

Surface-Water Records—Beaver River Basin

03091500 Mahoning River at Pricetown, Ohio

LOCATION.—Latitude 41°07'53", longitude 80°58'17", in T.2 N., R.5 W., Mahoning County, Hydrologic Unit 05030103, on left bank 0.3 mi downstream from Milton Dam, 0.5 mi southwest of Pricetown, Ohio, and 3 mi upstream from Kale Creek.

DRAINAGE AREA.—273 mi².

PERIOD OF RECORD.—July 1929 to current year.

REVISED RECORDS.—WSP 728: 1930(M). WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 905.00 ft, National Geodetic Vertical Datum of 1912. Prior to Aug. 14, 1929, nonrecording gage at same site and datum.

REMARKS.—Records good. Flow regulated by Berlin Lake beginning 1942 and Milton Reservoir 1923. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 6,770 ft³/s Jan. 25, 1937, gage height, 15.01 ft, from rating curve extended above 4,200 ft³/s on basis of velocity-area studies.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1310	129	635	921	1510	380	60	1210	173	143	151	153
2	1150	129	784	922	1550	380	69	861	173	143	151	152
3	1150	129	968	1090	570	384	64	583	173	143	151	152
4	791	129	961	1210	310	384	140	583	173	144	151	152
5	326	129	955	930	211	380	192	415	173	146	154	151
6	162	129	954	722	210	380	192	259	179	147	153	152
7	145	129	953	1070	210	380	368	259	183	147	152	153
8	145	129	1080	1500	215	383	486	259	183	147	153	154
9	145	129	1160	1480	216	385	489	188	183	148	152	156
10	145	129	1160	1460	482	386	489	140	183	149	152	157
11	145	129	1150	1470	853	383	492	138	183	149	153	158
12	145	128	1150	1520	971	383	313	138	183	149	152	152
13	145	127	1150	1360	971	383	198	138	181	151	153	145
14	145	127	1140	1680	795	282	198	142	166	151	153	143
15	69	127	881	1970	845	154	198	139	158	152	152	141
16	74	143	708	1940	965	114	198	208	124	153	151	140
17	129	154	655	1930	1080	114	198	428	102	153	151	135
18	129	154	613	1910	1150	114	165	583	102	154	152	131
19	129	154	612	1910	1150	114	143	583	103	156	152	131
20	129	154	409	1630	1150	114	143	421	112	156	154	129
21	129	299	259	1610	1150	114	143	277	127	157	153	127
22	129	421	256	1710	1150	114	143	277	136	156	152	127
23	129	419	264	1730	1040	114	143	215	136	154	152	128
24	129	390	512	2000	777	114	144	173	138	154	152	126
25	129	369	711	2230	484	114	336	173	138	154	153	123
26	129	520	709	2220	380	114	648	173	138	155	153	127
27	129	630	1000	2220	380	114	916	173	138	155	152	123
28	129	629	1200	2210	380	116	1140	173	139	153	152	118
29	131	626	1180	2200	---	96	1210	173	140	152	152	119
30	131	623	1020	2150	---	70	1210	173	142	152	153	118
31	130	---	921	1890	---	60	---	173	---	152	156	---
TOTAL	8132	7613	26110	50795	21155	7117	10828	9828	4562	4675	4723	4173
MEAN	262	254	842	1639	756	230	361	317	152	151	152	139
MAX	1310	630	1200	2230	1550	386	1210	1210	183	157	156	158
MIN	69	127	256	722	210	60	60	138	102	143	151	118
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-2005, BY WATER YEAR (WY)												
MEAN	229	228	284	306	329	350	299	293	287	245	256	278
MAX	855	891	987	1639	1211	1098	867	1324	983	979	904	1248
(WY)	1991	1986	1997	2005	1959	1956	1994	1996	1947	2003	1958	2004
MIN	61.8	37.9	28.3	47.0	31.4	11.1	10.0	21.5	37.0	41.6	92.9	77.2
(WY)	1943	1966	1966	1966	1967	1944	1944	1943	1971	1982	1942	1942
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1942-2005		
ANNUAL TOTAL				211102			159711					
ANNUAL MEAN				577			438			282		
HIGHEST ANNUAL MEAN										591		
LOWEST ANNUAL MEAN										131		
HIGHEST DAILY MEAN				2170	May 25		2230	Jan 25		3370	Jun 10	1947
LOWEST DAILY MEAN				52	Mar 21		60	Mar 31		0.40	Nov 9	1941
ANNUAL SEVEN-DAY MINIMUM				75	Mar 15		76	Mar 28		0.94	Feb 24	1945
MAXIMUM PEAK FLOW							2230	Jan 24		4120	Apr 10	1942
MAXIMUM PEAK STAGE							7.34	Jan 24		10.62	Apr 10	1942
INSTANTANEOUS LOW FLOW							25	Oct 15		0.40	Nov 9	1941
10 PERCENT EXCEEDS				1550			1150			698		
50 PERCENT EXCEEDS				322			157			175		
90 PERCENT EXCEEDS				127			127			62		

03093000 Eagle Creek at Phalanx Station, Ohio

LOCATION.—Latitude 41°15'40", longitude 80°57'16", Trumbull County, Hydrologic Unit 05030103, on right bank 75 ft downstream from county road bridge, 1 mi north of Phalanx Station, Ohio, 2 mi downstream from Tinkers Creek, and 4 mi upstream from mouth.

DRAINAGE AREA.—97.6 mi².

PERIOD OF RECORD.—June 1926 to September 1934, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.—WSP 953: 1938-41. WSP 1385: 1927-30, 1931-32(M), 1934, 1938-41(P). WSP 1555: 1928(M), 1929. WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 887.14 ft, above sea level (levels by Mahoning Valley Sanitary District). Prior to Sept. 14, 1929, nonrecording gage at same site and datum; Sept. 14, 1929-Sept. 30, 1977, at same site and datum 0.28 ft higher.

REMARKS.—Records fair except for periods of estimated record, which are poor. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	105	508	1750	e59	164	78	253	42	33	16	243
2	25	83	923	674	e58	146	592	154	39	22	15	52
3	26	199	359	702	e57	146	1850	129	38	19	14	32
4	26	209	212	1720	e57	180	963	116	37	17	14	25
5	25	340	151	1200	e56	124	630	100	36	17	20	22
6	24	249	128	1410	e65	134	307	82	35	17	29	21
7	23	144	192	1860	103	487	184	74	37	17	17	20
8	23	108	481	766	451	972	140	69	33	16	15	19
9	23	74	405	821	1250	e600	117	63	31	16	14	19
10	24	64	335	494	745	e370	104	59	29	15	14	19
11	24	54	302	448	e450	e150	86	61	32	15	14	18
12	25	50	243	1340	e150	125	75	61	32	14	14	18
13	27	44	265	2140	147	119	68	54	28	14	13	17
14	39	40	250	1220	205	102	63	274	28	14	14	17
15	51	37	186	827	737	107	59	585	37	16	16	17
16	55	38	152	295	537	118	55	210	36	18	15	18
17	64	38	144	191	586	138	53	109	37	17	14	20
18	55	51	126	156	290	e170	51	76	31	17	13	21
19	146	60	126	136	188	200	51	63	28	45	12	21
20	137	84	115	132	141	344	53	64	25	36	13	19
21	87	139	109	118	300	453	183	64	24	23	31	17
22	68	95	87	107	678	235	105	54	24	31	23	17
23	67	65	427	e94	489	164	448	53	25	42	16	21
24	119	60	1060	e87	296	190	767	75	21	23	14	26
25	185	226	e1400	e80	184	160	846	62	20	20	13	20
26	121	270	e900	e75	149	130	906	53	20	19	13	107
27	103	137	e600	e70	117	116	601	49	19	46	12	253
28	100	123	e450	e66	121	115	339	48	19	60	15	60
29	92	135	e350	e64	---	143	212	50	22	32	15	49
30	118	101	257	e62	---	114	189	47	33	22	16	70
31	130	---	716	e60	---	95	---	46	---	18	321	---
TOTAL	2058	3422	11959	19165	8666	6811	10175	3257	898	731	795	1298
MEAN	66.4	114	386	618	310	220	339	105	29.9	23.6	25.6	43.3
MAX	185	340	1400	2140	1250	972	1850	585	42	60	321	253
MIN	23	37	87	60	56	95	51	46	19	14	12	17
CFSM	0.68	1.17	3.95	6.33	3.17	2.25	3.48	1.08	0.31	0.24	0.26	0.44
IN.	0.78	1.30	4.56	7.30	3.30	2.60	3.88	1.24	0.34	0.28	0.30	0.49
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926-2005, BY WATER YEAR (WY)												
MEAN	46.3	85.4	141	167	198	234	202	127	73.8	52.7	31.9	43.0
MAX	338	458	511	618	469	436	550	359	330	452	172	409
(WY)	1927	1986	1991	2005	1981	1963	1957	1984	1989	2003	1956	1926
MIN	8.31	12.3	18.5	26.3	10.3	68.6	37.1	10.6	10.5	8.09	7.16	7.14
(WY)	1964	1954	1964	1961	1934	1931	1946	1934	1933	1934	1962	1964
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1926-2005		
ANNUAL TOTAL				70048			69235					
ANNUAL MEAN				191			190			116		
HIGHEST ANNUAL MEAN										190		
LOWEST ANNUAL MEAN										34.3		
HIGHEST DAILY MEAN				2080			2140			5500		
LOWEST DAILY MEAN				18			12			0.90		
ANNUAL SEVEN-DAY MINIMUM				21			14			4.1		
MAXIMUM PEAK FLOW							2640			8150		
MAXIMUM PEAK STAGE							12.35			13.71		
INSTANTANEOUS LOW FLOW							Jan 13			0.90		
ANNUAL RUNOFF (CFSM)				1.96			1.94			1.19		
ANNUAL RUNOFF (INCHES)				26.70			26.39			16.15		
10 PERCENT EXCEEDS				466			520			264		
50 PERCENT EXCEEDS				114			68			45		
90 PERCENT EXCEEDS				25			17			14		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03094000 Mahoning River at Leavittsburg, Ohio

LOCATION.—Latitude 41°14'21", longitude 80°52'51", in T.4 N., R.4 W., Trumbull County, Hydrologic Unit 05030103, on right bank at upstream side of Leavitt Road Bridge at Leavittsburg, Ohio, 300 ft downstream from Duck Creek, and 1.2 mi downstream from Eagle Creek.

DRAINAGE AREA.—575 mi².

PERIOD OF RECORD.—October 1940 to current year. Prior to June 1941 monthly discharge only, published in WSP 1305.

REVISED RECORDS.—WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 871.25 ft, National Geodetic Vertical Datum of 1912. Prior to July 2, 1941, nonrecording gage;

July 2, 1941-July 22, 1952, water-stage recorder, at site 50 ft downstream at same datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Flow regulated by Berlin Lake, 25 mi upstream, beginning in 1942, by Milton Reservoir, 17 mi upstream, and by Michael J. Kirwan Reservoir, 20 mi upstream on West Branch, beginning in 1966. Diversion upstream from station from Berlin Lake for part of municipal supply of Mahoning Valley Sanitary District (see station 03090500). Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 20,300 ft³/s Jan. 22, 1959, gage height, 19.37 ft; minimum daily, 60 ft³/s July 6, 1952.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 26, 1913 reached a stage of about 24 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1680	276	1640	3540	1820	788	311	1860	314	335	292	874
2	1350	265	2400	2550	1210	800	1230	1700	308	320	297	395
3	1300	303	1770	2450	953	720	4120	1170	303	309	294	312
4	1250	370	1390	4610	768	679	2960	1020	301	306	292	287
5	763	465	1290	4540	549	683	1690	899	299	309	342	276
6	449	475	1250	4750	538	720	1130	586	305	325	368	271
7	307	355	1290	5150	576	1260	840	499	312	312	321	273
8	281	307	1680	3880	1170	1830	922	481	307	306	303	274
9	256	284	1890	4140	2490	1480	868	462	303	303	298	273
10	240	271	1870	3370	2100	800	753	368	303	300	294	270
11	238	264	1820	3020	1550	730	714	349	302	300	294	270
12	237	259	1630	4660	1520	673	677	345	303	298	294	270
13	238	255	e1400	6420	1480	655	458	326	300	303	295	260
14	242	248	e1300	4950	1530	614	401	870	304	309	303	243
15	240	246	e1150	4240	2240	479	388	1560	342	306	302	250
16	173	247	1120	3330	2510	400	379	987	334	330	299	261
17	211	261	1060	2970	2670	420	374	753	271	289	283	262
18	239	271	941	2820	2270	442	368	922	257	277	284	261
19	293	279	920	2760	1910	473	317	917	259	381	286	261
20	318	328	812	2620	1660	620	301	889	272	380	298	258
21	280	414	528	2190	1870	938	376	600	285	318	358	254
22	259	556	461	2230	2620	673	435	542	308	303	350	253
23	247	544	1140	2260	2240	517	705	532	310	343	304	257
24	275	541	2600	2290	1640	599	1460	480	311	333	292	257
25	297	742	2430	2600	1120	569	1730	432	314	318	292	254
26	285	845	1960	2730	814	479	2070	402	306	314	290	407
27	265	839	e1670	2740	722	428	2140	361	306	427	289	658
28	250	812	e1600	2710	699	435	1980	333	307	480	294	362
29	248	830	e1580	2530	---	578	1760	329	307	340	292	291
30	288	784	1580	2430	---	439	1720	327	324	293	308	326
31	305	---	2380	2340	---	351	---	322	---	280	803	---
TOTAL	13304	12936	46552	103820	43239	21272	33577	21623	9077	10047	9911	9420
MEAN	429	431	1502	3349	1544	686	1119	698	303	324	320	314
MAX	1680	845	2600	6420	2670	1830	4120	1860	342	480	803	874
MIN	173	246	461	2190	538	351	301	322	257	277	283	243

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967-2005, BY WATER YEAR (WY)

MEAN	442	570	832	825	819	907	875	727	575	453	395	520
MAX	1575	2077	2010	3349	2262	1909	2089	2267	2116	2398	1246	2039
(WY)	1991	1986	1978	2005	1990	1993	1994	1996	1989	2003	2003	2004
MIN	145	139	156	171	226	212	243	261	253	237	236	227
(WY)	1967	1992	1992	1992	1992	1969	1986	1992	1988	1988	1967	1967

SUMMARY STATISTICS			FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1967-2005		
ANNUAL TOTAL			404874			334778					
ANNUAL MEAN			1106			917			661		
HIGHEST ANNUAL MEAN									1174		2004
LOWEST ANNUAL MEAN									367		1988
HIGHEST DAILY MEAN			6610	May 23		6420	Jan 13		9580	Jul 23	2003
LOWEST DAILY MEAN			173	Oct 16		173	Oct 16		106	Oct 30	1966
ANNUAL SEVEN-DAY MINIMUM			226	Oct 11		226	Oct 11		116	Oct 26	1966
MAXIMUM PEAK FLOW						6750	Jan 13		11600	Jul 23	2003
MAXIMUM PEAK STAGE						13.39	Jan 13		17.16	Jul 23	2003
INSTANTANEOUS LOW FLOW									106	Oct 30	1966
10 PERCENT EXCEEDS			2320			2360			1550		
50 PERCENT EXCEEDS			826			420			359		
90 PERCENT EXCEEDS			286			265			212		

e Estimated.

