						
17...	0915	164	165	8.5						
		03313000	BARREN RIVER NEAR FINNEY, KY (LAT 36 53 42N LONG 086 08 02W)							
OCT 1993					APR 1994					
18...	1252	3050	193	13.0	20...	1333	3480	118	12.5	
DEC					MAY					
07...	1235	3050	365	9.0	26...	1415	3210	134	14.5	
JAN 1994					JUN					
10...	1115	3420	266	3.0	30...	1045	2850	190	18.5	
FEB					AUG					
08...	0835	3430	186	6.0	02...	1445	374	233	20.0	
MAR										
16...	1530	4500	112	8.0						
		03313700	WEST FORK DRAKES CREEK NEAR FRANKLIN, KY (LAT 36 43 24N LONG 086 33 08W)							
OCT 1993					APR 1994					
19...	1500	88	252	15.5	26...	0900	141	250	18.0	
20...	0827	186	293	12.5	JUN					
DEC					22...	0700	53	268	25.0	
07...	0823	402	224	9.5	AUG					
JAN 1994					23...	0738	27	273	23.0	
25...	0800	431	170	3.5						
MAR										
16...	0800	296	221	12.0						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	
GREEN RIVER BASIN--Continued										
		03314500	BARREN RIVER AT BOWLING GREEN, KY (LAT 37 00 04N LONG 086 25 51W)							
OCT 1993					APR 1994					
19...	0958	3280	199	15.0	20...	0855	5670	163	14.0	
DEC					MAY					
01...	1200	1480	306	8.5	26...	0915	3730	153	16.0	
JAN 1994					JUN					
11...	1215	4840	273	4.0	30...	1325	4830	191	21.0	
FEB					AUG					
09...	0910	5000	217	6.5	02...	1010	730	282	22.5	
MAR										
16...	1020	6510	144	9.5						
		03316000	MUD RIVER NEAR LEWISBURG, KY (LAT 37 00 15N LONG 086 54 26W)							
JUN 1994										
22...	1030	10	447	25.5						
		03316500	GREEN RIVER AT PARADISE, KY (LAT 37 15 50N LONG 086 58 40W)							
OCT 1993					MAR 1994					
07...	1400	2360	370	25.0	23...	0930	16600	215	11.0	
DEC					JUL					
01...	1415	5250	281	12.0	12...	1354	2860	286	29.5	
FEB 1994										
16...	1436	42300	219	10.0						
		03318500	ROUGH RIVER AT FALLS OF ROUGH, KY (LAT 37 35 20N LONG 086 33 05W)							
DEC 1993					APR 1994					
08...	1000	1690	275	8.5	22...	0813	373	158	12.0	
JAN 1994					MAY					
05...	1130	346	276	3.0	24...	1145	121	198	16.5	
FEB					JUN					
16...	1255	2760	121	5.0	27...	1715	69	241	18.0	
MAR					AUG					
18...	0930	152	1150	8.0	04...	0930	54	227	17.0	
		03319600	ROUGH RIVER AT HARTFORD, KY (LAT 37 27 11N LONG 086 54 39W)							
OCT 1993					JUN 1994					
20...	1400	1520	200	19.0	21...	0721	120	266	26.5	
APR 1994										
25...	1410	469	204	16.5						
		03320000	GREEN RIVER AT LOCK 2 AT CALHOUN, KY (LAT 37 32 02N LONG 087 15 50W)							
OCT 1993					MAR 1994					
07...	1100	2250	522	22.0	18...	1322	48500	208	10.0	
DEC					JUL					
01...	1041	7620	288	9.5	12...	0951	3210	318	28.0	
FEB 1994										
16...	0947	46400	207	6.5						
		03320500	POND RIVER NEAR APEX, KY (LAT 37 07 20N LONG 087 19 10W)							
OCT 1993					APR 1994					
18...	0749	0.18	281	16.5	25...	0830	90	308	19.0	
DEC					JUN					
06...	0947	693	200	9.0	24...	0755	5.2	308	27.0	
JAN 1994					JUL					
27...	0848	2900	106	5.5	26...	1410	6.5	320	32.0	
FEB					AUG					
24...	1330	1610	156	8.0	23...	1215	0.37	314	28.5	
MAR										
15...	0829	639	184	9.5						

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (FT ³ /S)	SPE-CIFIC CON-DUCTANCE (US/CM)	TEMPER-ATURE WATER (DEG C)	DATE	TIME	STREAM-FLOW INSTAN-TANEOUS (FT ³ /S)	SPE-CIFIC CON-DUCTANCE (US/CM)	TEMPER-ATURE WATER (DEG C)		
GREEN RIVER BASIN--Continued											
		03321060	POND RIVER NEAR MADISONVILLE, KY (LAT 37 19 02N LONG 087 22 09W)								
FEB 1994					AUG 1994						
24...	0900	1930	345	8.5	24...	0845	4.8	3770	23.0		
JUN											
23...	0740	23	1430	29.0							
		03321210	CYPRESS CREEK NEAR CALHOUN, KY (LAT 37 29 20N LONG 087 17 10W)								
OCT 1993					JUN 1994						
07...	0936	8.1	2470	16.5	23...	1050	10	1410	29.5		
FEB 1994					JUL						
24...	1148	606	539	8.5	26...	1030	21	2320	26.5		
APR											
25...	1145	137	1060	20.5							
HIGHLAND CREEK BASIN											
		03322360	BEAVERDAM CREEK NEAR CORYDON, KY (LAT 37 42 14N LONG 087 41 52W)								
OCT 1993					JUN 1994						
19...	1335	4.5	335	20.0	20...	0850	0.61	544	24.5		
APR 1994											
21...	1130	4.7	468	16.5							
TRADEWATER RIVER BASIN											
		03383000	TRADEWATER RIVER AT OLNEY, KY (LAT 37 13 26N LONG 087 46 53W)								
OCT 1993					JUL 1994						
18...	1130	1.1	283	16.5	07...	0734	13	329	26.5		
DEC					SEP						
02...	1200	68	--	9.0	01...	1015	0.72	362	23.0		
APR 1994											
22...	1135	216	265	17.5							
CUMBERLAND RIVER BASIN											
		03400800	MARTINS FORK NEAR SMITH, KY (LAT 36 45 08N LONG 083 15 27W)								
OCT 1993					MAY 1994						
04...	1055	25	193	--	26...	1140	62	123	18.0		
NOV					JUL						
15...	1135	42	123	13.0	07...	1300	14	122	25.5		
JAN 1994					AUG						
03...	1230	173	123	4.5	16...	1325	5.2	184	24.5		
MAR					29...	1405	66	140	22.5		
03...	1225	459	93	6.5							
APR											
25...	1150	270	99	13.0							
		03401000	CUMBERLAND RIVER NEAR HARLAN, KY (LAT 36 50 48N LONG 083 21 21W)								
OCT 1993					APR 1994						
04...	0850	88	512	15.0	20...	0950	1640	251	12.0		
NOV					MAY						
16...	1015	354	402	14.0	25...	1100	267	520	--		
JAN 1994					JUL						
13...	1000	2290	210	6.0	08...	1140	135	541	25.0		
MAR					AUG						
04...	0930	2830	210	5.0	17...	0920	320	--	20.5		
28...	1000	11400	121	9.5							
29...	1135	4660	166	8.5							

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN--Continued									
03402000 YELLOW CREEK NEAR MIDDLESBORO, KY (LAT 36 40 05N LONG 083 41 19W)									
OCT 1993					APR 1994				
04...	1255	8.0	547	16.0	14...	0850	509	203	11.0
NOV					18...	0920	316	263	11.0
17...	0855	45	412	14.0	MAY				
JAN 1994					23...	1038	33	498	18.5
12...	1100	592	248	5.5	JUL				
MAR					06...	0950	17	524	25.0
07...	1045	181	280	8.0	AUG				
					18...	0815	15	624	21.5
03402900 CUMBERLAND R AT PINE ST BR AT PINEVILLE, KY (LAT 36 45 47N LONG 083 41 31W)									
OCT 1993					APR 1994				
06...	1030	126	305	16.5	18...	1355	4440	247	12.5
NOV					MAY				
17...	1125	781	389	14.0	23...	1326	539	505	19.0
FEB 1994					JUL				
03...	1200	1630	325	1.5	06...	1220	290	466	27.0
MAR					AUG				
07...	1305	3030	275	8.5	18...	1200	780	532	22.5
28...	1330	28700	121	9.5					
03404000 CUMBERLAND RIVER AT WILLIAMSBURG, KY (LAT 36 44 38N LONG 084 09 30W)									
OCT 1993					APR 1994				
04...	1320	226	--	16.0	25...	1100	2530	334	16.0
NOV					JUN				
16...	1005	1640	415	12.5	03...	1155	724	410	21.0
JAN 1994					JUL				
14...	1020	8160	227	5.0	25...	0815	949	293	23.5
FEB					28...	1025	671	348	24.0
14...	1015	32800	147	5.0					
15...	1110	28100	180	6.5					
03404500 CUMBERLAND RIVER AT CUMBERLAND FALLS, KY (LAT 36 50 14N LONG 084 20 36W)									
OCT 1993					APR 1994				
01...	0950	599	--	14.0	12...	0915	22000	161	13.0
NOV					MAY				
18...	1200	2890	279	12.5	24...	0925	988	323	19.0
JAN 1994					JUL				
10...	0955	17300	143	3.5	05...	0945	736	--	26.0
MAR					AUG				
02...	1140	6010	272	5.0	19...	0840	696	445	25.0
03404900 LYNN CAMP CREEK AT CORBIN, KY (LAT 36 57 05N LONG 084 05 37W)									
OCT 1993					APR 1994				
01...	1430	21	442	17.5	12...	0945	549	209	14.0
NOV					JUN				
15...	1305	155	355	15.0	07...	1330	11	823	26.5
JAN 1994					JUL				
12...	0945	502	237	4.0	21...	1150	17	404	25.0
FEB									
28...	1120	97	519	5.0					
03406500 ROCKCASTLE RIVER AT BILLOWS, KY (LAT 37 10 16N LONG 084 17 46W)									
OCT 1993					APR 1994				
01...	1045	109	227	14.5	13...	1030	5890	101	14.0
NOV					JUN				
15...	0940	2340	208	12.0	07...	1010	81	239	21.5
JAN 1994					JUL				
13...	1120	3050	154	5.5	21...	0900	124	215	24.5
MAR									
01...	1020	1150	156	5.0					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT ³ /S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
CUMBERLAND RIVER BASIN--Continued									
03413200		BEAVER CREEK NEAR MONTICELLO, KY (LAT 36 47 51N LONG 084 53 46W)							
OCT 1993					APR 1994				
07...	1115	1.6	626	15.5	15...	1030	121	229	14.5
NOV					JUN				
17...	1040	12	424	14.5	08...	1140	31	315	17.5
JAN 1994					JUL				
10...	1015	108	260	8.0	20...	1140	5.3	227	21.5
FEB					AUG				
23...	1055	1530	144	11.0	30...	1100	12	481	18.0
03438000		LITTLE RIVER NEAR CADIZ, KY (LAT 36 46 40N LONG 087 43 18W)							
OCT 1993					APR 1994				
20...	1238	218	420	17.0	28...	0740	371	376	18.0
DEC					JUN				
08...	0735	471	253	11.0	29...	1320	313	360	18.0
JAN 1994					SEP				
25...	1454	1480	--	7.5	01...	1500	43	491	21.5
MAR									
17...	0723	686	350	11.0					
28...	1400	2130	253	12.0					
03610200		CLARKS RIVER AT ALMO, KY (LAT 36 41 30N LONG 088 16 25W)							
OCT 1993					APR 1994				
21...	1121	125	125	18.0	11...	1158	3980	77	15.5
DEC					29...	0957	233	136	20.0
09...	0746	83	149	8.5	JUN				
JAN 1994					28...	1315	56	166	25.0
26...	1359	581	--	5.0	JUL				
MAR					26...	1340	13	171	27.0
18...	0725	61	157	10.5	AUG				
28...	1055	2730	99	9.0	31...	1155	8.0	--	25.0
29...	0908	377	116	9.5					
03610545		WEST FORK CLARKS RIVER NEAR BREWERS, KY (LAT 36 46 48N LONG 088 28 03W)							
OCT 1993					APR 1994				
21...	0807	133	105	17.0	29...	0707	120	100	20.0
NOV					JUN				
17...	1515	507	90	13.0	28...	0910	43	145	26.0
DEC					JUL				
08...	1336	83	99	8.5	26...	1155	10	97	28.0
JAN 1994					AUG				
26...	0802	469	--	4.0	31...	0920	8.8	93	24.0
MAR									
17...	1148	53	95	9.0					
28...	1320	590	94	11.0					
MASSAC CREEK BASIN									
03611260		MASSAC CREEK NEAR PADUCAH, KY (LAT 37 02 29N LONG 088 42 39W)							
OCT 1993					APR 1994				
01...	1008	0.53	111	15.0	12...	1006	302	98	16.0
NOV					12...	1130	199	98	16.0
17...	1530	69	98	12.0	29...	1341	8.4	144	18.0
DEC					JUN				
08...	1357	7.8	133	7.5	27...	0835	1.4	179	21.0
13...	1334	5.3	139	6.5	JUL				
FEB 1994					25...	1000	0.75	131	25.0
08...	1230	5.5	141	--	AUG				
					30...	0910	0.66	--	22.0
OHIO RIVER MAIN STEM									
03611500		OHIO RIVER AT METROPOLIS, IL (LAT 37 08 51N LONG 088 44 27W)							
DEC 1993									
07...	1103	580000	262	8.5					

MISCELLANEOUS TEMPERATURE MEASUREMENTS AND FIELD DETERMINATIONS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)	DATE	TIME	STREAM- FLOW INSTAN- TANEOUS (FT3/S)	SPE- CIFIC CON- DUCT- ANCE (US/CM)	TEMPER- ATURE WATER (DEG C)
BAYOU CREEK BASIN									
03611800		BAYOU CREEK NEAR HEATH, KY (LAT 37 05 58N LONG 088 49 27W)							
OCT 1993					MAY 1994				
12...	1045	0.12	267	13.0	06...	1038	0.58	189	17.5
NOV					JUN				
17...	0849	44	74	12.5	27...	1040	0.14	350	21.5
DEC					JUL				
10...	1018	1.1	192	10.5	25...	1130	0.18	258	25.5
FEB 1994					AUG				
14...	1445	2.3	166	5.0	30...	1355	0.18	266	26.0
23...	1415	26	102	9.5					
APR									
12...	1310	56	82	19.0					
03611850		BAYOU CREEK NEAR GRAHAMVILLE, KY (LAT 37 08 41N LONG 088 49 38W)							
OCT 1993					MAY 1994				
12...	1135	5.2	1160	16.0	06...	1300	8.0	800	21.5
NOV					JUN				
17...	1217	98	192	12.5	27...	1425	6.0	--	24.0
DEC					JUL				
10...	1130	8.0	685	12.0	25...	1500	3.9	592	31.0
FEB 1994					AUG				
14...	1300	12	550	6.5	30...	1045	5.6	824	26.0
23...	1054	126	160	9.5					
APR									
12...	1140	255	111	17.5					
03611900		LITTLE BAYOU CREEK NEAR GRAHAMVILLE, KY (LAT 37 08 22N LONG 088 47 26W)							
NOV 1993					MAY 1994				
17...	1035	68	60	12.5	06...	1148	1.1	249	18.0
DEC					JUN				
10...	1248	1.7	230	10.5	27...	1240	0.87	610	24.0
FEB 1994					JUL				
14...	1005	2.9	168	3.5	25...	1320	1.1	234	27.5
23...	1243	41	92	9.5	AUG				
APR					30...	1230	0.92	235	23.0
12...	1018	155	75	16.5					
BAYOU DE CHIEN BASIN									
07024000		BAYOU DE CHIEN NEAR CLINTON, KY (LAT 36 37 43N LONG 088 57 50W)							
OCT 1993					JUN 1994				
12...	1225	20	58	12.5	21...	1155	17	76	26.5
DEC					JUL				
08...	1150	48	101	7.0	26...	0952	15	71	23.5
MAR 1994					SEP				
28...	1110	1560	81	10.5	01...	1030	18	71	20.0
MAY									
03...	1130	36	105	15.0					

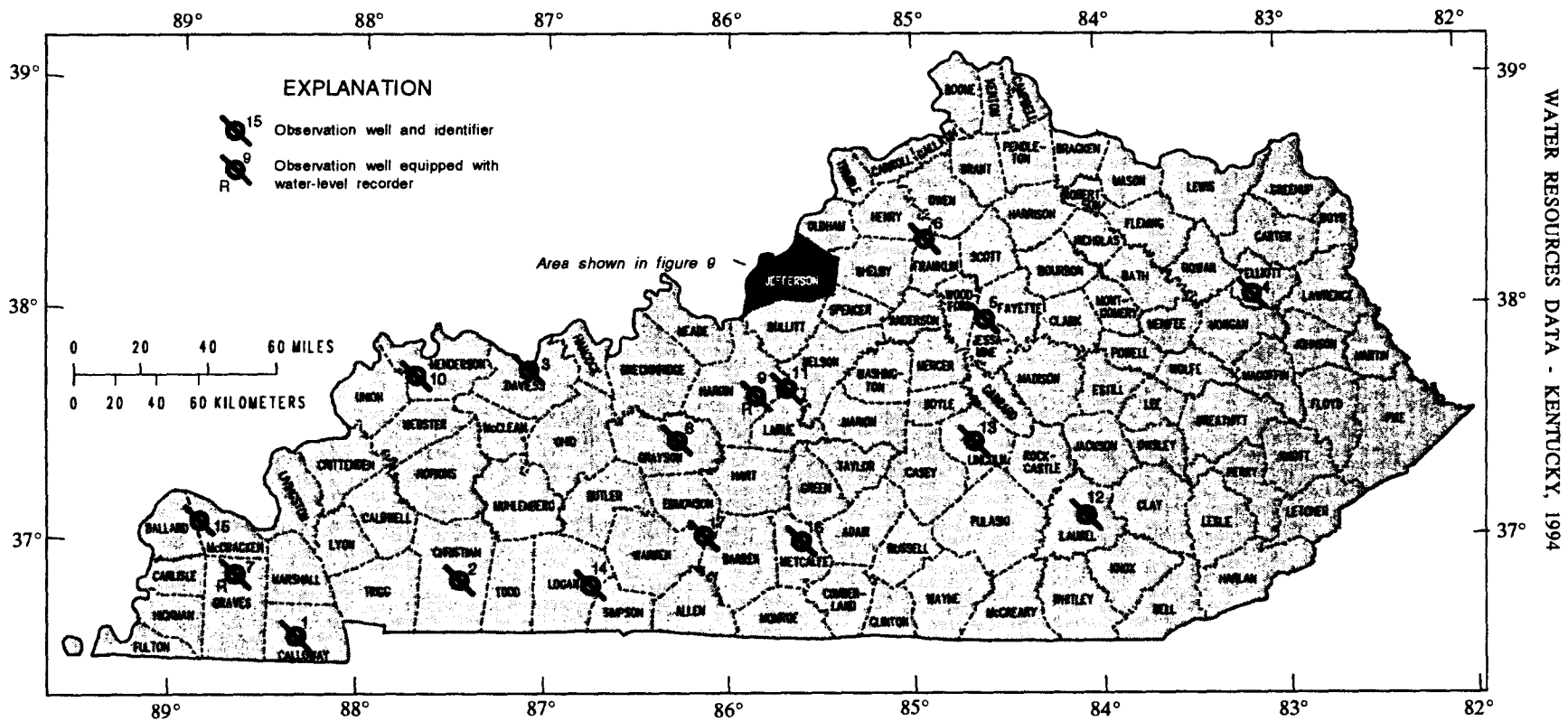


Figure 8. Location of observation wells in Kentucky.

