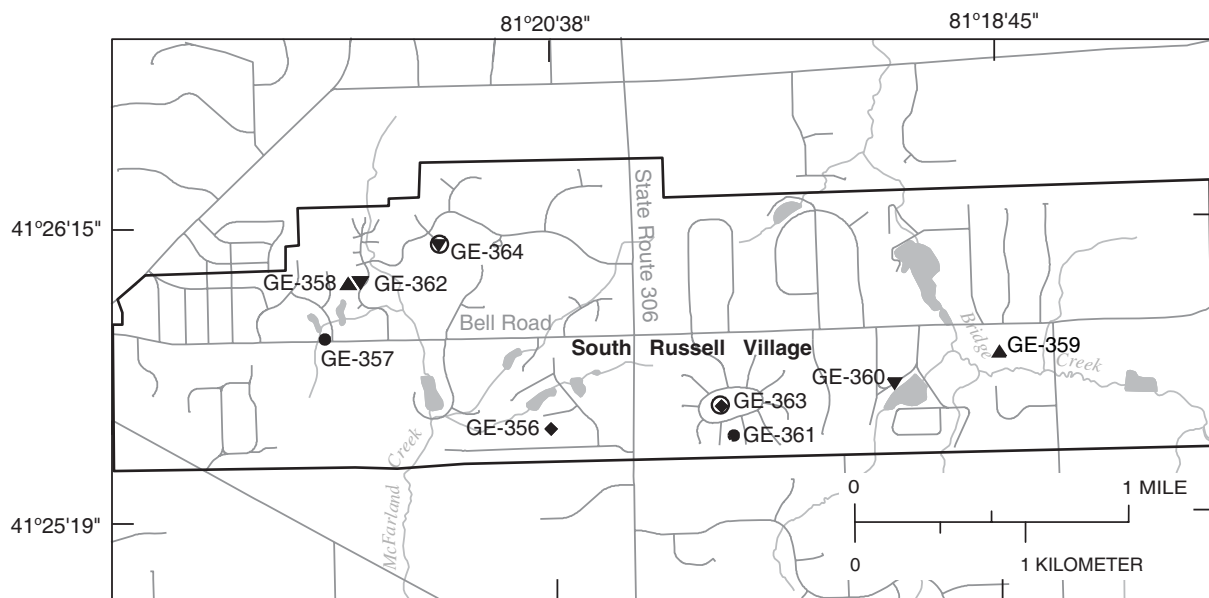
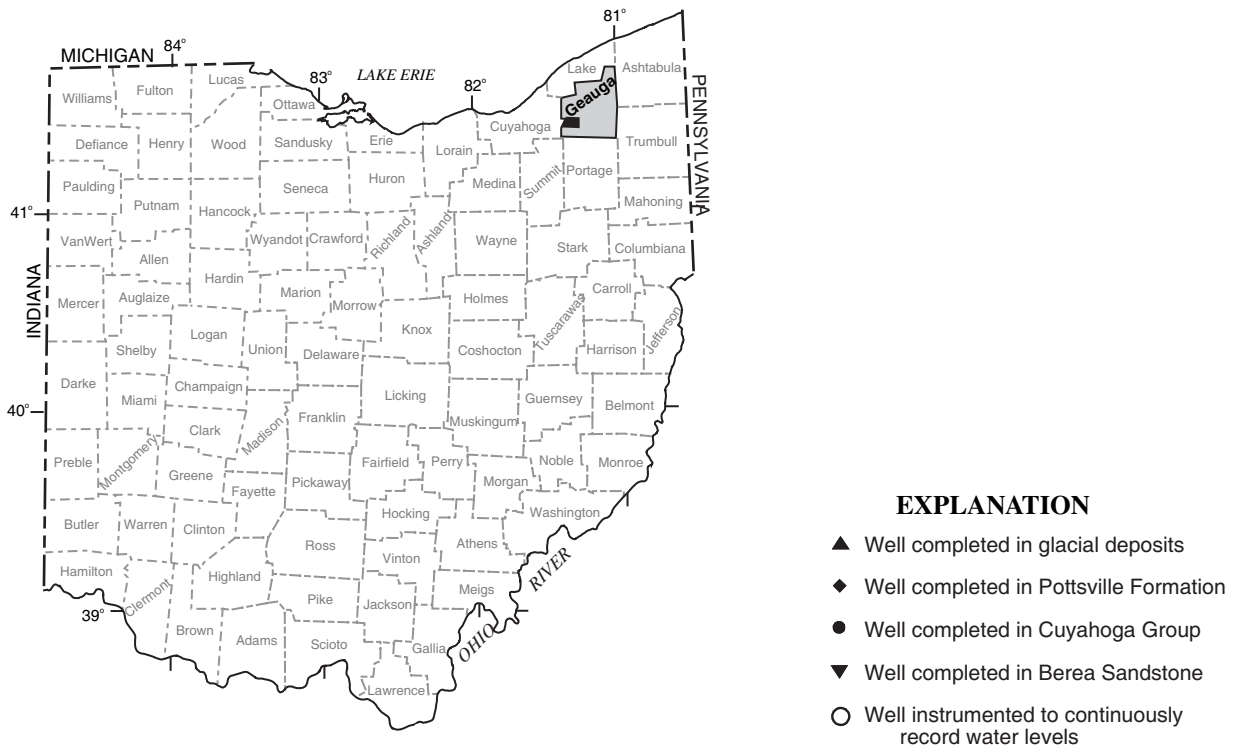


## Project Data—Ground-Water Data for South Russell Village, Ohio

Ground-water-level measurements from the nine wells that comprise the long-term ground-water monitoring network in South Russell Village are shown on the following pages. The purpose of the water-level study is to determine whether fluctuations in water levels represent consistent, long-term trends caused by human activity or are predominantly the result of seasonal and annual variations in recharge. Land-surface datums are accurate within  $\pm 5$  ft. Water levels known to have been measured after a well had been recently pumped are designated with an asterisk (\*).



## 412536081203800. Local Number, GE-356

LOCATION.—Latitude 41°25'36", longitude 81°20'38", Geauga County, 6006 Parkland Drive, South Russell Village. Owner: Privately owned.

AQUIFER.—Pottsville Formation (sandstone).

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 5.63 in.; depth 80 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,155 ft above sea level. Measuring point: top of casing, 1.30 ft above land-surface datum.

PERIOD OF RECORD.—May 2, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 10.27 ft below land-surface datum, Apr. 8, 2004 and Apr. 7, 2005; lowest measured, 13.25 ft below land-surface datum, Nov. 7, 2002.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	12.50
12-09-2004	11.30
02-03-2005	11.17
04-07-2005	10.27
06-09-2005	11.47
08-04-2005	12.02

## 412553081213500. Local Number, GE-357

LOCATION.—Latitude 41°25'53", longitude 81°21'35", Geauga County, 101 Spring Drive, South Russell Village. Owner: Privately owned.

AQUIFER.—Cuyahoga Formation (shale).

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 6 in.; depth 71 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,120 ft above sea level. Measuring point: top of casing, 1.40 ft above land-surface datum.

PERIOD OF RECORD.—May 3, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 10.39 ft below land-surface datum, June 9, 2004; lowest measured, 14.32 ft below land-surface datum, Nov. 14, 2001.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	11.20
12-09-2004	11.76
02-03-2005	11.41
04-07-2005	10.66
06-09-2005	10.90
08-04-2005	11.51

## 412604081212600. Local Number, GE-358

LOCATION.—Latitude 41°26'04", longitude 81°21'26", Geauga County, 127 Alderwood Drive, South Russell Village. Owner: Privately owned.

AQUIFER.—Berea Formation (sandstone).

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 6 in.; depth 258 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,105 ft above sea level. Measuring point: top of casing, 1.35 ft above land-surface datum.

PERIOD OF RECORD.—May 3, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 158.97 ft below land-surface datum, Apr. 8, 2004; lowest measured, 177.21\* ft below land-surface datum, July 31, 2002.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	163.85
12-09-2004	163.75
02-03-2005	163.40
04-07-2005	159.27
06-09-2005	169.39
08-04-2005	169.61

## 412548081184300. Local Number, GE-359

LOCATION.—Latitude 41°25'48", longitude 81°18'43", Geauga County, 1478 Bell Road, South Russell Village. Owner: Privately owned.

AQUIFER.—Sand and gravel.

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 5.63 in.; depth 90 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,153 ft above sea level. Measuring point: top of casing, 2.05 ft above land-surface datum.

PERIOD OF RECORD.—August 29, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 11.14 ft below land-surface datum, May 23, 2002; lowest measured, 12.87 ft below land-surface datum, Nov. 14, 2001.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	12.07
12-09-2004	11.94
02-03-2005	11.57
04-07-2005	11.30
06-09-2005	11.77
08-04-2005	11.74

## 412545081191000. Local Number, GE-360

LOCATION.—Latitude 41°25'45", longitude 81°19'10", Geauga County, 55 Garden Park, South Russell Village. Owner: Privately owned.

AQUIFER.—Berea Formation (sandstone).

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 6 in.; depth 290 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,162 ft above sea level. Measuring point: top of casing, 1.05 ft above land-surface datum.

PERIOD OF RECORD.—August 29, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 151.13 ft below land-surface datum, Apr. 7, 2005; lowest measured, 164.50\* ft below land-surface datum, Sept. 20, 2001.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	152.25
12-09-2004	152.82*
02-03-2005	153.18
04-07-2005	151.13
06-09-2005	154.49
08-04-2005	157.55

## 412533081195100. Local Number, GE-361

LOCATION.—Latitude 41°25'33", longitude 81°19'51", Geauga County, 60 Potomac Drive, South Russell Village. Owner: Privately owned.

AQUIFER.—Cuyahoga Formation (shale).

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 6 in.; depth 120 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,240 ft above sea level. Measuring point: top of casing, 2.10 ft above land-surface datum.

PERIOD OF RECORD.—August 29, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 65.16 ft below land-surface datum, June 9, 2005; lowest measured, 69.69 ft below land-surface datum, Jan. 9, 2003.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	65.39
12-09-2004	66.00
02-03-2005	65.75
04-07-2005	65.22
06-09-2005	65.16
08-04-2005	65.34

412604081212700. Local Number, GE-362

LOCATION.—Latitude 41°26'04", longitude 81°21'27", Geauga County, 125 Button Bush Circle, South Russell Village. Owner: Privately owned.

AQUIFER.—Sand and gravel.

WELL CHARACTERISTICS.—Domestic water-supply well; diameter 5.63 in.; depth 35 ft.

INSTRUMENTATION.—Periodic measurement with steel or electric tape by USGS personnel.

DATUM.—Elevation of land-surface datum is 1,106 ft above sea level. Measuring point: top of casing, 1.90 ft above land-surface datum.

PERIOD OF RECORD.—August 29, 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.—Highest water level measured, 6.69 ft below land-surface datum, Apr. 8, 2004; lowest measured, 9.51 ft below land-surface datum, Sept. 24, 2002.

WATER LEVEL,  
IN FEET BELOW LAND-SURFACE DATUM  
INSTANTANEOUS OBSERVATION  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water level
10-13-2004	8.81
12-09-2004	7.74
02-03-2005	7.44
04-07-2005	6.83
06-09-2005	9.00
08-04-2005	9.29

412541081194500. Local Number, GE-363

LOCATION.—Latitude 41°25'41", longitude 81°19'45", Geauga County, Kensington Green, South Russell Village. Owner: South Russell Village.

WELL CHARACTERISTICS.—Water-supply well, not currently in use; diameter 6.25 in.; depth 93.7 ft.

INSTRUMENTATION.—Pressure transducer data logger (records hourly).

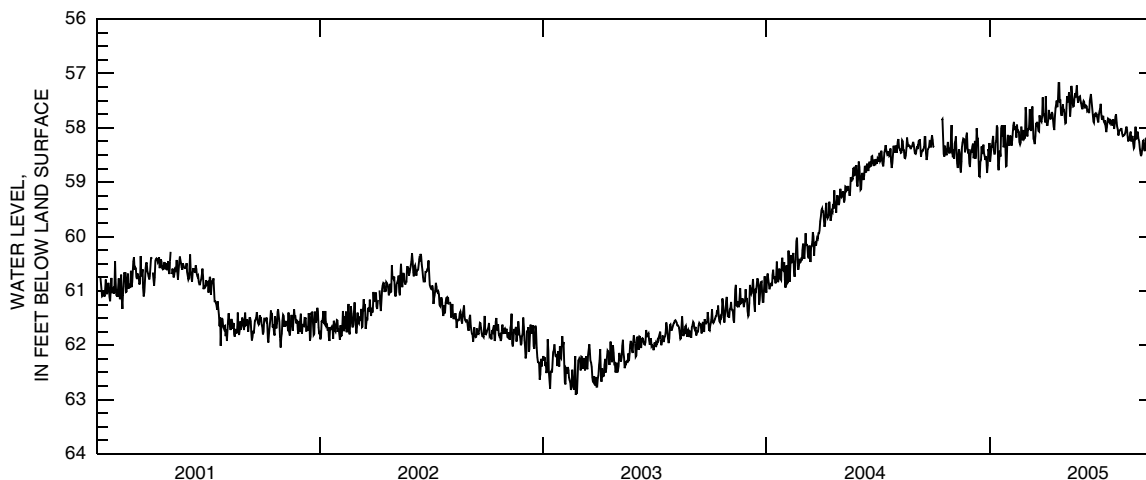
DATUM.—Elevation of land-surface datum is 1,232 ft above sea level. Measuring point: top of casing.