03097550 Mahoning River at Ohio Edison Power Plant at Niles, Ohio

LOCATION.—Latitude 41°10'21", longitude 80°45'26", Trumbull County, Hydrologic Unit 05030103, on right bank 20 ft downstream from Conrail Spur Line, 100 ft downstream from Meander Creek, 0.2 mi upstream from Belmont Road, 0.4 mi. downstream from Mosquito Creek in Niles, Ohio.

DRAINAGE AREA.—854 mi².

PERIOD OF RECORD.—October 1987 to current year.

GAGE.—Water-stage recorder. Datum of gage is 843.08 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Water diverted upstream from station for municipal supply for cities of Niles, Warren, and Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 37 mi upstream, beginning in 1942, by Milton Reservoir, 29 mi upstream, by Michael J. Kirwan Reservoir, 32 mi upstream on West Branch, beginning in 1966 by Mosquito Creek Lake, 11 mi upstream, beginning in 1943, by Meander Creek Reservoir. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2320	360	e2330	3790	2380	1100	433	2720	373	434	335	1300
2	2040	e357	3130	3410	1730	1110	2540	2440	346	379	365	693
3	1960	450	2440	3140	1370	1000	5710	1780	336	342	370	412
4	1930	552	1780	5640	1160	917	5240	1330	327	332	366	349
5	1440	682	1520	6150	889	911	3080	1100	315	357	e700	323
6	1160	712	1420	7450	761	959	1960	753	329	451	e640	309
7	1090	536	1520	6920	800	1620	1350	599	329	406	e570	319
8	1040	427	2120	5280	1860	2580	1310	578	325	385	e540	342
9	1010	385	2370	5300	3480	2240	1230	562	349	375	e460	343
10	986	362	2530	4420	3150	1220	1130	473	314	371	391	317
11	980	347	2440	3890	2190	1000	1090	430	311	357	389	313
12	976	343	2100	6260	1990	880	1060	406	312	349	381	314
13	1040	341	2000	7970	1940	820	842	381	308	337	380	319
14	1050	335	1940	7300	2030	754	723	e900	406	396	433	306
15	987	329	1790	5150	2950	618	675	e1800	543	424	395	304
16	716	329	1410	4130	3300	524	582	e1200	445	513	351	336
17	504	343	1250	3570	3550	526	559	e1120	373	429	336	344
18	438	366	1150	3320	3060	569	548	e1090	324	380	326	336
19	512	378	1100	3280	2520	612	448	1030	311	535	350	315
20	515	457	1080	3200	2240	877	372	1010	317	565	376	303
21	440	546	805	2860	2600	1420	452	756	329	441	497	299
22	373	648	648	2760	3440	1130	570	612	338	378	460	302
23	346	676	2000	2800	3090	832	1260	634	345	380	403	369
24	444	683	3810	2780	2400	1080	2520	616	344	417	351	333
25	431	967	2990	2990	1790	1020	3240	516	346	388	e344	318
26	400	1130	2390	3130	1370	784	3150	452	339	374	338	700
27	348	1030	1710	3130	1180	660	3470	409	342	727	339	1020
28	328	1050	1690	3090	1050	670	3010	416	e330	838	378	674
29	350	1050	1750	3000	---	915	2520	387	e335	545	350	520
30	368	1030	1910	2880	---	739	2520	410	e340	378	370	467
31	400	---	2860	2760	---	566	---	506	---	337	1200	---
TOTAL	26922	17201	59983	131750	60270	30653	53594	27416	10381	13320	13484	12899
MEAN	868	573	1935	4250	2152	989	1786	884	346	430	435	430
MAX	2320	1130	3810	7970	3550	2580	5710	2720	543	838	1200	1300
MIN	328	329	648	2760	761	524	372	381	308	332	326	299
MED	716	454	1910	3410	2110	911	1250	616	336	385	378	334
CFSM	1.02	0.67	2.27	4.98	2.52	1.16	2.09	1.04	0.41	0.50	0.51	0.50
IN.	1.17	0.75	2.61	5.74	2.63	1.34	2.33	1.19	0.45	0.58	0.59	0.56
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988-2005, BY WATER YEAR (WY)												
MEAN	609	687	1002	1346	1215	1140	1274	1104	947	748	601	724
MAX	2074	1935	2736	4250	2853	2881	2946	3113	3117	3176	1545	2640
(WY)	1991	1993	1997	2005	1990	1993	1994	1996	1989	2003	2003	2004
MIN	247	212	272	268	333	421	540	293	293	370	392	326
(WY)	1989	1992	1992	1992	1992	2000	1988	1992	1992	1988	2001	2001
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1988-2005		
ANNUAL TOTAL				564297			457873					
ANNUAL MEAN				1542			1254			948		
HIGHEST ANNUAL MEAN										1637		
LOWEST ANNUAL MEAN										546		
HIGHEST DAILY MEAN				8600	May 23		7970	Jan 13		12600	Jul 23	2003
LOWEST DAILY MEAN				328	Oct 28		299	Sep 21		183	Feb 9	1992
ANNUAL SEVEN-DAY MINIMUM				338	Nov 11		316	Sep 10		196	Feb 9	1992
MAXIMUM PEAK FLOW							8260	Jan 6		13000	Jul 23	2003
MAXIMUM PEAK STAGE							11.59	Jan 6		15.42	Jul 23	2003
INSTANTANEOUS LOW FLOW										183	Feb 9	1992
ANNUAL RUNOFF (CFSM)				1.81			1.47			1.11		
ANNUAL RUNOFF (INCHES)				24.58			19.94			15.09		
10 PERCENT EXCEEDS				2920			3080			2310		
50 PERCENT EXCEEDS				1180			674			498		
90 PERCENT EXCEEDS				406			335			286		

e Estimated.

03098600 Mahoning River below West Avenue at Youngstown, Ohio

LOCATION.—Latitude 41°06'18", longitude 80°39'46", Mahoning County, Hydrologic Unit 05030103, on left bank 200 ft below West Avenue Bridge, 0.4 mi upstream from Spring Common Bridge, 0.6 mi downstream from Mill Creek, in Youngstown, Ohio.

DRAINAGE AREA.—978 mi².

PERIOD OF RECORD.—October 1987 to current year.

GAGE.—Water-stage recorder. Datum of gage is 824.10 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are fair. Water diverted upstream from station for municipal supply for city of Youngstown. Some sewage returned to river upstream from station. Water also diverted upstream and downstream from station by a private company for industrial use, some of which is returned to river upstream from station. Flow regulated by Berlin Lake, 49 mi upstream, beginning in 1942; by Milton Reservoir, 41 mi upstream; by Michael J. Kirwan Reservoir, 44 mi upstream on West Branch, beginning in 1966; by Mosquito Creek Lake, 23 mi upstream, beginning in 1943; by Meander Creek Reservoir, 12 mi upstream, beginning in 1929; and by reservoir on Squaw Creek, 6 mi upstream, and 2 small reservoirs on Mill Creek, 0.6 mi upstream. U.S. Army Corps of Engineers satellite telemeter at station. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2480	518	3120	4630	e3000	1370	661	3190	488	521	422	1600
2	2240	490	4010	4240	e2200	1370	4460	2840	438	448	453	831
3	2080	676	3030	4440	e1700	1240	8380	2110	420	396	451	507
4	2070	823	2100	8370	e1300	1150	7890	1610	413	393	445	412
5	1700	1000	1770	9270	e1000	1140	4500	1340	402	465	807	374
6	1300	992	1660	12100	e820	1210	2570	999	428	585	650	348
7	1220	756	1840	10200	e840	2160	1760	795	421	506	559	362
8	1150	593	2570	7990	e900	3410	1620	765	410	472	502	381
9	1110	515	2890	7420	e2000	2770	1520	733	430	458	478	378
10	1080	478	3310	5870	e5000	1520	1380	638	396	448	450	342
11	1070	451	3090	5160	e3000	1240	1320	591	460	441	445	335
12	1060	449	2560	9660	2330	1130	1270	547	467	432	436	334
13	1130	431	2410	11300	2260	1040	1080	509	414	415	428	328
14	1260	417	2280	10800	2580	967	934	2080	465	473	535	308
15	1160	407	2090	7170	3920	824	878	3010	648	472	456	306
16	919	403	1690	5380	4360	732	776	1980	526	622	411	384
17	647	420	1490	4390	4530	730	734	1270	465	523	390	375
18	511	487	1390	3960	3710	784	723	1220	372	467	372	349
19	751	489	1320	e3900	2930	828	637	1220	349	734	402	322
20	661	645	1280	e3800	2580	1200	552	1200	359	653	564	315
21	581	e700	1010	e3750	3320	1800	663	981	378	525	680	306
22	494	887	837	e3550	4320	1460	811	786	399	460	534	307
23	438	869	3430	e3550	3770	1220	1940	841	406	459	452	443
24	619	890	5220	e3600	2850	1530	3450	848	410	489	396	351
25	605	1370	3780	e3700	2120	1390	4390	691	401	466	388	322
26	562	1450	2890	e4000	1660	1110	4020	577	390	461	385	1340
27	478	1250	2030	e4700	1430	938	4760	506	387	1050	404	1230
28	434	1340	1930	e4800	1290	1030	3790	509	403	949	446	759
29	446	1320	2030	e4600	---	1260	2980	519	426	643	407	748
30	549	1200	2230	e4400	---	1050	3010	479	490	481	683	585
31	600	---	3340	e4200	---	816	---	631	---	432	2200	---
TOTAL	31405	22716	74627	184900	71720	40419	73459	36015	12861	16339	16631	15282
MEAN	1013	757	2407	5965	2561	1304	2449	1162	429	527	536	509
MAX	2480	1450	5220	12100	5000	3410	8380	3190	648	1050	2200	1600
MIN	434	403	837	3550	820	730	552	479	349	393	372	306
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988-2005, BY WATER YEAR (WY)												
MEAN	683	778	1167	1640	1395	1355	1559	1305	1101	902	689	859
MAX	2303	2117	3184	5965	3323	3456	3502	3639	3693	4041	1916	3436
(WY)	1991	1993	1997	2005	1990	1993	1994	1996	1989	2003	2003	2004
MIN	264	222	312	302	432	517	684	437	377	430	419	346
(WY)	1992	1992	1992	1992	1992	2000	1995	1992	1988	1988	1991	1991
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1988-2005		
ANNUAL TOTAL				676620			596374					
ANNUAL MEAN				1849			1634			1118		
HIGHEST ANNUAL MEAN										1903		
LOWEST ANNUAL MEAN										643		
HIGHEST DAILY MEAN				12500	May 22		12100	Jan 6		15600	Jul 23	2003
LOWEST DAILY MEAN				403	Nov 16		306	Sep 15		181	Oct 17	1988
ANNUAL SEVEN-DAY MINIMUM				425	Nov 11		333	Sep 9		202	Nov 24	1991
MAXIMUM PEAK FLOW							12800	Jan 6		15800	Jul 23	2003
MAXIMUM PEAK STAGE							14.05	Jan 6		17.49	Jul 23	2003
INSTANTANEOUS LOW FLOW										181	Oct 17	1988
10 PERCENT EXCEEDS				3320			3980			2610		
50 PERCENT EXCEEDS				1340			841			581		
90 PERCENT EXCEEDS				507			402			336		

e Estimated.

Surface-Water Records—Little Beaver Creek Basin

03109500 Little Beaver Creek near East Liverpool, Ohio

LOCATION.—Latitude 40°40'33", longitude 80°32'27", Columbiana County, Hydrologic Unit 05030101, on right bank at downstream side of Grimms Bridge, 1.5 mi upstream from Island Run, 4 mi upstream from mouth, and 4 mi northeast of East Liverpool, Ohio.