WATER RESOURCES DATA - KENTUCKY 1994

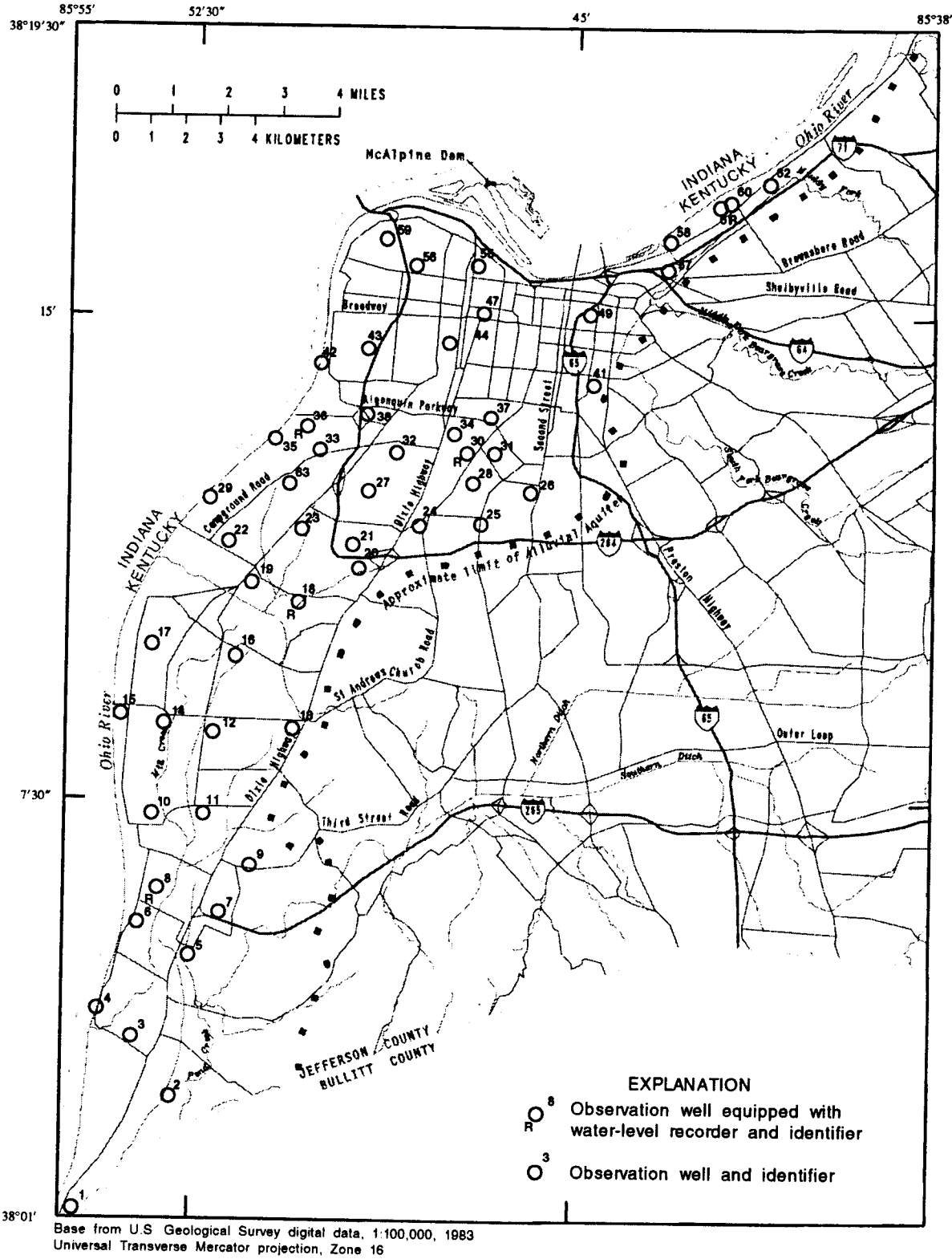


Figure 9. Location of observation wells in Jefferson County.

WATER RESOURCES DATA - KENTUCKY, 1994

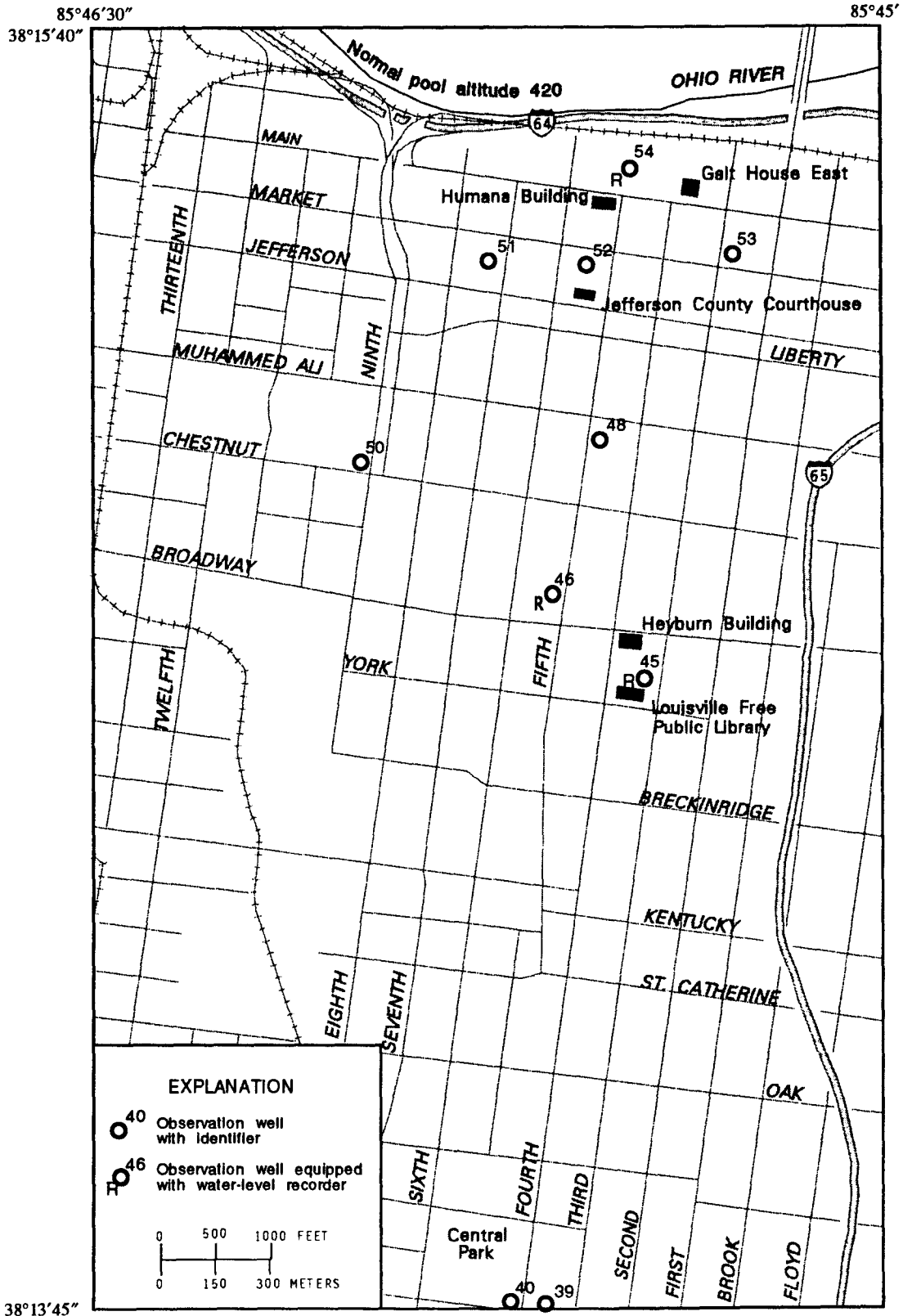


Figure 10. Location of observation wells in downtown Louisville.

GROUND-WATER LEVELS

CALLOWAY COUNTY

363634088191601. Map number 1.
 LOCATION.--Lat 36°36'34", long 88°19'16", Hydrologic Unit 06040006, County Code 035, Murray quadrangle, 200 ft southeast of the intersection of 15th and Main Streets, in Murray. Owner: Joe Parks.
 AQUIFER.--Sand of McNairy Formation of Late Cretaceous age. Aquifer code: 211MCNR.
 WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 345 ft, screened 290-328, 330-334 ft.
 INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.
 DATUM.--Altitude of land-surface datum is 549.14 ft above sea level. Measuring point: Floor of recorder shelter 4.75 ft above land-surface datum.
 REMARKS.--Reported that well was used for several years to dispose of waste motor oil from a gasoline service station.
 PERIOD OF RECORD.--March 1948 to September 1983 and October 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 123.23 ft below land-surface datum, Mar. 3, 1953; lowest measured, 130.09 ft below land-surface datum, Aug. 8, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 9, 1993	124.75	Mar. 18	124.08	June 28	124.45
Jan. 26, 1994	125.20	Apr. 29	124.29	Aug. 31	125.25

CHRISTIAN COUNTY

365142087270401. Map number 2.
 LOCATION.--Lat 36°51'42", long 87°27'04", Hydrologic Unit 05130205, County Code 047, Hopkinsville quadrangle, at Western State Hospital, 75 ft west of gravel road, 500 ft south of U.S. Highway 68, 2.0 mi east of Hopkinsville. Owner: State of Kentucky.
 AQUIFER.--Ste. Genevieve Limestone of Late Mississippian age. Aquifer code: 333SGVV.
 WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 85 ft, cased to 10 ft.
 INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.
 DATUM.--Altitude of land-surface datum (from topographic map) is about 550 ft. Measuring point: Floor of shelter 3.06 ft above land-surface datum.
 PERIOD OF RECORD.--February 1950 to September 1983 and October 1988 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.26 ft below land-surface datum, Feb. 22, 1961; lowest measured, 25.01 ft below land-surface datum, Sept. 25, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 7, 1993	12.63	Mar. 16	12.68	June 29	13.91
Jan. 25, 1994	18.68	Apr. 28	12.68	Sept. 1	16.01

DAVISS COUNTY

374638087054101. Map number 3.
 LOCATION.--Lat 37°46'38", long 87°05'41", Hydrologic Unit 05140201, County Code 059, Owensboro East quadrangle, at Owensboro Municipal Utilities water treatment plant, 100 ft south of south bank of Ohio River, 0.1 mi northeast of Daviess County High School, 0.3 mi north of U.S. Highway 60, in Owensboro. Owner: Owensboro Municipal Utilities.
 AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.
 WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 104 ft, screened 74 to 104 ft.
 INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.
 DATUM.--Altitude of land-surface datum (from topographic map) is about 405 ft. Measuring point: Floor of recorder shelter 4.33 ft above land-surface datum.
 REMARKS.--Water level affected by pumping from nearby wells.
 PERIOD OF RECORD.--February 1951 to September 1983 and March to September 1990.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 18.16 ft below land-surface datum, May 5, 1983; lowest, 63.21 ft below land-surface datum, Sept. 17, 1970.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 20, 1993	54.69	Mar. 16	50.02	June 20	57.23
Dec. 8	41.87	Apr. 26	47.77	Aug. 22	52.46
Jan. 26, 1994	54.27				

GROUND-WATER LEVELS

ELLIOTT COUNTY

380425083091901. Map number 4.

LOCATION.--Lat 38°04'25", long 83°09'19", Hydrologic Unit 05090104, County Code 063, Sandy Hook quadrangle, in a hay field, 100 ft south of a tobacco barn, 250 ft north of State Highway 7, 1.9 mi southwest of Sandy Hook.

Owner: Roy Adkins.

AQUIFER.--Lee Formation of Early Pennsylvanian age. Aquifer code: 327LEE.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 5 in., depth 70 ft, length of casing unknown, open hole below casing.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 780 ft. Measuring point: Floor of recorder shelter 3.55 ft above land-surface datum.

REMARKS.--Pump test run Oct. 10, 1965. Estimated yield based on recovery, 0.4 gal/min.

PERIOD OF RECORD.--September 1952 to September 1984 and July 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.50 ft below land-surface datum, July 18, 1971; lowest measured, 46.35 ft below land-surface datum, Dec. 17, 1953.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 8, 1993	24.58	May 19	23.93	July 25	24.93
Apr. 15, 1994	22.58	June 20	24.72		

FAYETTE COUNTY

375928084362001. Map number 5.

LOCATION.--Lat 38°59'28", long 84°36'20", Hydrologic Unit 05100205, County Code 067, Nicholasville quadrangle, 50 ft west of a farmhouse, 15 ft east of an old chicken house, 600 ft north of where Keene Road crossed the Fayette-Jessemine County line, 1.2 mi southwest of South Elkhorn. Owner: Donald Todd, formerly M.A. Kehrt.

AQUIFER.--Grier Limestone Member of Lexington Limestone of Middle Ordovician age. Aquifer code: 364GRIR.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 6 in., depth 132 ft, cased to 15 ft, open hole 15 to 132 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 940 ft. Measuring point: Floor of recorder shelter 2.75 ft above land-surface datum.

REMARKS.--Lowest water level is a pumping level.

PERIOD OF RECORD.--November 1952 to September 1984 and June 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.67 ft below land-surface datum, Jan. 11, 1974; lowest measured, 48.56 ft below land-surface datum, Mar. 12, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 6, 1993	12.65	Feb. 22	11.45	July 22	12.40
Nov. 29	7.29	Apr. 8	8.74	Aug. 16	12.53
Jan. 14, 1994	9.54	May 27	12.22		

FRANKLIN COUNTY

382031084553901. Harp Road Test Well. Map number 6.

LOCATION.--Lat 38°20'31", long 84°55'39", Hydrologic Unit 05100205, County Code 073, Polsgrove quadrangle, in a pasture at an old farmhouse site, 50 ft north of Harp Road, 2.3 mi northeast of junction of Harp Road and U.S. Highway 421, 2.3 mi southwest of Polsgrove. Owner: Franklin County.

AQUIFER.--Kope and Clays Ferry Formations of Late Ordovician age (previously published as Lexington Limestone of Middle Ordovician age). Aquifer code: 361KOCL (previously published as 364LXNG).

WELL CHARACTERISTICS.--Drilled unused artesian and water-table test well, diameter 6 in., depth 450 ft, cased to 15 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 890 ft. Measuring point: Top of pipe plug .50 ft above land-surface datum.

PERIOD OF RECORD.--August 1973 to January 1983 and October 1988 to current year. August 1973 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.87 ft below land-surface datum, Sept. 14, 1979; lowest measured, 119.82 ft below land-surface datum, Sept. 12, 1973.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 6, 1993	34.37	Apr. 11	34.56	July 5	40.32
Jan. 25, 1994	30.94	May 26	38.19	Aug. 16	37.36
Feb. 25	34.83				

GROUND-WATER LEVELS

GRAVES COUNTY

365210088391301. Map number 7.

LOCATION.--Lat 36°52'10", long 88°39'13", Hydrologic Unit 08010201, County Code 083, Hickory quadrangle, in a cultivated field, 200 ft east of a private road, 1.2 mi northwest of Viola. Owner: J. Whittemore.

AQUIFER.--Sand of Claiborne Group of Eocene age. Aquifer Code: 124CLER.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 106 ft, cased to 85 ft, screened 85-105 ft.

INSTRUMENTATION.--ADR recorder -- 60-minute punch.

DATUM.--Altitude of land-surface datum is 405.65 ft above sea level. Measuring point: Floor of shelter, 4.03 ft above land-surface datum.

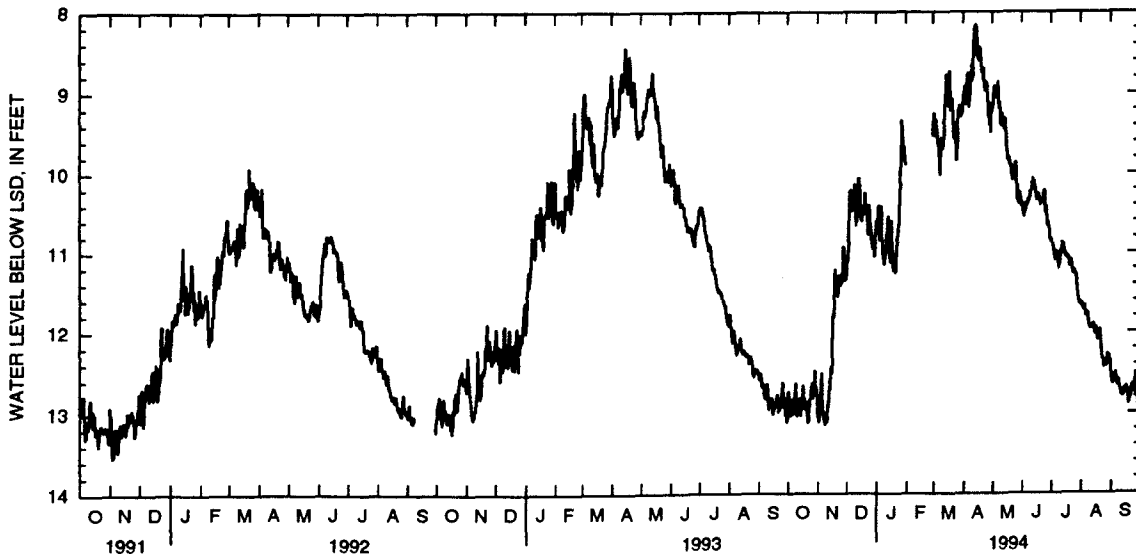
PERIOD OF RECORD.--February 1951 to September 1984 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.20 ft below land-surface datum, Apr. 13, 1994; lowest measured, 19.24 ft below land-surface datum, Jan. 10, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.75	13.11	11.27	10.61	9.87	9.42	9.09	9.24	10.40	10.87	11.67	12.57
2	12.89	13.09	11.10	10.65	---	9.26	9.02	9.14	10.48	10.88	11.68	12.64
3	13.03	12.92	10.91	10.43	---	9.53	9.03	8.93	10.55	10.97	11.72	12.64
4	12.84	12.62	10.23	10.64	---	9.34	9.12	8.99	10.51	11.03	11.72	12.62
5	12.99	12.66	10.34	10.82	---	9.60	8.82	9.06	10.46	11.10	11.78	12.54
6	13.02	12.93	10.38	10.42	---	9.67	8.80	9.01	10.41	11.07	11.80	12.58
7	12.94	13.12	10.46	10.81	---	9.76	9.18	8.87	10.38	11.01	11.78	12.66
8	12.78	13.14	10.46	11.08	---	10.02	9.03	9.19	10.36	11.06	11.85	12.64
9	12.64	13.12	10.26	11.15	---	9.56	8.85	9.18	10.31	11.20	11.94	12.67
10	13.04	13.11	10.20	11.04	---	9.66	8.76	9.37	10.24	11.14	11.96	12.73
11	12.94	12.96	10.66	11.00	---	9.70	8.74	9.39	10.18	11.03	11.95	12.78
12	12.85	12.90	10.51	10.83	---	9.55	8.36	9.37	10.13	10.93	11.96	12.80
13	12.93	12.70	10.24	10.58	---	9.17	8.20	9.44	10.11	10.90	11.96	12.80
14	13.03	12.45	10.06	10.77	---	8.97	8.25	9.32	10.16	10.95	11.91	12.78
15	12.96	12.50	10.31	11.08	---	8.90	8.21	9.45	10.29	11.03	12.03	12.74
16	12.80	12.21	10.57	10.91	---	9.17	8.57	9.72	10.34	11.06	11.98	12.72
17	12.72	11.78	10.60	10.67	---	9.08	8.60	9.83	10.31	11.07	12.02	12.70
18	12.94	11.64	10.49	11.13	---	8.89	8.52	9.84	10.31	11.08	12.10	12.79
19	12.96	11.21	10.51	11.17	---	9.22	8.52	9.89	10.36	11.09	12.09	12.89
20	12.86	11.47	10.25	11.14	---	9.09	8.75	9.93	10.40	11.17	12.01	12.87
21	13.12	11.50	10.46	11.24	---	9.22	8.72	10.01	10.38	11.15	12.09	12.82
22	13.10	11.55	10.47	10.99	---	9.57	8.84	10.08	10.37	11.13	12.23	12.69
23	12.97	11.39	10.73	10.83	---	9.38	8.97	10.07	10.34	11.22	12.35	12.66
24	12.82	11.28	10.64	10.79	---	9.56	8.93	10.01	10.23	11.27	12.44	12.75
25	12.72	11.41	10.55	10.41	---	9.84	8.94	9.92	10.50	11.25	12.43	12.72
26	12.66	11.37	10.63	10.11	---	9.60	9.00	9.95	10.42	11.26	12.39	12.51
27	12.82	11.19	10.86	9.66	---	9.28	9.24	10.33	10.66	11.29	12.42	12.79
28	12.57	11.04	10.95	9.55	9.54	9.16	9.31	10.39	10.62	11.42	12.37	12.79
29	12.64	11.14	10.85	9.70	---	9.29	9.48	10.31	10.69	11.56	12.38	12.93
30	12.70	11.35	11.05	9.75	---	9.28	9.14	10.31	10.82	11.64	12.37	12.91
31	12.86	---	10.87	9.89	---	9.25	---	10.42	---	11.66	12.43	---
MAX	13.12	13.14	11.27	11.24	---	10.02	9.48	10.42	10.82	11.66	12.44	12.93
MIN	12.57	11.04	10.06	9.55	---	8.89	8.20	8.87	10.11	10.87	11.67	12.51

WTR YR 1994 HIGH 8.20 LOW 13.14



GROUND-WATER LEVELS

GRAYSON COUNTY

372822086165801. Map number 8.

LOCATION.--Lat 37°28'22", long 86°16'58", Hydrologic Unit 05110004, County Code 085, Leitchfield quadrangle, at the end of a city park road, 500 ft north of a dam and lake, 1,000 ft northeast of the old city water treatment plant, 0.8 mi southeast of Grayson County Courthouse, in Leitchfield. Owner: City of Leitchfield.

AQUIFER.--Hardinsburg Sandstone of Late Mississippian age. Aquifer code: 332HDBG.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 7 in., depth 384 ft, length casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is 660 ft. Measuring point: Top of pipe flange 5.12 ft above land-surface datum.

PERIOD OF RECORD.--December 1979 to September 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 74.14 ft below land-surface datum, Mar. 17, 1994; lowest measured, 84.65 ft below land-surface datum, June 6, 1990.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 20, 1993	75.88	Feb. 10	74.79	May 24	74.87
Dec. 3	75.56	Mar. 17	74.14	June 28	74.86
Jan. 6, 1994	74.97	Apr. 21	74.38	Aug. 3	75.50

HARDIN COUNTY

373925085540301. Local number OW-6, map number 9.

LOCATION.--Lat 37°39'25", long 85°54'03", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, from road U.S. 62, 1.8 mi south on Gaither Station Road, 100 ft south on gravel road, 70 ft west of railroad tracks, 150 ft east of Gaither Spring. Owner: City of Elizabethtown.