PERIOD OF RECORD.—Continuous water-level data from January 6, 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 62.91 ft below land-surface datum, Feb. 23, 2003; minimum daily low, 57.18 ft below land-surface datum, Apr. 23 and 24, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58.36	58.54	58.42	58.62	58.33	57.73	57.90	57.67	57.66	57.56	58.05	58.22
2	---	58.40	58.43	58.50	58.30	58.08	57.42	57.67	57.55	57.76	58.04	58.26
3	---	58.57	58.34	58.35	58.14	58.16	57.73	57.80	57.51	57.85	58.02	58.39
4	---	58.28	58.29	58.35	58.25	58.01	57.95	57.92	57.53	57.81	58.02	58.47
5	---	58.26	58.56	58.24	58.33	58.04	57.95	57.91	57.64	57.78	58.10	58.52
6	---	58.16	58.46	58.15	58.23	57.96	57.86	57.64	57.59	57.88	58.15	58.48
7	---	58.46	58.24	58.41	58.12	57.66	57.67	57.42	57.59	57.91	58.14	58.38
8	---	58.66	58.57	58.49	57.96	57.99	57.77	57.53	57.61	57.86	58.14	58.24
9	---	58.74	58.48	58.46	57.89	58.06	57.84	57.49	57.70	57.98	58.13	58.23
10	---	58.54	58.01	58.27	58.02	57.90	57.80	57.35	57.69	58.08	58.10	58.40
11	---	58.39	58.19	58.24	58.01	57.61	57.84	57.60	57.68	57.99	58.04	58.43
12	---	58.50	58.20	57.96	57.97	57.87	57.71	57.79	57.73	57.89	57.98	58.36
13	---	58.73	58.59	58.00	58.18	58.21	57.75	57.63	57.51	57.83	58.04	58.23
14	57.86	58.82	58.89	58.69	57.94	58.24	57.84	57.23	57.45	57.84	58.14	58.18
15	57.84	58.62	58.90	58.78	58.09	58.30	57.98	57.39	57.38	57.90	58.25	58.36
16	58.13	58.35	58.62	58.57	58.06	58.15	58.04	57.54	57.52	57.92	58.17	58.27
17	58.49	58.27	58.59	58.42	58.08	57.91	57.79	57.61	57.64	57.86	58.24	58.25
18	58.53	58.20	58.34	58.53	58.27	57.97	57.64	57.60	57.77	57.87	58.10	58.40
19	58.33	58.21	58.46	58.02	58.31	57.89	57.56	57.46	57.89	57.89	58.07	58.46
20	58.41	58.24	58.44	57.96	58.27	57.96	57.50	57.36	57.91	57.96	58.25	58.39
21	58.49	58.45	58.31	58.16	57.98	58.06	57.62	57.44	57.76	57.84	58.18	58.43
22	58.49	58.37	58.47	57.95	58.11	58.07	57.49	57.31	57.74	57.89	58.15	58.25
23	58.34	58.16	58.52	58.36	58.23	57.77	57.18	57.22	57.77	58.02	58.28	58.43
24	58.26	58.09	58.59	58.30	58.12	57.87	57.18	57.45	57.75	57.93	58.37	58.42
25	58.40	58.38	58.52	57.95	58.04	57.87	57.51	57.54	57.79	57.80	58.35	58.28
26	58.47	58.47	58.60	58.33	58.20	57.89	57.50	57.45	57.85	57.75	58.16	58.20
27	58.41	58.39	58.83	58.71	58.18	57.80	57.73	57.43	57.90	57.90	57.98	58.44
28	58.43	58.65	58.69	58.70	57.62	57.44	57.78	57.42	57.76	57.98	58.20	58.32
29	58.20	58.72	58.39	58.31	---	57.76	57.70	57.50	57.69	58.03	58.19	58.36
30	57.95	58.49	58.43	58.13	---	57.76	57.57	57.55	57.64	58.14	58.07	58.49
31	58.42	---	58.28	58.24	---	57.80	---	57.63	---	58.07	58.12	---
MAX	58.53	58.82	58.90	58.78	58.33	58.30	58.04	57.92	57.91	58.14	58.37	58.52
MIN	57.84	58.09	58.01	57.95	57.62	57.44	57.18	57.22	57.38	57.56	57.98	58.18



412611081210600. Local Number, GE-364

LOCATION.—Latitude 41°26'11", longitude 81°21'06", Geauga County, cul-de-sac at the end of Fawn Court, South Russell Village. Owner: South Russell Village.

AQUIFER.—Berea Formation (sandstone).

WELL CHARACTERISTICS.—Monitoring well; diameter 5.63 in.; depth 241.2 ft.

INSTRUMENTATION.—Pressure transducer data logger (records hourly).

DATUM.—Elevation of land-surface datum is 1,130 ft above sea level. Measuring point: top of casing, 1.27 ft above land-surface datum.

PERIOD OF RECORD.—Continuous water-level data from May 2, 2001 to current year.

EXTREMES FOR PERIOD OF RECORD.—Maximum daily low, 198.46 ft below land-surface datum, Aug. 15, 2001; minimum daily low, 178.91 ft below land-surface datum, Apr. 2, 2005.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	186.27	186.06	186.71	188.80	188.16	186.68	179.92	182.16	187.30	189.32	191.08	191.02
2	185.85	185.98	186.52	190.04	187.70	186.34	178.91	182.70	188.19	189.06	191.13	191.01
3	185.83	186.30	187.06	190.02	186.81	186.54	179.83	181.93	188.15	189.86	191.52	190.15
4	186.08	185.04	186.91	189.78	186.48	186.63	180.17	181.65	188.93	190.18	191.32	189.46
5	186.82	185.65	187.14	189.38	186.74	186.31	180.81	181.68	189.14	190.25	192.64	190.72
6	187.48	185.28	187.16	189.20	186.49	185.65	181.19	181.75	190.04	190.46	193.38	190.72
7	186.27	185.46	186.76	188.89	186.84	185.34	181.45	181.94	189.79	190.96	193.58	191.11
8	185.26	185.91	186.76	188.72	186.28	185.30	181.86	182.90	190.13	192.06	193.62	192.14
9	184.97	186.54	186.46	189.30	186.55	186.22	182.84	183.41	191.80	191.42	193.96	192.14
10	184.44	185.89	186.06	189.34	186.08	185.53	183.20	183.16	192.06	193.47	193.71	190.69
11	185.36	185.76	186.77	189.56	186.71	185.17	183.13	182.91	192.05	193.68	192.26	190.96
12	185.54	185.63	186.70	189.13	186.73	185.66	182.35	182.87	189.39	194.00	191.43	190.91
13	185.91	186.03	186.47	188.05	187.34	186.60	182.14	183.16	189.39	194.08	191.31	190.85
14	186.20	186.32	187.06	188.03	187.03	187.34	181.78	183.15	189.87	194.70	191.17	190.88
15	185.86	186.52	187.95	188.29	186.40	186.54	182.17	182.70	189.87	194.31	191.68	190.68
16	186.58	187.02	187.35	189.12	186.18	185.88	182.38	182.77	188.74	194.06	192.51	189.71
17	186.92	186.87	187.63	189.82	185.28	185.75	182.67	182.50	187.66	192.04	193.84	188.64
18	187.04	185.81	188.86	189.84	186.02	185.43	182.85	182.90	187.77	192.13	193.88	188.45
19	186.88	186.00	189.68	188.94	186.80	186.98	182.94	182.92	188.32	191.84	193.94	189.12
20	186.64	186.15	189.61	188.27	186.62	186.96	182.32	182.66	189.19	191.80	193.86	189.41
21	186.66	186.89	189.31	188.13	186.44	186.51	182.17	182.59	189.40	191.65	192.78	189.21
22	186.36	187.12	189.22	187.91	186.27	186.25	182.04	183.85	189.49	191.65	193.25	188.61
23	186.18	187.31	189.15	189.24	185.89	185.85	181.49	183.77	189.49	191.96	193.36	188.61
24	186.00	187.22	189.82	189.22	185.75	185.10	181.59	183.65	189.12	191.99	194.30	188.87
25	186.28	188.12	190.00	188.57	185.77	184.91	182.59	184.33	189.25	191.70	194.38	189.68
26	186.20	188.48	190.19	187.90	186.67	183.72	182.92	184.31	190.37	191.71	193.61	189.68
27	186.01	188.50	190.88	187.82	186.41	183.27	181.60	186.03	190.44	191.17	192.96	188.74
28	185.84	188.02	190.88	188.02	186.08	182.87	181.60	186.14	191.13	190.84	192.91	189.14
29	186.12	188.33	189.80	187.56	---	181.62	181.46	186.42	190.42	190.79	192.88	188.38
30	185.32	187.77	188.90	188.49	---	181.61	181.38	187.31	189.95	190.49	192.88	187.78
31	186.03	---	188.87	188.64	---	180.40	---	187.36	---	190.18	191.32	---
MAX	187.48	188.50	190.88	190.04	188.16	187.34	183.20	187.36	192.06	194.70	194.38	192.14
MIN	184.44	185.04	186.06	187.56	185.28	180.40	178.91	181.65	187.30	189.06	191.08	187.78



## Project Data—Water-Quality Data for the Elk Creek Watershed, Southwestern Ohio

The following tables contain ground-water-quality data and stream-quality and discharge data from the Elk Creek watershed in southwestern Ohio. The data were collected in cooperation with the Miami Conservancy District to assess the water chemistry and identify possible sources of elevated nitrate in ground water. Ground-water samples were collected from domestic wells. Stream-water samples were collected and measurements were made at intervals from the source to the mouth of Elk Creek.





## GROUND-WATER-QUALITY DATA, SEPTEMBER–OCTOBER 2004

[(72008), USGS National Water Information System parameter code; LSD, land-surface datum; NTU, Nephelometric Turbidity Units; mm, millimeter; mg/L, milligrams per liter;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; E, estimated --, no data]

Local number	Well identifier	Date	Depth of well, feet below LSD (72008)	Depth to water level, feet below LSD (72019)	Altitude of land surface feet (72000)	Turbidity, water, unfltrd, field, NTU (61028)	Barometric pressure, mm Hg (00025)
BU-1187	393402084282000	09/17/2004	34.64	24.97	830	.6	733
BU-1188	393406084270600	09/17/2004	42	12	925	3	731
BU-1189	393321084270200	09/20/2004	90	62.02	890	.8	738
BU-1190	393347084281000	09/22/2004	28.58	18.42	812	.7	741
BU-1191	393346084281600	09/23/2004	84	1.22	805	7.7	743
BU-1192	393354084275500	09/27/2004	57.3	27.14	870	3.1	737
BU-1193	393412084271300	09/27/2004	53	23.7	910	4.7	733
BU-1194	393405084271300	09/28/2004	42	12	875	24	734
BU-1195	393357084281000	09/28/2004	60	15	825	4.0	732
BU-1196	393216084265100	10/19/2004	50	22	780	2.0	737
BU-1197	393226084264600	10/19/2004	50.96	28.33	815	4.8	736
BU-1198	393315084270900	10/22/2004	63.27	44.99	880	23	742
PR-230	393604084334000	09/20/2004	105	50	1095	1.1	737
PR-231	393545084342000	09/21/2004	43.55	27.98	1075	4.9	734
PR-232	393424084295900	10/07/2004	55	35.38	840	1.7	745
PR-233	393550084305500	10/08/2004	59.54	32.73	985	2.1	739
PR-234	393418084344600	10/12/2004	10.33	7.57	973	.2	730
PR-235	393422084294900	10/12/2004	73	34.59	830	.2	730
PR-236	393510084325700	10/21/2004	56.59	26.88	1020	.8	736
PR-237	393418084344200	10/21/2004	42.49	2.76	973	2	736

Local number	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd, field, std units (00400)	pH, water, unfltrd, lab, std units (00403)	Specif. conductance, water, unfltrd, lab, $\mu\text{S}/\text{cm}$ 25 deg C (90095)	Specif. conductance, water, unfltrd, lab, $\mu\text{S}/\text{cm}$ 25 deg C (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Calcium water, ffltrd, mg/L (00915)
BU-1187	5.1	7.2	--	--	747	19.5	13.1	--
BU-1188	.1	7.4	--	--	812	19.5	15.2	--
BU-1189	.2	6.9	--	--	788	26.0	17.6	--
BU-1190	.1	7.0	--	--	674	28.5	14.7	--
BU-1191	.2	7.5	--	--	703	29.5	21.0	--
BU-1192	.1	7.1	--	--	809	23.5	14.7	--
BU-1193	.2	7.5	7.4	723	749	25.5	14.4	59.1
BU-1194	3.7	7.5	--	--	780	26.5	15.2	--
BU-1195	.2	7.2	E7.0	810	851	27.0	18.3	83.0
BU-1196	.1	7.2	--	--	789	11.0	14.1	--
BU-1197	.2	7.1	--	--	784	13.0	13.7	--
BU-1198	.2	7.0	--	--	766	13.0	14.5	--
PR-230	.2	7.3	--	--	697	25.0	15.5	--
PR-231	.6	7.3	--	--	729	27.5	16.0	--
PR-232	.1	7.1	--	--	831	22.5	17.3	--
PR-233	.1	7.1	--	--	761	22.5	15.0	--
PR-234	.4	7.1	--	--	1390	18.0	17.9	--
PR-235	.1	7.3	--	--	648	17.5	15.6	--
PR-236	.1	7.1	--	--	720	16.0	14.1	--
PR-237	.1	7.3	--	--	671	16.0	13.3	--

## GROUND-WATER-QUALITY DATA, SEPTEMBER–OCTOBER 2004—Continued

[(00925), USGS National Water Information System parameter code; mg/L, milligrams per liter; E, estimated; --, no data]

Local number	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, water, flt, inc titr., field, mg/L as CaCO <sub>3</sub> (39086)	Bicarbonate, water, flt, incrm. titr., field, mg/L (00453)	Carbonate, water, flt, incrm. titr., field, mg/L (00452)	Bromide, water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)
BU-1187	--	--	--	338	410	.0	--	--
BU-1188	--	--	--	449	546	1	--	--
BU-1189	--	--	--	366	446	.0	--	--
BU-1190	--	--	--	305	372	.0	--	--
BU-1191	--	--	--	388	471	1	--	--
BU-1192	--	--	--	363	442	.0	--	--
BU-1193	40.7	1.93	25.9	385	468	1	.03	2.77
BU-1194	--	--	--	395	479	1	--	--
BU-1195	41.3	4.78	33.3	413	502	.0	.29	34.7
BU-1196	--	--	--	413	502	.0	--	--
BU-1197	--	--	--	398	485	.0	--	--
BU-1198	--	--	--	370	450	.0	--	--
PR-230	--	--	--	370	450	.0	--	--
PR-231	--	--	--	392	477	.0	--	--
PR-232	--	--	--	310	378	.0	--	--
PR-233	--	--	--	368	448	.0	--	--
PR-234	--	--	--	281	342	.0	--	--
PR-235	--	--	--	267	324	.0	--	--
PR-236	--	--	--	348	423	.0	--	--
PR-237	--	--	--	328	398	.0	--	--

Local number	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Residue on evap. at 180 deg C, water, flt, mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)
BU-1187	--	--	--	--	<.10	<.04	2.33	<.008
BU-1188	--	--	--	--	.76	.71	<.06	<.008
BU-1189	--	--	--	--	<.10	<.04	.21	<.008
BU-1190	--	--	--	--	E.06	E.03	<.06	<.008
BU-1191	--	--	--	--	1.8	1.67	<.06	<.008
BU-1192	--	--	--	--	E.06	.05	<.06	<.008
BU-1193	2.4	17.4	40.5	481	1.1	1.03	<.06	<.008
BU-1194	--	--	--	--	1.1	1.09	<.06	E.007
BU-1195	1.1	16.8	10.4	455	.94	.92	<.06	<.008
BU-1196	--	--	--	--	1.2	1.00	<.06	<.008
BU-1197	--	--	--	--	.56	.46	<.06	<.008
BU-1198	--	--	--	--	.19	.13	<.06	<.008
PR-230	--	--	--	--	.66	.62	.19	E.005
PR-231	--	--	--	--	.61	.56	<.06	<.008
PR-232	--	--	--	--	E.06	.05	<.06	E.007
PR-233	--	--	--	--	.30	.27	<.06	<.008
PR-234	--	--	--	--	<.10	<.04	1.14	E.007
PR-235	--	--	--	--	.21	.22	<.06	<.008
PR-236	--	--	--	--	.15	.09	<.06	<.008
PR-237	--	--	--	--	.87	.73	<.06	<.008