DRAINAGE AREA.—496 mi².

PERIOD OF RECORD.—May 1915 to current year.

REVISED RECORDS.—WSP 873: 1937(M). WSP 1305: 1916-18(M), 1921-22(M), 1924-30(M), 1933(M), 1936(M). WSP 1907: 1950(P), drainage area.

GAGE.—Water-stage recorder. Datum of gage is 702.77 ft, National Geodetic Vertical Datum of 1912. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAUER MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	398	503	3170	950	e485	720	555	1350	303	247	87	582	
2	381	458	2850	761	471	658	3530	987	273	158	80	251	
3	369	542	1580	1320	466	572	4800	834	261	126	73	158	
4	349	570	1150	3630	438	532	3430	732	253	113	68	121	
5	324	710	947	3840	428	556	2550	647	241	195	78	102	
6	309	620	830	10100	448	583	1680	593	225	531	116	90	
7	288	521	934	6140	531	1060	1310	556	214	342	100	82	
8	277	460	1490	3470	1250	2080	1100	516	196	203	85	77	
9	267	406	1190	2940	2020	1220	906	474	184	155	80	79	
10	259	373	2510	2040	1710	900	783	449	184	133	72	74	
11	254	359	1880	2390	1060	823	699	430	480	120	68	72	
12	248	391	1420	6110	861	772	628	505	366	111	62	68	
13	256	383	1270	5040	796	706	580	421	259	105	60	65	
14	474	342	1070	4360	1350	627	530	1110	215	106	59	62	
15	474	319	901	3000	3050	602	488	1100	193	99	64	60	
16	482	328	810	2010	1870	592	452	726	179	145	76	75	
17	402	342	735	1610	1520	581	428	552	177	135	76	104	
18	345	389	679	e1250	1100	569	411	471	169	122	65	81	
19	876	454	685	e1100	840	548	398	421	159	113	61	71	
20	652	665	585	e980	768	599	404	445	149	103	58	66	
21	483	630	592	e880	927	708	639	425	140	91	67	63	
22	413	549	589	838	1030	596	523	372	133	82	71	58	
23	376	508	2100	e750	847	599	1300	416	126	80	64	77	
24	492	527	2800	e720	754	906	1900	627	121	76	55	109	
25	526	1090	1390	e680	676	773	2070	466	129	78	53	91	
26	434	1080	1070	e630	650	695	1620	382	133	74	52	212	
27	387	766	856	e580	607	634	2310	339	128	326	57	466	
28	361	1010	774	568	621	690	1770	376	118	229	61	215	
29	423	1020	727	e540	---	904	1260	438	289	145	66	e211	
30	834	814	729	e530	---	697	1320	367	154	112	76	275	
31	641	---	851	e505	---	614	---	345	---	96	1060	---	
TOTAL	13054	17129	39164	70262	27574	23116	40374	17872	6151	4751	3170	4117	
MEAN	421	571	1263	2267	985	746	1346	577	205	153	102	137	
MAX	876	1090	3170	10100	3050	2080	4800	1350	480	531	1060	582	
MIN	248	319	585	505	428	532	398	339	118	74	52	58	
MED	387	515	947	1250	818	658	1000	471	184	120	68	82	
CFSM	0.85	1.15	2.55	4.57	1.99	1.50	2.71	1.16	0.41	0.31	0.21	0.28	
IN.	0.98	1.28	2.94	5.27	2.07	1.73	3.03	1.34	0.46	0.36	0.24	0.31	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916-2005, BY WATER YEAR (WY)													
MEAN	182	326	548	729	850	1100	922	661	398	262	188	175	
MAX	1380	2102	2012	3993	1957	2493	2187	1876	1784	1554	1567	2156	
(WY)	1955	1986	1991	1937	1956	1945	1940	1929	1989	1990	1980	2004	
MIN	25.7	38.2	50.7	63.9	50.8	241	202	79.9	40.8	29.6	22.0	17.4	
(WY)	1964	1931	1931	1931	1934	1969	1946	1934	1934	1930	1930	1932	
SUMMARY STATISTICS													
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1916-2005	
ANNUAL TOTAL				375655				266734					
ANNUAL MEAN				1026				731				527	
HIGHEST ANNUAL MEAN												1047	
LOWEST ANNUAL MEAN												207	
HIGHEST DAILY MEAN				16800				10100				18900	
LOWEST DAILY MEAN				133				52				12	
ANNUAL SEVEN-DAY MINIMUM				159				58				12	
MAXIMUM PEAK FLOW								11800				25000	
MAXIMUM PEAK STAGE								12.42				17.40	
INSTANTANEOUS LOW FLOW								51				12	
ANNUAL RUNOFF (CFSM)				2.07				1.47				1.06	
ANNUAL RUNOFF (INCHES)				28.17				20.01				14.43	
10 PERCENT EXCEEDS				1840				1540				1240	
50 PERCENT EXCEEDS				660				482				254	
90 PERCENT EXCEEDS				265				77				52	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Yellow Creek Basin

03110000 Yellow Creek near Hammondsville, Ohio

LOCATION.—Latitude 40°32'16", longitude 80°43'31", in sec. 29, T.8 N., R.2 W., Jefferson County, Hydrologic Unit 05030101, on right bank 1,000 ft upstream from Lowery Run, 0.9 mi upstream from Brush Creek and 1.6 mi southwest of Hammondsville, Ohio.

DRAINAGE AREA.—147 mi².

PERIOD OF RECORD.—October 1940 to current year.

REVISED RECORDS.—WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 692.10 ft above sea level (Ohio State Highway Department benchmark).

REMARKS.—Records excellent except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	144	1370	208	e123	247	272	448	81	43	12	170
2	76	131	1050	171	e118	212	1520	324	74	28	11	75
3	73	199	680	276	116	185	1620	273	68	22	e9.4	49
4	68	211	483	1130	112	178	973	230	66	19	e8.8	37
5	65	265	368	1350	110	192	661	196	63	50	10	29
6	61	221	290	5080	117	197	508	191	59	83	13	25
7	61	199	276	2070	138	292	406	188	57	47	17	21
8	60	187	286	1080	326	471	343	173	53	33	21	18
9	58	159	243	767	514	358	277	152	47	27	41	17
10	58	143	546	593	488	300	247	139	46	23	21	16
11	58	133	456	746	341	274	210	130	45	20	15	15
12	55	148	387	2010	289	251	190	179	50	18	12	14
13	56	136	341	1210	251	220	173	139	46	17	e10	13
14	66	126	277	1410	437	193	155	207	42	20	e9.1	12
15	67	109	233	894	905	174	141	273	45	36	e8.4	11
16	67	103	209	641	616	169	152	199	43	35	e9.5	16
17	68	98	205	488	474	161	129	162	44	28	9.4	34
18	65	102	183	383	363	156	115	137	39	30	10	22
19	320	120	195	e344	284	148	114	123	34	28	9.6	16
20	173	251	157	e300	259	154	115	123	31	27	8.7	14
21	119	222	180	e270	319	145	207	117	34	20	23	13
22	96	193	162	e245	298	131	202	101	33	17	25	12
23	84	187	749	e220	256	148	486	100	29	15	14	13
24	114	191	763	e200	236	189	697	135	25	14	11	13
25	126	434	447	e185	223	176	762	110	23	13	9.1	16
26	102	399	340	e170	208	182	613	92	21	13	8.8	30
27	91	320	265	e157	189	176	1010	82	20	37	9.4	75
28	85	404	231	e149	205	275	691	90	23	38	26	41
29	88	364	216	e142	---	526	488	143	28	24	29	41
30	195	310	207	e135	---	404	519	101	35	17	90	44
31	185	---	209	e128	---	336	---	91	---	14	406	---
TOTAL	2943	6209	12004	23152	8315	7220	13996	5148	1304	856	917.2	922
MEAN	94.9	207	387	747	297	233	467	166	43.5	27.6	29.6	30.7
MAX	320	434	1370	5080	905	526	1620	448	81	83	406	170
MIN	55	98	157	128	110	131	114	82	20	13	8.4	11
CFSM	0.65	1.41	2.63	5.08	2.02	1.58	3.17	1.13	0.30	0.30	0.20	0.21
IN.	0.74	1.57	3.04	5.86	2.10	1.83	3.54	1.30	0.33	0.22	0.22	0.23
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941-2005, BY WATER YEAR (WY)												
MEAN	48.0	95.7	174	228	271	340	303	215	121	65.1	51.8	51.6
MAX	242	611	879	747	649	848	627	538	588	266	492	795
(WY)	1991	1986	1991	2005	1956	1945	1948	1956	1989	1958	1980	2004
MIN	4.92	5.08	10.8	20.8	23.6	55.1	75.9	40.0	10.1	6.12	3.95	2.26
(WY)	1954	1992	1964	1977	1954	1969	1941	1988	1988	1965	1962	1999
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1941-2005		
ANNUAL TOTAL				122209			82986.2					
ANNUAL MEAN				334			227			164		
HIGHEST ANNUAL MEAN										333		
LOWEST ANNUAL MEAN										73.9		
HIGHEST DAILY MEAN				7820			5080			7820		
LOWEST DAILY MEAN				39			8.4			0.80		
ANNUAL SEVEN-DAY MINIMUM				56			9.2			0.80		
MAXIMUM PEAK FLOW							6120			10500		
MAXIMUM PEAK STAGE							10.02			12.98		
INSTANTANEOUS LOW FLOW										0.80		
ANNUAL RUNOFF (CFSM)				2.27			1.55			1.11		
ANNUAL RUNOFF (INCHES)				30.93			21.00			15.13		
10 PERCENT EXCEEDS				627			488			389		
50 PERCENT EXCEEDS				198			137			78		
90 PERCENT EXCEEDS				71			16			11		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Short Creek Basin

03111500 Short Creek near Dillonvale, Ohio

LOCATION.—Latitude 40°11'36", longitude 80°44'04", in sec. 30, T.4 N., R.2 W., Jefferson County, Hydrologic Unit 05030106, on right bank 350 ft downstream from bridge on State Highway 150, 2.1 mi east of Dillonvale, Ohio, 2.2 mi downstream from Jug Run, and 2.9 mi upstream from Little Short Creek.

DRAINAGE AREA.—123 mi².

PERIOD OF RECORD.—October 1941 to current year.

REVISED RECORDS.—WSP 1003: 1942-43. WSP 1907: Drainage area. WDR-OH-82-1: 1981.

GAGE.—Water-stage recorder. Datum of gage is 675.1 ft above sea level (State of Ohio benchmark). Prior to Oct. 21, 1982, at datum 1.00 ft higher; prior to Oct. 21, 1941, nonrecording gage at same site at 676.1 ft datum.

REMARKS.—Record good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station. Water year 1986 streamflow records published in water year 1987 report.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAILY MEAN VALUES													
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	164	184	1130	189	e197	262	273	264	124	66	32	163	
2	157	170	522	175	196	227	1650	226	116	53	30	83	
3	151	196	377	435	198	206	905	204	114	49	30	60	
4	144	198	306	713	198	194	572	189	112	47	29	49	
5	137	212	268	1830	198	201	433	177	106	50	32	42	
6	135	181	245	3730	208	241	370	170	104	62	50	38	
7	130	165	308	1150	233	302	330	164	106	54	36	36	
8	128	155	329	967	345	453	299	157	96	50	33	35	
9	126	144	292	684	368	294	266	148	92	47	32	34	
10	124	136	529	555	395	256	245	144	90	44	31	33	
11	122	133	359	788	283	250	226	154	88	41	28	32	
12	118	167	305	1610	260	244	211	242	88	39	27	31	
13	121	151	276	737	241	229	200	167	84	39	26	29	
14	126	136	247	1090	496	206	187	494	82	189	25	29	
15	125	130	223	640	611	196	179	344	94	82	26	28	
16	124	128	209	538	397	186	172	230	85	73	29	32	
17	117	127	203	469	322	177	166	191	82	60	31	33	
18	129	139	193	398	263	169	163	170	72	66	28	31	
19	381	311	191	396	231	162	157	159	68	69	27	30	
20	185	327	168	370	228	177	157	235	65	55	27	29	
21	151	249	202	e330	325	163	208	220	63	47	29	29	
22	136	216	181	e300	273	155	172	179	62	45	27	28	
23	128	204	634	e270	238	301	415	178	61	45	24	29	
24	152	223	404	e258	227	326	386	219	56	40	24	30	
25	137	311	259	e244	228	250	401	176	54	42	24	29	
26	127	249	235	e232	208	225	290	156	54	51	25	34	
27	121	221	208	e220	196	209	585	144	52	43	34	53	
28	118	314	202	e213	219	513	338	156	53	40	41	38	
29	224	264	195	e207	---	837	273	153	56	38	68	58	
30	390	237	192	e202	---	399	299	135	60	35	90	51	
31	237	---	196	e200	---	317	---	136	---	32	537	---	
TOTAL	4865	5978	9588	20140	7782	8327	10528	6081	2439	1693	1532	1256	
MEAN	157	199	309	650	278	269	351	196	81.3	54.6	49.4	41.9	
MAX	390	327	1130	3730	611	837	1650	494	124	189	537	163	
MIN	117	127	168	175	196	155	157	135	52	32	24	28	
CFSM	1.28	1.62	2.51	5.28	2.26	2.18	2.85	1.59	0.66	0.44	0.40	0.34	
IN.	1.47	1.81	2.90	6.09	2.35	2.52	3.18	1.84	0.74	0.51	0.46	0.38	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-2005, BY WATER YEAR (WY)													
MEAN	54.2	77.5	119	168	202	242	223	173	116	76.7	64.0	59.8	
MAX	195	515	414	650	459	725	488	391	422	331	610	618	
(WY)	1955	1986	1991	2005	1975	1945	1961	1967	1989	1990	1980	2004	
MIN	13.8	13.8	12.1	20.9	24.8	54.7	69.3	51.4	28.1	17.4	11.5	8.62	
(WY)	1954	1954	1944	1967	1954	1969	1946	1976	1988	1954	1945	1947	
SUMMARY STATISTICS													
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1942-2005	
ANNUAL TOTAL				98178				80209					
ANNUAL MEAN				268				220				131	
HIGHEST ANNUAL MEAN												257	
LOWEST ANNUAL MEAN												46.1	
HIGHEST DAILY MEAN				3770 Jan 4				3730 Jan 6				3770 Jan 4	
LOWEST DAILY MEAN				48 Aug 18				24 Aug 23				2.8 Sep 21	
ANNUAL SEVEN-DAY MINIMUM				58 Aug 12				26 Aug 20				4.9 Dec 14	
MAXIMUM PEAK FLOW								4780 Jan 6a				9110 Sep 17	
MAXIMUM PEAK STAGE								10.04 Jan 6				12.65 Sep 17	
INSTANTANEOUS LOW FLOW												2.8 Sep 21	
ANNUAL RUNOFF (CFSM)				2.18				1.79				1.06	
ANNUAL RUNOFF (INCHES)				29.69				24.26				14.46	
10 PERCENT EXCEEDS				400				397				270	
50 PERCENT EXCEEDS				181				170				80	
90 PERCENT EXCEEDS				85				32				23	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Wheeling Creek Basin