AQUIFER.--St. Genevieve Limestone of Late Mississippian age. Aquifer Code: 333SGVV.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 12 in., depth 100 ft, with 17 ft of 12 in. surface casing.

INSTRUMENTATION.--Digital recorder -- 30-minute punch.

DATUM.--Elevation of land-surface datum is 669.99 ft above sea level. Measuring point: Floor of shelter, 2.8 ft above land-surface datum.

REMARKS.--Water levels affected by stage of nearby Gaither Spring.

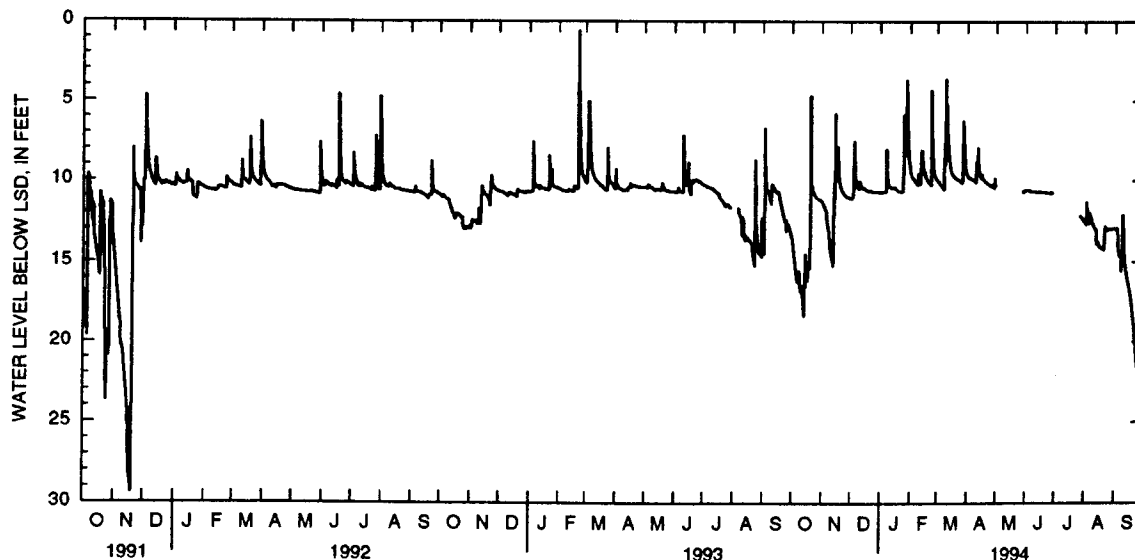
PERIOD OF RECORD.--January 1989 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 2.61 ft above land surface datum, Feb. 15, 1989; lowest, 28.97 ft below land-surface datum, Nov. 18, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.67	11.38	11.11	10.71	9.58	10.04	9.72	---	10.57	---	12.65	12.96
2	14.31	11.55	11.13	10.72	9.75	10.09	9.81	---	10.56	---	11.33	12.95
3	14.88	11.64	11.01	10.69	9.85	10.18	9.81	---	10.59	---	12.22	12.94
4	15.41	11.80	9.81	10.69	9.93	10.26	9.86	---	10.61	---	12.65	14.42
5	15.90	11.92	9.11	10.69	10.01	10.35	9.90	---	10.64	---	11.98	14.61
6	16.27	12.65	10.05	10.70	10.10	10.45	9.93	---	10.66	---	12.21	14.67
7	15.62	13.02	10.28	8.07	10.19	10.54	9.95	---	10.67	---	12.42	15.58
8	15.66	13.36	10.45	10.06	10.25	7.62	10.01	---	10.67	---	12.64	14.76
9	16.84	14.25	10.51	10.24	9.59	7.54	10.08	---	10.67	---	12.80	12.16
10	16.56	14.55	10.04	10.35	10.18	5.85	8.87	---	10.67	---	12.93	14.59
11	17.00	14.86	10.32	10.42	10.14	6.86	9.27	---	10.68	---	12.96	15.20
12	17.62	15.24	10.38	10.44	9.22	7.92	8.91	---	10.68	---	13.85	15.64
13	18.39	10.82	10.46	10.42	8.53	8.69	9.57	---	10.69	---	13.71	15.97
14	16.63	11.15	10.51	10.46	9.31	9.21	9.75	---	10.69	---	13.87	16.30
15	15.92	9.44	10.47	10.43	9.59	9.44	9.85	---	10.68	---	14.02	16.59
16	16.22	9.97	10.54	10.47	9.44	9.60	9.82	---	10.69	---	14.06	16.89
17	15.62	7.89	10.61	10.53	9.85	9.70	9.93	---	10.70	---	14.09	17.26
18	15.37	9.68	10.61	10.58	9.84	9.76	10.00	---	10.71	---	14.16	17.76
19	15.43	10.16	10.66	10.66	10.09	9.83	10.04	---	10.71	---	14.14	18.41
20	4.70	10.46	10.63	10.67	10.17	9.89	10.09	---	10.71	---	14.21	19.01
21	10.70	10.62	10.64	10.67	10.20	9.91	10.16	---	10.72	---	12.80	19.79
22	10.59	10.71	10.67	10.69	10.26	9.92	10.19	---	10.73	---	12.91	20.48
23	10.76	10.80	10.68	10.69	6.92	9.96	10.24	---	10.74	---	12.98	21.29
24	10.89	10.90	10.68	10.61	8.78	10.01	10.28	---	10.74	---	13.00	21.79
25	11.00	10.95	10.70	6.02	9.52	10.09	10.30	---	10.74	---	13.00	22.47
26	11.07	11.01	10.70	7.62	9.72	10.13	10.33	---	10.76	12.13	12.97	23.08
27	11.13	11.01	10.70	6.20	9.85	7.71	10.22	---	10.73	12.22	13.00	22.53
28	11.17	11.01	10.71	3.68	9.95	7.01	10.37	10.67	---	12.29	12.98	23.24
29	11.21	11.08	10.71	7.29	---	8.66	9.86	10.67	---	12.41	12.96	24.15
30	11.21	11.10	10.71	8.61	---	9.41	10.38	10.59	---	12.49	12.93	24.77
31	11.27	---	10.72	9.00	---	9.61	---	10.57	---	12.56	12.95	---
MAX	18.39	15.24	11.13	10.72	10.26	10.54	10.38	---	---	---	14.21	24.77
MIN	4.70	7.89	9.11	3.68	6.92	5.85	8.87	---	---	---	11.33	12.16

WTR YR 1994 HIGH 3.68 LOW 24.77



GROUND-WATER LEVELS

HARDIN COUNTY

374035085525401. Local number OW-1-82, map number 9.

LOCATION.--Lat 37°40'35", long 85°52'54", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, 0.30 mi west of Elizabethtown Water Plant, 0.20 mi west on gravel road to sewage lagoon parallel to RR tracks, 100 ft south of RR tracks, 75 ft east of electric power tower, 10 ft north of gravel road. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 120 ft, with 14 ft of 8 in. surface casing.

INSTRUMENTATION.--Graphical recorder--continuous.

DATUM.--Elevation of land-surface datum is 692.25 ft above sea level. Measuring point: Floor of shelter, 1.4 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells and proximity to RR tracks.

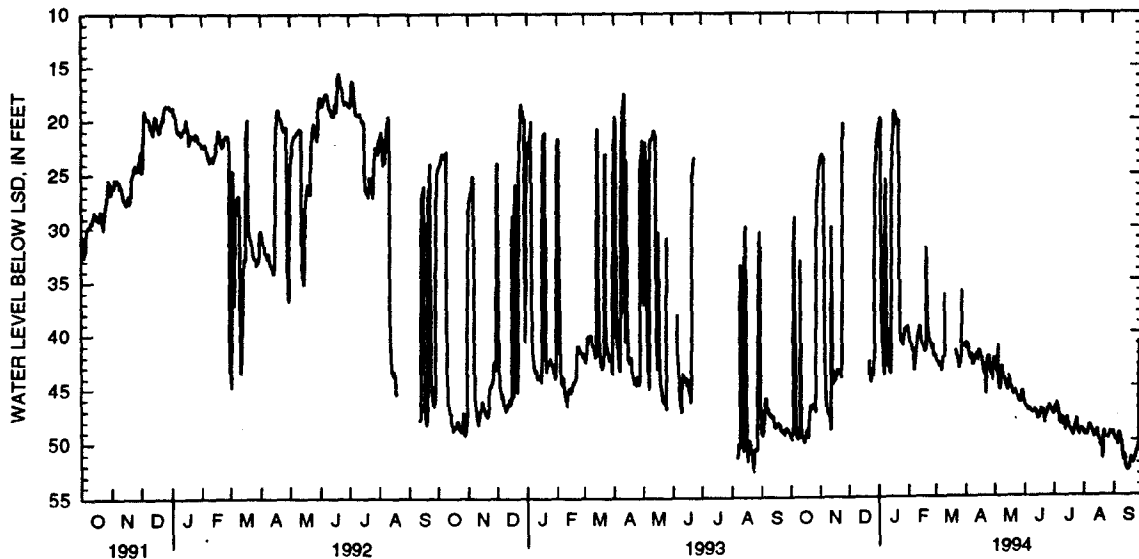
PERIOD OF RECORD.--September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 8.99 ft below land surface datum, May 3, 1983; lowest, 78.77 ft below land-surface datum, July 14, 1988.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49.73	23.50	---	20.33	40.35	42.41	41.39	42.73	46.66	47.45	49.41	49.76
2	49.55	23.35	---	19.94	40.83	42.69	40.91	43.25	46.85	46.90	49.49	49.79
3	49.20	23.45	---	30.00	41.40	42.68	41.00	43.69	47.10	46.92	49.36	49.89
4	31.32	23.56	---	40.45	41.60	43.00	41.80	41.25	47.18	46.53	49.49	50.39
5	29.06	34.24	---	42.52	41.44	43.09	42.27	45.14	47.00	47.26	48.92	49.88
6	48.58	45.06	---	43.40	42.92	42.97	41.99	45.30	47.21	48.27	48.70	49.35
7	49.73	46.48	---	39.84	43.09	43.49	42.01	44.39	47.36	48.49	48.68	49.51
8	49.71	47.52	---	25.46	41.79	42.51	42.85	43.45	47.38	47.84	49.03	50.10
9	49.46	47.46	---	39.58	41.14	42.27	42.89	43.72	47.38	48.37	49.14	50.87
10	49.39	47.70	---	42.44	40.20	42.22	42.68	44.23	47.35	48.52	49.50	51.47
11	33.15	48.28	---	43.10	39.82	36.30	42.32	44.50	47.13	48.47	49.66	51.63
12	48.80	40.76	---	43.49	39.37	---	42.05	45.02	47.34	48.80	49.50	51.53
13	49.64	39.12	---	43.75	40.15	---	41.92	45.02	47.75	48.67	49.33	52.44
14	49.89	44.69	---	26.57	40.90	---	42.10	45.32	48.00	47.91	48.99	52.47
15	50.00	44.21	---	22.38	41.14	---	41.65	44.57	47.85	48.53	49.48	52.54
16	49.60	44.46	---	20.90	41.49	---	42.21	44.65	47.94	48.70	49.89	52.69
17	49.24	43.80	---	19.23	41.69	---	42.26	45.07	47.20	49.00	50.52	52.14
18	49.25	43.74	---	19.37	41.65	---	42.69	45.18	47.11	49.13	50.31	51.56
19	49.56	43.37	---	20.06	---	---	43.37	45.57	47.20	49.28	50.57	51.85
20	48.03	43.65	---	20.22	---	---	43.75	45.40	47.47	49.51	51.58	52.06
21	46.96	43.76	24.36	20.04	39.86	---	43.95	45.56	48.35	49.48	49.18	51.81
22	46.71	44.05	43.86	30.19	40.62	41.93	44.43	45.35	47.78	48.86	49.59	51.54
23	46.91	43.03	44.49	40.07	40.86	42.21	42.52	45.76	47.54	48.49	49.70	51.03
24	46.57	22.80	43.89	40.60	41.46	42.64	42.25	45.94	47.30	48.03	49.72	50.73
25	46.77	20.80	43.52	41.04	41.04	43.27	42.18	46.22	47.06	48.95	49.76	50.36
26	46.98	19.50	43.18	40.86	41.72	42.85	43.57	46.13	46.77	49.34	49.89	50.55
27	43.20	---	40.09	40.36	41.97	42.32	43.93	46.45	47.11	49.51	49.44	43.81
28	28.73	---	25.01	39.76	42.05	---	43.80	45.76	47.32	49.05	49.20	49.61
29	26.16	---	22.90	39.49	---	---	43.46	45.44	47.48	48.95	49.35	48.52
30	25.24	---	21.82	39.45	---	---	42.40	45.69	47.64	48.99	49.43	38.40
31	24.22	---	20.80	39.61	---	---	---	46.33	---	49.08	49.24	---
MAX	50.00	---	---	43.75	---	---	44.43	46.45	48.35	49.51	51.58	52.69
MIN	24.22	---	---	19.23	---	---	40.91	41.25	46.66	46.53	48.68	38.40

WTR YR 1994 HIGH 19.23 LOW 52.69



GROUND-WATER LEVELS

HARDIN COUNTY

374037085524801. Local number TW-2-82, map number 9.

LOCATION.--Lat 37°40'37", long 85°52'48", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, 0.20 mi west of Elizabethtown Water Plant, 0.10 mi west on gravel road to sewage lagoon parallel to RR tracks, 400 ft south of RR tracks, 300 ft south of gravel road, 20 ft north of Valley Creek. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 118 ft, with 14 ft of 8 in. surface casing.

INSTRUMENTATION.--Digital recorder -- 30-minute punch.

DATUM.--Elevation of land-surface datum is 680.84 ft above sea level. Measuring point: Floor of shelter, 2.2 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells and stage of Valley Creek.

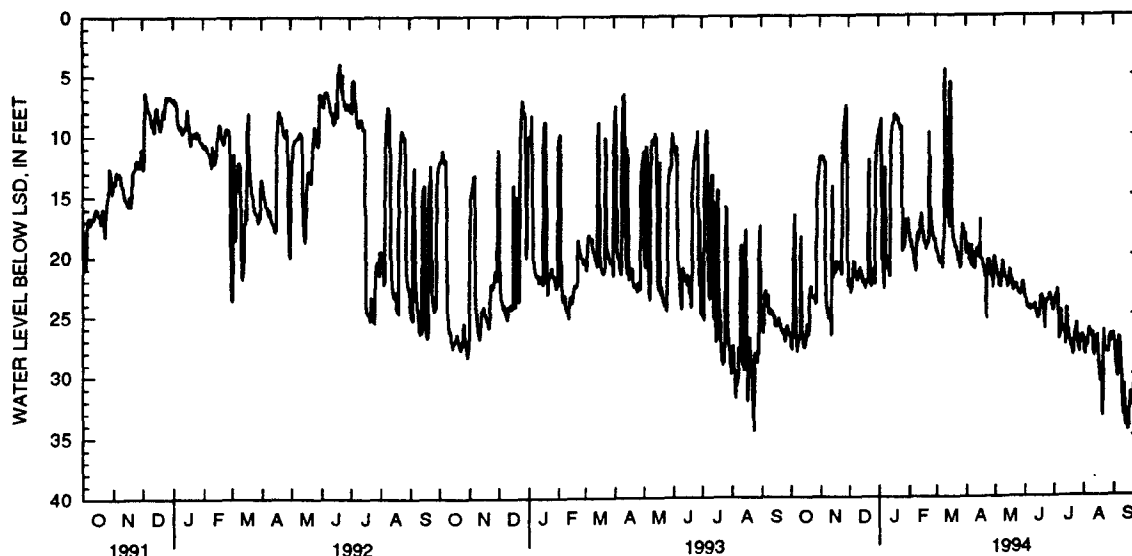
PERIOD OF RECORD.--September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 0.74 ft below land surface datum, Mar. 1, 1987; lowest, 41.96 ft below land-surface datum, Oct. 20, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27.76	11.88	22.54	9.50	18.59	19.45	19.24	20.59	23.65	24.20	28.01	27.02
2	26.87	11.85	23.07	9.04	18.96	18.81	19.04	21.33	23.81	23.55	28.33	28.18
3	23.45	11.86	22.86	15.05	19.34	20.11	19.52	21.80	24.42	23.20	27.49	28.86
4	17.32	12.24	21.35	21.24	19.59	20.64	20.39	22.10	24.47	22.89	27.66	30.24
5	20.83	12.19	20.60	22.00	19.58	20.34	20.63	22.56	24.24	23.37	26.60	28.42
6	27.04	23.68	21.07	18.25	20.99	20.49	19.44	22.70	24.59	27.05	26.16	26.94
7	27.98	24.49	21.53	16.78	21.33	21.03	20.55	21.40	24.32	26.71	26.60	27.17
8	27.18	25.25	22.04	20.25	19.66	19.11	21.02	20.67	24.54	24.66	26.82	29.02
9	26.79	24.58	22.05	20.56	18.18	17.77	21.14	21.07	24.40	26.36	26.99	31.35
10	26.59	24.78	21.35	21.16	18.68	4.58	20.35	21.57	24.30	26.42	28.06	32.80
11	18.38	25.79	21.05	21.75	18.22	16.44	20.12	21.90	24.06	26.48	28.45	33.01
12	26.51	21.43	21.39	17.93	17.11	16.81	19.62	22.15	24.54	26.71	27.70	32.76
13	27.23	14.20	21.92	10.74	16.52	16.85	19.81	22.51	25.08	26.73	27.44	33.85
14	27.65	21.82	22.27	9.65	17.63	17.60	20.14	22.57	25.30	24.46	26.88	33.86
15	27.67	20.79	22.09	9.07	18.06	6.54	16.99	21.67	24.88	26.33	27.91	33.82
16	27.18	21.48	22.49	8.55	18.92	5.71	20.25	21.52	25.08	26.86	28.85	34.22
17	25.79	20.62	22.76	8.43	18.99	17.51	20.39	22.05	23.45	27.33	30.61	32.74
18	26.38	20.83	22.28	8.52	19.47	18.69	20.87	22.10	23.40	27.64	29.67	31.75
19	26.66	20.69	22.21	8.53	19.26	18.82	21.46	22.90	23.69	27.78	30.46	32.49
20	23.30	21.07	18.06	8.79	18.96	19.31	21.77	22.66	24.12	28.24	33.38	32.15
21	22.66	21.27	12.01	9.04	15.15	19.34	22.01	22.56	26.14	28.08	26.33	---
22	23.32	21.58	22.45	9.22	12.78	19.79	21.80	22.44	24.52	26.59	27.78	---
23	23.56	17.06	22.57	9.44	17.01	20.01	20.57	22.78	24.02	26.24	27.95	---
24	23.36	10.67	22.19	9.41	17.78	20.57	20.38	23.02	23.74	25.76	28.12	---
25	23.63	9.38	21.21	19.61	18.40	21.09	20.58	23.21	23.65	27.26	28.13	---
26	23.91	8.57	21.04	19.37	18.66	20.77	21.85	22.97	23.30	27.77	28.20	---
27	19.64	7.56	22.38	19.08	18.58	18.31	21.48	23.35	23.58	28.11	26.97	---
28	14.73	8.96	12.22	17.08	19.17	17.62	21.99	22.97	23.81	26.94	26.67	---
29	13.39	21.34	11.00	17.07	---	18.03	21.02	22.32	24.48	26.98	26.96	---
30	12.30	22.34	10.41	16.94	---	18.27	20.17	22.76	24.69	26.81	27.20	---
31	11.79	---	9.84	18.07	---	18.72	---	23.23	---	27.05	26.69	---
MAX	27.98	25.79	23.07	22.00	21.33	21.09	22.01	23.35	26.14	28.24	33.38	---
MIN	11.79	7.56	9.84	8.43	12.78	4.58	16.99	20.59	23.30	22.89	26.16	---

WTR YR 1994 HIGH 4.58 LOW 34.22



GROUND-WATER LEVELS

HARDIN COUNTY

374046085523501. Local number OW-1-81, map number 9.

LOCATION.--Lat 37°40'46", long 85°52'35", Hydrologic Unit 05110001, County Code 093, Cecilia quadrangle, at Elizabethtown Water Plant, 300 ft south of blue water tank, 25 ft east of engineer's office, next to gravel driveway. Owner: City of Elizabethtown.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer Code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water table well, diameter 6 in., depth 100 ft, with 6 ft of 6 in. surface casing.

INSTRUMENTATION.--Graphical recorder--continuous.

DATUM.--Elevation of land-surface datum is 685.89 ft above sea level. Measuring point: Floor of shelter, 1.9 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells.