GROUND-WATER-QUALITY DATA, SEPTEMBER–OCTOBER 2004—Continued

[(00671), USGS National Water Information System parameter code; milligrams per liter; col/100 mL, colonies per 100 milliliters; µg/L, micrograms per liter; --, no data; E, estimated]

Local number	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Organic carbon, water, fltrd, mg/L (00681)	E coli, MI MF, water, col/100 mL (90901)	Total coli-form, MI MF, water, col/100 mL (90900)	Iron, water, fltrd, µg/L (01046)	Manganese, water, fltrd, µg/L (01056)	N-15 / N-14 in nitrate water, fltrd, per mil (82690)	O-18/ O-16 ratio in nitrate water, fltrd, per mil (63041)
BU-1187	<.02	<.04	.9	<1	E2	--	--	8.85	6.92
BU-1188	<.02	<.04	1.1	<1	E2	--	--	--	--
BU-1189	<.02	<.04	.9	<1	<1	--	--	9.62	8.46
BU-1190	<.02	<.04	.5	<1	<1	--	--	--	--
BU-1191	.02	E.03	1.2	<1	<1	--	--	--	--
BU-1192	<.02	<.04	.6	<1	79	--	--	--	--
BU-1193	<.02	<.04	1.0	<1	<1	1610	8.5	--	--
BU-1194	<.02	<.04	.9	<1	<1	--	--	--	--
BU-1195	E.02	E.03	.8	<1	<1	1970	17.3	--	--
BU-1196	E.01	<.04	1.4	<1	<1	--	--	--	--
BU-1197	<.02	<.04	.8	E2	>80	--	--	--	--
BU-1198	E.01	<.04	.7	<1	<1	--	--	--	--
PR-230	<.02	<.04	.9	<1	<1	--	--	-22.36	-2.50
PR-231	<.02	<.04	1.2	<1	<1	--	--	--	--
PR-232	<.02	<.04	.9	<1	40	--	--	--	--
PR-233	<.02	<.04	.7	<1	E15	--	--	--	--
PR-234	<.02	<.04	.6	<1	E4	--	--	32.29	17.72
PR-235	<.02	<.04	.7	<1	E4	--	--	--	--
PR-236	<.02	<.04	.8	<1	<1	--	--	--	--
PR-237	E.01	<.04	1.0	<1	<1	--	--	--	--

STREAM-WATER-QUALITY AND DISCHARGE DATA, AUGUST 2004

[(72000), USGS National Water Information System parameter code; cfs, cubic feet per second; mm, millimeter; mg/L, milligrams per liter]

Elk Creek measurement and sampling site	Site identifier	Date	Altitude of land surface, feet (72000)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd, field, std units (00400)
Above Mouth	392921084262600	8/16/2004	618	0.72	748	7.7	8.2
Below Dry Run	393137084280400	8/16/2004	705	1.74	748	11.4	8.1
At Middletown-Eaton Rd.	393215084274400	8/16/2004	729	1.51	748	11.6	8.4
At Mill Rd.	393341084315200	8/16/2004	892	0.34	748	7.8	8.6
At Upper Middletown-Eaton Rd.	393414084293900	8/16/2004	790	0.72	748	9.3	8.3
At Wellfield	392926084264200	8/16/2004	625	1.95	748	10.9	8.5

## STREAM-WATER-QUALITY AND DISCHARGE DATA, AUGUST 2004—Continued

[(72008), USGS National Water Information System parameter code; LSD, land surface datum; mm, millimeter; mg/L, milligrams per liter; --, no data; E, estimated]

Elk Creek measurement and sampling site	Specif. conduc- tance, water, unf, µS/cm 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Alka- linity, water, flt, inc titr., field, mg/L as CaCO <sub>3</sub> (39086)	Bicar- bonate, water, flt, incrm. titr., field, mg/L (00453)	Carbon- ate, water, flt, incrm. titr., field, mg/L (00452)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
Above Mouth	582	26	17.5	230	277	1	0.14
Below Dry Run	642	23.8	19.1	258	312	1	0.16
At Middletown-Eaton Rd.	610	27	22.7	246	295	2	0.15
At Mill Rd.	581	26	24.3	195	233	2	0.35
At Upper Middletown-Eaton Rd.	623	27	19.6	247	297	2	0.19
At Wellfield	568	24	21.6	227	274	2	0.15

Elk Creek measurement and sampling site	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Phos- phorus, water, fltrd, mg/L (00666)	Organic carbon, water, fltrd, mg/L (00681)	N-15 / N-14 in nitrate water, fltrd, per mil (82690)	O-18 / O-16 in nitrate water, fltrd, per mil (63041)
Above Mouth	<.04	0.35	<.008	<.02	<.04	1.7	12.77	12.77
Below Dry Run	<.04	0.74	E.004	<.02	<.04	1.7	12.11	12.11
At Middletown-Eaton Rd.	<.04	0.79	<.008	<.02	<.04	1.8	11.98	11.98
At Mill Rd.	E.02	2.45	E.005	0.02	E.04	3.1	11.08	11.08
At Upper Middletown-Eaton Rd.	<.04	0.44	<.008	<.02	<.04	2	13.78	13.78
At Wellfield	<.04	0.34	<.008	<.02	<.04	1.6	13.23	13.23

## Project Data—Low-Flow Magnitude and Frequency of Ohio Streams

The low-flow network is part of a cooperative study with the Ohio Department of Natural Resources to define the low-flow characteristics of 180 sites that have essentially unregulated streamflow and drainage areas less than 150 square miles. The following table lists the sites of the low-flow partial record network including discharge measurements made in the 2005 water year. The second table lists the discontinued streamflow-gaging stations for which a discharge measurement was performed in 2005 that were used for index stations for this project. The discontinued stations are not shown.



## Low-Flow Partial-Record Stations

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Beaver River Basin</b>				
03092754 EAGLE CREEK AT MAHONING, OHIO				
Latitude 41°16'19", longitude 81°03'00", Portage County, Hydrologic Unit 05030103, at Silica Sand Road bridge, just east of Parkman Road, 1.1 mi upstream from Mahoning Creek, 0.7 mi north of Mahoning, 2.7 mi east, southeast of Garrettsville, Ohio. (Garrettsville 1:24000 quad)	38.4	2002-03 2005	06/21/05	11.6
03098390 MILL CREEK NEAR YOUNGSTOWN, OHIO				
Latitude 41°02'00", longitude 80°41'37", Mahoning County, Hydrologic Unit 05030103, at pedestrian bridge over Mill Creek at end of extra parking lot next to Mill Creek Park Golf Course, 0.8 mi northeast of park entrance at State Route 224, 0.8 mi downstream of Indian Run, 3.1 mi upstream of Newport Lake Dam, 3 mi southwest of South Side Youngstown, Ohio. (Youngstown 1:24000 quad)	51.5	1995-99 2001-03 2005	06/21/05	12.2
<b>Cross Creek Basin</b>				
03110950 CROSS CREEK AT BROADACRE, OHIO				
Latitude 40°21'56", longitude 80°47'05", Jefferson County, Hydrologic Unit 05030101, at State Route 152 bridge, 0.3 mi upstream of Clay Lick Creek, 1.4 mi downstream of Salem Creek, at Broadacre, Ohio. (Smithfield 1:24000 quad)	53.5	1981-82 1986 2002 2005	06/23/05	10.4
<b>Sunfish Creek Basin</b>				
03114241 SUNFISH CREEK AT COATS, OHIO				
Latitude 39°46'14", longitude 81°02'34", Monroe County, Hydrologic Unit 05030201, at riffle beside Sunfish Creek Road, 800 ft downstream from confluence of unnamed tributary, 0.7 mi downstream from confluence of Standingstone Run, 1.0 mi southeast of Coats, 4.0 mi east of Woodsfield, Ohio. (Woodsfield 1:24000 quad)	51.3	1995 1997-99 2001-02 2005	07/05/05	0.44
<b>Little Muskingum River Basin</b>				
03115385 CLEAR FORK NEAR RINARD MILLS, OHIO				
Latitude 39°36'08", longitude 81°09'17", Monroe County, Hydrologic Unit 05030201, at State Route 26 bridge over Clear Fork, 0.3 mi above confluence with Little Muskingum River, 1.2 mi north of Rinard Mills, Ohio. (Rinard Mills 1:24000 quad)	48.8	1997-99 2001-02 2005	07/05/05	2.27
<b>Muskingum River Basin</b>				
03123166 SOUTH FORK SUGAR CREEK NEAR SUGARCREEK, OHIO				
Latitude 40°31'25", longitude 81°36'52", Tuscarawas County, Hydrologic Unit 05040001, at Tuscarawas County Road 75, 0.2 mi downstream from confluence with East Branch, 0.2 mi northeast of Sugarcreek, Ohio. (Strasburg 1:24000 quad)	63.3	1997-00 2002-05	06/13/05	18.1

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Muskingum River Basin—Continued</b>				
<b>03123299 WALNUT CREEK AT DUNDEE, OHIO</b>				
Latitude 40°35'12", longitude 81°37'16", Tuscarawas County, Hydrologic Unit 05040001, at private road bridge, 0.5 mi upstream from mouth, 0.7 mi west of Dundee, Ohio. (Strasburg 1:24000 quad)	48.0	1997-00 2002-05	06/13/05	11.4
<b>03122980 MIDDLE FORK SUGAR CREEK NEAR BREWSTER, OHIO</b>				
Latitude 40°35'10", longitude 81°36'40", Stark County, Hydrologic Unit 05040001, at bridge on Welmont Street (Welyt Road), 1.5 mi upstream from mouth, 1.5 mi southwest of Brewster, Ohio. (Strasburg 1:24000 quad)	45.5	2005	09/14/05	8.05
<b>03129205 BLACK FORK MOHICAN RIVER NEAR SHELBY, OHIO</b>				
Latitude 40°54'57", longitude 82°38'02", Richland County, Hydrologic Unit 05040002, at bridge on Plymouth-Spring Road, 0.3 mi downstream from Bear Run, 2.8 mi northeast of Shelby, 2000 ft north of London, Ohio. (Shelby 1:24000 quad)	60.4	2000-05	08/24/05 09/22/05	2.94 3.71
<b>03133950 JEROME FORK NEAR ASHLAND, OHIO</b>				
Latitude 40°53'02", longitude 82°17'03", Ashland County, Hydrologic Unit 05040002, at bridge on U.S. Highway 42, 0.7 mi upstream from Lang Creek, 2.0 mi northeast of Ashland, 1000 ft north of Cleveland Ave., concrete block building on downstream, left of bridge (gray-no paint), at entrance to well-field. (Ashland North 1:24000 quad)	38.6	2000-02 2005	09/22/05	0.58
<b>03136142 KOKOSING RIVER AT CHESTERVILLE, OHIO</b>				
Latitude 40°28'28", longitude 82°41'02", Morrow County, Hydrologic Unit 05040003, at State Route 314 bridge, 0.5 mi downstream from confluence with South Branch, 0.4 mi south of Chesterville, Ohio. (Chesterville 1:24000 quad)	38.7	1996 1998-00 2002-05	08/02/05	3.18
<b>03142185 SALT FORK CREEK NEAR OLD WASHINGTON, OHIO</b>				
Latitude 40°03'27", longitude 81°24'53", Guernsey County, Hydrologic Unit 05040005, just upstream from outlet of wetland, 2.8 mi upstream of Coon Run, 4.3 mi upstream from Salt Fork Reservoir, 2.1 mi northeast of Old Washington, Ohio. (Old Washington 1:24000 quad)	44.6	2002 2005	06/21/05	3.45
<b>03144471 LITTLE WAKATOMIKA CREEK NEAR TRINWAY, OHIO</b>				
Latitude 40°09'18", longitude 82°01'55", Muskingum County, Hydrologic Unit 05040004, at new road bridge just upstream of new State Route 16 bridge, 0.8 mi upstream from mouth, 1.4 mi northwest of Trinway, 2.3 mi northwest of Dresden, Ohio. (Trinway 1:24000 quad)	40.6	2002-05	08/02/05	4.16
<b>03145329 RACCOON CREEK AT ALEXANDRIA, OHIO</b>				
Latitude 40°05'05", longitude 82°36'18", Licking County, Hydrologic Unit 05040006, at State Route 37 bridge over Raccoon Creek, 0.8 mi above confluence with Lobdell Creek, 0.9 mi below confluence with Simpson Run, 0.7 mi north of intersection of State Route 37 and 161, 0.2 mi southeast of Alexandria, Ohio. (Granville 1:24000 quad)	40.6	1997-99 2002-05	10/07/04 08/03/05	3.78 2.07