03111548 Wheeling Creek below Blaine, Ohio

LOCATION.—Latitude 40°04'01", longitude 80°48'31", Belmont County, Hydrologic Unit 05030106, on left bank at bridge on Pease Township Road 320 near U.S. Route 40, 0.5 mi east of Blaine, Ohio, and 4.8 mi upstream from mouth.

DRAINAGE AREA.—97.7 mi².

PERIOD OF RECORD.—December 1982 to September 1987, October 1988 to current year.

GAGE.—Water-stage recorder. Datum of gage is 699.11 ft above sea level. Prior to Oct. 1, 1988, at datum 1.00 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. U.S. Army Corps of Engineers satellite telemeter at station. Sediment data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	140	158	1040	144	e144	242	224	207	105	56	25	116
2	135	145	399	132	143	204	1260	184	98	49	24	57
3	128	168	288	516	146	183	685	173	98	47	23	41
4	123	161	240	732	151	173	446	161	98	45	23	34
5	119	172	208	1940	158	183	352	153	94	47	23	30
6	119	139	186	3060	167	228	304	153	89	59	25	28
7	112	127	238	878	180	272	269	149	87	50	24	28
8	106	117	303	826	223	416	245	142	81	47	38	27
9	103	108	251	563	243	256	220	142	79	43	27	25
10	101	104	431	443	266	225	206	137	77	42	24	25
11	96	102	282	539	188	220	192	138	79	36	22	24
12	95	160	240	1440	174	218	181	163	82	33	21	24
13	96	130	220	589	169	202	173	138	74	53	21	24
14	104	109	195	868	355	176	163	299	73	72	20	23
15	103	102	173	488	417	161	155	240	79	42	20	23
16	98	101	163	407	287	153	148	167	71	42	32	23
17	86	99	159	356	250	148	145	144	69	46	31	31
18	116	110	149	321	221	142	141	134	64	55	24	26
19	294	398	149	289	196	138	140	130	61	64	22	23
20	138	294	130	276	194	151	139	176	60	45	22	22
21	109	197	141	251	287	137	185	153	58	38	21	23
22	100	168	139	244	228	128	154	130	56	34	19	22
23	94	159	643	225	199	387	294	165	54	39	18	24
24	124	189	327	211	193	329	280	178	51	33	17	24
25	101	261	208	e198	187	227	288	141	50	32	17	22
26	89	191	186	e184	180	203	220	127	49	38	17	27
27	85	164	166	e173	173	187	442	118	48	35	22	36
28	82	279	154	e167	201	486	260	128	49	31	25	27
29	299	209	152	e160	---	585	227	127	55	29	56	44
30	405	185	151	e154	---	310	234	112	64	27	82	42
31	229	---	152	e148	---	251	---	117	---	25	348	---
TOTAL	4129	5006	7863	16922	5920	7321	8372	4826	2152	1334	1133	945
MEAN	133	167	254	546	211	236	279	156	71.7	43.0	36.5	31.5
MAX	405	398	1040	3060	417	585	1260	299	105	72	348	116
MIN	82	99	130	132	143	128	139	112	48	25	17	22
CFSM	1.36	1.71	2.60	5.59	2.16	2.42	2.86	1.59	0.73	0.44	0.37	0.32
IN.	1.57	1.91	2.99	6.44	2.25	2.79	3.19	1.84	0.82	0.51	0.43	0.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984-2005, BY WATER YEAR (WY)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	48.1	89.9	115	168	160	182	169	146	118	70.6	52.3	65.0										
MAX	138	402	395	546	282	330	279	344	345	230	140	525										
(WY)	1991	1986	1991	2005	2004	1993	2005	1996	1998	1990	2004	2004										
MIN	17.9	23.7	44.4	51.5	66.0	72.7	73.9	52.8	34.7	31.3	16.6	9.53										
(WY)	1989	1992	1989	1992	2002	1987	1986	1986	1992	1999	1986	1985										

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1984-2005
ANNUAL TOTAL	81331	65923	
ANNUAL MEAN	222	181	115
HIGHEST ANNUAL MEAN			209
LOWEST ANNUAL MEAN			70.6
HIGHEST DAILY MEAN	4000 Sep 17	3060 Jan 6	4000 Sep 17
LOWEST DAILY MEAN	50 Jul 25	17 Aug 24	7.0 Sep 21
ANNUAL SEVEN-DAY MINIMUM	57 Aug 12	19 Aug 20	7.4 Sep 17
MAXIMUM PEAK FLOW		3960 Jan 6a	8500 Sep 17
MAXIMUM PEAK STAGE		8.45 Jan 6	12.54 Sep 17
INSTANTANEOUS LOW FLOW		16 Aug 24	7.0 Sep 21
ANNUAL RUNOFF (CFSM)	2.27	1.85	1.18
ANNUAL RUNOFF (INCHES)	30.97	25.10	16.00
10 PERCENT EXCEEDS	326	314	220
50 PERCENT EXCEEDS	138	141	73
90 PERCENT EXCEEDS	73	25	24

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Captina Creek Basin

03113990 Captina Creek at State Route 148 at Armstrongs Mills, Ohio

LOCATION.—Latitude 39°54'24", longitude 80°56'10", Belmont County, Hydrologic Unit 05030106, on left bank at downstream side of bridge on State Highway 148, at intersection of State Highway 9 at Armstrongs Mills, Ohio.

DRAINAGE AREA.—127 mi².

PERIOD OF RECORD.—June 2003 to current year.

GAGE.—Water-stage recorder. Datum of gage is 756.09 ft above sea level (revised).

REMARKS.—Records good except for periods of estimated record, which are poor. Station relocated 1.5 mi upstream from Station 03114000 Captina Creek at Armstrong Mills.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	123	1950	147	e88	398	300	295	54	14	2.2	165
2	51	91	844	123	e86	292	2890	225	44	10	2.1	58
3	50	116	497	1160	e85	244	1520	176	42	8.9	2.1	29
4	47	111	346	2720	107	227	793	148	63	4.6	2.2	18
5	43	132	269	3410	121	234	503	127	48	12	2.1	17
6	39	104	224	e5400	154	331	367	110	40	32	2.0	14
7	37	91	265	e1700	200	489	288	95	38	16	1.9	5.3
8	35	82	371	e1400	335	824	239	88	33	20	2.0	5.2
9	35	71	297	e940	478	448	187	84	66	11	2.0	7.8
10	34	63	711	e660	608	334	162	80	50	4.7	1.9	5.1
11	32	63	494	e1400	335	292	144	67	37	3.7	1.9	4.0
12	29	234	384	e3000	266	282	124	106	33	3.9	1.8	5.0
13	29	212	332	e1100	235	257	106	75	33	3.7	1.7	5.4
14	52	141	262	1930	755	211	90	549	25	6.8	1.6	5.2
15	68	106	210	905	1110	e177	88	573	26	5.1	1.6	5.0
16	48	93	181	627	627	155	79	267	32	3.9	13	3.7
17	46	87	171	461	453	145	71	175	27	5.6	28	4.7
18	89	e98	151	363	326	137	73	119	22	17	7.4	3.9
19	506	e800	147	e275	248	119	68	97	15	19	3.9	3.4
20	153	e500	131	e233	223	151	66	248	14	19	3.0	3.2
21	78	e370	161	e196	346	127	75	157	15	11	2.4	3.2
22	62	e240	142	e170	266	110	73	109	22	7.9	2.2	3.2
23	52	e260	1180	e145	219	612	475	103	20	8.8	2.0	6.3
24	66	e360	685	e128	201	603	487	144	14	7.8	1.9	19
25	67	e454	382	e118	187	356	592	98	6.7	5.6	1.9	7.7
26	52	334	283	e112	175	278	376	82	6.2	4.4	1.9	6.7
27	50	252	211	e105	165	249	1080	71	12	3.3	2.0	19
28	49	511	232	e100	225	1300	467	81	5.7	3.1	2.1	12
29	77	359	168	e96	---	1370	304	85	15	3.2	36	14
30	194	277	158	e93	---	627	342	68	e13	2.9	84	31
31	223	---	158	e90	---	412	---	57	---	2.5	628	---
TOTAL	2447	6735	11997	29307	8624	11791	12429	4759	871.6	281.4	848.8	490.0
MEAN	78.9	224	387	945	308	380	414	154	29.1	9.08	27.4	16.3
MAX	506	800	1950	5400	1110	1370	2890	573	66	32	628	165
MIN	29	63	131	90	85	110	66	57	5.7	2.5	1.6	3.2
CFSM	0.62	1.77	3.05	7.44	2.43	2.99	3.26	1.21	0.23	0.07	0.22	0.13
IN.	0.72	1.97	3.51	8.58	2.53	3.45	3.64	1.39	0.26	0.08	0.25	0.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003-2005, BY WATER YEAR (WY)

MEAN	151	338	374	681	338	287	368	217	113	89.3	183	509
MAX	223	451	387	945	366	380	414	280	170	201	417	991
(WY)	2004	2004	2005	2005	2004	2005	2005	2004	2003	2003	2003	2004
MIN	78.9	224	361	416	308	193	322	154	29.1	9.08	27.4	16.3
(WY)	2005	2005	2004	2004	2005	2004	2004	2005	2005	2005	2005	2005

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 2003-2005

ANNUAL TOTAL	107997	90580.8	
ANNUAL MEAN	295	248	
HIGHEST ANNUAL MEAN			286
LOWEST ANNUAL MEAN			324
HIGHEST DAILY MEAN	9600	5400	248
LOWEST DAILY MEAN	11	1.6	9600
ANNUAL SEVEN-DAY MINIMUM	19	1.8	248
MAXIMUM PEAK FLOW		6790	28100
MAXIMUM PEAK STAGE		10.63	23.54
ANNUAL RUNOFF (CFSM)	2.32	1.95	2.25
ANNUAL RUNOFF (INCHES)	31.63	26.53	30.59
10 PERCENT EXCEEDS	495	581	551
50 PERCENT EXCEEDS	100	97	110
90 PERCENT EXCEEDS	35	3.8	12

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Little Muskingum River Basin

03115400 Little Muskingum River at Bloomfield, Ohio

LOCATION.—Latitude 39°33'47", longitude 81°12'14", in sec. 22, T.3 N., R.6 W., Washington County, Hydrologic Unit 05030201, on left bank 400 ft upstream from bridge on State Highway 260 at Bloomfield, Ohio, 2.2 mi downstream from Wilson Run.

DRAINAGE AREA.—210 mi².

PERIOD OF RECORD.—October 1958 to September 1981, October 1995 to current year.

REVISED RECORDS.—WSP 1705: 1959.