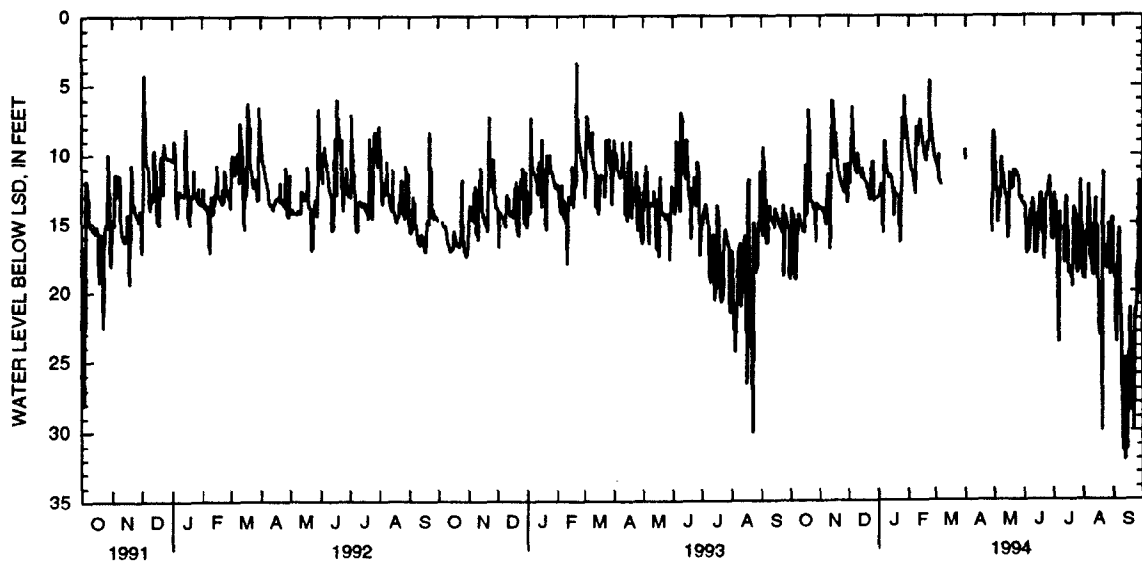
PERIOD OF RECORD.--September 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.41 ft below land surface datum, Feb. 21, 1993; lowest, 49.47 ft below land-surface datum, Oct. 8, 1987.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.87	14.00	11.10	13.07	9.90	10.35	---	9.05	13.69	13.62	19.07	18.57
2	15.23	13.86	11.33	12.83	10.35	10.75	---	10.59	13.77	13.41	19.15	18.98
3	14.38	14.06	10.76	12.18	10.82	10.38	---	12.61	17.25	13.45	16.09	21.77
4	14.38	13.97	7.54	12.26	11.21	9.98	---	12.88	17.03	14.85	15.86	22.77
5	15.20	13.93	9.27	15.16	11.48	11.86	---	14.92	17.06	18.29	14.43	18.75
6	19.11	14.57	9.90	13.36	12.05	---	---	13.19	16.85	23.69	12.21	15.41
7	18.95	14.95	10.68	8.99	12.57	---	---	13.09	14.19	18.26	13.78	16.39
8	15.70	13.93	11.12	10.01	11.36	---	---	10.23	14.04	15.28	17.80	21.61
9	15.47	11.42	11.38	10.84	8.64	---	---	11.14	13.29	15.51	15.17	25.92
10	14.38	13.17	9.89	11.34	9.18	---	---	11.67	13.64	15.38	18.64	29.06
11	14.56	16.88	10.61	11.68	8.92	---	---	12.53	16.18	15.48	18.89	27.69
12	15.05	11.94	11.19	11.58	8.12	---	---	12.96	17.19	17.94	15.78	30.36
13	15.36	6.11	11.50	11.60	7.80	---	---	13.02	17.21	14.46	13.24	28.85
14	15.61	8.59	11.67	11.71	8.51	---	---	14.00	17.09	13.09	15.58	27.97
15	15.59	7.03	11.01	12.42	8.97	---	---	15.78	14.30	14.38	15.24	24.84
16	15.41	10.24	11.70	12.66	9.52	---	---	12.43	14.29	18.08	19.98	28.61
17	10.79	8.39	11.89	14.47	9.88	---	---	12.11	12.89	18.71	23.19	24.99
18	14.26	9.74	11.95	12.76	10.19	---	---	12.35	12.88	18.71	19.70	21.30
19	14.06	10.48	12.11	12.83	10.45	---	---	12.51	15.67	18.67	20.79	24.03
20	6.76	11.25	12.51	12.96	9.16	---	---	12.40	15.82	19.65	29.96	28.64
21	8.61	11.69	12.34	13.08	9.18	---	---	11.18	17.66	16.46	11.31	24.44
22	12.90	11.98	13.15	13.14	9.03	---	---	11.18	15.56	13.96	17.70	24.14
23	13.33	12.12	13.28	16.34	6.89	---	---	11.25	13.27	14.23	16.72	21.61
24	13.45	12.23	13.15	14.14	7.99	---	---	11.55	12.95	14.49	18.29	20.94
25	13.79	12.53	10.57	7.39	8.70	---	---	11.61	12.47	18.60	18.28	18.20
26	13.97	12.74	10.50	8.58	9.23	---	---	12.25	13.00	18.71	18.32	20.18
27	14.94	11.30	13.37	7.38	9.79	---	---	13.15	12.97	18.33	15.07	14.07
28	14.14	11.81	13.13	7.06	10.29	---	13.60	13.27	13.95	18.39	15.14	18.46
29	13.89	13.14	13.19	8.07	---	---	8.69	13.45	16.19	14.74	16.46	19.86
30	13.71	10.67	13.19	8.62	---	---	8.42	13.49	16.19	15.11	14.81	19.78
31	13.83	---	13.09	9.39	---	---	---	13.60	---	18.69	14.70	---
MAX	19.11	16.88	13.37	16.34	12.57	---	---	15.78	17.66	23.69	29.96	30.36
MIN	6.76	6.11	7.54	7.06	6.89	---	---	9.05	12.47	13.09	11.31	14.07

WTR YR 1994 HIGH 6.11 LOW 30.36



GROUND-WATER LEVELS

HENDERSON COUNTY

374441087421001. Map number 10.

LOCATION.--Lat 37°44'41", long 87°42'10", Hydrologic Unit 05140202, County Code 101, Poole quadrangle, in a vacant lot, 30 ft north of a gravel street, 100 ft south of U.S. Highway 60, near the center of Corydon. Owner: Town of Corydon.

AQUIFER.--Sturgis Formation of Late Pennsylvanian and early Permian age. Aquifer code: 321STRG. (Previously published as Lisman Formation of Late Pennsylvanian age. Aquifer Code: 321LSMN).

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 157 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 435 ft. Measuring point: Floor of recorder shelter, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--March 1952 to August 1983 and June 1988 to current year. March 1952 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 61.82 ft below land-surface datum, July 29, 1976; lowest measured, 119.83 ft below land-surface datum, Nov. 24, 1966.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 19, 1993	64.14	Mar. 15	63.45	Aug. 22	63.61
Dec. 6	64.03	Apr. 21	63.52		
Jan. 28, 1994	63.74	June 20	63.20		

JEFFERSON COUNTY

380122085545001. Local number 80-1, map number 1.

LOCATION.--Lat 38°01'22", long 85°54'50", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 12 ft west of an old private driveway, 40 ft north of Kentucky Highway 44, 0.25 mi southeast of junction of U.S. Highway 31W and Kentucky Highway 44, 0.9 mi southwest of Kosmosdale. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 100 ft, screened 93.0-95.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 431.64 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 27.36 ft below land-surface datum, May 13, 1994; lowest measured, 42.66 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	41.43	May 13, 1994	27.36

380252085530601. Local number 79-3, map number 2.

LOCATION.--Lat 38°02'22", long 85°53'06", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, on the south side of the first building inside the gate at Old Boone Distillery, at the south end of Bohannon Avenue, 0.9 mi south of Pendleton Road, 1.5 mi northeast of Kosmosdale. Owner: Ronald Clark.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled used water-table well, diameter 12 in., depth 90 ft cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.75 ft above sea level. Measuring point: Top of metal well cover, 0.70 ft above land-surface datum.

REMARKS.--Water levels affected by pumping.

PERIOD OF RECORD.--March 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.08 ft below land-surface datum, May 8, 1991; lowest measured, 40.75 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	35.82	May 13, 1994	33.14

GROUND-WATER LEVELS

JEFFERSON COUNTY

380341085534501. Local number 83-1, map number 3.

LOCATION.--Lat 38°03'41", long 85°53'45", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, across street from 135111 Wilken Way, at east edge of Watson Lane Elementary School playground, 8 ft west of blacktop pavement, 9 ft east of a powerline pole, 2 mi north of Kosmosdale, in Meadow Lawn subdivision.

Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 64 ft, screened 62-64 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 441.25 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.13 ft below land-surface datum, May 8, 1991; lowest measured, 44.68 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	42.86	May 11, 1994	35.50

380423085541501. Local number, Genewien number 2, map number 4.

LOCATION.--Lat 38°04'23", long 85°54'15", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 31 ft south of Louisville Gas & Electric power line pole number 47, 33 ft west of center line of Cane Run Road, 0.7 mi south of Orell Road, 1.5 mi north of Louisville Gas & Electric Mill Creek Generating Plant, 2.5 mi north of Kosmosdale. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 65 ft, screened 63-65 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 431.49 ft above sea level. Measuring point: Top of casing, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--April 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.11 ft below land-surface datum, May 11, 1994; lowest measured, 44.32 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	42.53	May 11, 1994	25.11

380458085523201. Local number 86-4, map number 5.

LOCATION.--Lat 38°04'58", long 85°52'32", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, southeast of the first 90° curve on Deering Road off of Dixie Highway, 26' north of ash tree, on east bank of Madora Br. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 45.4 ft, screened 43-45 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 437.71 ft above sea level. Measuring point: Top of casing at ground level.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.80 ft below land-surface datum, May 8, 1991; lowest measured, 31.60 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	29.40	May 4, 1994	27.38

GROUND-WATER LEVELS

JEFFERSON COUNTY

380517085535201. Local number 77-1, map number 6.

LOCATION.--Lat 38°05'17", long 85°53'52", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, inside fenced area at southwest Jefferson County sewage pumping station, 125 ft east of the center line of Lower River Road, 0.4 mi north of Orell Road, 0.2 mi east of Ohio River, and 1.5 mi southwest of Valley Station. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.25 in., depth 83.2 ft, screened 80.2-83.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.86 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

PERIOD OF RECORD.--October 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 38.81 ft below land-surface datum, Apr. 30, 1984; lowest measured, 57.75 ft below land-surface datum, Nov. 10, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	54.37	May 11, 1994	40.45

380532085515301. Local number 51-5-2, (76-1), map number 7.

LOCATION.--Lat 38°05'32", long 85°51'53", Hydrologic Unit 05140102, County Code 111, Valley Station quadrangle, in back yard at 11212 Deering Road in Valley Station. Owner: Jim Robinson.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 88 ft, screened 85-88 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.24 ft above sea level. Measuring point: Top of casing, 0.30 ft above land-surface datum.

REMARKS.--Water-level elevations previously published referenced to sea level.

PERIOD OF RECORD.--May 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.03 ft below land-surface datum, June 24, 1980; lowest measured, 46.73 ft above land-surface datum, Oct. 31, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	44.86	May 13, 1994	43.41

GROUND-WATER LEVELS

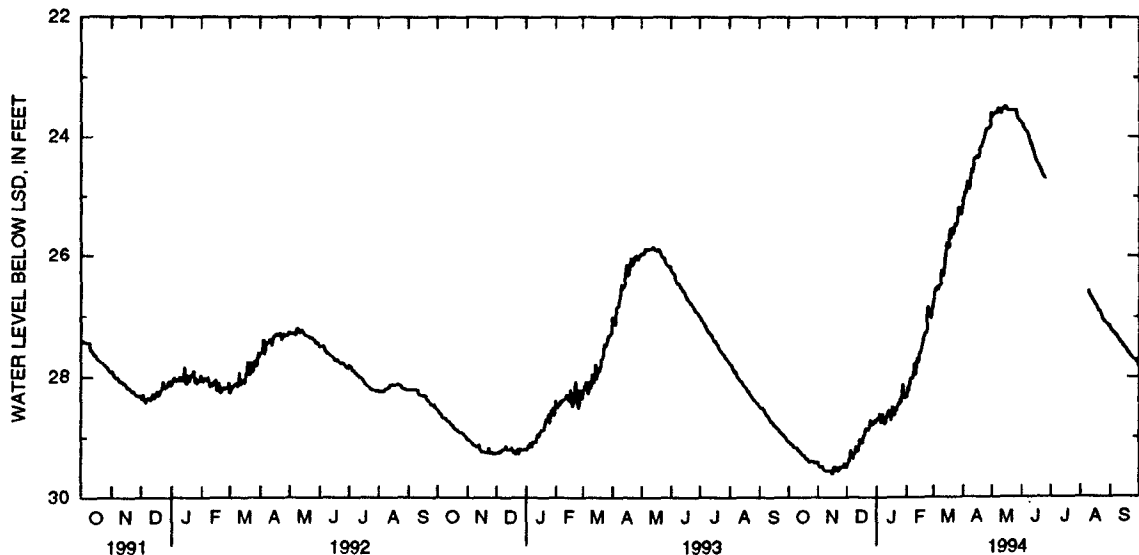
JEFFERSON COUNTY

380606085531301. Local number 53-6-1, (RR-46), map number 8.
 LOCATION.--Lat 38°06'06", long 85°53'13", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, at entrance to Sun Valley Park, 20 ft south of Bethany Lane, 0.2 mi east of Lower River Road, in Valley Station.
 Owner: Jefferson County.
 AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.
 WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 92 ft, screened 88-90 ft.
 INSTRUMENTATION.--Digital recorder -- 60-minute punch.
 DATUM.--Elevation of land-surface datum is 433.89 ft above sea level. Measuring point: Floor of recorder shelter, 2.93 ft above land-surface datum.
 PERIOD OF RECORD.--July 1945 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 21.14 ft below land-surface datum, May 19, 1975; lowest, 40.87 ft below land-surface datum, Feb. 19, 1961.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.07	29.46	29.47	28.69	28.33	26.75	25.11	23.63	23.77	---	---	27.20
2	29.09	29.49	29.42	28.68	28.23	26.57	25.02	23.65	23.82	---	---	27.24
3	29.11	29.49	29.40	28.66	28.18	26.58	24.93	23.63	23.86	---	---	27.26
4	29.11	29.49	29.26	28.62	28.08	26.51	24.95	23.61	23.88	---	---	27.27
5	29.13	29.48	29.30	28.75	28.01	26.55	24.79	23.61	23.90	---	---	27.28
6	29.16	29.52	29.30	28.63	28.01	26.55	24.75	23.61	23.92	---	---	27.30
7	29.16	29.55	29.35	28.65	28.02	26.48	24.89	23.54	23.95	---	---	27.32
8	29.16	29.56	29.28	28.75	27.87	26.47	24.84	23.57	24.00	---	---	27.35
9	29.16	29.56	29.25	28.77	27.83	26.32	24.68	23.57	24.07	---	26.59	27.37
10	29.21	29.56	29.15	28.74	27.95	26.27	24.55	23.59	24.11	---	26.63	27.39
11	29.22	29.56	29.23	28.66	27.76	26.32	24.60	23.60	24.15	---	26.66	27.41
12	29.23	29.56	29.22	28.60	27.73	26.30	24.46	23.53	24.20	---	26.69	27.44
13	29.25	29.56	29.14	28.57	27.71	26.05	24.36	23.53	24.24	---	26.71	27.46
14	29.27	29.56	29.05	28.58	27.71	25.93	24.36	23.52	24.30	---	26.74	27.48
15	29.29	29.59	29.04	28.66	27.57	25.79	24.33	23.49	24.36	---	26.77	27.50
16	29.29	29.61	29.09	28.68	27.57	25.85	24.36	23.53	24.41	---	26.80	27.51
17	29.29	29.49	29.08	28.49	27.50	25.87	24.36	23.55	24.45	---	26.81	27.53
18	29.33	29.56	28.99	28.59	27.42	25.57	24.31	23.55	24.48	---	26.86	27.56
19	29.34	29.49	28.97	28.63	27.34	25.71	24.19	23.55	24.52	---	26.90	27.60
20	29.35	29.53	28.90	28.55	27.27	25.70	24.18	23.55	24.55	---	26.90	27.60
21	29.37	29.55	28.87	28.55	27.26	25.55	24.13	23.55	24.59	---	26.90	27.63
22	29.40	29.56	28.86	28.49	27.22	25.64	24.07	23.55	24.63	---	26.95	27.65
23	29.40	29.54	28.86	28.44	26.84	25.54	24.04	23.55	24.67	---	27.00	27.67
24	29.40	29.49	28.84	28.43	26.94	25.47	23.94	23.55	24.68	---	27.04	27.69
25	29.40	29.50	28.71	28.41	26.98	25.49	23.89	23.55	24.75	---	27.06	27.70
26	29.40	29.49	28.79	28.38	27.01	25.46	23.86	23.55	---	---	27.08	27.70
27	29.42	29.49	28.78	28.32	27.02	25.19	23.86	23.64	---	---	27.10	27.71
28	29.42	29.43	28.79	28.12	26.85	25.23	23.85	23.70	---	---	27.11	27.75
29	29.43	29.46	28.73	28.30	---	25.29	23.82	23.71	---	---	27.13	27.80
30	29.41	29.49	28.76	28.34	---	25.32	23.71	23.73	---	---	27.15	27.83
31	29.41	---	28.72	28.33	---	25.21	---	23.76	---	---	27.17	---
MAX	29.43	29.61	29.47	28.77	28.33	26.75	25.11	23.76	---	---	---	27.83
MIN	29.07	29.43	28.71	28.12	26.84	25.19	23.71	23.49	---	---	---	27.20

WTR YR 1994 HIGH 23.49 LOW 29.61



GROUND-WATER LEVELS

JEFFERSON COUNTY

380619085512301. Local number 86-3, map number 9.

LOCATION.--Lat 38°06'19", long 85°51'23", Hydrologic Unit 05140101, County Code 111, Valley Station quadrangle, northwest side of Valley Station and Grafton Hall Roads, 21.0 ft northwest of north corner of drain, and 17.4 ft northeast of telephone pole. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 55 ft, screened 52-55 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.03 ft above sea level. Measuring point: Top of casing, 0.20 ft above land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.10 ft below land-surface datum, Nov. 1, 1991; lowest measured, 38.90 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	36.63	May 13, 1994	36.45

380709085531101. Local number C-5-m, map number 10.

LOCATION.--Lat 38°07'09", long 85°53'11", Hydrologic Unit 05140101, County Code 111, Kosmosdale quadrangle, 3 ft west of a gravel field road, 20 ft west of west bank of Mill Creek, 550 ft northwest of Johnstontown Road, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2.0 in., depth 51.5 ft, screened 48.5-51.5 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 427.1 ft above sea level. Measuring point: Top edge of metal well cover, at land-surface datum.

REMARKS.--EPA, Mill Creek EIS test well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.55 ft below land-surface datum, May 7, 1991; lowest measured, 19.95 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	18.17	May 13, 1994	14.83

380716085521801. Local number 52-7-2, (RR-47), map number 11.

LOCATION.--Lat 38°07'16", long 85°52'18", Hydrologic Unit 05140101, County Code 111, Valley Station quadrangle, at 5510 Johnstontown Road, 0.9 mi west of junction of Dixie Highway and Johnstontown Road, on the south shoulder of Johnstontown Road, in Valley Station. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, screened 101.5-103.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 449.91 ft above sea level. Measuring point: Top of plug, 2.50 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year. July 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.56 ft below land-surface datum, Apr. 16, 1980; lowest measured, 42.20 ft below land-surface datum, Mar. 27, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	33.41	May 11, 1994	32.95

GROUND-WATER LEVELS

JEFFERSON COUNTY

380816085520701. Local number 52-8-1, map number 12.

LOCATION.--Lat 38°08'16", long 85°52'07", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, between the house and a tool shed at a vegetable farm, 0.5 mi south of Greenwood Road, 0.1 mi west of Cannan Road, in Louisville. Owner: Anna Dohn.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Dug unused water-table well, diameter 30 in., depth 70 ft, shored.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.47 ft above sea level. Measuring point: Top of wooden well cover, 0.62 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby well.

PERIOD OF RECORD.--November 1943 to current year. November 1943 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.13 ft below land-surface datum, Oct. 27, 1980; lowest measured, 51.20 ft below land-surface datum, Feb. 10, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	39.12	May 11, 1994	39.04

380827085503001. Local number 86-5, map number 13.

LOCATION.--Lat 38°08'27", long 85°50'30", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, South of Dixie Highway and Greenwood Road, west on Seibel Court, 17.9 ft east of south corner of culvert wall behind Little Reds Mister Fix It. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 44 ft, screened 42-44 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.75 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.44 ft below land-surface datum, May 8, 1991; lowest measured, 31.70 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	29.60	May 13, 1994	29.65

380843085530701. Local number B-3-d, map number 14.

LOCATION.--Lat 38°08'43", long 85°53'07", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, in a field 60 ft east of southeast corner of church yard fence, 200 ft southeast of Greenwood Road, 300 ft west of Mill Creek, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 2 in., depth unknown, screened interval unknown.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 424.9 ft above sea level. Measuring point: Top edge of metal well cover, at land-surface datum.

REMARKS.--EPA, Mill Creek EIS test well.