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Muskingum River Basin—Continued</b>				
<b>03145533 RACCOON CREEK AT NEWARK, OHIO</b>				
Latitude 40°02'34", longitude 82°24'44", Licking County, Hydrologic Unit 05040006, at West Main Street bridge over Raccoon Creek, 0.7 mi above confluence with South Fork Licking River, in Newark, Ohio. (Newark 1:24000 quad)	101	1997-99	10/07/04	24.0
		2002-05	08/03/05	18.3
<b>03150200 MEIGS CREEK NEAR REINERSVILLE, OHIO</b>				
Latitude 39°37'43", longitude 81°43'12", Morgan County, Hydrologic Unit 05040004, at county road bridge at Unionville, 0.1 mi upstream from Dyes Fork, 5.1 mi southwest of Reinersville, Ohio. (Reinersville 1:24000 quad)	73.0	1981-82	08/01/05	2.32
		1996		
		1998-99		
		2002-03 2005		
<b>Hocking River Basin</b>				
<b>03158165 MONDAY CREEK NEAR GREENDALE, OHIO</b>				
Latitude 39°31'24", longitude 82°16'17", Hocking County, Hydrologic Unit 05030204, at Dawley Road over Monday Creek, 0.7 mi above confluence with Sand Run, 0.9 mi above proposed reservoir site, 1.3 mi southeast of Greendale, 4 mi northeast of Haydenville, Ohio. (Gore 1:24000 quad)	67.2	1995-96	06/28/05	5.17
		1998-99	09/07/05	4.69
		2001-03		
		2005		
<b>Symmes Creek Basin</b>				
<b>03205260 SYMMES CREEK NEAR CENTERPOINT, OHIO</b>				
Latitude 38°52'12", longitude 82°28'44", Jackson County, Hydrologic Unit 05090101, at Jenkins Alban Road bridge over Symmes Creek, 2.5 mi above confluence with Black Fork, 1.9 mi northwest of Centerpoint, Ohio. (Patriot 1:24000 quad)	45.9	1997-99	06/30/05	0.85
		2001-05	09/08/05	0.29
<b>Pine Creek Basin</b>				
<b>03216620 PINE CREEK NEAR SOUTH WEBSTER, OHIO</b>				
Latitude 38°46'12", longitude 82°42'25", Scioto County, Hydrologic Unit 05090103, at Lick Run Lyra Road bridge over Pine Creek, 3.0 mi southeast of South Webster, Ohio. (South Webster 1:24000 quad)	33.2	1998-99	06/29/05	0.21
		2001-05	09/08/05	0.15
<b>Little Scioto River Basin</b>				
<b>03216662 LITTLE SCIOTO RIVER NEAR MABEE CORNER, OHIO</b>				
Latitude 38°54'18", longitude 82°46'46", Scioto County, Hydrologic Unit 05090103, at Sulphur Spring Road bridge, just west of White Gravel Road, 0.6 mi downstream from Buckhorn Creek, 0.9 mi from intersection of State Route 139 and White Gravel Road, 3.1 mi west of Mabee Corner, Ohio. (Stockdale 1:24000 quad)	60.5	2000-05	06/29/05	0.46
			09/08/05	0.31



[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Little Scioto River Basin—Continued</b>				
<b>03216673 LITTLE SCIOTO RIVER AT WALLACE MILLS, OHIO</b>				
Latitude 38°51'06", longitude 82°47'36", Scioto County, Hydrologic Unit 05090103, 1000 ft upstream of the confluence with Rocky Fork, near Kentucky Trail Road, 0.5 mi north of Wallace Mills, Ohio. Site can be reached 2.1 mi from State Route 139 on Stockham Road and right 0.3 mi on Kentucky Trail Road. (Minford 1:24000 quad)	108	2000-05	06/29/05	1.41
			09/08/05	0.51
<b>03216689 ROCKY FORK AT WALLACE MILLS, OHIO</b>				
Latitude 38°51'27", longitude 82°47'47", Scioto County, Hydrologic Unit 05090103, from State Route 139, heading southeast on Stockham Road about 0.4 mi to Glades Road, head south on Glades Road about 1.3 mi to bridge, at Glades Road bridge, 0.6 mi above mouth in Wallace Mills, Ohio. (Minford 1:24000 quad)	68.8	2000-05	06/29/05	8.39
			09/08/05	1.00
<b>Scioto River Basin</b>				
<b>03219838 MILL CREEK NEAR NEW DOVER, OHIO</b>				
Latitude 40°13'39", longitude 83°17'52", Union County, Hydrologic Unit 05060001, at Hinton Mill Road bridge, 0.4 mi upstream from Tombstone Creek, 1.4 mi south of New Dover, 3.5 mi east of Marysville, Ohio. (Marysville 1:24000 quad)	102	2002-05	10/08/04	4.56
			07/08/05	5.61
			09/06/05	9.58
<b>03230088 BIG DARBY CREEK NEAR MILFORD CENTER, OHIO</b>				
Latitude 40°11'42", longitude 83°28'27", Union County, Hydrologic Unit 05060001, just upstream of unnamed tributary, near intersection of Middleburg Road and Collins Road, 2.3 mi northwest of Milford Center, Ohio. (Milford Center 1:24000 quad)	66.0	2002-05	10/05/04	4.53
			07/05/05	8.82
<b>03232170 WEST BRANCH RATTLESNAKE CREEK AT GLENDON, OHIO</b>				
Latitude 39°30'40", longitude 83°33'54", Fayette County, Hydrologic Unit 05060003, at West Fork Road bridge, 0.2 mi upstream from mouth, 0.8 mi west of Glendon, 4.0 mi east of Sabina, 6.6 mi west of Washington Court House, Ohio. (Milledgeville 1:24000 quad)	59.8	2000	08/16/05	0.70
		2002-05		
<b>03232171 RATTLESNAKE CREEK AT GLENDON, OHIO</b>				
Latitude 39°30'20", longitude 83°33'18", Fayette County, Hydrologic Unit 05060003, at State Route 3 bridge in Glendon, 4.4 mi east of Sabina, 6.2 mi west of Washington Court House, Ohio. (Milledgeville 1:24000 quad)	106	2000	08/16/05	0.52
		2002-05		
<b>03232295 LEES CREEK NEAR LEESBURG, OHIO</b>				
Latitude 39°20'39", longitude 83°30'33", Highland County, Hydrologic Unit 05060003, at bridge on Monroe Road, 1.2 mi upstream from mouth, 2.4 mi east of Leesburg, Ohio. (Leesburg 1:24000 quad)	74.3	1981-82	08/16/05	0.73
		2000		
		2002-05		
<b>03234050 NORTH FORK PAINT CREEK NEAR PLANO, OHIO</b>				
Latitude 39°30'19", longitude 83°16'22", Ross County, Hydrologic Unit 05060003, at Dogtown Road bridge, 0.6 mi above confluence with Compton Creek, 1.2 mi northeast of Plano, Ohio. (New Holland 1:24000 quad)	60.4	2000	08/16/05	0.47
		2002-05		

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Scioto River Basin—Continued</b>				
<b>03234066 COMPTON CREEK NEAR PLANO, OHIO</b>				
Latitude 39°30'54", longitude 83°17'47", Fayette County, Hydrologic Unit 05060003, at Good Hope-New Holland Road bridge, 3.4 mi above mouth, 1.7 mi north of Plano, Ohio. (New Holland 1:24000 quad)	49.8	2000-05	08/16/05	0.44
<b>Ohio Brush Creek Basin</b>				
<b>03237288 OHIO BRUSH CREEK AT LOUDEN, OHIO</b>				
Latitude 39°01'48", longitude 83°27'19", Adams County, Hydrologic Unit 05090201, at Ford on Heron Road, 0.3 mi north-northwest of Louden, 4.8 mi southwest of Sinking Springs, Ohio. (Sinking Spring 1:24000 quad)	64.9	2000 2002 2004-05	08/25/05	0.09
<b>03237289 BAKER FORK NEAR LOUDEN, OHIO</b>				
Latitude 39°02'29", longitude 83°25'21", Adams County, Hydrologic Unit 05090201, at Horner Chapel Road bridge, 1.3 mi north of Serpent Mound State Memorial, 2.0 mi northeast of Louden, 3.0 mi southwest of Sinking Springs, Ohio. (Sinking Spring 1:24000 quad)	43.1	2000 2002 2004-05	08/25/05	0.94
<b>03237400 WEST FORK OHIO BRUSH CREEK AT LAWSHE, OHIO</b>				
Latitude 38°56'22", longitude 83°28'28", Adams County, Hydrologic Unit 05090201, at Township Road C-13 bridge in Lawshe, 0.4 mi upstream from mouth, 1.1 mi southwest from Peebles on State Highway 41 to Township Road C-13, turn right, 3.6 mi to bridge and station. (Peebles 1:24000 quad)	134	1959-60 1972-77 2000-02 2004-05	08/25/05	0.01
<b>Little Miami River Basin</b>				
<b>03243150 TODD FORK NEAR CLARKSVILLE, OHIO</b>				
Latitude 39°26'10", longitude 83°56'41", Clinton County, Hydrologic Unit 05090202, at U.S. Highway 22 bridge, 1.0 mi upstream from Lytle Creek, 2.7 mi northeast of Clarksville, Ohio. (Clarksville 1:24000 quad)	56.6	1981-82 1995-96 1998-00 2002 2004-05	08/05/05	0.56
<b>03244950 O'BANNON CREEK AT LOVELAND, OHIO</b>				
Latitude 39°16'08", longitude 84°15'21", Clermont County, Hydrologic Unit 05090202, at State Route 48 bridge in Loveland, Ohio. (Mason 1:24000 quad)	59.0	1956 1980-83 1996 1998-00 2002 2004-05	08/05/05	1.94
<b>03247300 STONELICK CREEK NEAR PERINTOWN, OHIO</b>				
Latitude 39°07'20", longitude 84°11'56", Clermont County, Hydrologic Unit 05090202, at U.S. Highway 50 bridge, 1.9 mi east of Perintown, Ohio. (Batavia 1:24000 quad)	76.0	1981-82 1996 1998-00 2002 2004-05	08/05/05	0.44

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Great Miami River Basin</b>				
<b>03263168 STILLWATER RIVER NEAR ANSONIA, OHIO</b>				
Latitude 40°13'01", longitude 84°36'44", Darke County, Hydrologic Unit 05080001, at Beisner Road over Stillwater River, 0.1 mi north of State Route 47, 1.2 mi east of Ansonia, 1.8 mi west of Dawn, Ohio. (Dawn 1:24000 quad)	74.3	1995-99	08/04/05	2.60
		2002-05	09/14/05	2.25
<b>03272429 FOUR MILE CREEK NEAR COLLEGE CORNER, OHIO</b>				
Latitude 39°35'31", longitude 84°46'14", Preble County, Hydrologic Unit 05080002, at bridge over Four Mile Creek, 0.1 mi below confluence with East Fork Four Mile Creek, 0.8 mi above confluence with Little Four Mile Creek, 0.8 mi northwest from Acton Lake, in Hueston Woods State Park, 3 mi northeast of College Corner, Ohio & Indiana. (College Corner 1:24000 quad)	50.1	1996	08/04/05	1.43
		1998-99		
		2001-02		
		2004-05		
<b>03276588 DRY FORK WHITEWATER RIVER AT NEW HAVEN, OHIO</b>				
Latitude 39°15'57", longitude 84°44'54", Hamilton County, Hydrologic Unit 05080003, at Mt. Hope Road bridge, 0.9 mi below confluence with Howard Creek, 1.2 mi above confluence with Lee Creek, next to Miami Whitewater Forest, 0.8 mi southwest of New Haven, Ohio. (Shandon 1:24000 quad)	59.8	1996	08/04/05	0.57
		1998-00		
		2002		
		2004-05		
<b>Maumee River Basin</b>				
<b>04180911 ST. MARYS RIVER ABOVE KOPP CREEK AT ST. MARYS, OHIO</b>				
Latitude 40°32'07", longitude 84°22'38", Auglaize County, Hydrologic Unit 04100004, at Aqueduct Road over St. Mary's River, 150 ft upstream of Miami and Erie Canal aqueduct, 0.3 mi above confluence of Kopp Creek, 2.1 mi east of Grand Lake, 0.5 mi. southeast of St.Mary's, Ohio. (St. Marys 1:24000 quad)	67.0	1994-99	08/04/05	0.80
		2002-05	09/13/05	2.64
<b>04185299 BRUSH CREEK AT EVANSPORT, OHIO</b>				
Latitude 41°26'00", longitude 84°23'24", Williams County, Hydrologic Unit 04100006, at county road over Brush Creek, 1.0 mi above mouth, 0.4 mi north of Williams/Defiance county line, 0.6 mi northeast of Evansport, Ohio. (Evansport 1:24000 quad)	64.8	1994-96	07/01/05	3.64
		1998-99	08/25/05	2.62
		2001-05		
<b>04185410 LICK CREEK NEAR BRUNERSBURG, OHIO</b>				
Latitude 41°22'08", longitude 84°26'17", Defiance County, Hydrologic Unit 04100006, at bridge on Trinity Road, 1.2 mi upstream from mouth, 5.0 mi northwest of Brunersburg, Ohio. (Defiance West 1:24000 quad)	105	1980-82	08/25/05	4.39
		2001-05		
<b>04185498 MUD CREEK NEAR BRUNERSBURG, OHIO</b>				
Latitude 41°20'34", longitude 84°26'51", Defiance County, Hydrologic Unit 04100006, at bridge on State Route 15, 2.4 mi upstream from mouth, 4.0 mi northwest of Brunersburg, Ohio. (Defiance West 1:24000 quad)	58.0	1980-82	08/25/05	1.92
		2001-05		
<b>04187995 SUGAR CREEK NEAR KALIDA, OHIO</b>				
Latitude 40°57'16", longitude 84°10'45", Putnam County, Hydrologic Unit 04100007, at bridge on Putnam County Road 16P, 0.6 mi upstream from mouth, 2.2 mi southeast from Kalida, Ohio. (Kalida 1:24000 quad)	64.2	1981-82	08/24/05	0.18
		2000-05		

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Maumee River Basin—Continued</b>				
<b>04188097 PLUM CREEK AT KALIDA, OHIO</b>				
Latitude 40°59'12", longitude 84°12'33", Putnam County, Hydrologic Unit 04100007, at State Route 114, 0.3 mi northwest of Kalida, Ohio. (Kalida 1:24000 quad)	39.8	1999-05	08/24/05	0.42
<b>04189172 RILEY CREEK NEAR BLUFFTON, OHIO</b>				
Latitude 40°54'12", longitude 83°56'19", Allen County, Hydrologic Unit 04100007, at Phillips Road bridge over Riley Creek, 3.7 mi downstream from confluence of Little Riley Creek, 2.5 mi northwest of Bluffton, Ohio. (Bluffton 1:24000 quad)	64.4	1994-96 1999-05	10/04/04 08/23/05	1.84 1.44
<b>04191007 TOWN CREEK NEAR HOAGLIN, OHIO</b>				
Latitude 40°58'36", longitude 84°28'36", Van Wert County, Hydrologic Unit 04100007, at State Route 637 bridge over Town Creek, 2.1 mi above confluence with Maddox Creek, 0.9 mi south of Paulding/Van Wert County line, 2.3 mi northeast of Hoaglin, 3.1 mi north of State Route 224, 10 mi northeast of Van Wert, Ohio. (Wetsel 1:24000 quad)	51.7	1995-96 1998-99 2002-05	08/24/05	2.73
<b>04191100 FLATROCK CREEK NEAR PAYNE, OHIO</b>				
Latitude 41°05'57", longitude 84°40'06", Paulding County, Hydrologic Unit 04100007, at Township Road 71 bridge, 2.0 mi downstream from Wildcat Creek, 3.5 mi northeast of Payne, Ohio. Proceed 3.4 mi northeast from Payne on State Highway 500 to Township Road 71, turn right and go 0.1 mi to bridge and station. (Payne 1:24000 quad)	147	1972-77 1995-96 1998-99 2003-05	08/24/05	0.29
<b>04192600 SOUTH TURKEYFOOT CREEK NEAR MALINTA, OHIO</b>				
Latitude 41°22'15", longitude 84°01'22", Henry County, Hydrologic Unit 04100009, at U.S. Highway 6 bridge, 1.8 mi upstream from Little Turkeyfoot Creek, 3.5 mi north of Malinta. Proceed north from Malinta on State Highway 109 for 3.4 mi to U.S. Highway 6, turn right and go 0.8 mi to bridge and station. (Malinta 1:24000 quad)	121	1955-56 1972-77 2001-05	08/25/05	0.01
<b>04192710 BAD CREEK AT COLTON, OHIO</b>				
Latitude 41°27'29", longitude 83°57'34", Henry County, Hydrologic Unit 04100009, at County Road U bridge, 0.5 mi southwest of Colton, Ohio, 2.0 mi south of Fulton/Henry county line, and 3.9 mi upstream from confluence with Maumee River. (Colton 1:24000 quad)	56.5	1999 2001-05	08/25/05	0.25
<b>04192782 YELLOW CREEK NEAR DESHLER, OHIO</b>				
Latitude 41°12'16", longitude 83°51'39", Wood County, Hydrologic Unit 04100009, at State Route 18 bridge, 1.9 mi east of Deshler, 4.1 mi west of Hoytville. (Hoytville 1:24000 quad)	53.3	2000-05	10/04/04 08/23/05	1.96 0.48
<b>Portage River Basin</b>				
<b>04194362 SOUTH BRANCH PORTAGE RIVER NEAR JERRY CITY, OHIO</b>				
Latitude 41°16'22", longitude 83°30'56", Wood County, Hydrologic Unit 04100010, at Portage View Road over South Branch Portage River, 0.6 mi above confluence with East Branch, 2.1 mi southeast of Six Points, 4.5 mi northeast of Jerry City, Ohio. (Jerry City 1:24000 quad)	54.0	1995-96 1999-05	10/04/04 08/23/05	0.01 0.01