GAGE.—Water-stage recorder. Datum of gage is 645.99 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. Satellite telemeter at gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	30	77	2330	161	e105	1090	373	367	106	22	3.4	10	
2	27	73	1230	144	e105	615	5170	294	82	24	3.1	12	
3	24	141	585	245	e105	422	2740	241	73	17	2.7	6.6	
4	22	166	374	3120	e115	361	1010	201	72	12	2.4	4.2	
5	20	192	294	5620	e135	350	572	171	67	9.4	2.3	2.8	
6	18	169	245	7840	e170	430	402	153	53	8.5	2.3	2.1	
7	16	132	247	3030	e235	528	327	140	44	10	2.3	1.6	
8	15	104	312	2100	354	1200	282	133	37	12	2.3	1.4	
9	13	80	272	1340	630	752	234	112	33	11	2.0	1.2	
10	12	66	613	710	1410	474	201	96	38	8.3	2.0	0.98	
11	12	59	597	1850	639	378	176	88	32	6.7	2.1	0.89	
12	11	173	435	9470	415	345	156	157	25	5.7	2.1	0.83	
13	11	366	352	1360	338	329	153	128	21	4.9	2.0	0.66	
14	11	208	283	1910	1280	288	136	100	18	4.8	1.8	0.55	
15	15	150	230	1000	2110	250	114	169	18	5.0	1.7	0.55	
16	16	124	199	599	835	221	100	135	17	6.2	1.8	0.53	
17	19	107	188	421	573	205	91	98	18	11	1.8	0.55	
18	25	109	171	301	395	188	87	81	18	14	2.1	0.55	
19	383	165	161	331	294	171	83	71	16	12	1.5	0.46	
20	173	658	121	282	276	173	78	877	13	15	1.5	0.42	
21	90	441	137	242	278	171	73	376	12	11	2.6	0.40	
22	60	281	130	e210	257	154	77	223	10	8.8	2.3	0.38	
23	46	232	838	e185	221	699	462	171	9.6	7.6	1.9	0.36	
24	49	241	1090	e170	206	1230	906	210	8.5	6.4	1.6	0.38	
25	89	604	426	e155	203	551	1310	182	7.8	5.5	1.5	0.39	
26	76	458	311	e140	191	429	712	134	7.0	5.3	1.3	0.44	
27	58	309	243	e130	199	355	1620	106	6.5	4.7	1.3	0.48	
28	50	618	215	e138	406	1660	760	94	5.8	5.2	1.5	0.46	
29	49	566	194	e130	---	3510	418	244	25	5.2	1.00	0.72	
30	78	358	176	e120	---	888	390	172	20	4.8	1.3	0.74	
31	94	---	168	e112	---	522	---	129	---	4.0	3.1	---	
TOTAL	1612	7427	13167	43566	12480	18939	19213	5853	913.2	288.0	62.60	53.62	
MEAN	52.0	248	425	1405	446	611	640	189	30.4	9.29	2.02	1.79	
MAX	383	658	2330	9470	2110	3510	5170	877	106	24	3.4	12	
MIN	11	59	121	112	105	154	73	71	5.8	4.0	1.0	0.36	
CFSM	0.25	1.18	2.02	6.69	2.12	2.91	3.05	0.90	0.14	0.04	0.01	0.01	
IN.	0.29	1.32	2.33	7.72	2.21	3.35	3.40	1.04	0.16	0.05	0.01	0.01	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958-2005 BY WATER YEAR (WY)													
MEAN	69.8	167	307	416	494	570	472	320	230	94.7	85.6	134	
MAX	476	813	918	1405	1121	1387	1004	899	1479	507	401	1783	
(WY)	1980	2004	1979	2005	2000	1963	1964	1968	1998	2003	1979	2004	
MIN	0.43	2.28	16.3	28.0	59.0	119	78.8	48.4	10.6	0.98	0.90	0.34	
(WY)	1967	1964	1964	1977	1964	1969	1971	1976	1999	1966	1962	1999	
SUMMARY STATISTICS													
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1958-2005	
ANNUAL TOTAL				170841.4				123574.42					
ANNUAL MEAN				467				339					
HIGHEST ANNUAL MEAN												279	
LOWEST ANNUAL MEAN												536	
HIGHEST DAILY MEAN				28000 Sep 18				28000 Sep 18				2004	
LOWEST DAILY MEAN				8.4 Aug 9				0.36 Sep 23				0.00 Sep 18	
ANNUAL SEVEN-DAY MINIMUM				12 Oct 8				0.40 Sep 20				0.05 Sep 23	
MAXIMUM PEAK FLOW								12800 Jan 12a				41600 Sep 18	
MAXIMUM PEAK STAGE								25.71 Jan 12				32.16 Sep 18	
INSTANTANEOUS LOW FLOW												0.00 Sep 18	
ANNUAL RUNOFF (CFSM)				2.22				1.61				1.33	
ANNUAL RUNOFF (INCHES)				30.26				21.89				18.03	
10 PERCENT EXCEEDS				732				703				635	
50 PERCENT EXCEEDS				157				121				95	
90 PERCENT EXCEEDS				21				1.8				4.7	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

Surface-Water Records—Muskingum River Basin

03116077 Chippewa Creek at Miller Road at Sterling, Ohio

LOCATION.—Latitude 40°57'59", longitude 81°51'02", Wayne County, Hydrologic Unit 05040001, on right upstream bridge abutment of Miller Road bridge, 800 ft southwest of Seville Road and Chestnut Street in the Village of Sterling.

DRAINAGE AREA.—50.4 mi².

PERIOD OF RECORD.—October 2001 to current year.

GAGE.—Water-stage recorder. Elevation of gage is 960 ft above sea level (from topographic map).

REMARKS.—Records good except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	30	236	538	28	79	66	85	10	10	15	81
2	8.1	34	128	266	27	73	287	67	8.5	7.1	12	41
3	7.7	70	99	443	25	68	358	56	7.5	5.8	9.6	26
4	7.2	102	83	703	24	64	280	47	7.2	5.1	7.7	19
5	6.2	111	72	466	23	65	172	38	6.5	4.7	27	14
6	5.8	79	66	810	25	81	134	33	13	4.3	14	10
7	5.5	65	68	411	41	123	110	29	8.9	4.0	9.1	8.0
8	5.4	54	95	349	328	104	95	25	6.9	4.2	7.2	6.9
9	5.1	44	92	276	232	83	81	22	5.4	3.7	6.2	6.0
10	4.6	39	143	243	170	76	70	20	4.6	3.5	9.1	5.3
11	4.7	35	109	249	126	74	61	21	4.3	3.2	13	4.4
12	4.9	32	104	715	107	71	53	22	3.9	3.1	6.7	4.0
13	8.5	28	102	458	98	67	46	19	3.8	3.5	7.4	3.7
14	12	26	90	606	105	62	40	68	3.9	6.4	17	3.1
15	14	24	79	276	127	62	35	82	3.5	11	7.8	2.6
16	34	28	71	203	132	68	31	59	3.7	14	6.2	5.6
17	28	29	65	157	132	81	29	44	4.1	17	5.2	4.1
18	35	34	59	124	102	91	27	34	3.3	11	4.7	3.2
19	51	58	58	103	85	92	26	27	3.1	12	4.3	3.1
20	35	85	56	89	77	110	28	22	2.7	9.3	9.0	3.0
21	30	66	58	77	171	109	31	19	2.7	7.6	15	3.3
22	26	53	43	66	153	92	22	16	2.7	19	5.8	5.7
23	23	45	120	63	124	99	117	29	2.2	10	4.7	12
24	44	50	150	59	108	111	167	32	2.4	6.4	4.3	5.6
25	29	96	116	51	91	98	244	23	2.4	6.2	3.9	4.1
26	25	83	94	47	82	94	239	18	5.3	8.6	3.7	91
27	22	71	81	42	73	85	191	15	3.2	139	3.9	64
28	19	66	73	40	71	99	148	15	13	69	5.1	33
29	36	59	71	34	---	96	117	20	38	38	3.7	25
30	57	62	89	32	---	82	101	14	14	26	17	18
31	38	---	677	30	---	74	---	12	---	20	176	---
TOTAL	640.4	1658	3447	8026	2887	2633	3406	1033	200.7	492.7	441.3	515.7
MEAN	20.7	55.3	111	259	103	84.9	114	33.3	6.69	15.9	14.2	17.2
MAX	57	111	677	810	328	123	358	85	38	139	176	91
MIN	4.6	24	43	30	23	62	22	12	2.2	3.1	3.7	2.6
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001-2005 BY WATER YEAR (WY)												
MEAN	16.1	28.2	68.3	104	68.5	101	109	94.3	63.9	38.4	18.9	29.6
MAX	27.4	55.3	111	259	103	127	124	171	93.1	156	57.2	78.4
(WY)	2004	2005	2005	2005	2005	2003	2004	2004	2003	2003	2003	2004
MIN	2.08	8.29	27.9	18.0	41.2	72.5	78.4	33.3	6.69	5.54	3.82	2.44
(WY)	2003	2003	2002	2002	2003	2002	2003	2005	2005	2002	2002	2002
SUMMARY STATISTICS												
FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 2001-2005				
ANNUAL TOTAL	28715.2				25380.8							
ANNUAL MEAN	78.5				69.5				63.1			
HIGHEST ANNUAL MEAN									77.1			
LOWEST ANNUAL MEAN									41.7			2004
HIGHEST DAILY MEAN	1020				May 22				1020			2004
LOWEST DAILY MEAN	3.1				Jul 25				0.82			2002
ANNUAL SEVEN-DAY MINIMUM	3.4				Aug 11				1.2			2002
MAXIMUM PEAK FLOW									932			2004
MAXIMUM PEAK STAGE									9.31			2004
INSTANTANEOUS LOW FLOW									0.33			2003
10 PERCENT EXCEEDS	150								144			
50 PERCENT EXCEEDS	56								33			
90 PERCENT EXCEEDS	5.9								3.5			

03117000 Tuscarawas River at Massillon, Ohio

LOCATION.—Latitude 40°46'13", longitude 81°31'27", in sec. 20 T.10 N., R.9 W., Stark County, Hydrologic Unit 05040001, on left bank at sewage-treatment works, 0.7 mi south of Massillon, Ohio, and 3 mi downstream from Newman Creek.

DRAINAGE AREA.—518 mi².

PERIOD OF RECORD.—October 1937 to current year. Prior to April 1938 monthly discharge only, published in WSP 1305.

REVISED RECORDS.—WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 916.00 ft, National Geodetic Vertical Datum of 1912. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

REMARKS.—Records good except for April 3 to May 23, which are fair. Some water diverted through the Portage Lakes into the Ohio Canal at Long Lake, 28 mi and 3 mi south of Akron. Part of the diverted water flows through the Ohio Canal into the Cuyahoga River basin. Flow affected by industrial plants upstream from station and supplemented at times by diversion from Nimisila Reservoir, capacity, 6,500 acre-ft, since 1939. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	200	368	1460	3740	458	841	668	637	223	121	204	1780
2	195	326	1740	3710	451	846	1890	528	205	122	181	950
3	194	524	1140	3290	445	762	3440	473	192	88	158	426
4	193	568	696	4410	428	689	3550	410	183	74	147	279
5	200	807	541	4820	432	668	2660	367	168	205	717	226
6	194	629	484	6060	446	727	1650	345	169	191	1010	194
7	176	457	513	5650	528	1060	1050	323	191	124	597	181
8	171	380	808	5100	1630	1300	774	303	153	131	323	180
9	175	312	834	4160	2660	992	628	281	133	132	228	160
10	165	275	1240	3190	2520	805	537	267	127	91	210	156
11	162	260	1160	2460	1710	733	469	298	145	76	215	145
12	160	256	881	3960	1100	714	423	366	138	72	191	139
13	162	243	802	4650	947	650	409	365	130	91	174	137
14	184	224	721	5240	971	628	377	964	123	314	191	132
15	202	211	629	4400	1490	618	332	1420	165	280	189	127
16	207	202	541	3100	1530	656	305	980	188	239	171	175
17	201	223	484	1880	1770	702	289	605	171	267	149	215
18	209	251	434	1280	1360	722	283	456	157	235	140	195
19	518	389	446	961	896	741	291	402	138	203	134	163
20	506	850	402	859	749	747	300	373	125	207	133	136
21	432	693	410	796	1010	888	443	342	109	168	201	122
22	413	481	409	698	1490	804	418	319	105	366	188	121
23	320	375	1360	631	1330	771	1030	359	101	278	146	215
24	310	351	2130	619	1050	939	1750	471	94	187	139	269
25	391	727	1800	633	862	852	1980	369	126	160	126	193
26	336	752	1290	608	755	799	1930	305	137	225	123	575
27	308	516	844	569	686	733	1570	256	107	1540	123	1160
28	251	437	675	495	686	1000	1100	234	104	1080	124	603
29	316	397	649	475	---	1330	756	230	127	525	140	434
30	654	375	812	460	---	945	656	215	136	316	303	358
31	520	---	2400	470	---	778	---	231	---	237	2440	---
TOTAL	8625	12859	28735	79374	30390	25440	31958	13494	4370	8345	9515	10146
MEAN	278	429	927	2560	1085	821	1065	435	146	269	307	338
MAX	654	850	2400	6060	2660	1330	3550	1420	223	1540	2440	1780
MIN	160	202	402	460	428	618	283	215	94	72	123	121
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938-2005, BY WATER YEAR (WY)												
MEAN	210	303	454	579	713	874	751	528	405	316	240	227
MAX	1206	1628	1621	2560	1659	1827	1591	1641	1852	1812	1273	1465
(WY)	1991	1986	1991	2005	1959	1978	1994	1996	1947	1969	1958	1979
MIN	70.0	81.4	81.5	94.6	98.0	283	172	121	81.2	79.1	82.9	69.9
(WY)	1964	1945	1964	1945	1964	1969	1946	1941	1988	1954	1962	1954
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1938-2005		
ANNUAL TOTAL				287650			263251					
ANNUAL MEAN				786			721			466		
HIGHEST ANNUAL MEAN										777		
LOWEST ANNUAL MEAN										245		
HIGHEST DAILY MEAN				4590	Jan 5	6060		Jan 6	9360		Jul 6	1959
LOWEST DAILY MEAN				123	Aug 15	72		Jul 12	49		Jul 17	1988
ANNUAL SEVEN-DAY MINIMUM				133	Aug 9	102		Jul 7	53		Jul 12	1988
MAXIMUM PEAK FLOW							6540	Jan 6	10700		Jul 5	1969
MAXIMUM PEAK STAGE							12.83	Jan 6	16.43		Jul 5	1969
INSTANTANEOUS LOW FLOW										45	Sep 20	1999
10 PERCENT EXCEEDS				1850			1590			1090		
50 PERCENT EXCEEDS				520			410			240		
90 PERCENT EXCEEDS				210			137			102		

03117500 Sandy Creek at Waynesburg, Ohio

LOCATION.—Latitude 40°40'21", longitude 81°15'36", in sec. 21, T.17 N., R.7 W., Stark County, Hydrologic Unit 05040001, on upstream side of left pier of bridge on State Highway 183 in Waynesburg, Ohio, 300 ft downstream from Little Sandy Creek, and 0.6 mi upstream from Indian Run.