PERIOD OF RECORD.--October 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.78 ft below land-surface datum, Oct. 29, 1980; lowest measured, 18.69 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	16.70	May 11, 1994	14.24

GROUND-WATER LEVELS

JEFFERSON COUNTY

380850085534701. Local number 78-2, map number 15.

LOCATION.--Lat 38°08'50", long 85°53'47", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, at the southwest corner of Cane Run Road and Greenwood Road, 25 ft west of Cane Run Road, 44 ft south of Greenwood Road, and 0.4 mi east of Ohio River, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 86.6 ft, screened 84.6-86.6 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.07 ft above sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--May 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.68 ft below land-surface datum, May 2, 1979; lowest measured, 50.62 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	50.47	May 11, 1994	42.15

380940085514001. Local number 81-1, map number 16.

LOCATION.--Lat 38°09'40", long 85°51'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 7 ft west of a fence corner, 10 ft east of center of a gravel road, 20 ft north of the west bank of Black Pond Creek, 40 ft north of northeast corner of concrete bridge, 400 ft south of Lower Hunters Trace, 1.5 mi west of Dixie Highway, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 70.0 ft, screened 63.0-65.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS annual personnel.

DATUM.--Elevation of land-surface datum is 444.58 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--April 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.57 ft below land-surface datum, Apr. 26, 1985, May 7, 1991; lowest measured, 26.40 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	24.48	May 11, 1994	24.06

380955085531801. Local number 83-2, map number 17.

LOCATION.--Lat 38°09'55", long 85°53'18", Hydrologic Unit 05140101, County Code 111, Lanesville quadrangle, 19 ft northwest of a fire plug, 22 ft south of concrete curb on Riverport Drive, 100 ft southeast of a concrete bridge and drainage ditch, 3 mi northwest of Pleasure Ridge Park. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 97 ft, screened 95-97 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 441.8 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.92 ft below land-surface datum, May 7, 1991; lowest measured, 40.04 ft below land-surface datum, Oct. 27, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	38.79	May 11, 1994	32.07

GROUND-WATER LEVELS

JEFFERSON COUNTY

381034085502601. Local number 50-10-2 (RR-30), map number 18.

LOCATION.--Lat 38°10'34", long 85°50'26", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on south edge of Rockford Lane near west bank of Mill Creek, in Shively. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 94 ft, screened 90-92 ft.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 442.96 ft above sea level. Measuring point: Floor of recorder shelter, 4.31 ft above land-surface datum.

REMARKS.--Water-quality sample May 6, 1945.

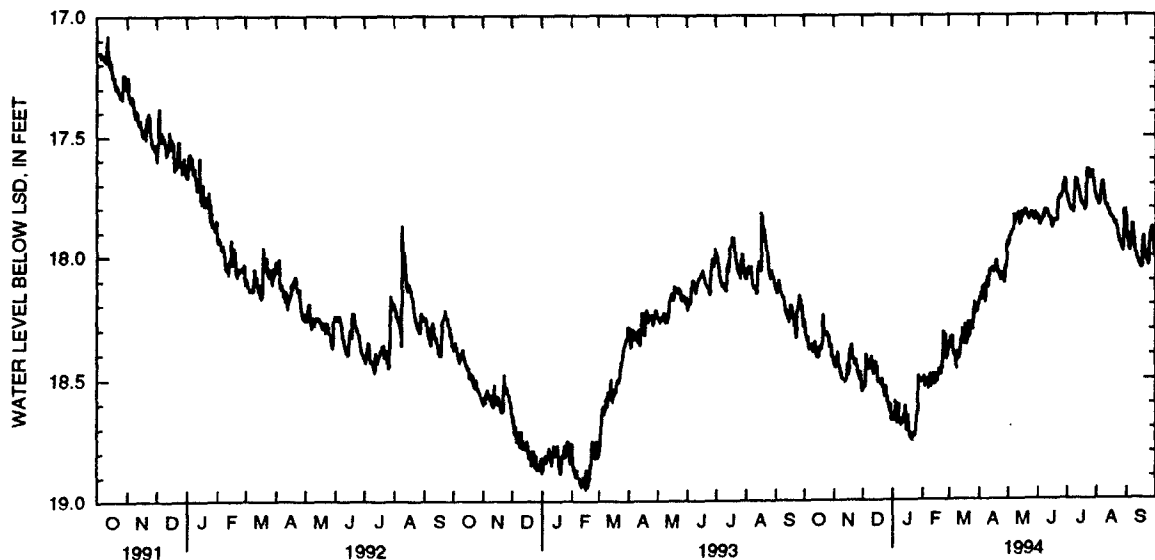
PERIOD OF RECORD.--April 1945 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 15.38 ft below land-surface datum, Apr. 14, 1980; lowest 31.55 ft below land-surface datum, Apr. 2, 1957.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.26	18.45	18.54	18.64	18.51	18.37	18.18	17.96	17.84	17.76	17.77	17.90
2	18.32	18.45	18.53	18.67	18.49	18.33	18.17	17.95	17.87	17.77	17.77	17.94
3	18.34	18.42	18.53	18.62	18.53	18.37	18.18	17.92	17.87	17.79	17.79	17.97
4	18.33	18.41	18.40	18.64	18.51	18.33	18.15	17.91	17.86	17.80	17.79	17.98
5	18.37	18.41	18.44	18.67	18.50	18.40	18.13	17.90	17.85	17.81	17.72	17.98
6	18.38	18.45	18.43	18.60	18.51	18.40	18.13	17.89	17.84	17.81	17.70	17.90
7	18.38	18.48	18.46	18.66	18.54	18.41	18.19	17.83	17.84	17.80	17.70	17.89
8	18.37	18.49	18.46	18.68	18.49	18.46	18.14	17.86	17.81	17.82	17.73	17.92
9	18.37	18.50	18.44	18.69	18.53	18.39	18.11	17.83	17.81	17.71	17.76	17.96
10	18.39	18.50	18.41	18.68	18.52	18.41	18.12	17.84	17.82	17.68	17.79	17.99
11	18.36	18.50	18.48	18.68	18.48	18.42	18.11	17.83	17.82	17.69	17.79	18.01
12	18.36	18.51	18.47	18.65	18.48	18.40	18.06	17.87	17.84	17.71	17.80	18.02
13	18.40	18.50	18.45	18.64	18.52	18.34	18.06	17.87	17.84	17.72	17.81	18.03
14	18.41	18.47	18.43	18.68	18.50	18.33	18.07	17.86	17.86	17.74	17.81	18.04
15	18.41	18.47	18.46	18.71	18.48	18.34	18.06	17.82	17.88	17.76	17.84	18.05
16	18.41	18.48	18.51	18.69	18.51	18.36	18.07	17.84	17.88	17.78	17.84	18.05
17	18.37	18.38	18.51	18.68	18.49	18.32	18.06	17.83	17.86	17.79	17.84	17.99
18	18.38	18.41	18.50	18.72	18.48	18.31	18.03	17.82	17.86	17.79	17.86	17.93
19	18.37	18.36	18.52	18.73	18.47	18.35	18.02	17.83	17.86	17.80	17.87	17.96
20	18.27	18.41	18.50	18.74	18.48	18.31	18.07	17.83	17.86	17.81	17.86	18.00
21	18.31	18.42	18.53	18.75	18.46	18.27	18.07	17.84	17.85	17.80	17.88	18.02
22	18.32	18.44	18.54	18.74	18.42	18.31	18.08	17.85	17.77	17.65	17.89	18.03
23	18.32	18.44	18.57	18.72	18.32	18.28	18.10	17.84	17.76	17.64	17.92	18.04
24	18.31	18.43	18.57	18.73	18.39	18.28	18.08	17.83	17.75	17.66	17.94	17.96
25	18.33	18.48	18.54	18.68	18.32	18.30	18.08	17.82	17.76	17.67	17.95	17.91
26	18.33	18.48	18.57	18.65	18.42	18.26	18.09	17.82	17.74	17.68	17.95	17.89
27	18.37	18.50	18.61	18.56	18.41	18.24	18.11	17.85	17.70	17.65	17.97	17.90
28	18.37	18.47	18.63	18.50	18.38	18.20	18.05	17.85	17.69	17.68	17.98	17.90
29	18.40	18.51	18.60	18.51	---	18.23	18.05	17.84	17.69	17.71	17.85	17.97
30	18.40	18.55	18.67	18.51	---	18.23	17.95	17.84	17.74	17.74	17.81	18.01
31	18.42	---	18.67	18.51	---	18.20	---	17.85	---	17.76	17.83	---
MAX	18.42	18.55	18.67	18.75	18.54	18.46	18.19	17.96	17.88	17.82	17.98	18.05
MIN	18.26	18.36	18.40	18.50	18.32	18.20	17.95	17.82	17.69	17.64	17.70	17.89

WTR YR 1994 HIGH 17.64 LOW 18.75



GROUND-WATER LEVELS

JEFFERSON COUNTY

381050085511001. Local number 51-10-1, (RR-29), map number 19.

LOCATION.--Lat 38°10'50", long 85°51'10", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 50 ft south of Rockford Lane, at the edge of an apartment house parking area, 0.3 mi southeast of the junction of Cane Run Road and Rockford Lane. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 64 ft, screened 62.5-64.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.18 ft above sea level. Measuring point: Top of plug, 3.60 ft above land-surface datum.

REMARKS.--Water-quality sample Apr. 3, 1945.

PERIOD OF RECORD.--April 1945 to current year. April 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.80 ft below land-surface datum, Apr. 16, 1980; lowest measured, 37.61 ft below land-surface datum, Mar. 21, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	25.93	May 11, 1994	25.21

381102085485601. Local number 86-2, map number 20.

LOCATION.--Lat 38°11'02", long 85°48'56", Hydrologic Unit 05140101, County Code 111, Louisville West quad quadrangle, enter through Louisville Memorial Park Cemetery, on south bank of Mill Creek behind Korfhage Florist, 18.2 ft southwest of MSD access gate, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 50 ft, screened 48-50 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.32 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 21.35 ft below land-surface datum, May 7, 1991; lowest measured, 24.76 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	22.38	May 11, 1994	21.88

381123085491401. Local number 49-11-1, (RR-32), map number 21.

LOCATION.--Lat 38°11'23", long 85°49'14", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the east edge of a private driveway, at 2134 Garrs Lane, 150 ft south of Garrs Lane, 400 ft southeast of the junction of Garrs and Eden Lanes, in Shively. Owner: Joseph A. Winkle.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 108 ft, screened 106.5-108.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.55 ft above sea level. Measuring point: Top of plug, 2.60 ft above land-surface datum.

PERIOD OF RECORD.--May 1945 to current year. May 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.86 ft below land-surface datum, Apr. 25, 1985; lowest measured, 45.76 ft below land-surface datum, Mar. 21, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	29.65	May 11, 1994	29.13

GROUND-WATER LEVELS

JEFFERSON COUNTY

381130085515001. Local number 51-11-1, map number 22.

LOCATION.--Lat 38°11'30", long 85°51'50", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in a concrete well pit on the west side of a tool shed at the Thieneman Brothers vegetable farm, 0.3 mi northeast of the junction of Camp Ground Road and Lees Lane, in Louisville. Owner: Thieneman Brothers.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Driven observation water-table well, diameter 1.25 in., depth 70 ft, cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.64 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby well.

PERIOD OF RECORD.--February 1944 to current year. February 1944 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 42.11 ft below land-surface datum, May 6, 1991; lowest measured, 59.80 ft below land-surface datum, Jan. 24, 1956.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	46.47	May 11, 1994	43.59

381139085502301. Local number 81-2, map number 23.

LOCATION.--Lat 38°11'39", long 85°50'23", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 12 ft west of west bank of a drainage ditch, 21 ft northeast of west end of guardrail, 30 ft north of north edge of blacktop on S. Crums Lane, 40 ft northwest of northwest corner of concrete bridge, 1,000 ft east of junction of Cane Run Road and S. Crums Lane, in Louisville. Owner: Metropolitan Sewer District.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 54 ft, screened 41.5-43.5 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 444.91 ft above sea level. Measuring point: Top of casing at land-surface datum.

PERIOD OF RECORD.--May 1981 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.52 ft below land-surface datum, May 6, 1991; lowest measured, 30.21 ft below land-surface datum, Oct. 27, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	27.58	May 11, 1994	26.69

381142085475702. Local number, 47-11-4, (RR-42), map number 24.

LOCATION.--Lat 38°11'42", long 85°47'57", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the concrete curb on the west side of Manslick Road, 0.1 mi south of junction of Manslick Road and Berry Boulevard, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, screened 101.5-103.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.91 ft above sea level. Measuring point: Top of plug, 2.00 ft above land-surface datum.

PERIOD OF RECORD.--July 1945 to current year. July 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.02 ft below land-surface datum, Apr. 25, 1985; lowest measured, 49.27 ft below land-surface datum, Apr. 5, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	23.70	May 11, 1994	23.30

GROUND-WATER LEVELS

JEFFERSON COUNTY

381143085465801. Local number 46-11-2, (RR-25), map number 25.

LOCATION.--Lat 38°11'43", long 85°46'58", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in the center of the concrete sidewalk at the driveway to Most Blessed Sacrament Catholic Church, 100 ft northeast of the junction of Taylor Boulevard and Hathaway Street, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 60 ft, screened 59-60 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.66 ft above sea level. Measuring point: Top of plug, 0.97 ft below land-surface datum.

REMARKS.--Water quality sample Mar. 1, 1945.

PERIOD OF RECORD.--March 1945 to current year. March 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 24.42 ft below land-surface datum, Oct. 31, 1985; lowest measured, 52.63 ft below land-surface datum, Apr. 25, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	25.96	May 11, 1994	25.62

381204085455301. Local number CP-16, map number 26.

LOCATION.--Lat 38°12'04", long 85°45'53", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, near the south end of Wayside Park, 32 ft west of South Third Street curb, 52 ft east of Oakdale Avenue curb, 160 ft north of intersection with Southern Parkway, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered well, diameter 1.5 in., depth 23 ft, screened 21-23 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 456.82 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--May 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.46 ft below land-surface datum, Apr. 24, 1984; lowest measured, 13.84 ft below land-surface datum, Oct. 18, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	12.66	May 11, 1994	11.90

381207085484601. Local number 48-12-15, (RR-41), map number 27.

LOCATION.--Lat 38°12'07", long 85°48'46", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the east edge of a private driveway at the south end of a hedge, 3 ft west of a chain-link fence, 100 ft northeast of junction of Farnsley and Janell Roads, in Shively. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 91 ft, screened 89.5-91.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 457.25 ft above sea level. Measuring point: Top of plug, 0.12 ft below land-surface datum.

REMARKS.--Water quality sample June 29, 1945.

PERIOD OF RECORD.--June 1945 to current year. June 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.68 ft below land-surface datum, Apr. 25, 1985; lowest measured, 52.81 ft below land-surface datum, Mar. 22, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	30.68	May 11, 1994	30.12

GROUND-WATER LEVELS

JEFFERSON COUNTY

381209085472101. Local number 47-12-3, (C-7), map number 28.

LOCATION.--Lat 38°12'09", long 85°47'21", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in an open field near a sewer manhole, 200 ft west of the west end of Weyler Avenue, 0.2 mi east of 7th Street Road and Yellowstone Distillery, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 97 ft, screened 95-97 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 448.60 ft above sea level. Measuring point: Top of plug, 2.75 ft above land-surface datum.

PERIOD OF RECORD.--October 1935 to current year. October 1935 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 15.95 ft below land-surface datum, Apr. 25, Oct. 31, 1985; lowest measured, 52.19 ft below land-surface datum, Feb. 19, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	17.67	May 11, 1994	17.35

381213085521701. Local number 52-12-2, (RR-22), map number 29.

LOCATION.--Lat 38°12'13", long 85°52'17", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 50 ft south of Ohio River at the Stauffer Chemical Company Plant, 0.9 mi north of junction of Camp Ground Road and Lees Lane, in Louisville. Owner: Stauffer Chemical Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 101 ft, screened 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 434.30 ft above sea level. Measuring point: Floor of recorder shelter, 4.16 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River. Water-quality sample collected Feb. 12, 1945.

PERIOD OF RECORD.--August 1945 to current year. August 1945 to September 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.50 ft below land-surface datum, Apr. 20, 1948; lowest measured, 51.79 ft below land-surface datum, June 18, 1962.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

Date	Water level	Date	Water level
Oct. 29, 1993	46.57	May 11, 1994	26.35

381222085505201. Local number 50-12-16 (RR-27), map number 63.

LOCATION.--Lat 38°12'22", long 85°50'52", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on the south edge of Kramers Lane, at the east side of the entrance driveway to Marathon Oil Company storage terminal, 300 ft southwest of the junction of Camp Ground Road and Kramers Lane, in Louisville. Owner: Jefferson County.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 112 ft, screened 110.5-112.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 445.58 ft above sea level. Measuring point: Floor of recorder shelter, 3.40 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells. Water-quality sample collected Mar. 23, 1945.

PERIOD OF RECORD.--March 1945 to current year. March 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.79 ft below land-surface datum, May 11, 1994; lowest measured, 68.37 ft below land-surface datum, Oct. 7, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	40.61	May 11, 1994	34.79

GROUND-WATER LEVELS

JEFFERSON COUNTY

381246085470601. Local number 47-12-4, (owner's number TW-2), map number 30.

LOCATION.--Lat 38°12'46", long 85°47'06", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of a used car lot, Seventh Street Road at Wathen Lane, 100 ft southeast of a Ramey collector well, in Louisville. Owner: Joseph E. Seagram and Sons Distillery.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 103 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 458.64 ft above sea level. Measuring point: Floor of recorder shelter, 4.39 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby collector well.

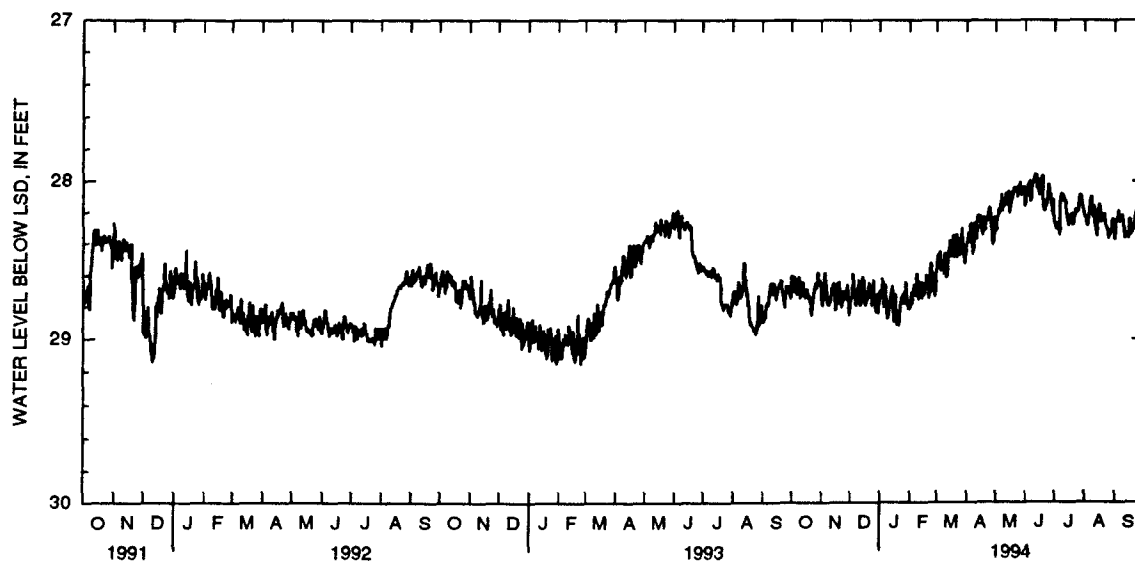
PERIOD OF RECORD.--October 1943 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 26.44 ft below land-surface datum, Jan. 11, 1985; lowest, 86.37 ft below land-surface datum, Mar. 9, 1944.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.61	28.78	28.81	28.70	28.81	28.58	28.40	28.31	28.14	28.27	28.22	28.31
2	28.65	28.79	28.75	28.73	28.73	28.47	28.36	28.31	28.08	28.30	28.23	28.28
3	28.70	28.70	28.73	28.66	28.78	28.54	28.35	28.24	28.04	28.27	28.26	28.26
4	28.62	28.64	28.59	28.68	28.71	28.45	28.37	28.20	28.02	28.30	28.28	28.25
5	28.70	28.60	28.72	28.80	28.66	28.57	28.28	28.21	28.00	28.29	28.23	28.19
6	28.71	28.69	28.72	28.67	28.68	28.54	28.27	28.16	28.13	28.32	28.18	28.26
7	28.71	28.78	28.79	28.74	28.73	28.52	28.46	28.09	28.11	28.11	28.12	28.25
8	28.65	28.79	28.77	28.83	28.60	28.59	28.43	28.19	28.01	28.08	28.15	28.24
9	28.61	28.79	28.72	28.87	28.69	28.46	28.35	28.14	28.00	28.11	28.22	28.24
10	28.74	28.77	28.63	28.85	28.75	28.53	28.30	28.16	27.98	28.10	28.19	28.29
11	28.69	28.72	28.79	28.81	28.65	28.61	28.37	28.13	27.97	28.12	28.19	28.36
12	28.66	28.72	28.78	28.74	28.65	28.60	28.25	28.14	28.01	28.13	28.31	28.35
13	28.70	28.65	28.70	28.69	28.73	28.45	28.22	28.13	28.04	28.20	28.35	28.33
14	28.73	28.69	28.62	28.74	28.71	28.42	28.24	28.07	27.99	28.23	28.29	28.35
15	28.74	28.79	28.65	28.85	28.66	28.41	28.22	28.18	28.09	28.27	28.21	28.36
16	28.70	28.81	28.77	28.87	28.72	28.48	28.32	28.18	28.03	28.24	28.15	28.28
17	28.69	28.65	28.79	28.72	28.67	28.47	28.34	28.15	28.07	28.22	28.18	28.34
18	28.74	28.78	28.71	28.87	28.64	28.35	28.30	28.11	27.97	28.24	28.26	28.29
19	28.73	28.64	28.75	28.90	28.63	28.48	28.24	28.09	28.16	28.21	28.24	28.32
20	28.74	28.75	28.67	28.87	28.70	28.44	28.31	28.07	28.18	28.28	28.23	28.30
21	28.81	28.78	28.71	28.90	28.72	28.34	28.27	28.06	28.18	28.26	28.21	28.27
22	28.82	28.80	28.70	28.81	28.71	28.48	28.25	28.05	28.16	28.22	28.26	28.23
23	28.77	28.76	28.78	28.74	28.52	28.40	28.25	28.06	28.14	28.20	28.29	28.19
24	28.71	28.70	28.75	28.76	28.64	28.40	28.20	28.07	28.07	28.20	28.31	28.23
25	28.68	28.75	28.63	28.72	28.58	28.47	28.18	28.03	28.05	28.19	28.36	28.21
26	28.65	28.70	28.72	28.78	28.72	28.41	28.25	28.01	28.08	28.14	28.35	28.17
27	28.68	28.75	28.81	28.70	28.73	28.36	28.36	28.09	28.11	28.09	28.34	28.23
28	28.62	28.66	28.83	28.69	28.63	28.41	28.33	28.09	28.16	28.10	28.31	28.24
29	28.63	28.75	28.72	28.79	---	28.48	28.37	28.04	28.17	28.13	28.31	28.30
30	28.63	28.85	28.84	28.81	---	28.52	28.23	28.04	28.22	28.17	28.24	28.32
31	28.65	---	28.78	28.80	---	28.45	---	28.15	---	28.20	28.30	---
MAX	28.82	28.85	28.84	28.90	28.81	28.61	28.46	28.31	28.22	28.32	28.36	28.36
MIN	28.61	28.60	28.59	28.66	28.52	28.34	28.18	28.01	27.97	28.08	28.12	28.17

WTR YR 1994 HIGH 27.97 LOW 28.90



GROUND-WATER LEVELS

JEFFERSON COUNTY

381246085463201. Local number CP 18A, map number 31.

LOCATION.--Lat 38°12'46", long 85°46'32", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Colorado and Tennessee Avenue in the northeast corner of South Central Park, 10 ft east of CP18. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 1.5 in., depth 44.3 ft. screened 42-44 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.11 ft above sea level. Measuring point: Top of casing, 0.35 ft. below land-surface datum.