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Sandusky River Basin</b>				
04196580 LITTLE TYMOCHTEE CREEK NEAR MARSEILLES, OHIO				
Latitude 40°41'13", longitude 83°24'44", Marion County, Hydrologic Unit	43.7	1978	10/06/04	0.30
04100011, at County Road 22 bridge, 1.3 mi above mouth, 1.4 mi southwest of Marseilles, Ohio. (Marseilles 1:24000 quad)		1980-82 1997-05		
<b>Huron River Basin</b>				
04198017 WEST BRANCH HURON RIVER NEAR NEW HAVEN, OHIO				
Latitude 41°03'08", longitude 82°39'37", Huron County, Hydrologic Unit	69.4	1981-82	10/06/04	8.69
04100012, at Boughtonville Road bridge, 0.5 mi below confluence with Marsh Run, 3.3 mi east of Willard, Ohio. (Willard 1:24000 quad)		1997-05	08/17/05	4.94
<b>Vermilion River Basin</b>				
04199251 VERMILION RIVER NEAR NEW LONDON, OHIO				
Latitude 41°03'51", longitude 82°27'10", Huron County, Hydrologic Unit	68.9	1997-05	10/06/04	0.01
04100012, at U.S. Route 250 bridge, 0.8 mi west of New London Reservoir, 0.2 mi north of Akron Canton Youngstown Penn Central Railroad, 3.0 mi southwest of New London, Ohio. (New London 1:24000 quad)			08/17/05	0.58
<b>Black River Basin</b>				
04199617 WEST FORK EAST BRANCH BLACK RIVER AT LODI, OHIO				
Latitude 41°01'36", longitude 82°02'29", Medina County, Hydrologic Unit	40.6	2000-05	10/05/04	1.92
04110001, at bridge of State Route 421, 0.6 mi east of intersection of State Route 42 and 224, 1.6 mi west of Lodi, Ohio. (Lodi 1:24000 quad)			08/16/05	2.50
04199706 EAST BRANCH BLACK RIVER NEAR PENFIELD, OHIO				
Latitude 41°08'12", longitude 82°07'00", Medina/Lorain County, Hydrologic Unit	105	1995-96	10/05/04	4.68
04110001, at Smith Road bridge over East Branch Black River, on Medina/Lorain county line, 0.3 mi east of State Route 301, 2.2 mi south of Penfield, 3.2 mi north of Spencer, Ohio. (Lagrange 1:24000 quad)		1998-05	08/17/05	5.02
<b>Rocky River Basin</b>				
04201079 WEST BRANCH ROCKY RIVER NEAR MEDINA, OHIO				
Latitude 41°09'09", longitude 81°50'02", Medina County, Hydrologic Unit	61.2	1995-96	07/05/05	4.19
04110001, at Weymouth Road bridge over West Branch Rocky River, 0.3 mi below confluence with North Branch, 1.9 mi northeast of Medina, Ohio. (Medina 1:24000 quad)		1998-99 2001-02 2004-05		

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Cuyahoga River Basin</b>				
04205645 LITTLE CUYAHOGA RIVER ABOVE OHIO & ERIE CANAL AT AKRON, OHIO				
Latitude 41°05'27", longitude 81°30'40", Summit County, Hydrologic Unit 04110002, in Akron. Station is reached by driving east on State Route 18 (West Market Street). Turn right (north) onto North Main Street. Travel for 0.4 mi. Turn right (east) onto East North Street. Travel for 0.2 mi to station at Stuber Street bridge on left (north). (Akron West 1:24000 quad)	55.1	1998-99 2001-02 2004-05	07/05/05	14.9
<b>Ashtabula River Basin</b>				
04212453 ASHTABULA RIVER NEAR KELLOGGSVILLE, OHIO				
Latitude 41°50'00", longitude 80°37'13", Ashtabula County, Hydrologic Unit 04110003, at Root Road Covered Bridge over Ashtabula River, 1.7 mi downstream of confluence of East and West Branches of Ashtabula River, 1.6 mi south of Kelloggsville, 2.4 mi east of Sheffield Center, 7.5 mi southeast of Ashtabula, Ohio. (Pierpont 1:24000 quad)	66.5	1995-99 2001-05	06/15/05	3.82

## Discontinued Streamflow-Gaging Stations

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second]

Location	Drainage area (mi <sup>2</sup> )	Period of record (wy)	Measurements	
			Date	Discharge (ft <sup>3</sup> /s)
<b>Muskingum River Basin</b>				
03123000 SUGAR CREEK ABOVE BEACH CITY DAM AT BEACH CITY, OHIO				
Latitude 40°39'24", longitude 81°34'37", in NE ¼ sec. 35, T. 11 N., R. 10 W., Stark County, on right bank at downstream side of 3rd Avenue bridge at Beach City, 2.3 mi upstream from Beach City Dam.	160	1945-75	06/13/05	34.9
			09/14/05	27.8
03134000 JEROME FORK AT JEROMESVILLE, OHIO				
Latitude 40°48'07", longitude 82°12'01", Ashland County, Hydrologic Unit 05040002, on right bank downstream from Main Street bridge (County Highway 30A) at the west end of Jeromesville, Ohio	120	1925-49	09/22/05	12.8
<b>Scioto River Basin</b>				
03223000 OLENTANGY RIVER AT CLARIDON, OHIO				
Latitude 40°34'58", longitude 82°59'20", in NW ¼ sec. 26, T.5 S., R.16 E., Marion County, Hydrologic Unit 05060001, on left bank 900 ft downstream from bridge on State Highway 95, 0.5 mi east of Claridon, 0.8 mi downstream from Otter Creek, and 1.4 mi upstream from Beaver Run.	157	1947-98	08/02/05	16.0
<b>Little Miami River Basin</b>				
03242050 LITTLE MIAMI RIVER NEAR SPRING VALLEY, OHIO				
Latitude 39°35'00", longitude 84°01'49", (SE 14 sec Waynesville Quadrangle) in Greene County on right bank at downstream side of bridge on New Burlington Road, ¾ mi west of Roxanna, and 2.2 mi southwest of Spring Valley, Ohio.	366	1968-85	08/05/05	98.5
<b>Great Miami River Basin</b>				
03271800 TWIN CREEK NEAR INGOMAR, OHIO				
Latitude 39°42'28", longitude 84°31'30", in sec. 15, T.5 N., R.3 E., Preble County, Hydrologic Unit 05080002, on left bank at downstream side of bridge on Halderman Road, 0.5 mi downstream from Bantas Fork, 1.4 mi west of Ingomar, and 4.8 mi upstream from Aukerman Creek.	197	1963-98	08/04/05	10.0

## Project Data—Crest-Stage Gage Network

The following table contains annual maximum gage heights and associated discharges for 18 crest-stage gaging stations in Ohio for water year 2002 through 2005. A crest-stage gage is a device which will record the peak stage occurring at each site between field inspections of the gages. A stage-discharge relation for each gage is developed from indirect measurements of peak flow or from measurements by current meter. The date of the maximum stage and discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the water year is given. Information for some lower floods may have been obtained, and discharge measurements may have been made for purposes of establishing the stage-discharge relations, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.





## Crest-Stage Gage Network in Ohio

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second; --, no data; \*, gage overtopped by floodwaters, elevation from nearby high water mark]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Water-year maximum			Period of record maximum		
			Date of peak	Gage height (ft)	Discharge (ft <sup>3</sup> /s)	Date of peak	Gage height (ft)	Discharge (ft <sup>3</sup> /s)
<b>LITTLE BEAVER CREEK BASIN</b>								
<b>03108608 Middle Fork Little Beaver Creek near Salem, Ohio</b>								
Latitude 40°53'54", Longitude 80°52'50", Columbiana County, Hydrologic Unit 05030101, at culvert on State Route 45, 0.2 mi south of U.S. Highway 62, and 1.3 mi west of Salem, Ohio	1.68	2001-05	01/05/05	55.66	80	08/28/04	61.86	515
<b>DUCK CREEK BASIN</b>								
<b>03115624 East Fork Duck Creek near Road Fork, Ohio</b>								
Latitude 39°38'58", Longitude 81°18'36", Noble County, Hydrologic Unit 05030201, at bridge on State Route 260, 20 mi southeast of Caldwell, and 1 mi south of Road Fork, Ohio	61.33	2001-05	01/12/05	93.83	3,450	09/18/04	103.50	12,450
<b>03115640 Middle Fork Duck Creek near Middleburg, Ohio</b>								
Latitude 39°40'14", Longitude 81°23'21", Noble County, Hydrologic Unit 05030201, at bridge on State Route 564, 0.3 mi south of Middleburg, and 15 mi southeast of Caldwell, Ohio	20.37	2001-05	01/12/05	93.85	1,550	09/18/04	99.38	4,700
<b>MUSKINGUM RIVER BASIN</b>								
<b>03148395 Claypit Creek near Roseville, Ohio</b>								
Latitude 39°50'28", Longitude 82°04'15", Muskingum County, Hydrologic Unit 05040004, at culvert on State Route 93, 2.8 mi south of U.S. Highway 22, and 2.5 mi north of Roseville, Ohio	2.25	1982-86 2001-05	12/23/04	34.65	224	09/09/04	36.08	318
<b>OHIO RIVER TRIBUTARY</b>								
<b>03205995 Sandusky Creek near Burlington, Ohio</b>								
Latitude 38°25'03", Longitude 82°30'36", Lawrence County, Hydrologic Unit 05090101, at culvert on U.S. Highway 52, 1.25 mi east of Burlington, Ohio	0.73	1978-87 2001-05	11/30/04	87.08	101	05/28/04	90.13	249
<b>SCIOTO RIVER BASIN</b>								
<b>03237130 Scioto Brush Creek at Otway, Ohio</b>								
Latitude 38°51'43", Longitude 83°11'24", Scioto County, Hydrologic Unit 05060002, at bridge on State Route 348, 0.2 mi west of State Route 73 in Otway, Ohio	94.36	2001-05	01/05/05	84.87	3,270	05/10/03	91.53	10,690

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second; --, no data; \*, gage overtopped by floodwaters, elevation from nearby high water mark]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Water-year maximum			Period of record maximum		
			Date of peak	Gage height (ft)	Discharge (ft <sup>3</sup> /S)	Date of peak	Gage height (ft)	Discharge (ft <sup>3</sup> /s)
<b>OHIO BRUSH CREEK BASIN</b>								
	<b>03237315</b>	<b>Elk Fork near Winchester, Ohio</b>						
Latitude 38°56'49", Longitude 83°37'21", Adams County, Hydrologic Unit 05090201, at culvert on Tri-county Road, 2.5 mi east of State Route 136 in Winchester, and 3.1 mi west of State Route 247 in Seaman, Ohio	6.45	1982-86 2001-05	01/05/05	69.13	701	09/01/03	78.31	2,230
<b>GREAT MIAMI RIVER BASIN</b>								
	<b>03263168</b>	<b>Stillwater River near Ansonia, Ohio</b>						
Latitude 40°13'02", Longitude 84°36'29", Darke County, Hydrologic Unit 05080001, at bridge on State Route 47, 1.75 mi west of U.S. Highway 127, and 1.5 mi east of Ansonia, Ohio	74.38	2001-05	01/06/05	97.43	4,150	01/06/05	97.43	4,925
	<b>03271732</b>	<b>Miller's Fork near West Sonora, Ohio</b>						
Latitude 39°54'35", Longitude 84°32'28", Preble County, Hydrologic Unit 05080002, at bridge on State Route 503, 1.4 mi north of West Sonora, and 2.0 mi south of Ithaca, Ohio	15.57	2001-05	01/05/05	92.97	1,600	06/11/04	93.24	1,900
<b>MAUMEE RIVER BASIN</b>								
	<b>04180907</b>	<b>Carter Creek near New Bremen, Ohio</b>						
Latitude 40°26'16", Longitude 84°19'43", Shelby County, Hydrologic Unit 04100004, at culvert on State Route 274, 0.58 mi west of State Route 29, and 2.5 mi east of New Bremen, Ohio	1.16	1982-86 2001-05	09/26/05	96.79	82	06/13/04	98.38	193
	<b>04185771</b>	<b>Auglaize River near Cridersville, Ohio</b>						
Latitude 40°38'24", Longitude 84°05'23", Auglaize County, Hydrologic Unit 04100007, at bridge on State Route 65, 2.6 mi north of Uniopolis, and 4.2 mi east of Cridersville, Ohio	63.75	2001-05	01/13/05	95.60	2,050	01/13/05	95.60	2,050
	<b>04191207</b>	<b>Blue Creek near Latty, Ohio</b>						
Latitude 41°03'44", Longitude 84°34'23", Paulding County, Hydrologic Unit 04100007, at bridge on U.S. Highway 127, 2.0 mi south of State Route 613 in Latty, and 5.5 mi south of Paulding, Ohio	65.19	2001-05	01/12/05	95.73	4,220	05/11/03	98.03*	6,150
	<b>04192575</b>	<b>South Turkeyfoot Creek near Elery, Ohio</b>						
Latitude 41°16'59", Longitude 84°01'49", Henry County, Hydrologic Unit 04100009, at bridge on State Route 281, 0.35 mi east of State Route 109, and 9 mi west of Custar, Ohio	37.77	2001-05	01/13/05	96.65	1,550	01/13/05	96.65	1,550