DRAINAGE AREA.—253 mi².

PERIOD OF RECORD.—October 1938 to current year. Prior to December 1938 monthly discharge only, published in WSP 1305.

REVISED RECORDS.—WSP 923: 1939-40. WSP 1555: 1940(M), 1943(M), 1947(M), 1952, 1956(M). WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 955.00 ft, National Geodetic Vertical Datum of 1912.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	220	230	1250	665	e290	371	389	609	168	71	70	363	
2	207	183	1460	529	e263	386	932	479	154	68	66	187	
3	196	237	1150	748	262	350	2010	420	144	64	62	129	
4	185	315	854	1960	254	310	1800	347	140	63	61	106	
5	171	453	649	1880	245	295	1350	297	133	92	74	95	
6	162	358	498	4110	246	309	e1000	278	126	152	82	82	
7	152	289	455	4860	241	458	e740	264	117	174	69	69	
8	143	252	602	3260	465	645	e600	249	114	121	62	66	
9	137	219	592	2270	928	642	e460	231	123	88	59	64	
10	128	203	907	1500	915	553	e380	220	108	77	57	61	
11	122	190	863	1250	e720	465	e320	215	110	72	56	60	
12	118	198	786	2390	e600	432	e270	273	107	68	54	57	
13	114	204	714	3510	513	401	e250	246	103	68	53	56	
14	113	181	609	3060	488	358	e240	522	100	76	83	54	
15	117	168	505	2360	1030	327	e230	500	94	90	68	52	
16	121	163	441	e1650	e840	306	e225	340	91	87	60	56	
17	118	166	404	e1100	e720	289	e220	284	94	81	58	57	
18	132	179	380	e800	e620	275	e215	236	90	73	54	54	
19	225	249	378	e670	e530	263	e215	214	87	69	53	52	
20	230	476	386	e650	467	268	e215	214	84	63	52	51	
21	177	431	346	e600	457	289	e235	210	81	61	51	50	
22	157	342	312	e560	503	273	e260	190	82	61	49	49	
23	146	316	1270	e520	465	259	502	202	79	60	49	77	
24	171	317	e2500	e480	414	394	747	317	76	58	48	73	
25	178	685	e1750	e440	371	401	941	244	75	58	47	61	
26	142	805	e1200	e430	348	365	838	199	78	69	47	148	
27	124	670	e800	e420	333	343	1090	180	74	358	53	233	
28	114	633	e600	e420	317	387	912	189	73	194	54	126	
29	165	573	517	e320	---	566	749	248	71	116	50	140	
30	351	468	489	e300	---	513	673	200	70	92	75	177	
31	342	---	650	e320	---	441	---	184	---	78	649	---	
TOTAL	5178	10153	24317	44032	13845	11934	19008	8801	3046	2922	2425	2905	
MEAN	167	338	784	1420	494	385	634	284	102	94.3	78.2	96.8	
MAX	351	805	2500	4860	1030	645	2010	609	168	358	649	363	
MIN	113	163	312	300	241	259	215	180	70	58	47	49	
CFSM	0.66	1.34	3.10	5.61	1.95	1.52	2.50	1.12	0.40	0.37	0.31	0.38	
IN.	0.76	1.49	3.58	6.47	2.04	1.75	2.79	1.29	0.45	0.43	0.36	0.43	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939-2005 BY WATER YEAR (WY)													
MEAN	100	171	291	367	459	549	480	341	224	146	107	106	
MAX	476	1008	1104	1420	987	1179	867	961	750	780	871	1040	
(WY)	1991	1986	1991	2005	1956	1945	1957	1996	1989	2003	1980	2004	
MIN	15.5	18.4	22.1	55.1	53.5	114	118	80.4	45.1	33.2	22.3	16.1	
(WY)	1964	1964	1964	1954	1964	1969	1946	1941	1988	1965	1962	1963	
SUMMARY STATISTICS													
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1939-2005	
ANNUAL TOTAL				212538				148566					
ANNUAL MEAN				581				407					
HIGHEST ANNUAL MEAN												2004	
LOWEST ANNUAL MEAN												1992	
HIGHEST DAILY MEAN				5370				4860				140	
LOWEST DAILY MEAN				86				47				11000	
ANNUAL SEVEN-DAY MINIMUM				110				49				12	
MAXIMUM PEAK FLOW								5700				15000	
MAXIMUM PEAK STAGE								8.44				10.05	
INSTANTANEOUS LOW FLOW								46				6.9	
ANNUAL RUNOFF (CFSM)				2.30				1.61				1.10	
ANNUAL RUNOFF (INCHES)				31.25				21.84				14.91	
10 PERCENT EXCEEDS				1220				839				643	
50 PERCENT EXCEEDS				379				240				144	
90 PERCENT EXCEEDS				149				61				36	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03118000 Middle Branch Nimishillen Creek at Canton, Ohio

LOCATION.—Latitude 40°50'29", longitude 81°21'14", in NE ¼ sec. 27, T.11 N., R.8 W., Stark County, Hydrologic Unit 05040001, on right bank at downstream side of bridge on Martindale Road, 2.4 mi upstream from mouth, and 0.5 mi northeast of Canton, Ohio.

DRAINAGE AREA.—43.1 mi².

PERIOD OF RECORD.—September 1941 to current year.

REVISED RECORDS.—WSP 1033: 1942(M), 1943(P), 1944(M). WSP 1305: 1946(M). WSP 1143: 1948. WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 1,046.60 ft, National Geodetic Vertical Datum of 1912.

REMARKS.—Records fair except for periods of estimated record, which are poor. Part of municipal water supply for city of Canton is pumped from its northeast well field; a portion of pumpage is believed to be derived from creek as recharge to aquifer supplying well field about 1 mi downstream from gage. Mean pumpage for water year 2005, 11.4 ft³/s. At times low flow regulated by small pools above station. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	23	191	248	49	66	49	87	33	27	15	343
2	25	20	191	147	47	61	235	68	31	22	13	157
3	24	26	97	205	46	55	406	58	30	19	12	74
4	24	31	63	440	45	51	276	52	31	15	11	48
5	24	48	50	348	44	49	160	48	27	42	75	36
6	23	42	45	587	44	53	106	44	25	58	80	31
7	22	33	52	463	49	119	87	42	28	33	38	27
8	22	28	107	338	150	172	74	40	30	19	28	26
9	21	25	85	327	240	107	62	39	31	14	21	25
10	18	23	151	207	181	73	58	38	36	11	15	23
11	18	22	119	169	111	65	54	38	75	9.3	19	20
12	18	23	86	409	80	61	49	42	61	12	16	20
13	19	22	78	441	74	57	45	37	45	11	19	19
14	20	20	66	415	89	51	42	228	39	10	26	19
15	20	19	54	283	199	49	40	225	39	9.5	20	18
16	17	20	47	185	159	52	38	109	40	9.1	18	23
17	15	20	43	140	163	57	37	67	43	8.6	15	23
18	15	22	40	e120	106	61	36	51	36	8.3	12	21
19	24	29	41	e110	74	58	37	44	32	8.4	12	20
20	24	52	42	e100	63	59	41	40	30	6.2	12	19
21	22	58	39	e94	79	67	55	38	28	5.1	13	19
22	20	42	36	e86	92	58	54	35	26	7.6	12	18
23	18	34	185	e80	81	57	114	45	25	7.0	11	23
24	21	33	389	e75	71	69	149	46	23	5.8	11	21
25	21	59	e270	e70	61	64	164	38	25	5.2	10	20
26	20	65	e180	66	57	64	137	34	24	14	10	86
27	17	47	e120	62	51	57	111	32	20	158	11	119
28	23	44	81	57	53	77	88	32	24	76	11	52
29	26	44	53	54	---	103	70	33	31	32	10	52
30	32	40	63	53	---	71	78	35	29	21	49	48
31	29	---	230	51	---	57	---	37	---	17	436	---
TOTAL	670	1014	3294	6430	2558	2120	2952	1802	997	701.1	1061	1450
MEAN	21.6	33.8	106	207	91.4	68.4	98.4	58.1	33.2	22.6	34.2	48.3
MAX	32	65	389	587	240	172	406	228	75	158	436	343
MIN	15	19	36	51	44	49	36	32	20	5.1	10	18
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942-2005 BY WATER YEAR (WY)												
MEAN	14.1	23.8	40.0	50.8	59.6	71.6	62.4	48.6	36.7	27.1	19.2	18.0
MAX	84.7	103	140	207	153	142	227	138	150	168	108	97.2
(WY)	1991	1986	1991	2005	1971	1951	1994	1996	1989	2003	1958	1990
MIN	0.74	1.09	2.78	1.40	1.88	23.7	14.9	10.5	5.17	3.16	2.32	1.25
(WY)	1992	1992	1964	1963	1963	1969	1946	1988	1988	1954	1962	1991
SUMMARY STATISTICS				FOR 2005 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1942-2005		
ANNUAL TOTAL				28717.5			25049.1					
ANNUAL MEAN				78.5			68.6			39.2		
HIGHEST ANNUAL MEAN										78.2		
LOWEST ANNUAL MEAN										16.0		
HIGHEST DAILY MEAN				838			587			1620		
LOWEST DAILY MEAN				9.5			5.1			0.30		
ANNUAL SEVEN-DAY MINIMUM				14			6.5			0.30		
MAXIMUM PEAK FLOW							672			2470		
MAXIMUM PEAK STAGE							5.71			6.63		
INSTANTANEOUS LOW FLOW							3.9			0.20		
10 PERCENT EXCEEDS				181			159			86		
50 PERCENT EXCEEDS				48			42			20		
90 PERCENT EXCEEDS				22			15			4.3		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03118500 Nimishillen Creek at North Industry, Ohio

LOCATION.—Latitude 40°44'03", longitude 81°21'08", in sec. 34, T.10 N., R.8 W., Stark County, Hydrologic Unit 05040001, on left bank upstream abutment of Baum Road bridge, 400 ft northeast of Ridge Street in North Industry, Ohio, and 2.1 mi downstream from Sherrick Run.

DRAINAGE AREA.—175 mi².

PERIOD OF RECORD.—October 1921 to current year.

REVISED RECORDS.—WSP 1113: 1924-30, 1932-37, 1938(M), 1939-40, 1943(M), 1945(P). WSP 1555: 1929, 1935, 1937(M), 1940(M), 1950(M).

GAGE.—Water-stage recorder. Datum of gage is 976.72 ft, National Geodetic Vertical Datum of 1912. Prior to Dec. 13, 1923, nonrecording gage at present site at different datum; prior to Dec. 11, 1990, at site 0.9 mi downstream at datum 5.95 ft lower.

REMARKS.—Records good. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 2005 water year, 15.7 ft³/s. See REMARKS for station 03124500. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAILY MEAN VALUES														
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	163	143	1190	710	236	359	247	343	165	151	117	732		
2	158	167	528	487	230	302	2190	291	151	116	113	322		
3	154	195	325	1460	230	275	1660	266	150	107	108	213		
4	153	278	254	2120	227	264	928	241	144	106	104	168		
5	151	267	223	1910	228	262	523	226	138	477	512	147		
6	146	199	224	3590	245	313	402	214	145	380	277	141		
7	144	169	365	1460	311	516	357	203	135	208	153	135		
8	140	152	460	1770	1010	631	326	194	132	141	133	127		
9	134	144	418	1060	862	364	292	190	138	122	120	127		
10	132	138	737	661	570	308	274	187	137	112	107	119		
11	132	136	413	866	380	302	261	233	164	109	111	109		
12	133	158	344	3220	327	298	246	249	148	108	106	112		
13	137	135	336	1650	307	274	234	210	136	120	219	109		
14	139	129	284	2070	569	257	222	1140	136	165	272	107		
15	149	132	245	901	722	253	213	560	143	124	130	105		
16	132	142	225	612	640	259	207	323	132	133	126	210		
17	125	147	217	492	538	261	202	255	158	113	108	121		
18	202	159	205	417	368	259	202	223	124	106	99	107		
19	223	366	217	394	299	257	202	205	117	111	98	105		
20	152	435	196	374	282	282	267	204	116	103	98	101		
21	142	279	191	349	390	280	279	189	116	98	105	101		
22	137	218	198	336	349	255	315	179	116	251	94	101		
23	133	191	2050	317	320	303	744	316	111	140	90	251		
24	197	238	1310	298	303	323	565	259	111	104	91	126		
25	144	405	532	297	285	298	728	197	258	105	87	110		
26	134	276	333	295	273	291	487	179	128	298	84	604		
27	129	226	280	270	257	268	531	177	110	1100	101	287		
28	128	259	256	253	317	522	351	197	280	264	88	173		
29	323	218	288	250	---	405	311	177	265	168	84	350		
30	245	247	398	258	---	312	418	171	192	139	614	181		
31	164	---	1130	247	---	271	---	178	---	124	2530	---		
TOTAL	4875	6348	14372	29394	11075	9824	14184	8176	4496	5903	7079	5701		
MEAN	157	212	464	948	396	317	473	264	150	190	228	190		
MAX	323	435	2050	3590	1010	631	2190	1140	280	1100	2530	732		
MIN	125	129	191	247	227	253	202	171	110	98	84	101		
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)														
MEAN	106	142	197	244	272	326	290	228	186	159	132	120		
MAX	438	649	733	948	586	569	584	615	689	812	445	474		
(WY)	1991	1986	1991	2005	1981	1963	1994	1996	1989	2003	1935	2003		
MIN	27.4	30.1	35.5	46.7	33.5	75.5	71.1	37.3	44.9	31.4	28.0	30.0		
(WY)	1931	1931	1931	1945	1934	1931	1935	1934	1932	1930	1932	1932		
SUMMARY STATISTICS														
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1922-2005		
ANNUAL TOTAL				142138				121427						
ANNUAL MEAN				388				333				200		
HIGHEST ANNUAL MEAN												384		
LOWEST ANNUAL MEAN												72.4		
HIGHEST DAILY MEAN				4550	Jun 15	3590			Jan 6	5880	Jul 28	2003		
LOWEST DAILY MEAN				105	Aug 12	84			Aug 26	14	Aug 20	1923		
ANNUAL SEVEN-DAY MINIMUM				114	Aug 6	89			Aug 23	20	Sep 10	1932		
MAXIMUM PEAK FLOW								4200	Jan 12a	9310	Jul 28	2003		
MAXIMUM PEAK STAGE								8.88	Jan 12	14.18	Jul 28	2003		
INSTANTANEOUS LOW FLOW												3.6	Sep 2	1934
10 PERCENT EXCEEDS				784				584				395		
50 PERCENT EXCEEDS				244				225				127		
90 PERCENT EXCEEDS				143				110				55		