PERIOD OF RECORD.--October 1984 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.51 ft below land-surface datum, Apr. 23, 1985; lowest measured, 33.18 ft below land-surface datum, Oct. 19, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	29.86	May 10, 1994	29.44

381251085483501. Local number 48-12-2, (C-3), map number 32.

LOCATION.--Lat 38°12'51", long 85°48'35", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in an open field, 200 ft east of Tucker Avenue, 300 ft north of the Stitzel-Weller Distillery, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 117 ft, screened 115-117 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 465.95 ft above sea level. Measuring point: Top of casing, .60 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--October 1935 to current year. October 1935 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 41.72 ft below land-surface datum, Apr. 25, 1985; lowest measured, 78.99 ft below land-surface datum, Nov. 1, 1957.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	43.55	May 11, 1994	42.91

381251085500501. Local number 50-12-18, (RR-35), map number 33.

LOCATION.--Lat 38°12'51", long 85°50'05", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 60 ft north of Camp Ground Road, 1,500 ft northeast of junction of Camp Ground Road and Ralph Avenue, in Louisville. Owner: Air Reduction Company, Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 120 ft, screened 118-120 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.54 ft above sea level. Measuring point: Floor of recorder shelter, 5.02 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells. Water-quality sample collected May 24, 1945.

PERIOD OF RECORD.--May 1945 to current year. May 1945 to September 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.53 ft below land-surface datum, May 6, 1991; lowest measured, 78.35 ft below land-surface datum, Mar. 20, 1961.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	50.76	May 11, 1994	45.65

GROUND-WATER LEVELS

JEFFERSON COUNTY

381257085471801. Local number 47-12-15, (TW-4), map number 34.

LOCATION.--Lat 38°12'57", long 85°47'18", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, in the truck parking lot at the National Distillers Products Company Plant, 50 ft north of Wathen Lane, 0.3 mi east of Dixie Highway, in Louisville. Owner: National Distillers Products Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 84 ft, cased and screened.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.07 ft above sea level. Measuring point: Top of casing, 4.70 ft above land-surface datum.

REMARKS.--Water level affected by pumping from nearby wells.

PERIOD OF RECORD.--July 1942 to current year. July 1942 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.71 ft below land-surface datum, Apr. 24, 1985; lowest measured, 72.47 ft below land-surface datum, Feb. 19, 1945.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 28, 1993	25.92	May 10, 1994	25.37

381259085511002. Local number 51-13-1, (RR-21), map number 35.

LOCATION.--Lat 38°12'59", long 85°51'10", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, on south bank of Ohio River directly behind the Du Pont Chemical Company Plant, 200 ft northeast of a large brick pump house, 0.8 mi southwest of junction of Ralph Avenue and Camp Ground Road, in Louisville. Owner: Du Pont Chemical Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 1120TSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 107 ft, screened 105.5-107.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.20 ft above sea level. Measuring point: Top of plug, 1.90 ft above land-surface datum.

PERIOD OF RECORD.--February 1945 to current year. February 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 19.87 ft below land-surface datum, Apr. 9, 1975; lowest measured, 64.39 ft below land-surface datum, Nov. 12, 1969.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 29, 1993	54.11	May 11, 1994	33.70

GROUND-WATER LEVELS

JEFFERSON COUNTY

381315085502602. Local number 50-13-79, (NC-TW-D), map number 36.

LOCATION.--Lat 38°13'15", long 85°50'26", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 800 ft south of Bells Lane, 0.3 mi east of the Ohio River, at the National Carbide Plant in Louisville.

Owner: Air Reduction Company, Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 108 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 448.68 ft above sea level. Measuring point: Floor of recorder shelter, 4.72 ft above land-surface datum.

REMARKS.--Water levels affected by pumping from nearby wells.

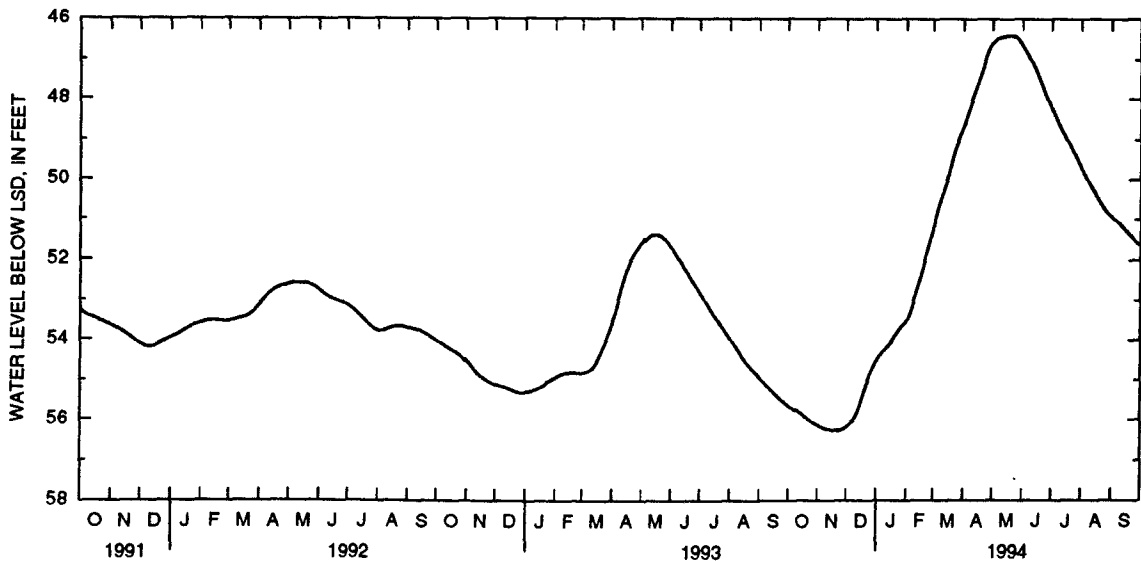
PERIOD OF RECORD.--January 1956 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 44.34 ft below land-surface datum, May 23, 1984; lowest, 87.29 ft below land-surface datum, Nov. 13, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55.66	56.15	56.17	54.49	53.49	51.16	48.68	46.59	46.67	48.26	49.74	50.94
2	55.68	56.17	56.15	54.45	53.45	51.06	48.61	46.56	46.71	48.31	49.79	50.97
3	55.69	56.18	56.13	54.41	53.40	50.97	48.53	46.53	46.75	48.37	49.84	50.99
4	55.71	56.19	56.10	54.38	53.34	50.87	48.46	46.51	46.79	48.42	49.88	51.01
5	55.72	56.20	56.08	54.34	53.26	50.78	48.38	46.49	46.84	48.47	49.93	51.03
6	55.73	56.21	56.05	54.31	53.17	50.69	48.29	46.48	46.88	48.53	49.98	51.05
7	55.75	56.22	56.03	54.28	53.08	50.61	48.21	46.46	46.92	48.58	50.02	51.07
8	55.76	56.23	56.00	54.25	52.99	50.53	48.14	46.46	46.97	48.63	50.07	51.09
9	55.76	56.23	55.97	54.23	52.90	50.45	48.06	46.45	47.01	48.68	50.12	51.11
10	55.78	56.24	55.92	54.21	52.83	50.37	47.99	46.45	47.06	48.73	50.16	51.14
11	55.79	56.24	55.87	54.18	52.74	50.30	47.92	46.44	47.10	48.77	50.21	51.16
12	55.81	56.25	55.81	54.15	52.66	50.23	47.85	46.44	47.16	48.81	50.25	51.19
13	55.83	56.25	55.75	54.12	52.58	50.16	47.79	46.43	47.21	48.86	50.29	51.21
14	55.84	56.25	55.67	54.09	52.50	50.08	47.72	46.42	47.27	48.90	50.33	51.24
15	55.86	56.26	55.59	54.06	52.41	49.99	47.65	46.41	47.32	48.94	50.38	51.26
16	55.88	56.26	55.50	54.03	52.33	49.90	47.58	46.41	47.38	48.99	50.42	51.28
17	55.90	56.26	55.42	53.99	52.24	49.81	47.51	46.40	47.44	49.03	50.46	51.31
18	55.92	56.27	55.34	53.95	52.14	49.71	47.44	46.40	47.50	49.08	50.50	51.33
19	55.94	56.27	55.26	53.91	52.04	49.61	47.36	46.40	47.56	49.12	50.55	51.36
20	55.96	56.27	55.19	53.87	51.94	49.51	47.29	46.40	47.62	49.17	50.59	51.39
21	55.98	56.27	55.11	53.84	51.85	49.41	47.21	46.40	47.68	49.21	50.62	51.42
22	56.00	56.27	55.04	53.80	51.75	49.33	47.12	46.41	47.74	49.26	50.66	51.44
23	56.02	56.27	54.98	53.77	51.65	49.24	47.04	46.42	47.80	49.30	50.70	51.47
24	56.04	56.26	54.91	53.73	51.57	49.17	46.97	46.44	47.86	49.35	50.73	51.50
25	56.05	56.25	54.85	53.70	51.48	49.10	46.89	46.45	47.92	49.40	50.76	51.53
26	56.07	56.24	54.79	53.66	51.40	49.04	46.82	46.47	47.98	49.45	50.80	51.55
27	56.08	56.23	54.73	53.64	51.32	48.97	46.76	46.50	48.03	49.49	50.82	51.57
28	56.10	56.22	54.68	53.60	51.24	48.91	46.70	46.53	48.09	49.54	50.85	51.59
29	56.11	56.20	54.63	53.58	---	48.85	46.66	46.56	48.15	49.59	50.87	51.60
30	56.12	56.19	54.58	53.55	---	48.80	46.62	46.59	48.21	49.64	50.90	51.61
31	56.14	---	54.54	53.53	---	48.74	---	46.63	---	49.69	50.92	---
MAX	56.14	56.27	56.17	54.49	53.49	51.16	48.68	46.63	48.21	49.69	50.92	51.61
MIN	55.66	56.15	54.54	53.53	51.24	48.74	46.62	46.40	46.67	48.26	49.74	50.94

WTR YR 1994 HIGH 46.40 LOW 56.27



GROUND-WATER LEVELS

JEFFERSON COUNTY

381320085464101. Local number CP-15, map number 37.

LOCATION.--Lat 38°13'20", long 85°45'41", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the northeast corner of Samuel Jones Park, Patton Court and South 13th Street, 14 ft south of chain-link fence, 22 ft south of curb on south side of Patton Court, 45 ft west of curb on west side of south 13th Street. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 100 ft, screened 96.5-100.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.68 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 22.84 ft below land-surface datum, Apr. 23, 1985; lowest measured, 30.03 ft below land-surface datum, Dec. 14, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	24.81	May 10, 1994	24.54

381331085491601. Local number 49-13-40, (RR-26), map number 38.

LOCATION.--Lat 38°13'31", long 85°49'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of Algonquin Parkway and 39th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 115 ft, screened 113.5-115.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 450.43 ft above sea level. Measuring point: Top of plug, 1.40 ft above land-surface datum.

REMARKS.--Water-quality samples Mar. 13, 1945 to June 28, 1966.

PERIOD OF RECORD.--March 1945 to current year. March to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 37.01 ft below land-surface datum, Apr. 25, 1985; lowest measured, 76.25 ft below land-surface datum, Nov. 29, 1963.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	39.50	May 10, 1994	39.44

381346085453801. Local number 45-13-2 (St. Patrick's well), map number 39.

LOCATION.--Lat 38°13'46", long 85°45'38", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the rear of Van Brook Manor Nursing Home, 1382 South Third Street, in Louisville. Owner: Van Brook Manor, Inc.

AQUIFER.--Knox Dolomite of Early Ordovician age. Aquifer code: 367KNCK.

WELL CHARACTERISTICS.--Drilled artesian (flowing) gas test, diameter 1-3/4 in., depth 1952 ft, length of wooden casing unknown.

INSTRUMENTATION.--Bi-annual volumetric measurement by USGS personnel.

DATUM.--Elevation of land-surface datum is 458.15 ft above sea level. Measuring point: Valve at pressure gage, 0.30 ft below land-surface datum.

REMARKS.--Water-quality samples Feb. 9, 1938 to July 7, 1981.

PERIOD OF RECORD.--February 1971 to current year. February 1971 to September 1977 unpublished, on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Maximum water flow measured, 0.50 gal/min Mar. 6, 1978; minimum measured, zero flow (frozen) Jan. 31, 1977.

WATER FLOW, IN GALLONS PER MINUTE (GAL/MIN), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water flow	Date	Water flow
Oct. 28, 1993	.10 gal/min	May 13, 1994	.04 gal/min

GROUND-WATER LEVELS

JEFFERSON COUNTY

381346085454201. Local number CP 1, map number 40.

LOCATION.--Lat 38°13'46", long 85°45'42", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the southeast corner of Central Park, 100 ft north of a concrete retaining wall on Magnolia Street, 20 ft west of concrete retaining wall on South Fourth Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 106.2 ft, screened 103.2-106.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.86 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Water-quality sample collected June 16, 1978 to Sept. 17, 1981.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 29.98 ft below land-surface datum, Apr. 23, 1985; lowest measured, 41.23 ft below land-surface datum, June 16, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	32.26	May 10, 1994	31.88

381400085445001. Local number CP 6, map number 41.

LOCATION.--Lat 38°14'00", long 85°44'45", Hydrologic Unit 05140101, County Code 111, Louisville East quadrangle, at the northwest corner of Shelby Park, 70 ft south of an alley, 80 ft east of South Jackson Street, 300 ft southeast of the junction of East Oak and South Jackson Streets, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 79.2 ft, screened 52.2-55.2 ft, 76.2-79.2 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.26 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 30.86 ft below land-surface datum, Oct. 30, 1984; lowest measured, 39.95 ft below land-surface datum, July 5, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	33.38	May 10, 1994	32.30

381417085500301. Local number 50-14-4 (RR-23), map number 42.

LOCATION.--Lat 38°14'17", long 85°50'03", Hydrologic Unit 05140101, County Code 111, at the Louisville Refining Company Plant, 1300 South Western Parkway, on top of Ohio River flood wall, 200 ft southeast of a river barge loading dock, in Louisville. Owner: Ashland Oil Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in., depth 101 ft, screened 99.5-101.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 453.83 ft above sea level. Measuring point: Top of plug, 5.60 ft above land-surface datum.

REMARKS.--Water-quality sample collected Feb. 15, 1945.

PERIOD OF RECORD.--February 1945 to current year. February 1945 to November 1976 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.22 ft below land-surface datum, Apr. 26, 1984; lowest measured, 77.08 ft below land-surface datum, Dec. 17, 1954.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	56.90	May 10, 1994	48.40

GROUND-WATER LEVELS

JEFFERSON COUNTY

381428085485701. Local number 78-6, map number 43.

LOCATION.--Lat 38°14'28", long 85°48'57", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Virginia Avenue, I-264 South Exit, 19 ft east of curb on east side of exit road, 24 ft southeast of south end of a metal guardrail, 100 ft north of curb on north edge of Virginia Avenue, in Louisville. Owner: Kentucky Highway Department.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 440.28 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--February 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 23.96 ft below land-surface datum, May 6, 1991; lowest measured, 29.75 ft below land-surface datum, Dec. 13, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	27.19	May 11, 1994	25.63

381430085472501. Local number CP-17, map number 44.

LOCATION.--Lat 38°14'30", long 85°47'25", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, 21 ft west of the west curb on 22nd Street, 45 ft north of north curb on Greenwood Street, at the southeast corner of Victory Park, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 86.0 ft, screened 84.0-86.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 451.78 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--March 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.20 ft below land-surface datum, Apr. 23, 1985; lowest measured, 29.96 ft below land-surface datum, Oct. 25, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	28.52	May 10, 1994	28.50

GROUND-WATER LEVELS

JEFFERSON COUNTY

381441085452701. Local number 45-14-71, (owner's number A-2), map number 45.

LOCATION.--Lat 38°14'41", long 85°45'27", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at the Louisville Free Public Library, 301 West York Street, on east side of building at base of the TV-radio tower, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSE.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 105 ft, cased and screened.

INSTRUMENTATION.--Digital recorder -- 60-minute punch.

DATUM.--Elevation of land-surface datum is 454.23 ft above sea level. Measuring point: Top of casing, 1.00 ft above land-surface datum.

REMARKS.--Water-quality sample collected May 8, 1956.