[mi<sup>2</sup>, square miles; wy, water year; ft<sup>3</sup>/s, cubic foot per second; --, no data; \*, gage overtopped by floodwaters, elevation from nearby high water mark]

Location	Drainage Area (mi <sup>2</sup> )	Period of record (wy)	Water-year maximum			Period of record maximum		
			Date of peak	Gage height (ft)	Discharge (ft <sup>3</sup> /S)	Date of peak	Gage height (ft)	Discharge (ft <sup>3</sup> /s)
<b>PORTAGE RIVER BASIN</b>								
<b>04195061 North Branch Portage River at Scotch Ridge, Ohio</b>								
Latitude 41°24'05", Longitude 83°31'19", Wood County, Hydrologic Unit 04100010, at bridge on State Route 199, 0.1 mi south of State Route 105 and Scotch Ridge, and 8 mi east of Bowling Green, Ohio	48.81	2001-05	01/14/05	94.56	1,720	01/14/05	94.56	1,720
<b>SANDUSKY RIVER BASIN</b>								
<b>04196825 Brown's Run near Crawford, Ohio</b>								
Latitude 40°53'13", Longitude 83°20'15", Wyandot County, Hydrologic Unit 04100011, at culvert on US 23, 3.0 miles northwest of SR 199, and 5.5 miles northwest of Upper Sandusky, Ohio	2.00	1982-86 2001-05	01/13/05	95.39	105	07/08/03	98.00	265
<b>LAKE ERIE TRIBUTARY</b>								
<b>0419801460 Little Pickerel Creek near White's Landing, Ohio</b>								
Latitude 41°25'06", Longitude 82°53'14", Sandusky County, Hydrologic Unit 04100011, at bridge on U.S. Highway 6, 10 mi west of Sandusky, and 13 mi east of Fremont, Ohio	5.17	2001-05	01/11/05	97.61	225	01/11/05	97.61	225
<b>VERMILION RIVER BASIN</b>								
<b>04199365 East Branch Vermilion River near Clarksfield, Ohio</b>								
Latitude 41°10'56", Longitude 82°22'12", Huron County, Hydrologic Unit 04100012, at bridge on State Route 18, 2.75 mi east of Clarksfield, and 14 mi east of Norwalk, Ohio	32.33	2001-05	12/31/04	93.60	2,000	12/31/04	93.60	2,000
<b>GRAND RIVER BASIN</b>								
<b>04212029 Bates Creek near Thompson, Ohio</b>								
Latitude 41°39'31", Longitude 81°07'13", Lake County, Hydrologic Unit 04110004, at bridge on State Route 86, 4.5 mi west of Thompson, and 9.5 mi southeast of Painesville, Ohio	11.35	2001-05	04/05/05	81.31	700	06/12/03	82.74	1,925

## Project Data—Bacteriological Data of Water and Sediments and Ancillary Water-Quality Data at Two Lake Erie Beaches

The following tables list the results of bacteriological analyses of surface water, shallow ground water, and sediment samples collected at or near two Lake Erie Beaches—one in Cuyahoga County (Edgewater) and one in Ashtabula County (Lakeshore) from May through September 2005. Ancillary physical water-quality measurements were also taken. Samples were collected as part of a study to develop a predictive model for *Escherichia coli* (*E. coli*) at Lakeshore and determine the spatial distribution of *E. coli* and identify possible sources of fecal contamination at Edgewater and Lakeshore.



## Water-Quality Records

The following tables list the results of bacteriological and water-quality measurements of surface water collected at or near two Lake Erie beaches—one in Cuyahoga County (Edgewater) and one in Ashtabula County (Lakeshore) from May through August 2005. Samples were collected as part of a study to develop a predictive model for *Escherichia coli* (*E. coli*) at Lakeshore and determine the spatial distribution of *E. coli* and identify possible sources of fecal contamination at Edgewater and Lakeshore.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	<i>E. coli</i> Defined Substrate Technology (MPN/100 mL) (50468)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412920081442601—LAKE ERIE AT EDGEWATER, MAIN BEACH WEST, 1 FOOT (E)							
Jun 14	1010	2.4	--	27.1	22.9	--	110
Jun 16	0935	61	--	27.1	19.7	--	390
Jun 20	0911	12	--	20.8	21.4	--	120
Jun 23	0945	13	--	22.3	24.0	--	78
Jun 29	1013	5.8	--	23.9	24.5	--	430
Jul 2	0819	21	--	18.7	22.2	--	90
Jul 6	1019	6.0	--	24.3	24.7	--	240
Jul 13	0933	2.6	--	26.5	25.0	--	63
Jul 19	1009	4.8	--	25.2	25.2	--	72
Jul 27	0945	21	--	20.5	24.4	--	460
Aug 4	1145	3.7	--	35.5	27.4	--	230
Aug 11	1045	8.0	--	26.8	26.5	--	200
Aug 17	0938	1.8	--	24.8	25.3	--	53
Aug 21	1204	31	309	28.1	27.7	--	E1100
Sep 1	0915	--	--	21.8	--	--	1500
412920081442602—LAKE ERIE AT EDGEWATER, MAIN BEACH WEST, 2 FEET (Y)							
Jun 14	1010	4.4	--	27.1	22.6	--	46
Jun 16	0935	38	--	27.1	19.7	--	420
Jun 20	0911	10	--	20.8	21.4	--	44
Jun 23	0945	15	--	22.3	23.9	--	94
Jun 29	1013	4.1	--	23.9	24.5	--	230
Jul 2	0819	24	--	18.7	22.2	--	88
Jul 6	1019	5.5	--	24.3	24.7	--	46
Jul 13	0933	2.5	--	26.5	25.1	--	29
Jul 19	1009	3.8	--	25.2	25.2	--	58
Jul 27	0945	17	--	20.5	24.4	--	360
Aug 4	1145	1.6	--	35.5	27.5	--	25
Aug 11	1045	7.9	--	26.8	26.1	--	480
Aug 17	0938	1.6	--	24.8	25.3	--	25
Aug 21	1202	26	--	--	27.7	--	350
Sep 1	0917	--	--	21.8	--	--	2000

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
412920081442602—LAKE ERIE AT EDGEWATER, MAIN BEACH WEST, 2 FEET (Y)—Continued							
Sep 1	0945	21	--	21.8	23.1	--	1400
412920081442603—LAKE ERIE AT EDGEWATER, MAIN BEACH WEST, 3 FEET (F)							
Jun 14	1010	1.8	--	27.1	21.7	--	40
Jun 16	0935	32	--	27.1	19.7	--	480
Jun 20	1015	5.1	--	20.8	21.6	--	30
Jun 23	0945	23	--	22.3	23.9	--	130
Jun 24	0929	7.8	--	22.2	27.1	--	E16
Jun 29	1001	6.1	--	23.9	24.0	--	31
Jul 2	0819	21	--	18.7	22.2	--	52
Jul 6	1007	4.6	--	24.3	24.7	--	48
Jul 13	0934	1.4	--	26.5	24.1	--	50
Jul 19	1009	4.0	--	25.2	25.0	--	45
Jul 27	0937	14	--	20.5	24.4	--	250
Aug 4	1145	1.4	--	35.5	27.4	--	27
Aug 10	0912	2.7	--	24.5	26.0	--	52
Aug 11	1045	9.0	--	26.8	26.1	--	190
Aug 16	1215	2.8	312	25.4	26.0	96	--
Aug 17	0938	1.9	--	24.8	25.4	--	12
Aug 17	1012	2.6	299	24.8	25.8	15	--
Aug 18	0944	2.6	290	24.3	24.9	53	--
Aug 21	1200	--	308	--	27.7	--	270
Aug 22	1000	6.1	292	24.7	24.4	220	--
Aug 23	1005	36	286	19.3	24.1	68	--
Aug 24	0930	5.3	--	22.6	22.7	--	150
Aug 24	0955	5.7	289	22.6	23.1	190	--
Aug 25	0928	3.8	316	21.0	22.9	24	--
Aug 29	0925	4.0	283	21.4	23.4	20	--
Aug 30	0928	2.0	283	20.9	23.3	140	--
Sep 1	0913	--	322	21.8	22.4	--	1400
Sep 6	0922	10	348	19.6	23.1	57	--
Sep 7	0931	--	--	17.9	22.1	--	140
Sep 7	0942	5.5	330	17.9	21.9	88	--
Sep 8	0931	8.2	336	20.1	22.5	580	--
Sep 12	0926	4.4	330	19.7	22.1	100	--

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
412922081442301—LAKE ERIE AT EDGEWATER, MAIN BEACH EAST, 1 FOOT (U)							
Jun 14	0943	7.8	--	27.1	21.9	--	44
Jun 16	0925	34	--	27.1	19.9	--	430
Jun 23	0930	13	--	22.3	23.7	--	71
Jun 29	0954	12	--	23.9	24.4	--	690
Jul 2	0759	30	--	18.7	22.8	--	130
Jul 6	1000	6.9	--	24.3	24.1	--	85
Jul 13	0919	1.5	--	26.5	25.4	--	180
Jul 19	0942	6.2	--	25.2	25.4	--	150
Jul 27	0922	22	--	20.5	24.4	--	430
Aug 4	1135	17	--	35.5	28.2	--	170
Aug 11	1039	9.7	--	26.8	26.1	--	260
Aug 17	0921	1.9	--	24.8	25.1	--	20
Sep 1	0935	30	--	21.8	21.9	--	2100
412922081442302—LAKE ERIE AT EDGEWATER, MAIN BEACH EAST, 2 FEET (X)							
Jun 14	0943	7.3	--	27.1	21.9	--	25
Jun 23	0930	12	--	22.3	23.6	--	59
Jun 29	0954	5.3	--	23.9	24.4	--	640
Jul 2	0759	29	--	18.7	22.8	--	140
Jul 6	1000	7.2	--	24.3	24.1	--	81
Jul 13	0919	1.2	--	26.5	25.3	--	310
Jul 19	0942	5.9	--	25.2	25.3	--	150
Jul 27	0922	22	--	20.5	24.4	--	440
Aug 4	1135	3.1	--	35.5	28.1	--	52
Aug 11	1039	9.3	--	26.8	26.1	--	270
Aug 17	0921	1.6	--	24.8	25.1	--	13
Sep 1	0935	24	--	21.8	22.1	--	1800
412922081442303—LAKE ERIE AT EDGEWATER, MAIN BEACH EAST, 3 FEET (C)							
Jun 14	0943	7.0	--	27.1	21.9	--	25
Jun 16	0933	30	--	19.9	18.6	--	400
Jun 21	0914	14	--	21.5	22.7	--	44
Jun 23	0930	10	--	22.3	23.7	--	53
Jun 27	0938	7.1	--	24.0	30.0	--	77
Jun 29	0954	12	--	23.9	24.4	--	650
Jul 2	0759	31	--	18.7	22.8	--	140
Jul 5	0927	6.2	--	24.8	24.4	--	E17

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
412922081442303—LAKE ERIE AT EDGEWATER, MAIN BEACH EAST, 3 FEET (C)—Continued							
Jul 6	1000	7.6	--	24.3	24.1	--	85
Jul 11	0914	1.9	--	24.7	26.3	--	46
Jul 13	0919	1.8	--	26.5	25.3	--	45
Jul 18	0918	3.1	--	27.2	25.1	--	45
Jul 19	0942	5.1	--	25.2	25.2	--	110
Jul 25	0922	4.8	--	26.6	25.9	--	100
Jul 27	0922	20	--	20.5	24.4	--	510
Aug 1	0914	2.9	--	24.6	25.6	--	29
Aug 4	1135	1.9	--	35.5	28.0	--	40
Aug 8	0932	4.3	--	25.4	25.8	--	55
Aug 11	1039	7.5	--	26.8	26.1	--	280
Aug 15	0940	2.4	--	21.9	25.2	--	100
Aug 17	0921	1.6	--	--	25.1	--	11
Sep 1	0935	24	--	21.8	22.2	--	1400
415426080465100—LAKE ERIE AT LAKESHORE, BOAT RAMP DOCK (J)							
Jun 2	0950	6.8	--	22.9	17.0	--	E33
Jun 9	1035	6.3	--	27.5	19.5	--	220
Jun 16	1015	14	--	19.9	20.4	--	6700
Jun 23	1100	13	--	22.9	--	--	>2700
Jun 29	1035	8.5	--	27.1	23.6	--	830
Jul 7	1140	16	--	22.9	25.5	--	1900
Jul 14	0945	16	--	25.1	25.9	--	5300
Jul 21	1025	3.2	--	26.5	26.2	--	E530
Jul 27	1020	14	--	21.1	--	--	4200
Aug 3	1025	7.7	--	28.4	27.0	--	270
Aug 11	1030	8.9	--	24.7	25.9	--	2500
Aug 15	1015	38	--	22.9	25.0	--	E420
415427080464800—LAKE ERIE AT LAKESHORE, EAST SIDE OF BREAKWALL (N)							
Jul 27	1025	>1000	--	--	--	14000	--
Aug 15	1020	190	--	--	25.2	--	2100
415429080464200—LAKE ERIE AT LAKESHORE, NEAR POND DRAINAGE (H)							
Jun 2	1010	4.0	--	22.9	16.3	--	83
Jun 9	1055	1.6	--	27.5	19.5	--	83
Jun 16	1035	83	--	19.9	--	--	2600



## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

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Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
415429080464200—LAKE ERIE AT LAKESHORE, NEAR POND DRAINAGE (H)—Continued							
Jun 23	1045	3.5	--	22.9	--	--	28
Jun 29	1043	2.2	--	27.1	24.1	--	2600
Jul 7	1135	1.7	--	22.9	24.8	--	E120
Jul 14	1015	4.3	--	25.1	23.7	--	870
Jul 21	1040	27	--	26.5	26.2	--	3000
Jul 27	1045	240	--	21.1	--	--	3500
Aug 3	1035	2.1	--	28.4	26.5	--	E30
Aug 11	1040	100	--	24.7	25.8	--	1600
Aug 15	1025	20	--	22.9	25.1	--	E62
415429080465000—LAKE ERIE AT LAKESHORE, WEST SIDE OF BREAKWALL (I)							
Jul 14	1020	2.2	--	25.1	25.3	--	350
Jul 21	1030	18	--	26.5	26.3	--	E480
Aug 3	1030	2.2	--	28.4	26.3	--	190
Aug 8	1020	3.0	--	26.8	25.8	--	E5
Aug 11	1035	53	--	24.7	25.9	--	500
Aug 15	1020	20	--	22.9	24.9	--	E62
415430080462903—LAKE ERIE AT LAKESHORE, CENTRAL BEACH, 3 FEET (B)							
Jun 1	1040	1.4	--	21.4	18.3	--	620
Jun 2	1005	1.7	--	22.9	16.9	--	E9
Jun 6	0905	1.9	--	22.8	15.9	--	130
Jun 7	1035	1.8	--	26.4	18.2	--	E12
Jun 8	1045	1.7	--	25.8	18.8	--	270
Jun 9	1105	1.2	--	27.5	18.7	--	E25
Jun 13	1105	2.4	--	30.3	20.9	--	63
Jun 14	1045	3.5	--	29.5	20.1	--	520
Jun 15	1055	12	--	28.3	20.2	--	4700
Jun 16	1045	43	--	19.9	21.3	--	E1300
Jun 20	1045	1.8	--	23.7	22.3	--	77
Jun 21	1050	1.9	--	23.2	21.7	--	100
Jun 22	1030	14	--	19.9	22.1	--	E1600
Jun 23	1040	4.0	--	22.9	22.5	--	90
Jun 27	1045	3.4	--	31.0	23.7	--	59
Jun 28	1040	3.1	--	28.6	22.2	--	E300
Jun 29	1055	1.6	--	27.1	24.1	--	200
Jun 30	1050	2.1	--	27.4	23.8	--	E58

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu$ S/cm, microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu$ S/cm) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
415430080462903—LAKE ERIE AT LAKESHORE, CENTRAL BEACH, 3 FEET (B)—Continued							
Jul 5	1030	3.3	--	27.3	24.2	--	200
Jul 6	1035	35	--	22.9	22.3	--	2000
Jul 7	1120	2.6	--	22.9	25.1	--	E33
Jul 11	1055	1.4	--	26.2	23.9	--	120
Jul 12	1105	2.9	--	27.0	24.4	--	58
Jul 13	1035	1.3	--	30.9	25.1	--	42
Jul 14	0955	22	--	25.1	22.3	--	2100
Jul 18	1010	5.2	--	31.4	24.3	--	900
Jul 19	1035	44	--	26.7	25.0	--	2500
Jul 20	1035	7.2	--	27.1	25.3	--	730
Jul 21	1050	9.6	--	26.5	25.9	--	970
Jul 25	1030	14	--	27.6	26.5	--	370
Jul 26	1050	8.4	--	27.9	26.2	--	660
Jul 27	1035	170	--	21.1	25.3	--	3700
Jul 28	1040	22	--	22.3	25.6	--	250
Aug 1	1045	4.3	--	29.1	26.3	--	170
Aug 2	1045	2.2	--	30.0	25.9	--	63
Aug 3	1045	2.6	--	28.4	27.0	--	30
Aug 4	1035	2.9	--	32.1	26.6	--	120
Aug 8	1035	1.5	--	26.8	25.9	--	90
Aug 9	1045	3.9	--	28.1	25.3	--	630
Aug 10	1040	7.6	--	30.4	25.8	--	280
Aug 11	1055	110	--	24.7	26.6	--	2600
Aug 15	1035	24	--	22.9	26.1	--	E110
Aug 16	1045	19	--	25.4	26.0	--	77
Aug 17	1035	10	--	26.8	26.1	--	230
Aug 18	1045	9.0	--	28.3	26.2	--	400
415430080463103—LAKE ERIE AT LAKESHORE, WEST BEACH, 3 FEET (C )							
Jun 1	1050	1.5	--	21.4	18.3	--	E10
Jun 2	1010	2.0	--	22.9	16.9	--	E11
Jun 6	0910	1.9	--	22.8	16.1	--	93
Jun 7	1040	1.6	--	26.4	18.0	--	E14
Jun 8	1035	1.3	--	25.8	18.5	--	40
Jun 9	1110	1.1	--	27.5	19.5	--	E53
Jun 13	1100	1.8	--	30.3	21.2	--	180
Jun 14	1040	3.3	--	29.5	19.8	--	490

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
415430080463103—LAKE ERIE AT LAKESHORE, WEST BEACH, 3 FEET (C)—Continued							
Jun 15	1100	7.6	--	28.3	19.9	--	5300
Jun 16	1030	39	--	19.9	21.5	--	E700
Jun 20	1050	1.8	--	23.7	22.1	--	87
Jun 21	1055	1.7	--	23.2	21.8	--	E18
Jun 22	1035	5.5	--	19.9	22.2	--	E920
Jun 23	1045	2.7	--	22.9	22.3	--	110
Jun 27	1050	3.2	--	31.0	23.9	--	E290
Jun 28	1045	2.2	--	28.6	22.3	--	E400
Jun 29	1100	1.4	--	27.1	23.9	--	290
Jun 30	1100	1.8	--	27.4	23.8	--	200
Jul 5	1035	3.8	--	27.3	24.3	--	210
Jul 6	1040	18	--	22.9	22.3	--	1200
Jul 7	1115	2.2	--	22.9	25.1	--	<8
Jul 11	1100	2.1	--	26.2	24.1	--	190
Jul 12	1055	1.9	--	27.0	24.3	--	100
Jul 13	1040	1.6	--	30.9	24.8	--	73
Jul 14	1000	3.5	--	25.1	26.1	--	340
Jul 18	1015	2.5	--	31.4	24.5	--	400
Jul 19	1040	20	--	26.7	25.0	--	2600
Jul 20	1040	6.8	--	27.1	25.6	--	830
Jul 21	1055	1.2	--	26.5	26.2	--	E100
Jul 25	1035	15	--	27.6	26.4	--	460
Jul 26	1045	6.3	--	27.9	26.6	--	530
Jul 27	1040	75	--	21.1	25.4	--	1200
Jul 28	1045	17	--	22.3	25.6	--	E84
Aug 1	1050	3.6	--	29.1	26.0	--	83
Aug 2	1100	1.9	--	30.0	26.0	--	44
Aug 3	1050	3.5	--	28.4	26.8	--	40
Aug 4	1040	3.1	--	32.1	26.9	--	140
Aug 8	1040	1.7	--	26.8	26.2	--	E680
Aug 9	1040	4.5	--	28.1	25.5	--	530
Aug 10	1045	5.3	--	30.4	25.7	--	300
Aug 11	1100	74	--	24.7	26.4	--	2200
Aug 15	1040	27	--	22.9	26.4	--	E150
Aug 16	1050	26	--	25.4	26.1	--	180

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
415430080463103—LAKE ERIE AT LAKESHORE, WEST BEACH, 3 FEET (C)—Continued							
Aug 17	1040	12	--	26.8	25.9	--	260
Aug 18	1050	4.5	--	28.3	26.5	--	390
415430080463600—LAKE ERIE AT LAKESHORE, IN FRONT OF PAVILION (F)							
Jun 2	1000	2.5	--	22.9	16.7	--	E35
Jun 9	1045	1.1	--	27.5	19.5	--	E5
Jun 16	1055	80	--	19.9	--	--	3100
Jun 23	1050	2.1	--	22.9	--	--	93
Jun 29	1105	1.4	--	27.1	24.0	--	E10
Jul 7	1130	4.9	--	22.9	24.3	--	E35
Jul 14	1010	1.5	--	25.1	25.3	--	E120
Jul 21	1035	1.3	--	26.5	25.8	--	E67
Jul 27	1050	69	--	21.1	--	--	2300
Aug 3	1055	1.6	--	28.4	26.8	--	E25
Aug 11	1045	77	--	24.7	26.2	--	2500
Aug 15	1050	16	--	22.9	24.7	--	E69
415431080462603—LAKE ERIE AT LAKESHORE, EAST BEACH, 3 FEET (A)							
Jun 1	1030	1.3	--	21.4	18.3	--	E6
Jun 2	1000	1.5	--	22.9	16.9	--	E8
Jun 6	0900	3.0	--	22.8	16.2	--	140
Jun 7	1030	1.7	--	26.4	17.6	--	22
Jun 8	1040	1.6	--	25.8	18.5	--	E330
Jun 9	1100	1.2	--	27.5	18.9	--	E8
Jun 13	1110	2.2	--	30.3	21.1	--	21
Jun 14	1035	4.0	--	29.5	19.9	--	800
Jun 15	1050	14	--	28.3	20.0	--	5600
Jun 16	1040	70	--	19.9	21.7	--	2000
Jun 20	1040	2.3	--	23.7	22.0	--	70
Jun 21	1045	2.5	--	23.2	21.9	--	E13
Jun 22	1025	6.0	--	19.9	22.3	--	E1200
Jun 23	1035	3.7	--	22.9	22.7	--	70
Jun 27	1040	2.2	--	31.0	23.8	--	38
Jun 28	1035	1.8	--	28.6	22.2	--	24
Jun 29	1050	1.6	--	27.1	24.1	--	340
Jun 30	1055	1.9	--	27.4	23.7	--	150
Jul 5	1025	3.5	--	27.3	24.3	--	560

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; (E), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100 mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; E, estimated; <, concentration or value is less than indicated; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	E. coli Defined Substrate Technology (MPN/100 mL) (50468)	E. coli modified mTEC, water (col/100 mL) (90902)
415431080462603—LAKE ERIE AT LAKESHORE, EAST BEACH, 3 FEET (A)—Continued							
Jul 6	1030	17	--	22.9	22.4	--	550
Jul 7	1125	1.7	--	22.9	25.0	--	<8
Jul 11	1050	1.7	--	26.2	24.2	--	44
Jul 12	1100	2.1	--	27.0	24.3	--	73
Jul 13	1030	1.1	--	30.9	25.3	--	16
Jul 14	0950	28	--	25.1	22.5	--	1600
Jul 18	1000	8.0	--	31.4	23.8	--	800
Jul 19	1030	32	--	26.7	25.4	--	E2800
Jul 20	1030	6.9	--	27.1	25.7	--	930
Jul 21	1045	12	--	26.5	26.1	--	1100
Jul 25	1025	20	--	27.6	26.6	--	430
Jul 26	1055	7.9	--	27.9	26.6	--	540
Jul 27	1030	83	--	21.1	25.3	--	2000
Jul 28	1035	32	--	22.3	25.5	--	490
Aug 1	1040	2.3	--	29.1	26.4	--	73
Aug 2	1040	2.8	--	30.0	26.4	--	69
Aug 3	1040	2.7	--	28.4	26.9	--	22
Aug 4	1030	2.4	--	32.1	26.8	--	E530
Aug 8	1030	3.2	--	26.8	26.1	--	E9
Aug 9	1050	4.2	--	28.1	25.1	--	470
Aug 10	1035	6.3	--	30.4	26.2	--	320
Aug 11	1050	35	--	24.7	26.3	--	670
Aug 15	1030	40	--	22.9	25.8	--	E62
Aug 16	1040	13	--	25.4	26.0	--	E28
Aug 17	1030	9.4	--	26.8	25.9	--	140
Aug 18	1040	2.6	--	28.3	26.3	--	24

## Water-Quality Records—Continued

The following tables list the results of bacteriological and water-quality measurements of shallow ground water at one Lake Erie beach in Cuyahoga County (Edgewater) on August and September 2005. Samples were collected as part of a study to determine the spatial distribution of *E. coli* and identify possible sources of fecal contamination at Edgewater.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(63676), USGS National Water Information System parameter code; (RR.1), sample designation; NTRU, Nephelometric Turbidity Ratio Units;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/100mL, most probable number per 100 milliliters; col/100 mL, colonies per 100 milliliters; --, no data; >, concentration or value is greater than indicated]

Date	Time	Turbidity (NTRU) (63676)	Specific conduct- ance, water unfiltered ( $\mu\text{S}/\text{cm}$ ) (00095)	Temper- ature, air (deg C) (00020)	Temper- ature, water (deg C) (00010)	<i>E. coli</i> Defined Substrate Technology (MPN/100 mL) (50468)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412918081442606—CU-21 PZ-06 (RR.1)							
Aug 16	1152	460	204	25.4	24.3	1100	--
Aug 17	0938	690	372	24.8	24.0	1100	--
Aug 18	0859	350	379	24.3	23.7	1400	--
Aug 21	1145	89	453	28.1	26.4	--	250
Aug 22	0924	130	370	24.7	23.9	>2400	--
Aug 23	0918	220	352	19.3	23.0	6900	--
Aug 24	0930	7.4	389	22.6	22.2	160	240
Aug 25	0922	8.4	408	21.0	22.7	310	--
Aug 29	0920	8.3	984	21.4	22.9	39	--
Aug 30	0925	6.0	1280	20.9	22.6	26	--
Sep 1	0835	--	580	21.8	21.7	--	E8
Sep 6	0927	7.0	987	19.6	22.6	7	--
Sep 7	0944	5.0	1050	17.9	22.2	1	--
Sep 8	0920	4.3	1080	20.1	22.1	9	--
Sep 12	0922	3.5	762	19.7	21.7	5	--
412918081442609—CU-21 PZ-09 (QQ)							
Aug 16	1136	500	219	25.4	24.4	1300	--
Aug 17	1005	450	392	24.8	24.1	440	--
Aug 18	0918	86	406	24.3	23.8	180	--
Aug 21	1115	60	463	28.1	25.0	--	90
Aug 22	0948	26	410	24.7	24.1	>2400	--
Aug 23	1001	76	411	19.3	23.3	440	--
Aug 24	0947	6.4	410	22.6	23.0	370	--
Aug 25	0940	23	410	21.0	22.9	110	--
Aug 29	0951	15	474	21.4	23.2	190	--
Aug 30	0941	5.9	646	20.9	23.1	59	--

## Water-Quality Records—Continued

The following tables list the results of bacteriological analysis of sediments collected near one Lake Erie beach in Ashtabula County (Lakeshore) from July to September 2005. Samples were collected as part of a study to determine the spatial distribution of *E. coli* and identify possible sources of fecal contamination at Ashtabula.