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

03121850 Huff Run at Mineral City, Ohio

LOCATION.—Latitude 40°35'50", longitude 81°21'33", Tuscarawas County, Hydrologic Unit 05040001, on left abutment of bridge on County Road 90, adjacent to intersection of Sandy Township Road 46, 500 ft southeast of State Route 800 at southeast edge of Mineral City, Ohio, and 1.4 mi upstream from Conotton Creek.

DRAINAGE AREA.—12.3 mi².

Water-Discharge Records

PERIOD OF RECORD.—October 1997 to current year.

GAGE.—Water-stage recorder. Datum of gage is 886.98 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Data Collection Platform at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.4	7.2	88	18	e21	21	18	26	8.4	4.0	2.6	16
2	9.3	7.9	43	17	e20	18	153	22	7.9	3.4	2.3	8.7
3	8.9	10	29	57	e20	16	96	20	7.7	3.1	2.0	6.1
4	8.5	15	22	103	e19	16	55	18	7.6	2.9	1.7	4.9
5	8.1	14	18	157	e19	17	40	16	7.2	6.6	11	4.1
6	7.8	11	17	e640	e19	19	32	16	7.1	9.2	6.0	3.6
7	7.6	9.8	19	e160	e27	25	27	15	6.8	4.3	3.6	3.5
8	7.4	8.6	20	e80	e72	36	24	14	6.5	5.2	2.8	3.0
9	7.3	7.8	20	e56	e40	25	21	13	13	4.8	2.4	2.9
10	7.3	7.4	40	e47	e30	23	18	13	7.4	4.1	2.2	2.7
11	7.0	7.3	29	e80	e24	22	17	15	9.5	3.7	2.2	2.5
12	6.9	8.6	25	e240	e21	21	16	23	7.4	3.5	2.0	2.4
13	7.1	7.3	22	e110	e19	19	15	14	6.6	3.4	1.8	2.3
14	7.5	6.8	18	e90	e30	16	14	20	6.4	4.1	4.4	2.2
15	7.1	6.5	16	e70	e45	15	13	17	6.1	3.9	3.4	2.3
16	7.5	6.5	15	e65	e40	14	11	14	6.0	3.9	3.5	3.4
17	6.9	6.7	15	e55	e30	14	11	13	5.9	3.6	2.9	4.9
18	7.9	7.2	14	e52	e22	14	11	12	5.5	e3.4	2.3	3.1
19	11	18	15	e48	e19	14	11	11	5.3	e3.2	2.2	2.6
20	7.9	18	12	e43	e17	15	13	11	5.2	3.0	2.5	2.4
21	7.1	14	12	e40	e26	14	23	11	5.1	2.8	6.1	2.3
22	6.5	13	13	e37	e23	13	15	10	5.0	3.8	3.4	2.2
23	6.5	13	281	e33	e20	16	43	11	4.5	3.6	2.5	4.2
24	9.2	14	74	e30	e18	18	44	12	4.4	2.9	2.0	3.8
25	7.4	35	36	e28	e17	16	54	9.8	e4.6	3.4	1.7	2.9
26	6.6	23	27	e26	16	16	45	9.0	e4.5	5.4	1.6	15
27	6.4	19	21	e25	15	15	62	8.6	e4.4	13	1.8	8.2
28	6.2	19	18	e24	19	28	41	13	e6.0	5.3	2.0	4.9
29	8.8	15	19	e23	---	26	33	12	e7.6	4.0	1.9	11
30	10	15	18	e22	---	22	33	9.6	e6.0	3.3	5.8	7.1
31	8.4	---	21	e21	---	20	---	9.3	---	2.9	64	---
TOTAL	241.5	371.6	1037	2497	708	584	1009	438.3	195.6	133.7	156.6	145.2
MEAN	7.79	12.4	33.5	80.5	25.3	18.8	33.6	14.1	6.52	4.31	5.05	4.84
MAX	11	35	281	640	72	36	153	26	13	13	64	16
MIN	6.2	6.5	12	17	15	13	11	8.6	4.4	2.8	1.6	2.2
CFSM	0.63	1.01	2.72	6.55	2.06	1.53	2.73	1.15	0.53	0.35	0.41	0.39
IN.	0.73	1.12	3.14	7.55	2.14	1.77	3.05	1.33	0.59	0.40	0.47	0.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998-2005, BY WATER YEAR (WY)

	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	5.46	6.41	12.9	27.7	17.2	17.6	26.9	22.1
MAX	13.7	13.7	33.5	80.5	25.3	23.4	41.0	46.6
(WY)	2004	2004	2005	2005	2005	1999	2000	2004
MIN	2.29	3.47	4.49	6.28	7.95	10.2	13.6	11.1
(WY)	2003	1999	2000	2002	2003	2000	2003	1999

SUMMARY STATISTICS**FOR 2004 CALENDAR YEAR****FOR 2005 WATER YEAR****WATER YEARS 1998-2005**

ANNUAL TOTAL	11176.7	7517.5	
ANNUAL MEAN	30.5	20.6	15.4
HIGHEST ANNUAL MEAN			30.0
LOWEST ANNUAL MEAN			9.30
HIGHEST DAILY MEAN	729	Jan 6	729
LOWEST DAILY MEAN	5.3	Jul 25	0.91
ANNUAL SEVEN-DAY MINIMUM	6.2	Aug 11	1.1
MAXIMUM PEAK FLOW			1860
MAXIMUM PEAK STAGE			19.94
INSTANTANEOUS LOW FLOW			0.73
ANNUAL RUNOFF (CFSM)	2.48	1.67	1.25
ANNUAL RUNOFF (INCHES)	33.80	22.74	16.96
10 PERCENT EXCEEDS	54	40	29
50 PERCENT EXCEEDS	15	12	7.9
90 PERCENT EXCEEDS	7.3	2.9	2.5

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03121850 Huff Run at Mineral City, Ohio—Continued

Water-Quality Records

PERIOD OF RECORD.—October 1997 to current year.

PERIOD OF DAILY RECORD.—

SPECIFIC CONDUCTANCE: October 1997 to current year.

pH: October 1997 to current year.

WATER TEMPERATURE: October 1997 to current year.

DISSOLVED OXYGEN: October 1997 to current year.

INSTRUMENTATION.— Water-quality monitor. Electronic data logger. Set for 1-hour interval. Satellite telemeter at station.

REMARKS.—Interruptions in the water-quality record are due to malfunction of the instrument. Specific conductance records are good except May 13-26, which are fair, and April 26-May 13, which are poor. pH records are good except July 11-31, which are poor. Water temperature records are good. Dissolved oxygen records are fair except Oct. 18-Nov. 1, May 26-June 10, Aug. 1-29, and Sept. 29-30, which are poor.

EXTREMES FOR PERIOD OF RECORD.—

SPECIFIC CONDUCTANCE: Maximum, 2,150 microsiemens, July 8, 2005; minimum, 197 microsiemens, Jan. 23, 1999.

pH: Maximum, 7.8 units, Jan. 30, 2000; minimum, 3.8 units, Aug. 13 and 23, 2002.

WATER TEMPERATURE: Maximum, 28.5°C, July 23, 1998; minimum, 0.0°C, on many days during winter.

DISSOLVED OXYGEN: Maximum, 15.5 mg/L, Feb. 16 and Mar. 7, 2004; minimum, 3.4 mg/L, Sept. 11 and 12, 2000.

EXTREMES FOR CURRENT YEAR.—

SPECIFIC CONDUCTANCE: Maximum, 2,150 microsiemens, July 8; minimum, 323 microsiemens, Jan. 5.

pH: Maximum, 7.1 units on several days; minimum, 4.2 units, July 17.

WATER TEMPERATURE: Maximum, 24.9°C, Sept. 2; minimum, 0.1°C, Dec. 20.

DISSOLVED OXYGEN: Maximum, 14.8 mg/L, Nov. 26; minimum, 4.8 mg/L, Aug. 31.

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	1250	1200	1220	1320	1190	1220	782	381	535	810	768	785
2	1280	1250	1270	1290	1230	1270	498	424	481	850	810	830
3	1290	1250	1260	1310	1230	1270	600	521	559	855	502	739
4	1310	1260	1270	1230	1140	1130	678	600	638	509	397	433
5	1290	1270	1280	1010	830	883	736	678	704	495	323	443
6	1350	1280	1310	1010	929	972	776	736	759	---	---	---
7	1360	1310	1340	1070	1010	1040	811	757	776	---	---	---
8	1380	1330	1360	1110	1070	1090	809	699	723	---	---	---
9	1390	1370	1380	1160	1110	1140	767	680	742	---	---	---
10	1400	1390	1390	1200	1160	1180	772	506	582	---	---	---
11	1400	1340	1390	1240	1200	1210	610	582	591	---	---	---
12	1420	1360	1390	1260	1210	1230	640	605	618	---	---	---
13	1420	1410	1410	1240	1180	1210	672	640	657	---	---	---
14	1420	1400	1420	1220	1190	1210	724	672	693	---	---	---
15	1410	1400	1400	1260	1220	1240	765	724	744	---	---	---
16	1410	1340	1390	1290	1260	1280	789	765	781	---	---	---
17	1360	1340	1350	1290	1260	1280	803	789	798	---	---	---
18	1370	1280	1340	1280	1270	1270	830	803	820	---	---	---
19	1350	1240	1310	1280	811	1140	835	825	831	---	---	---
20	1240	1140	1180	828	744	792	889	827	862	---	---	---
21	1310	1220	1270	845	811	824	899	880	891	---	---	---
22	1370	1300	1330	884	845	866	899	873	888	---	---	---
23	1390	1350	1370	902	884	895	---	---	---	---	---	---
24	1400	1300	1360	920	888	897	---	---	---	---	---	---
25	1370	1240	1310	920	560	695	---	---	---	---	---	---
26	1310	1240	1270	646	593	617	---	---	---	---	---	---
27	1380	1310	1340	696	646	671	---	---	---	---	---	---
28	1410	1340	1380	750	695	715	835	830	831	---	---	---
29	1420	1320	1370	776	698	741	853	835	843	---	---	---
30	1410	1180	1310	814	776	797	856	822	838	---	---	---
31	1220	1160	1190	---	---	---	853	788	818	---	---	---
MONTH	1420	1140	1330	1320	560	1030	899	381	731	855	323	646