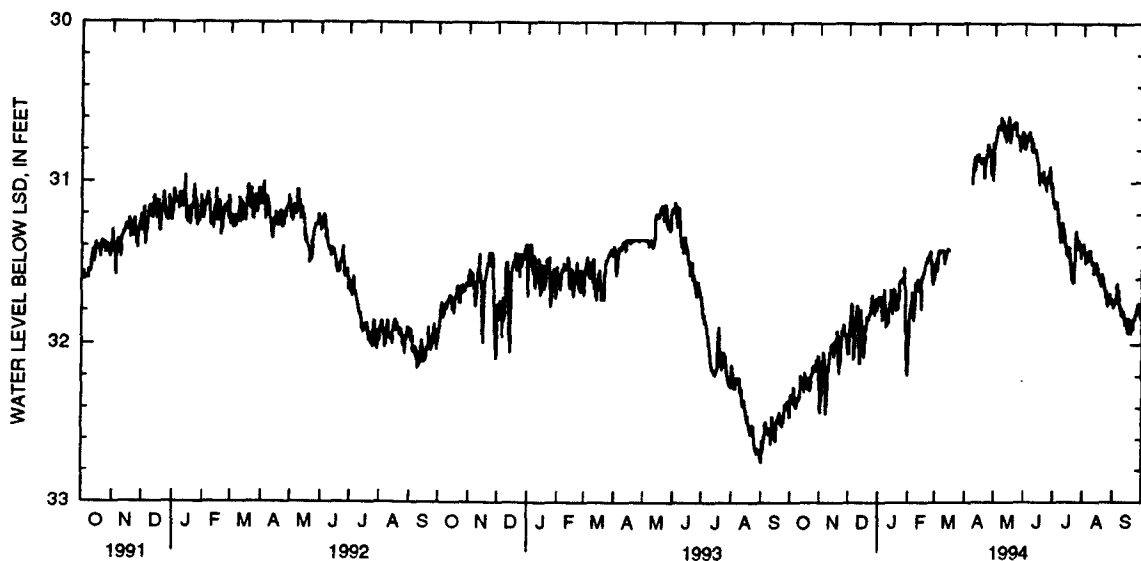
PERIOD OF RECORD.--February 1937 to current year. February 1937 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.09 ft below land-surface datum, May 20, 1984; lowest, 77.82 ft below land-surface datum, Sept. 18, 1955.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.32	32.43	32.06	31.71	31.96	31.55	---	30.78	30.79	31.16	31.41	31.77
2	32.34	32.36	31.91	31.75	31.81	31.49	---	30.73	30.78	31.12	31.45	31.75
3	32.37	32.23	31.85	31.71	31.79	31.55	---	30.67	30.75	31.14	31.50	31.73
4	32.27	32.12	31.75	31.77	31.78	31.42	---	30.64	30.70	31.16	31.48	31.70
5	32.37	32.06	31.84	31.85	31.79	31.44	---	30.65	30.71	31.24	31.48	31.64
6	32.39	32.09	32.09	31.75	31.85	31.42	---	30.65	30.73	31.26	31.43	31.68
7	32.40	32.44	32.00	31.73	31.83	31.42	---	30.59	30.74	31.34	31.42	31.75
8	32.35	32.31	31.92	31.78	31.65	31.43	30.96	30.63	30.81	31.37	31.46	31.79
9	32.33	32.21	31.83	31.89	31.65	31.42	30.88	30.61	30.75	31.31	31.50	31.82
10	32.35	32.14	31.76	31.81	31.63	31.50	30.87	30.71	30.80	31.25	31.49	31.82
11	32.26	32.08	31.86	31.87	31.60	31.48	30.88	30.66	30.79	31.33	31.50	31.83
12	32.20	32.05	32.12	31.75	31.61	31.45	30.84	30.74	30.82	31.38	31.55	31.82
13	32.23	32.00	31.85	31.74	31.68	31.42	30.83	30.69	30.86	31.40	31.52	31.88
14	32.28	32.00	31.85	31.74	31.78	31.42	30.85	30.61	30.88	31.44	31.50	31.87
15	32.30	32.06	31.92	31.79	31.59	31.42	30.85	30.59	30.98	31.45	31.57	31.89
16	32.26	32.05	32.06	31.75	31.59	---	30.87	30.71	31.01	31.44	31.58	31.93
17	32.22	31.97	32.00	31.66	31.57	---	30.87	30.74	30.96	31.40	31.58	31.84
18	32.23	32.02	31.90	31.76	31.52	---	30.85	30.67	30.94	31.51	31.58	31.85
19	32.28	31.92	31.91	31.78	31.50	---	30.85	30.65	30.97	31.55	31.64	31.92
20	32.22	32.12	31.83	31.73	31.50	---	30.97	30.63	31.00	31.60	31.60	31.87
21	32.29	32.18	31.84	31.75	31.48	---	30.89	30.63	31.01	31.62	31.59	31.91
22	32.27	32.14	31.83	31.72	31.45	---	30.82	30.65	30.98	31.62	31.61	31.84
23	32.23	32.01	31.82	31.62	31.43	---	30.81	30.70	31.05	31.41	31.64	31.85
24	32.20	31.92	31.76	31.61	31.51	---	30.76	30.70	30.96	31.31	31.71	31.81
25	32.14	31.93	31.70	31.61	31.56	---	30.83	30.71	30.96	31.41	31.73	31.79
26	32.13	31.88	31.73	31.62	31.60	---	30.82	30.72	30.93	31.40	31.76	31.75
27	32.14	31.95	31.79	31.59	31.63	---	30.95	30.80	30.99	31.39	31.70	31.78
28	32.12	31.93	31.81	31.56	31.60	---	30.91	30.77	31.03	31.42	31.74	31.76
29	32.12	31.98	31.72	31.98	---	---	30.98	30.70	31.06	31.47	31.73	31.83
30	32.08	32.06	31.79	32.17	---	---	30.75	30.76	31.13	31.40	31.75	31.85
31	32.22	---	31.75	32.09	---	---	---	30.78	---	31.39	31.74	---
MAX	32.40	32.44	32.12	32.17	31.96	---	---	30.80	31.13	31.62	31.76	31.93
MIN	32.08	31.88	31.70	31.56	31.43	---	---	30.59	30.70	31.12	31.41	31.64

WTR YR 1994 HIGH 30.59 LOW 32.44



GROUND-WATER LEVELS

JEFFERSON COUNTY

381447085454001. Local number 45-14-66, (owner's number 5), map number 46.

LOCATION.--Lat 38°14'47", long 85°45'40", Hydrologic Unit 05140101, County Code 111, Louisville West quadrangle, at Courier Journal-Louisville Times, Sixth and Broadway Streets in subbasement below building entrance walkway from Armory Street, in Louisville. Owner: Gannett.

AQUIFER.--Louisville Limestone and Laurel Dolomite of Middle Silurian age. Aquifer code: 354LVLL.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 12 in., depth 190 ft, cased to 121 ft, open-hole 121-190 ft.

INSTRUMENTATION.--Continuous strip-chart recorder.

DATUM.--Elevation of land-surface datum is 455.83 ft above sea level. Measuring point: Top of metal well cover, 15.87 ft below land-surface datum.

REMARKS.--Earthquake monitor well. Water-quality samples collected Aug. 29, 1949 and Aug. 18, 1950.

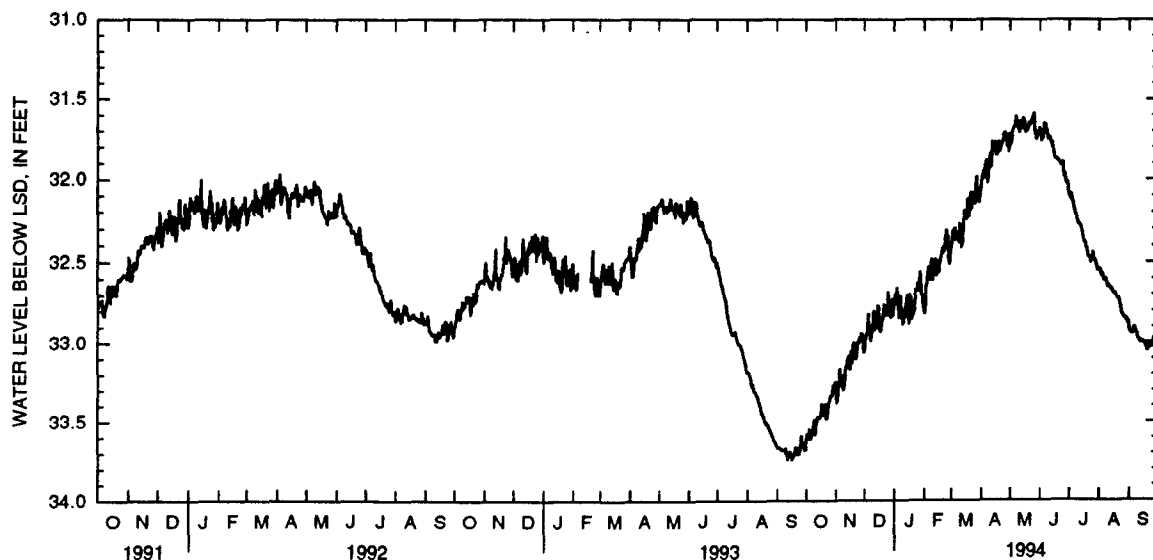
PERIOD OF RECORD.--October 1953 to current year. October 1953 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 28.80 ft below land-surface datum, June 2, 1984; lowest, 86.85 ft below land-surface datum, Sept. 20, 1955.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.58	33.38	33.02	32.71	32.80	32.40	32.01	31.79	31.70	32.10	32.54	32.93
2	33.61	33.36	32.95	32.74	32.68	32.31	31.97	31.76	31.76	32.11	32.55	32.94
3	33.61	33.28	32.94	32.69	32.65	32.37	31.97	31.71	31.75	32.09	32.58	32.94
4	33.55	33.21	32.83	32.73	32.58	32.29	31.95	31.69	31.73	32.13	32.57	32.94
5	33.61	33.17	32.93	32.84	32.53	32.37	31.90	31.68	31.69	32.16	32.59	32.91
6	33.59	33.20	32.91	32.71	32.56	32.34	31.89	31.66	31.66	32.18	32.61	32.90
7	33.57	33.29	32.99	32.78	32.61	32.35	32.02	31.61	31.67	32.20	32.60	32.93
8	33.53	33.30	32.95	32.85	32.48	32.38	31.97	31.68	31.71	32.22	32.62	32.94
9	33.49	33.27	32.86	32.88	32.59	32.27	31.90	31.64	31.73	32.26	32.63	32.96
10	33.58	33.21	32.80	32.86	32.57	32.35	31.87	31.70	31.74	32.27	32.65	32.98
11	33.51	33.16	32.92	32.84	32.49	32.41	31.91	31.69	31.76	32.27	32.65	32.99
12	33.48	33.15	32.91	32.77	32.48	32.39	31.77	31.67	31.78	32.28	32.65	33.00
13	33.48	33.10	32.84	32.72	32.58	32.25	31.79	31.69	31.77	32.30	32.67	32.99
14	33.48	33.09	32.77	32.77	32.56	32.23	31.79	31.64	31.81	32.32	32.66	33.00
15	33.47	33.16	32.80	32.85	32.52	32.20	31.77	31.62	31.84	32.36	32.69	33.00
16	33.43	33.14	32.92	32.84	32.56	32.24	31.85	31.69	31.87	32.38	32.69	33.00
17	33.40	33.05	32.93	32.71	32.50	32.20	31.85	31.71	31.87	32.38	32.69	33.00
18	33.46	33.10	32.85	32.82	32.47	32.12	31.80	31.70	31.87	32.41	32.71	33.03
19	33.43	33.00	32.86	32.84	32.44	32.21	31.77	31.70	31.88	32.43	32.72	33.05
20	33.40	33.06	32.79	32.80	32.41	32.13	31.83	31.67	31.89	32.46	32.72	33.04
21	33.48	33.10	32.81	32.80	32.44	32.08	31.80	31.67	31.90	32.47	32.74	33.03
22	33.48	33.10	32.79	32.72	32.38	32.16	31.78	31.66	31.91	32.47	32.76	33.02
23	33.43	33.03	32.83	32.67	32.31	32.08	31.77	31.64	31.91	32.50	32.80	33.01
24	33.38	32.99	32.79	32.67	32.41	32.09	31.73	31.62	31.89	32.49	32.82	33.03
25	33.35	33.00	32.69	32.63	32.34	32.15	31.72	31.60	31.98	32.44	32.83	33.00
26	33.33	32.96	32.76	32.68	32.50	32.05	31.72	31.63	31.96	32.48	32.84	32.97
27	33.34	32.96	32.84	32.60	32.51	32.05	31.78	31.75	32.01	32.48	32.85	33.01
28	33.28	32.96	32.84	32.61	32.42	32.06	31.78	31.75	32.02	32.50	32.84	33.00
29	33.29	33.00	32.73	32.72	---	32.13	31.83	31.72	32.02	32.52	32.87	33.04
30	33.25	33.06	32.83	32.78	---	32.13	31.72	31.72	32.08	32.55	32.88	33.04
31	33.25	---	32.78	32.81	---	32.07	---	31.71	---	32.55	32.89	---
MAX	33.61	33.38	33.02	32.88	32.80	32.41	32.02	31.79	32.08	32.55	32.89	33.05
MIN	33.25	32.96	32.69	32.60	32.31	32.05	31.72	31.60	31.66	32.09	32.54	32.90

WTR YR 1994 HIGH 31.60 LOW 33.61



GROUND-WATER LEVELS

JEFFERSON COUNTY

381501085464601. Local number CP 10, map number 47.

LOCATION.--Lat 38°15'01", long 85°46'46", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the center of the west side of Sheppard Park, 10 ft south of a concrete walkway, 17 ft east of south 17th Street, 150 ft north of the junction of Magazine and South 17th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 59.0 ft, screened 56.0-59.0 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.73 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--August 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 34.65 ft below land-surface datum, Oct. 31, 1984; lowest measured, 45.14 ft below land-surface datum, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	37.56	May 10, 1994	37.03

381503085453301. Local number 45-15-36, map number 48.

LOCATION.--Lat 38°15'03", long 85°45'33", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, in subbasement of Kentucky Towers Apartments, on east side of South Fifth Street, at Fifth and Walnut Streets, in Louisville. Owner: Kentucky Towers (formerly Kentucky Hotel).

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 10 in., depth 104 ft, screened 84-104 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 460.00 ft above sea level. Measuring point: Floor of recorder shelter 22.81 ft below land-surface datum.

PERIOD OF RECORD.--September 1948 to current year. November 1973 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.53 ft below land-surface datum, Apr. 24, 1984; lowest measured, 87.74 ft below land-surface datum, Sept. 23, 1955.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	38.90	May 10, 1994	36.69

381504085443202. Local number CP 7A, map number 49.

LOCATION.--Lat 38°15'04", long 85°44'32", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the southwest corner of east Louisville Park, 13.7 ft west of a tennis court fence, 16.5 ft east of curb on south Hancock Street, 58.2 ft north of curb on east Liberty Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 84.6 ft, screened 71.1-74.1 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 467.19 ft above sea level. Measuring point: Top of casing, at land-surface datum.

REMARKS.--Replaces destroyed well 381504085443201 (CP 7), which was 10 ft north.

PERIOD OF RECORD.--July 1980 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 43.42 ft below land-surface datum, Apr. 24, 1984; lowest measured, 47.02 ft below land-surface datum, Oct. 17, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	47.19	May 10, 1994	44.24

GROUND-WATER LEVELS

JEFFERSON COUNTY

381508085455701. Local number CP 4, map number 50.

LOCATION.--Lat 38°15'08", long 85°45'57", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southwest corner of Beecher Park, 15 ft west of the South 9th Street sidewalk, 20 ft north of the Walnut Street sidewalk, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 109.8 ft, screened 106.8-109.8 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 459.47 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 33.43 ft below land-surface datum, Apr. 24, 1984; lowest measured, 43.31 ft below land-surface datum, Aug. 4, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	38.23	May 10, 1994	36.45

381518085454401. Local number 86-10 (Mazzone), map number 51.

LOCATION.--Lat 38°15'18", long 85°45'44", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, southwest side of Congress Alley and 7th Street, 3 ft south of alley, west of entrance to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSE.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 98 ft, screened 41-43 ft, 61-63 ft, 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.13 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--October 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 32.73 ft below land-surface datum, Nov. 18, 1986; lowest, 37.14 ft below land-surface datum, Aug. 24, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	35.78	May 10, 1994	33.65

GROUND-WATER LEVELS

JEFFERSON COUNTY

381518085453402. Local number 86-11 (Courthouse Annex), map number 52.

LOCATION.--Lat 38°15'18", long 85°45'34", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at northwest corner behind Courthouse Annex building between 5th and 6th Streets, east of walkway to parking garage. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 102 ft, screened 42-44 ft, 61-63 ft, 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 461.63 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--November 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 40.24 ft below land-surface datum, Nov. 18, 1986; lowest, 46.82 ft below land-surface datum, July 27, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	44.28	May 10, 1994	41.90

381518085451801. Local number 87-1 (Levy's), map number 53.

LOCATION.--Lat 38°15'18", long 85°45'18", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at 3rd and Market Streets, in west corner of basement in old Levy's building, under east sidewalk on 3rd Street. Owner: Metts Co., Inc.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in., depth 99 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 464.72 ft above sea level. Measuring point: Top of casing, 11.5 ft below land-surface datum.

REMARKS.--Water levels affected by Ohio River stage and pumping from nearby wells.

PERIOD OF RECORD.--January 1987 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 43.46 ft below land-surface datum, Apr. 10, 1989; lowest, 49.26 ft below land-surface datum, July 27, 28, 1991.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	46.70	May 10, 1994	44.16

GROUND-WATER LEVELS

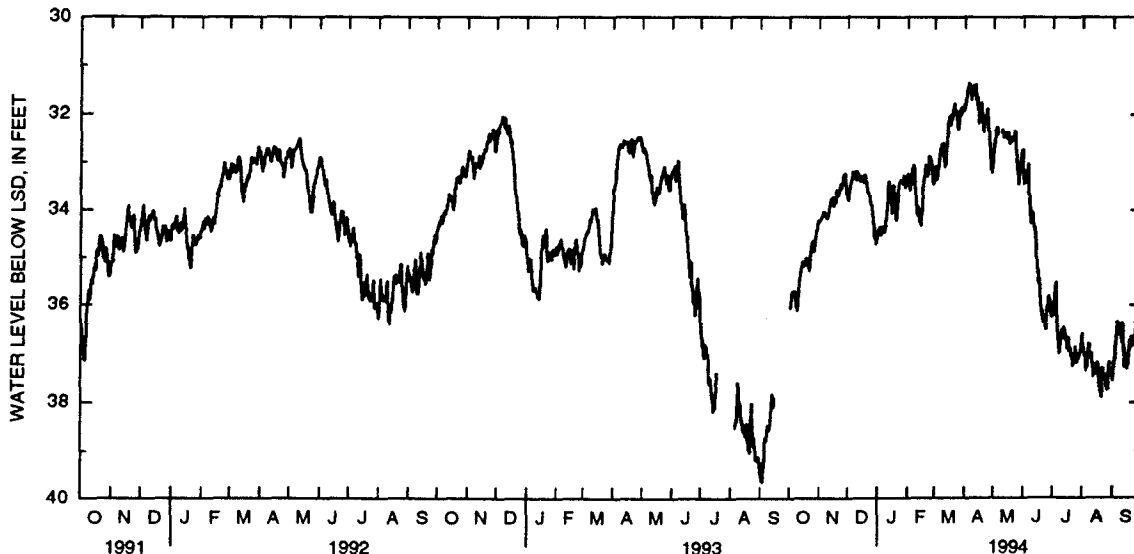
JEFFERSON COUNTY

381527085453001. Local number 86-7 (Belvedere Well), map number 54.
 LOCATION.--Lat 38°15'27", long 85°45'30", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at Place Montpelier and Main Street, 3 ft east of east sidewalk. Owner: City of Louisville.
 AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.
 WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 2.5 in., depth 89.9 ft, screened 85.1-87.1 ft.
 INSTRUMENTATION.--Continuous strip-chart recorder.
 DATUM.--Elevation of land-surface datum is 452.43 ft above sea level. Measuring point: Top of casing, 3.0 ft above land-surface datum.
 REMARKS.-- Water levels affected by Ohio River stage and pumping from nearby wells.
 PERIOD OF RECORD.--October 1986 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level, 30.99 ft below land-surface datum, Nov. 11 1986; lowest, 39.64 ft below land-surface datum, Sept. 2-3, 1993.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.02	34.25	33.79	34.44	33.41	33.19	31.84	32.72	33.43	36.23	36.81	37.55
2	36.06	34.22	33.67	34.40	33.50	33.12	31.66	32.49	33.37	36.12	36.96	37.27
3	35.82	34.17	33.53	34.46	33.61	33.37	31.49	32.45	33.35	35.79	37.00	37.15
4	35.77	34.13	33.43	34.55	33.47	33.14	31.47	32.28	33.38	35.59	37.15	36.78
5	35.72	34.05	33.32	34.47	33.17	32.97	31.41	32.55	33.13	36.07	37.29	36.50
6	35.73	34.04	33.27	34.37	33.15	32.70	31.56	32.45	33.62	36.57	37.05	36.35
7	35.91	34.11	33.33	34.35	33.11	32.70	31.70	32.40	33.99	36.84	36.93	36.39
8	36.04	34.17	33.34	34.44	33.46	32.60	31.55	32.30	34.28	36.99	37.00	36.47
9	36.11	34.17	33.38	34.21	33.86	32.67	31.59	32.40	34.14	36.76	37.08	36.60
10	35.81	34.11	33.21	33.92	34.11	32.97	31.49	32.34	34.04	36.71	37.01	36.78
11	35.49	33.94	33.25	33.69	33.93	33.10	31.52	32.44	34.36	36.62	37.29	36.38
12	35.30	33.83	33.35	33.40	34.15	33.03	31.68	32.41	34.43	36.54	37.47	37.00
13	35.18	33.77	33.40	33.49	34.25	32.51	31.79	32.47	34.52	36.59	37.42	37.27
14	35.09	33.74	33.41	33.85	34.32	32.40	31.90	32.38	34.96	36.72	37.42	37.22
15	35.09	33.93	33.33	34.07	34.10	32.15	32.19	32.38	35.33	36.75	37.39	37.27
16	35.08	33.87	33.38	33.68	33.70	32.18	32.02	32.49	35.53	36.90	37.24	37.32
17	35.04	33.85	33.43	33.49	33.43	32.23	31.82	32.62	35.46	36.81	37.30	37.23
18	35.03	33.76	33.27	33.87	33.29	32.14	32.13	32.58	35.82	36.96	37.59	36.86
19	35.16	33.59	33.39	34.16	33.06	32.04	32.21	32.48	36.07	36.97	37.85	36.91
20	35.12	33.70	33.47	34.14	33.13	31.86	32.37	32.52	36.21	37.06	37.89	36.67
21	35.27	33.67	33.62	33.82	33.31	31.93	32.27	32.50	36.33	37.11	37.43	36.80
22	35.05	33.61	33.65	33.67	33.10	31.95	32.14	32.39	36.35	37.26	37.48	36.85
23	34.91	33.51	33.78	33.43	32.94	32.01	32.01	32.67	36.45	37.12	37.50	36.78
24	34.72	33.56	33.88	33.38	33.03	32.27	31.90	32.83	36.50	37.00	37.55	36.58
25	34.66	33.41	33.91	33.40	32.97	32.31	32.36	33.18	36.15	37.06	37.62	36.35
26	34.83	33.28	34.13	33.45	33.32	32.10	32.59	33.31	36.13	37.20	37.74	36.20
27	34.72	33.25	34.31	33.46	33.46	31.91	32.91	33.30	35.80	37.14	37.65	36.17
28	34.53	33.37	34.57	33.36	33.41	32.00	33.15	33.08	35.98	37.12	37.27	35.94
29	34.44	33.57	34.53	33.53	---	31.94	33.22	32.90	36.15	37.04	37.46	35.97
30	34.28	33.75	34.71	33.44	---	31.88	33.02	32.78	36.23	36.94	37.33	35.97
31	34.22	---	34.59	33.31	---	31.93	---	33.14	---	36.70	37.37	---
MAX	36.11	34.25	34.71	34.55	34.32	33.37	33.22	33.31	36.50	37.26	37.89	37.55
MIN	34.22	33.25	33.21	33.31	32.94	31.86	31.41	32.28	33.13	35.59	36.81	35.94

WTR YR 1994 HIGH 31.41 LOW 37.89



GROUND-WATER LEVELS

JEFFERSON COUNTY

381539085465201. Local number CP 9, map number 55.

LOCATION.--Lat 38°15'39", long 85°46'52", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southeast corner of Boone Square Park, 20 ft north of Rowan Street, 150 ft west of South 19th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 42.7 ft, screened 39.7-42.7 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 456.99 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 31.38 ft below land-surface datum, Apr. 24, 1985; lowest measured, 40.51 ft below land-surface datum, July 12, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	34.25	May 10, 1994	33.67

381543085480101. Local number CP 14, map number 56.

LOCATION.--Lat 38°15'43", long 85°48'01", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the southwest corner of Westonia Park, South 30th Street at an unnamed alley south of Rowan Street, 5 ft north of curb on north side of alley, 8 ft east of a telephone pole at the curb on east side of South 30th Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 45 ft, screened 43-45 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 455.71 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--July 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 32.35 ft below land-surface datum, Aug. 25, 1980; lowest measured, 36.13 ft below land-surface datum, Dec. 13, 1978.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	34.60	May 10, 1994	34.38

381553085431602. Local number M-2, map number 57.

LOCATION.--Lat 38°15'53", long 85°43'16", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 15 ft west of the northwest corner of Metropolitan Sewer District, Beargrass Creek Pump Station Building, 100 ft west of end of Letterle Avenue, 150 ft south of I-71, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 446.77 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--December 1978 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 14.93 ft below land-surface datum, Dec. 15, 1978; lowest measured, 28.28 ft below land-surface datum, Nov. 20, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	27.72	May 10, 1994	24.43

JEFFERSON COUNTY

381604085430501. Local number 43-16-8, (WC-1), map number 58.

LOCATION.--Lat 38°16'04", long 85°43'05", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 100 ft northeast of junction of River Road and entrance road to Bandman Park, 0.2 mi east of Beargrass Creek, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 101 ft, screened 99-101 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 438.88 ft above sea level. Measuring point: Floor of recorder shelter, 4.83 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River. Water-quality samples collected Apr. 2, 1944 and July 10, 1979.