## SEDIMENT DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(00020), USGS National Water Information System parameter code; (DD), sample designation; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; MPN/g<sub>DW</sub>, most probable number per gram dry weight of sediment; --, no data; >, concentration or value is greater than indicated]

Date	Time	Temperature, air (deg C) (00020)	<i>E. coli</i> Defined Substrate Technology, bed sediment, (MPN/g <sub>DW</sub> ) (50467)
415426080462500—LAKE ERIE AT LAKESHORE, SOUTHWEST CORNER OF PARKING LOT (DD)			
Jul 14	1000	25.1	2000
Aug 15	1125	22.9	440
Sep 1	1140	--	20000
415427080462500—LAKE ERIE AT LAKESHORE, WEST SIDE OF PARKING LOT (BB)			
Jul 14	0940	25.1	3200
Aug 15	1115	22.9	920
Sep 1	1130	--	8200
415427080462600—LAKE ERIE AT LAKESHORE, NORTHWEST CORNER OF PARKING LOT (AA)			
Jul 14	0930	25.1	2500
Aug 15	1110	22.9	2700
Sep 1	1125	--	1900
415428080462200—LAKE ERIE AT LAKESHORE, NORTHEAST CORNER OF PARKING LOT (CC)			
Jul 14	0950	25.1	>3700
Aug 15	1120	22.9	1400
Sep 1	1135	--	11000

## Project Data—Implementing a System for “Nowcasting” Bacteria Levels and Beach Advisories

The following tables list the results of bacteriological and physical measurements of water samples collected for a 3-year study (2004–06) from three sites at one Lake Erie beach in Lorain County during May through August 2005. Samples were collected as part of a study to develop a statistical model for estimating *Escherichia coli* concentrations in recreational waters in order to predict the probability that the bacteria levels will exceed the bathing-water standard. The goal of this study is to establish an Internet-based nowcasting system, which is based on the statistical model, to provide the public with daily information concerning water quality and posting beach advisories at the beach.





## Water-Quality Records

The following tables list the results of bacteriological and physical measurements of water samples collected May through August 2005 from three sites at one Lake Erie Beach in Lorain County.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[(63676), USGS National Water Information System parameter code; NTRU, Nephelometric Turbidity Ratio Units; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; col/100 mL, colonies per 100 milliliters; E, estimated]

Date	Time	Turbidity (NTRU) (63676)	Temperature, air (deg C) (00020)	Temperature, water (deg C) (00010)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412751082114700—LAKE ERIE AT LAKEVIEW BEACH WEST					
May 24	1151	25	12.5	14.5	240
May 25	0905	6.9	12.7	13.7	250
May 26	0859	3.6	15.4	15.1	E4
May 31	0905	2.0	17.1	15.7	22
Jun 01	0903	1.7	17.4	16.9	73
Jun 02	0905	1.9	19.8	15.8	93
Jun 06	0902	2.8	24.6	17.4	47
Jun 07	0854	2.0	23.3	18.9	E6
Jun 08	0804	1.3	23.9	18.9	E9
Jun 09	0859	1.9	25.5	20.6	78
Jun 13	0850	1.6	26.6	20.0	80
Jun 14	0952	3.6	24.3	21.2	47
Jun 15	0903	20	21.2	20.6	290
Jun 16	0754	22	16.5	20.7	E770
Jun 20	0902	2.4	20.0	19.9	32
Jun 21	0857	1.8	20.6	19.7	27
Jun 22	0858	4.4	20.0	20.6	390
Jun 23	0815	2.4	17.1	19.8	330
Jun 27	0852	1.5	26.9	21.9	55
Jun 28	0902	2.1	25.0	21.7	26
Jun 29	0847	3.8	23.1	23.4	E1100
Jun 30	0846	1.8	24.3	23.6	97
Jul 05	0858	3.2	23.5	23.7	280
Jul 06	0911	6.3	21.9	23.3	610
Jul 07	0819	3.2	21.8	23.0	240
Jul 11	0901	1.1	24.1	23.2	52
Jul 12	0916	1.0	25.1	22.9	140
Jul 13	0939	1.5	25.3	23.5	670
Jul 14	0903	0.8	24.0	23.9	E240
Jul 18	0901	10	25.7	25.2	1300
Jul 19	0852	7.9	23.7	25.2	650
Jul 20	0927	2.2	26.6	26.1	220
Jul 21	0855	8.6	23.3	25.4	E2000
Jul 25	0909	17	26.1	25.7	390

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; NTRU, Nephelometric Turbidity Ratio Units; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; col/100 mL, colonies per 100 milliliters; E, estimated]

Date	Time	Turbidity (NTRU) (63676)	Temperature, air (deg C) (00020)	Temperature, water (deg C) (00010)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412751082114700—LAKE ERIE AT LAKEVIEW BEACH WEST—Continued					
Jul 26	0853	4.8	27.3	25.7	180
Jul 27	0853	25	20.2	25.2	1900
Jul 28	0919	5.6	22.1	25.1	770
Aug 01	0903	1.2	24.4	23.8	120
Aug 02	0737	1.6	23.2	23.6	E1000
Aug 03	0909	1.2	26.2	25.6	1700
Aug 04	0911	2.8	23.7	25.3	1700
Aug 08	0858	1.3	24.4	25.6	E32
Aug 09	0854	3.4	25.6	25.0	1500
Aug 10	0847	2.3	25.6	25.0	260
Aug 11	0902	9.5	26.7	26.1	1900
Aug 15	0902	2.5	22.9	25.2	560
Aug 16	0900	1.1	22.5	23.9	370
Aug 17	0846	0.9	22.5	23.9	580
Aug 18	0848	2.2	23.3	23.9	E5000
412752082114400—LAKE ERIE AT LAKEVIEW BEACH CENTRAL					
May 24	1144	33	12.5	14.5	380
May 25	0859	7.6	12.7	13.7	200
May 26	0852	4	15.4	15.1	22
May 31	0858	2.2	17.1	15.7	110
Jun 01	0857	1.8	17.4	16.9	54
Jun 02	0854	1.8	19.8	15.8	E12
Jun 06	0857	4.2	24.6	17.4	210
Jun 07	0849	4.4	23.3	18.9	110
Jun 08	0759	1.7	23.9	18.9	41
Jun 09	0851	4.8	25.5	20.6	610
Jun 13	0854	2.2	26.6	20.0	35
Jun 14	0945	21	24.3	21.2	650
Jun 15	0857	33	21.2	20.6	730
Jun 16	0757	20	16.5	20.7	260
Jun 20	0855	2.0	20.0	19.9	25
Jun 21	0859	2.0	20.6	19.7	90
Jun 22	0853	6.3	20.0	20.6	480
Jun 23	0820	7.5	17.1	19.8	800
Jun 27	0845	1.7	26.9	21.9	E78
Jun 28	0854	2.1	25.0	21.7	120

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; NTRU, Nephelometric Turbidity Ratio Units; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; col/100 mL, colonies per 100 milliliters; E, estimated]

Date	Time	Turbidity (NTRU) (63676)	Temperature, air (deg C) (00020)	Temperature, water (deg C) (00010)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412752082114400—LAKE ERIE AT LAKEVIEW BEACH CENTRAL—Continued					
Jun 29	0850	6.6	23.1	23.4	E2300
Jun 30	0839	1.7	24.3	23.6	110
Jul 05	0854	3.9	23.5	23.7	690
Jul 06	0906	8.6	21.9	23.3	590
Jul 07	0822	3.1	21.8	23.0	330
Jul 11	0852	1.0	24.1	23.2	26
Jul 12	0901	1.1	25.1	22.9	E2000
Jul 13	0913	1.5	25.3	23.5	560
Jul 14	0855	0.7	24.0	23.9	E49
Jul 18	0857	4.6	25.7	25.2	330
Jul 19	0849	16	23.7	25.2	2600
Jul 20	0920	1.9	26.6	26.1	160
Jul 21	0852	9.6	23.3	25.4	E2600
Jul 25	0902	12	26.1	25.7	330
Jul 26	0849	4.7	27.3	25.7	550
Jul 27	0848	39	20.2	25.2	1900
Jul 28	0915	3.2	22.1	25.1	380
Aug 01	0857	1.4	24.4	23.8	97
Aug 02	0730	1.7	23.2	23.6	100
Aug 03	0854	1.1	26.2	25.6	170
Aug 04	0900	1.5	23.7	25.3	250
Aug 08	0854	1.7	24.4	25.6	97
Aug 09	0849	3.0	25.6	25.0	1800
Aug 10	0905	2.0	25.6	25.0	190
Aug 11	0853	9.6	26.7	26.1	1800
Aug 15	0858	2.7	22.9	25.2	370
Aug 16	0852	1.2	22.5	23.9	390
Aug 17	0850	1.0	22.5	23.9	510
Aug 18	0858	1.4	23.3	23.9	450
412753082114200—LAKE ERIE AT LAKEVIEW BEACH EAST					
May 24	1140	24	12.5	14.5	260
May 25	0855	7.1	12.7	13.7	180
May 26	0847	3.4	15.4	15.1	E8
May 31	0853	2.6	17.1	15.7	32
Jun 01	0853	1.4	17.4	16.9	58

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; NTRU, Nephelometric Turbidity Ratio Units; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; col/100 mL, colonies per 100 milliliters; E, estimated]

Date	Time	Turbidity (NTRU) (63676)	Temperature, air (deg C) (00020)	Temperature, water (deg C) (00010)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412753082114200—LAKE ERIE AT LAKEVIEW BEACH EAST—Continued					
Jun 02	0851	1.4	19.8	15.8	E12
Jun 06	0853	4.4	24.6	17.4	290
Jun 07	0846	2.2	23.3	18.9	20
Jun 08	0754	1.6	23.9	18.9	39
Jun 09	0848	6.9	25.5	20.6	660
Jun 13	0858	1.7	26.6	20.0	50
Jun 14	0940	13	24.3	21.2	320
Jun 15	0851	29	21.2	20.6	650
Jun 16	0803	22	16.5	20.7	440
Jun 20	0851	1.9	20.0	19.9	E12
Jun 21	0845	1.8	20.6	19.7	29
Jun 22	0850	8.2	20.0	20.6	500
Jun 23	0824	2.4	17.1	19.8	110
Jun 27	0843	1.4	26.9	21.9	42
Jun 28	0850	2.3	25.0	21.7	E65
Jun 29	0853	4.3	23.1	23.4	E1700
Jun 30	0850	1.9	24.3	23.6	310
Jul 05	0901	3.0	23.5	23.7	210
Jul 06	0903	5.4	21.9	23.3	710
Jul 07	0829	2.8	21.8	23.0	300
Jul 11	0847	1.3	24.1	23.2	35
Jul 12	0857	1.0	25.1	22.9	43
Jul 13	0918	2.1	25.3	23.5	850
Jul 14	0849	0.8	24.0	23.9	E760
Jul 18	0850	5.4	25.7	25.2	710
Jul 19	0845	14	23.7	25.2	E2800
Jul 20	0913	1.3	26.6	26.1	87
Jul 21	0846	16	23.3	25.4	E5900
Jul 25	0900	9.6	26.1	25.7	570
Jul 26	0858	3.9	27.3	25.7	770
Jul 27	0842	36	20.2	25.2	2600
Jul 28	0913	3.0	22.1	25.1	140
Aug 01	0854	1.0	24.4	23.8	E53
Aug 02	0724	1.4	23.2	23.6	48
Aug 03	0847	1.0	26.2	25.6	110

## WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

[(63676), USGS National Water Information System parameter code; NTRU, Nephelometric Turbidity Ratio Units; deg C, degrees Celsius; *E. coli*, *Escherichia coli*; col/100 mL, colonies per 100 milliliters; E, estimated]

Date	Time	Turbidity (NTRU) (63676)	Temperature, air (deg C) (00020)	Temperature, water (deg C) (00010)	<i>E. coli</i> modified mTEC, water (col/100 mL) (90902)
412753082114200—LAKE ERIE AT LAKEVIEW BEACH EAST—Continued					
Aug 04	0906	2.8	23.7	25.3	400
Aug 08	0902	1.4	24.4	25.6	110
Aug 09	0844	1.7	25.6	25.0	190
Aug 10	0917	2.0	25.6	25.0	240
Aug 11	0857	12	26.7	26.1	2400
Aug 15	0853	2.1	22.9	25.2	250
Aug 16	0849	1.1	22.5	23.9	150
Aug 17	0856	0.7	22.5	23.9	190
Aug 18	0842	0.9	23.3	23.9	230

### Project Data—Stream-Sediment Data for Wright-Patterson Air Force Base

The following tables contain stream-sediment data for Wright-Patterson Air Force Base in southwestern Ohio. The data were collected to characterize the spatial extent of contamination of an unnamed receiving stream that has been attributed to runoff from the coal storage area for a heating plant. Streambed-material samples collected upstream and downstream from the heating plant were analyzed for the presence of coal-related trace-metal contaminants.



## STREAM-SEDIMENT-QUALITY DATA, MAY 2005

[00300), USGS National Water Information System parameter code;  $\mu\text{S}/\text{cm}$ , microsiemens per centimeter; deg C, degrees Celsius;  $\mu\text{g}/\text{g}$ , micrograms per gram]

Date	Time	Dis- solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif. conduc- tance, water, unf, $\mu\text{S}/\text{cm}$ 25 degC (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	Alum- inum, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01108)	Boron, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01023)	
394740084044500 — WPAFB unnamed tributary 50 ft upstream of outfall									
May 26	1000	10.3	8.0	1210	24.0	14.7	8900	16	
394740084044200 — WPAFB unnamed tributary 100 ft downstream of outfall									
May 26	1030	10.7	8.2	1210	24.0	14.7	10000	21	
394739084044100 — WPAFB unnamed tributary 200 ft downstream of outfall									
May 26	1050	10.2	8.2	1210	24.0	14.8	5200	23	
394738084043300 — WPAFB unnamed tributary 885 ft downstream of outfall									
May 26	1120	11.5	8.2	1240	24.0	14.7	9100	12	
394739084043800 — WPAFB unnamed tributary 500 ft downstream of outfall									
May 26	1135	10.9	8.2	1200	24.0	14.6	6100	16	
394736084042200 — WPAFB mouth of unnamed tributary									
May 26	1210	11.1	8.2	1220	24.0	14.5	6400	11	
Date		Cadmium, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01028)	Chrom- ium, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01029)	Cobalt, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01038)	Copper, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01043)	Iron, bed sediment, total, $\mu\text{g}/\text{g}$ (01170)	Lead, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01052)	Mangan- ese, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01053)	Zinc, bed sediment, recover- able, $\mu\text{g}/\text{g}$ (01093)
394740084044500 — WPAFB unnamed tributary 50 ft upstream of outfall									
May 26	1.1	20	4.6	38	11000	25	310	75	
394740084044200 — WPAFB unnamed tributary 100 ft downstream of outfall									
May 26	.840	20	10	38	12000	18	410	86	
394739084044100 — WPAFB unnamed tributary 200 ft downstream of outfall									
May 26	.570	10	8.6	24	5500	9.8	250	44	
394738084043300 — WPAFB unnamed tributary 885 ft downstream of outfall									
May 26	.580	15	12	29	12000	17	350	89	
394739084043800 — WPAFB unnamed tributary 500 ft downstream of outfall									
May 26	.610	15	15	26	12000	15	280	75	
394736084042200 — WPAFB mouth of unnamed tributary									
May 26	.380	19	9.4	19	11000	13	470	54	