PERIOD OF RECORD.--May 1946 to current year. May 1946 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 0.09 ft below land-surface datum, Sept. 14, 1979; lowest measured, 27.90 ft below land-surface datum, Feb. 10, 1948.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	19.00	May 9, 1994	15.57

381607085483601. Local number CP 3, map number 59.

LOCATION.--Lat 38°16'07", long 85°48'36", Hydrologic Unit 05140101, County Code 111, New Albany quadrangle, at the northwest corner of Taylor Park, 150 ft east of North 38th Street, 200 ft north of Jewell Street, in Louisville. Owner: City of Louisville.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Augered observation water-table well, diameter 1.5 in., depth 55.7 ft, screened 52.7-55.7 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 445.33 ft above sea level. Measuring point: Top of casing, at land-surface datum.

PERIOD OF RECORD.--June 1977 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.97 ft below land-surface datum, May 6, 1991; lowest measured, 46.67 ft below land-surface datum, June 29, 1977.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	33.66	May 10, 1994	30.55

GROUND-WATER LEVELS

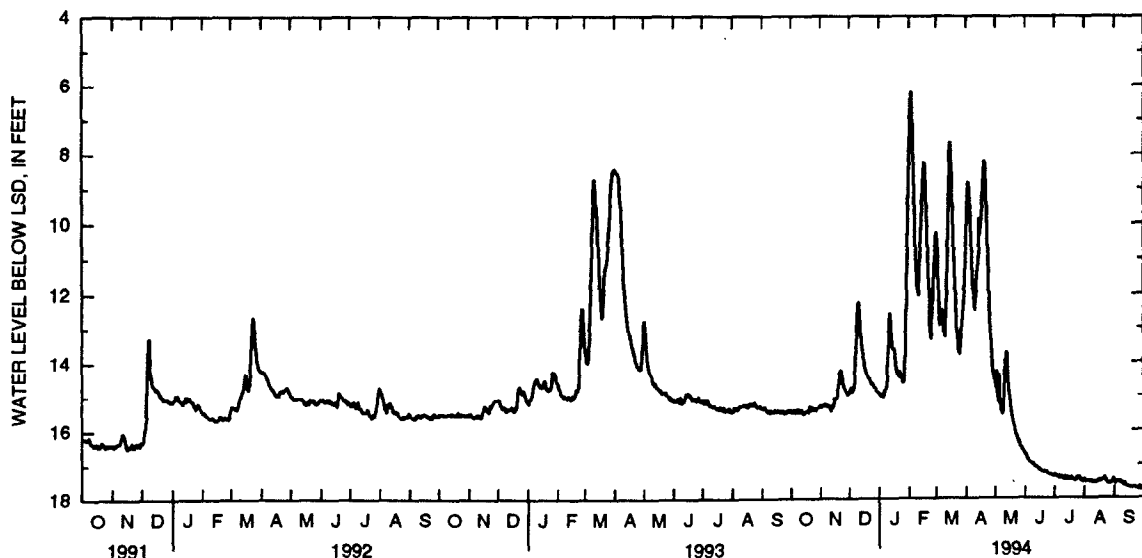
JEFFERSON COUNTY

381638085415801. Local number 41-16-3, (WC-4), map number 60.
 LOCATION.--Lat 38°16'38", long 85°41'58", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, at the northwest corner of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.
 AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.
 WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 4 in., depth 104 ft, screened 98-100 ft.
 INSTRUMENTATION.--Digital recorder -- 60-minute punch.
 DATUM.--Elevation of land-surface datum is 435.79 ft above sea level. Measuring point: Floor of recorder shelter, 4.41 ft above land-surface datum.
 REMARKS.--Water levels affected by Ohio River, which causes level to rise above land surface. Water-quality sample collected July 10, 1979.
 PERIOD OF RECORD.--April 1946 to current year.
 EXTREMES FOR PERIOD OF RECORD.--Highest water level observed, 3.71 ft above land-surface datum, Mar. 13, 1967; lowest, 19.61 ft below land-surface datum, Feb. 13, 1948.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994
 DAILY OBSERVATION AT 12:00 VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.48	15.33	14.82	14.95	7.02	10.40	9.72	14.72	16.74	17.31	17.52	17.52
2	15.43	15.29	14.76	15.02	6.30	11.00	9.03	14.28	16.77	17.34	17.51	17.54
3	15.45	15.29	14.88	14.97	6.57	12.09	8.84	15.04	16.85	17.36	17.50	17.52
4	15.42	15.26	14.80	15.03	7.30	12.87	9.25	15.21	16.90	17.34	17.50	17.50
5	15.50	15.24	14.73	14.99	8.66	12.76	9.99	15.03	16.95	17.39	17.50	17.52
6	15.44	15.28	14.37	14.88	9.96	12.50	10.74	15.32	16.94	17.43	17.48	17.53
7	15.42	15.28	13.65	14.80	10.99	12.56	11.55	15.45	16.99	17.43	17.52	17.50
8	15.47	15.28	13.01	14.70	11.46	12.94	11.97	15.53	16.99	17.38	17.50	17.58
9	15.43	15.30	12.47	14.09	11.94	13.22	12.32	15.34	17.02	17.43	17.52	17.55
10	15.47	15.36	12.26	13.27	12.03	13.10	12.05	14.51	17.06	17.43	17.54	17.61
11	15.43	15.44	12.53	12.73	11.14	12.27	11.70	13.99	17.08	17.46	17.53	17.60
12	15.46	15.37	13.22	12.67	10.44	11.20	11.34	13.70	17.08	17.38	17.54	17.62
13	15.51	15.29	13.56	13.37	9.84	9.75	11.07	13.94	17.12	17.46	17.52	17.64
14	15.53	15.34	13.73	13.60	9.09	8.45	9.88	14.73	17.16	17.40	17.51	17.65
15	15.49	15.14	13.94	13.60	8.45	7.68	10.22	14.96	17.14	17.45	17.52	17.65
16	15.47	15.09	14.11	13.60	8.25	8.09	9.94	15.16	17.19	17.43	17.46	17.68
17	15.46	15.07	14.26	13.97	8.64	9.41	9.40	15.43	17.20	17.41	17.51	17.65
18	15.44	14.84	14.32	14.21	9.55	10.37	8.74	15.62	17.23	17.41	17.46	17.68
19	15.48	14.63	14.43	14.33	10.45	11.07	8.28	15.80	17.23	17.44	17.47	17.69
20	15.40	14.36	14.47	14.33	11.25	11.79	8.36	15.91	17.23	17.47	17.45	17.66
21	15.40	14.28	14.52	14.44	11.81	12.53	9.09	16.06	17.23	17.48	17.44	17.66
22	15.34	14.28	14.59	14.29	13.07	13.18	9.97	16.15	17.25	17.48	17.43	17.67
23	15.34	14.53	14.65	14.45	13.30	13.57	10.88	16.23	17.27	17.44	17.51	17.71
24	15.37	14.72	14.66	14.60	12.59	13.56	11.97	16.29	17.29	17.40	17.54	17.72
25	15.41	14.77	14.69	14.53	11.93	13.57	12.74	16.40	17.30	17.39	17.57	17.72
26	15.36	14.85	14.73	14.49	11.42	13.19	13.33	16.41	17.31	17.40	17.56	17.66
27	15.43	14.89	14.76	13.89	10.79	12.98	13.81	16.49	17.33	17.43	17.57	17.74
28	15.36	14.85	14.85	12.70	10.29	12.63	14.16	16.54	17.34	17.49	17.55	17.71
29	15.34	14.94	14.89	11.13	---	12.19	14.49	16.59	17.35	17.49	17.50	17.69
30	15.34	14.89	14.89	9.53	---	11.56	14.53	16.63	17.31	17.52	17.46	17.68
31	15.28	---	14.96	8.13	---	10.64	---	16.68	---	17.46	17.51	---
MAX	15.53	15.44	14.96	15.03	13.30	13.57	14.53	16.69	17.35	17.52	17.57	17.74
MIN	15.28	14.28	12.26	8.13	6.30	7.68	8.28	13.70	16.74	17.31	17.43	17.50

WTR YR 1994 HIGH 6.30 LOW 17.74



GROUND-WATER LEVELS

JEFFERSON COUNTY

381648085421201. Local number 42-16-15, (WC-5), map number 61.

LOCATION.--Lat 38°16'48", long 85°42'12", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 200 ft west of Louisville Water Company pump house, 200 ft south of the Ohio River, 0.2 mi northwest of junction of River Road and Zorn Avenue, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in., depth 98 ft, screened 96-98 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 435.11 ft above sea level. Measuring point: Top of pipe flange, 2.21 ft above land-surface datum.

REMARKS.--Water levels affected by Ohio River, which causes level to rise above land surface. Water quality collected Apr. 30, 1948.

PERIOD OF RECORD.--May 1946 to current year. May 1946 to April 1977 published in hydrograph form and on file at the district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.04 ft above land-surface datum, Jan. 17, 1950; lowest measured, 18.31 ft below land-surface datum, Nov. 6, 1946.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	14.64	May 9, 1994	13.52

381653085413302. Local number (WC-9A), map number 62.

LOCATION.--Lat 38°16'53", long 85°41'33", Hydrologic Unit 05140101, County Code 111, Jeffersonville quadrangle, 45 ft east of River Road at Wagner Lane, opposite the southwest corner of Cox Park, in Louisville. Owner: Louisville Water Company.

AQUIFER.--Glacial sand and gravel of Quaternary age. Aquifer code: 112OTSH.

WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 1.5 in., depth 90 ft, screened 76-78 ft, 88-90 ft.

INSTRUMENTATION.--Bi-annual measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 437.65 ft above sea level. Measuring point: Top of casing, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--December 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 13.04 ft below land-surface datum, Apr. 21, 1987; lowest measured, 19.04 ft below land-surface datum, July 21, 1980.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water level	Date	Water level
Oct. 27, 1993	17.90	May 9, 1994	16.84

LARUE COUNTY

374151085413201. Map number 11.

LOCATION.--Lat 37°41'51", long 85°41'32", Hydrologic Unit 05110001, County Code 123, Nelsonville quadrangle, 150 ft west of blacktop road, 1.6 mi northeast of Roanoke, 2.8 mi south of the junction of State Highway 583 and the Blue Grass Parkway. Owner: Charles Wagner.

AQUIFER.--Warsaw Limestone of Late Mississippian age. Aquifer code: 333WRSW.

WELL CHARACTERISTICS.--Drilled unused artesian oil test well, diameter 10 in., depth 605 ft, plugged at 363 ft, cased to 65 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum is 905.34 ft above sea level. Measuring point: Top of casing 1.00 ft above land-surface datum.

REMARKS.--Quality water sample collected and pump test run Apr. 10, 1971. Pumped for 3 hours at 9 gal/min with 4.1 ft of drawdown.

PERIOD OF RECORD.--October 1971 to April 1983 and October 1988 to current year. October 1971 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 101.81 ft below land-surface datum, Apr. 14, 1980; lowest measured, 111.22 ft below land-surface datum, Nov. 12, 1992.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 5, 1993	110.73	Feb. 18	109.35	June 13	109.98
Nov. 23	111.15	Apr. 4	109.36	July 18	109.89
Jan. 10, 1994	110.42	May 4	110.49	Aug. 23	110.15

GROUND-WATER LEVELS

LAUREL COUNTY

370757084045001. Map number 12.

LOCATION.--Lat 37°07'57", long 84°04'50", Hydrologic Unit 05130101, County Code 125, London quadrangle, in back yard at 116 Boering Drive, 0.1 mi northeast of Marymount Hospital, in London. Owner: J.R. Hale.

AQUIFER.--Lee Formation of Early Pennsylvanian age. Aquifer Code: 327LEE.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well in sandstone, diameter 12 in., depth 370 ft, length of casing unknown, open hole below casing.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 1,190 ft above sea level. Measuring point: Floor of recorder shelter, 4.13 ft above land-surface datum.

REMARKS.--Lowest water level is a pumping level. Water-quality sample collected and pump test ran Oct. 14, 1965. Pumped 1.2 hours at 11 gal/min with 47.30 ft of drawdown.

PERIOD OF RECORD.--October 1947, May 1951 to September 1962, June 1965 to September 1984 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.69 ft below land-surface datum, May 9, 1990, lowest measured, 225.00 ft below land-surface datum, Oct. 25, 1947.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Nov. 19, 1993	41.73	Mar. 1	45.25	July 21	41.94
Jan. 10, 1994	41.59	Apr. 13	41.06		

LINCOLN COUNTY

372739084402101. Map number 13.

LOCATION.--Lat 37°27'39", long 84°40'21", Hydrologic Unit 05110001, County Code 137, Halls Gap quadrangle, in a pasture, 100 ft north of gravel road, 0.8 mi northeast of Green River Church, 2.1 mi southwest of Halls Gap. Owner: Sarah Peck.

AQUIFER.--Sandstone and shale of Borden Formation of Early Mississippian age. Aquifer code: 338BRDN.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 33 ft, cased to 10 ft, open hole 10 to 33 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is 1,060 ft above sea level. Measuring point: Floor of recorder shelter, 2.25 above land-surface datum.

REMARKS.--Water levels affected by atmospheric pressure.

PERIOD OF RECORD.--April 1953 to September 1984 and October 1988 to current year. Well test pump, Oct. 14, 1965. Estimated yield base on recovery, 0.1 gal/min.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.30 ft below land-surface datum, Nov. 6, 1981; lowest measured, 11.03 ft below land-surface datum, Oct. 6, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 6, 1993	11.03	Feb. 17	7.49	July 12	10.53
Dec. 1	9.65	Apr. 6	7.28	Aug. 18	10.68
Jan. 12, 1994	7.52	June 9	10.00		

LOGAN COUNTY

365046086444901. Map number 14.

LOCATION.--Lat 36°50'46", long 86°44'49", Hydrologic Unit 05130206, County Code 141, Auburn quadrangle, at the southeast corner of an abandoned farmhouse, 90 ft east of Kentucky Highway 980, 0.6 mi south of U.S. Highway 68, 2.4 mi southwest of Auburn. Owner: W.D. Appling.

AQUIFER.--Girkin Formation of Late Mississippian age. Aquifer code: 332GRKN.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 70 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is 685 ft. Measuring point: Top of casing 0.70 ft above land-surface datum.

REMARKS.--8 in. surface casing, lined with 6 in. casing.

PERIOD OF RECORD.--May to November 1982 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 26.10 ft below land-surface datum, Feb. 1, 1990; lowest measured, 49.64 ft below land-surface datum, Sept. 21, 1993.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 7, 1993	26.68	Mar. 16	26.39	June 22	40.16
Jan. 25, 1994	32.84	Apr. 26	28.93	Aug. 23	42.98

GROUND-WATER LEVELS

MCCRACKEN COUNTY

370551088510401. Map number 15.

LOCATION.--Lat 37°05'51", long 88°51'04", Hydrologic Unit 05140206, County Code 145, Heath quadrangle, 35 ft south of a gravel road in field of brush, at former Kentucky Ordnance Works, (now managed by Kentucky Department of Fish & Wildlife Resources), 3.4 mi northwest of Heath. Owner: State of Kentucky.

AQUIFER.--Sand of McNairy Formation of Late Cretaceous age. Aquifer code: 211MCNR.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 192 ft, cased to 192 ft.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 435 ft. Measuring point: Floor of recorder shelter, 4.76 ft above land-surface datum.

PERIOD OF RECORD.--October 1969 to September 1983 and October 1988 to current year. August 1969 to September 1976, published in hydrograph form and on file at Paducah subdistrict office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 105.64 ft below land-surface datum, June 27, 1994; lowest measured, 111.50 ft below land-surface datum, Jan. 25, 1972 and Nov. 9, 1988.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Dec. 10, 1993	107.54	Mar. 21	106.80	June 27	105.64
Feb. 14, 1994	107.35	May 26	105.88		

METCALFE COUNTY

370211085364301. Map number 16.

LOCATION.--Lat 37°02'11", long 85°36'43", Hydrologic Unit 05110001, County Code 169, East Fork quadrangle, at an old homesite 150 ft south of a blacktop road, 0.5 mi southwest of Metcalfe County Lake, 0.9 mi northwest of junction of U.S. Highway 68 and State Highway 544, 6 mi southeast of Sulphur well. Owner: Larry Froedge.

AQUIFER.--Salem and Warsaw Limestones of Late Mississippian age. Aquifer code: 333SMNR

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in., depth 106 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 885 ft. Measuring point: Top of casing, 0.58 ft above land-surface datum.

PERIOD OF RECORD.--October 1979 to April 1983 and October 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 72.67 ft below land-surface datum, Feb. 25, 1994; lowest measured, 77.88 ft below land-surface datum, Jan. 30, 1981.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 5, 1993	76.59	Feb. 25	72.67	June 16	74.55
Dec. 1	76.72	Apr. 8	72.98	July 21	75.03
Jan. 13, 1994	75.45	May 5	73.24	Aug. 25	75.32

WARREN COUNTY

370342086080101. Map number 17.

LOCATION.--Lat 37°03'42", long 86°08'01", Hydrologic Unit 05110002, County Code 227, Smiths grove quadrangle, in a pasture 50 ft southwest of a stone farm house, 200 ft south of State Highway 65, 0.6 mi southeast of Rocky Hill. Owner: Earl Estes.

AQUIFER.--St. Louis Limestone of Late Mississippian age. Aquifer code: 333STLS.

WELL CHARACTERISTICS.--Drilled unused artesian and water-table well, diameter 6 in., depth 95 ft, length of casing unknown.

INSTRUMENTATION.--Six-week interval measurement with chalked tape by USGS personnel.

DATUM.--Altitude of land-surface datum (from topographic map) is about 645 ft. Measuring point: Floor of recorder shelter, 2.10 ft above land-surface datum.

PERIOD OF RECORD.--November 1961 to January 1983 and October 1988 to current year. November 1961 to September 1976 published in hydrograph form and on file at district office.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 57.19 ft below land-surface datum, Mar. 15, 1975; lowest measured, 76.95 ft below land-surface datum, Dec. 31, 1962.

WATER LEVEL, IN FEET BELOW LAND SURFACE DATUM, WATER YEAR OCTOBER 1993 TO SEPTEMBER 1994

Date	Water Level	Date	Water Level	Date	Water Level
Oct. 15, 1993	71.26	Feb. 10	67.29	May 27	70.15
Dec. 2	71.17	Mar. 17	68.20	June 29	69.98
Jan. 7, 1994	70.16	Apr. 21	69.00	Aug. 3	70.65