03121850 Huff Run at Mineral City, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.6	6.4	6.5	6.6	6.4	6.5	6.8	6.6	6.7	6.8	6.4	6.4
2	6.6	6.4	6.5	6.7	6.5	6.5	6.7	6.6	6.6	6.8	6.4	6.4
3	6.6	6.3	6.5	6.6	6.5	6.5	6.6	6.6	6.6	6.8	6.7	6.8
4	6.5	6.1	6.4	6.8	6.5	6.6	6.6	6.5	6.5	6.8	6.4	6.4
5	6.5	6.0	6.3	6.8	6.6	6.6	6.6	6.5	6.6	6.8	6.5	6.6
6	6.7	6.0	6.4	6.6	6.5	6.5	6.8	6.5	6.6	---	---	---
7	6.7	6.4	6.5	6.6	6.5	6.5	6.9	6.6	6.8	---	---	---
8	6.6	6.4	6.5	6.5	6.4	6.5	6.7	6.5	6.5	---	---	---
9	6.5	6.4	6.4	6.4	6.4	6.4	6.9	6.4	6.5	---	---	---
10	6.6	6.4	6.5	6.6	6.4	6.5	7.0	6.5	6.8	---	---	---
11	6.7	6.4	6.4	6.7	6.5	6.5	6.6	6.4	6.5	---	---	---
12	6.6	6.4	6.4	6.7	6.5	6.5	6.7	6.4	6.4	---	---	---
13	6.6	6.4	6.4	6.5	6.5	6.5	6.5	6.3	6.4	---	---	---
14	6.6	6.4	6.4	6.5	6.4	6.5	6.4	6.3	6.3	---	---	---
15	6.6	6.4	6.4	6.5	6.4	6.4	6.3	6.3	6.3	---	---	---
16	6.6	6.4	6.4	6.5	6.4	6.5	6.4	6.2	6.3	---	---	---
17	6.4	6.3	6.4	6.7	6.5	6.5	6.4	6.3	6.3	---	---	---
18	6.6	6.2	6.4	6.7	6.5	6.7	6.8	6.2	6.3	---	---	---
19	6.8	6.5	6.6	7.0	6.6	6.7	6.9	6.2	6.2	---	---	---
20	6.8	6.4	6.6	7.0	6.7	6.7	6.2	6.1	6.1	---	---	---
21	6.6	6.4	6.4	6.8	6.7	6.7	6.8	6.1	6.2	---	---	---
22	6.6	6.4	6.4	6.9	6.7	6.7	6.8	6.3	6.8	---	---	---
23	6.6	6.4	6.5	6.9	6.6	6.7	6.9	6.0	6.1	---	---	---
24	6.6	6.4	6.5	6.9	6.6	6.9	6.0	5.9	6.0	---	---	---
25	6.5	6.4	6.5	6.9	6.7	6.7	6.0	5.9	5.9	---	---	---
26	6.6	6.4	6.4	6.7	6.6	6.6	6.0	5.9	5.9	---	---	---
27	6.6	6.4	6.4	6.8	6.6	6.7	5.9	5.9	5.9	---	---	---
28	6.5	6.4	6.4	6.8	6.6	6.6	6.2	5.8	6.1	---	---	---
29	6.7	6.4	6.6	6.8	6.6	6.6	6.4	6.2	6.3	---	---	---
30	6.7	6.5	6.5	6.8	6.6	6.6	6.4	6.3	6.3	---	---	---
31	6.5	6.5	6.5	---	---	---	6.8	6.3	6.4	---	---	---
MAX	6.8	6.5	6.6	7.0	6.7	6.9	7.0	6.6	6.8	6.8	6.7	6.8
MIN	6.4	6.0	6.3	6.4	6.4	6.4	5.9	5.8	5.9	6.8	6.4	6.4

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	---	---	---	---	---	---	6.8	6.5	6.6	6.2	6.1	6.1
2	---	---	---	---	---	---	6.8	6.4	6.7	6.1	6.1	6.1
3	---	---	---	---	---	---	6.7	6.4	6.4	6.1	6.1	6.1
4	---	---	---	---	---	---	6.5	6.3	6.4	6.2	6.0	6.1
5	---	---	---	---	---	---	6.6	6.4	6.5	6.1	6.0	6.1
6	---	---	---	---	---	---	6.6	6.5	6.5	6.1	6.0	6.1
7	---	---	---	6.9	6.9	6.9	6.7	6.5	6.5	6.1	6.0	6.1
8	---	---	---	7.0	6.9	7.0	6.6	6.5	6.5	6.1	6.0	6.1
9	---	---	---	7.0	6.9	6.9	6.6	6.5	6.5	6.1	5.9	6.1
10	---	---	---	6.9	6.9	6.9	6.5	6.4	6.5	6.1	6.0	6.0
11	---	---	---	6.9	6.9	6.9	6.5	6.4	6.5	6.2	6.0	6.1
12	---	---	---	6.9	6.9	6.9	6.5	6.4	6.5	6.2	6.1	6.1
13	---	---	---	6.9	6.8	6.8	6.5	6.4	6.5	6.3	6.1	6.2
14	---	---	---	6.9	6.8	6.8	6.5	6.3	6.3	6.4	6.2	6.3
15	---	---	---	6.8	6.8	6.8	6.3	6.3	6.3	6.3	6.3	6.3
16	---	---	---	6.8	6.7	6.8	6.4	6.3	6.3	6.3	6.1	6.2
17	---	---	---	6.8	6.7	6.7	6.3	6.3	6.3	6.2	6.1	6.1
18	---	---	---	6.7	6.7	6.7	6.3	6.3	6.3	6.2	6.1	6.1
19	---	---	---	6.7	6.7	6.7	6.4	6.4	6.3	6.2	6.1	6.1
20	---	---	---	6.7	6.6	6.7	6.4	6.2	6.3	6.2	6.1	6.2
21	---	---	---	6.7	6.7	6.7	6.6	6.3	6.4	6.2	6.1	6.1
22	---	---	---	6.7	6.6	6.7	6.4	6.2	6.3	6.2	6.1	6.1
23	---	---	---	6.7	6.6	6.6	6.4	6.3	6.3	6.3	6.1	6.2
24	---	---	---	6.8	6.7	6.8	6.5	6.3	6.4	6.2	6.2	6.2
25	---	---	---	6.8	6.7	6.7	6.4	6.2	6.3	6.2	6.1	6.1
26	---	---	---	6.7	6.7	6.7	6.5	6.2	6.3	6.2	6.1	6.2
27	---	---	---	6.7	6.7	6.7	6.4	6.2	6.3	6.3	6.2	6.2
28	---	---	---	6.9	6.7	6.7	6.3	6.2	6.3	6.4	6.2	6.3
29	---	---	---	6.9	6.8	6.9	6.5	6.2	6.2	6.4	6.3	6.3
30	---	---	---	6.8	6.7	6.8	6.4	6.1	6.2	6.3	6.2	6.3
31	---	---	---	6.7	6.6	6.6	---	---	---	6.4	6.2	6.2
MAX	---	---	---	7.0	6.9	7.0	6.8	6.5	6.7	6.4	6.3	6.3
MIN	---	---	---	6.7	6.6	6.6	6.3	6.1	6.2	6.1	5.9	6.0

03121850 Huff Run at Mineral City, Ohio—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
1	6.2	6.1	6.2	6.2	4.5	6.1	5.3	4.6	5.2	7.1	6.5	6.7
2	6.2	6.2	6.2	5.8	5.3	5.6	5.8	5.1	5.2	7.1	6.6	6.7
3	6.2	6.1	6.2	5.4	5.1	5.3	5.8	5.7	5.8	6.7	6.6	6.7
4	6.2	6.1	6.2	5.3	4.8	5.1	5.8	5.4	5.6	6.6	6.5	6.6
5	6.2	6.1	6.1	6.6	4.8	4.9	6.1	5.2	5.4	6.7	6.4	6.6
6	6.2	6.1	6.2	6.9	6.6	6.9	6.2	6.1	6.2	6.6	6.4	6.5
7	6.2	6.1	6.2	6.6	6.0	6.5	6.1	5.9	6.1	6.5	6.4	6.5
8	6.2	6.1	6.2	6.4	4.8	6.4	6.0	5.8	5.9	6.5	6.4	6.5
9	6.5	5.7	6.1	5.5	5.3	5.4	5.8	5.6	5.8	6.5	6.4	6.5
10	6.2	5.8	6.0	5.3	5.0	5.3	6.0	5.7	5.9	6.5	6.4	6.5
11	6.5	6.2	6.3	5.0	4.7	4.9	6.0	6.0	6.0	6.5	6.4	6.5
12	6.3	6.2	6.3	4.7	4.5	4.6	6.0	6.0	6.0	6.5	6.4	6.5
13	6.2	6.1	6.1	4.6	4.4	4.5	6.1	6.0	6.0	6.5	6.4	6.5
14	6.2	6.1	6.2	4.6	4.4	4.4	6.4	6.0	6.2	6.5	6.4	6.4
15	6.3	6.2	6.2	4.4	4.3	4.4	6.4	6.3	6.4	6.5	6.4	6.5
16	6.3	6.2	6.2	4.3	4.3	4.3	6.4	6.3	6.4	6.7	6.5	6.5
17	6.3	6.1	6.2	4.3	4.2	4.3	6.4	6.2	6.4	6.6	6.6	6.6
18	6.2	6.1	6.2	---	---	---	6.3	6.2	6.3	6.6	6.6	6.6
19	6.2	6.1	6.1	---	---	---	6.3	6.2	6.2	6.6	6.5	6.5
20	6.1	6.0	6.1	5.2	4.6	4.7	6.3	6.1	6.2	6.5	6.5	6.5
21	6.1	5.5	6.0	5.1	4.6	4.7	6.6	6.3	6.4	6.5	6.4	6.5
22	6.0	5.2	5.5	4.9	4.5	4.6	6.5	6.3	6.4	6.5	6.4	6.5
23	6.1	5.9	6.0	4.7	4.5	4.6	6.4	6.3	6.3	6.7	6.5	6.6
24	6.0	5.5	6.0	4.5	4.4	4.5	6.3	6.1	6.2	6.6	6.5	6.6
25	5.5	4.9	5.3	4.6	4.3	4.4	6.2	6.1	6.1	6.6	6.5	6.6
26	5.8	5.4	5.6	4.7	4.3	4.4	6.1	6.1	6.1	6.9	6.6	6.7
27	6.2	5.6	5.8	4.9	4.7	4.9	6.1	6.0	6.1	6.9	6.7	6.8
28	6.2	5.6	6.2	5.0	4.9	4.9	6.1	5.9	6.0	6.8	6.6	6.6
29	6.3	5.9	6.2	5.0	4.7	4.9	6.3	5.9	6.2	6.9	6.6	6.7
30	6.2	5.9	6.2	4.9	4.6	4.8	6.5	6.3	6.3	6.8	6.6	6.6
31	---	---	---	4.8	4.6	4.7	7.1	6.3	6.4	---	---	---
MAX	6.5	6.2	6.3	6.9	6.6	6.9	7.1	6.3	6.4	7.1	6.7	6.8
MIN	5.5	4.9	5.3	4.3	4.2	4.3	5.3	4.6	5.2	6.5	6.4	6.4
YEAR	MAX	MAXIMUM 7.1 MINIMUM 4.3		MIN	MAXIMUM 6.9 MINIMUM 4.2		MEDIAN	MAXIMUM 7.0 MINIMUM 4.3				

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	14.7	11.9	13.4	11.9	10.1	10.8	8.3	6.5	7.5	7.7	6.9	7.3
2	14.9	13.9	14.6	12.9	10.6	11.9	6.6	5.3	6.0	9.0	7.0	7.8
3	13.9	11.1	12.4	12.8	11.2	12.1	6.3	5.2	5.7	11.0	9.0	9.7
4	12.6	10.7	11.8	11.2	10.3	10.7	5.2	3.3	4.3	10.5	7.7	8.8
5	12.1	10.0	10.9	10.7	8.5	9.2	5.8	4.3	5.1	7.7	5.6	6.5
6	11.2	8.9	10.2	8.5	6.9	7.8	7.3	5.4	6.1	---	---	---
7	12.1	9.4	10.8	9.6	7.5	8.6	10.3	7.3	8.8	---	---	---
8	12.9	10.4	11.7	9.6	7.0	8.3	10.2	7.7	9.0	---	---	---
9	14.0	12.5	13.1	7.0	5.1	5.9	7.7	6.0	6.7	---	---	---
10	13.3	11.1	12.2	6.3	4.4	5.5	8.8	7.2	8.0	---	---	---
11	11.9	10.2	11.2	7.5	6.2	6.9	8.7	6.0	7.3	---	---	---
12	11.4	9.6	10.7	7.4	6.6	7.2	6.0	5.4	5.6	---	---	---
13	11.3	10.2	10.7	6.6	5.0	5.7	5.5	3.8	4.8	---	---	---
14	12.1	11.3	11.7	5.0	3.5	4.3	3.8	2.5	3.0	---	---	---
15	12.3	11.6	12.1	4.6	3.1	3.9	2.5	1.4	1.8	---	---	---
16	11.6	10.1	10.9	6.3	4.1	5.1	2.5	0.8	1.5	---	---	---
17	10.1	9.0	9.6	8.3	6.3	7.5	3.3	2.5	2.9	---	---	---
18	9.0	7.6	8.0	9.8	8.3	9.1	3.0	1.2	2.1	---	---	---
19	10.5	8.1	9.0	11.1	9.8	10.5	3.2	0.3	2.2	---	---	---
20	12.3	10.5	11.4	11.6	11.0	11.2	0.5	0.1	0.2	---	---	---
21	12.8	12.1	12.5	11.4	10.3	10.8	1.2	0.2	0.7	---	---	---
22	12.5	10.9	11.8	10.3	8.6	9.2	1.6	0.7	1.0	---	---	---
23	11.6	10.0	11.0	9.8	8.2	8.8	2.9	0.7	1.6	---	---	---
24	13.8	11.5	12.6	10.6	9.6	10.0	3.5	2.5	3.1	---	---	---
25	13.6	12.6	13.1	10.8	6.4	9.1	2.6	1.1	1.7	---	---	---
26	12.6	10.8	11.8	6.4	4.4	5.2	3.1	2.1	2.7	---	---	---
27	13.1	11.6	12.2	7.8	5.8	6.8	2.9	1.2	1.9	---	---	---
28	12.3	10.8	11.7	7.8	6.8	7.5	1.9	0.3	1.1	---	---	---
29	12.4	11.2	11.8	6.8	5.5	6.2	4.2	1.9	3.2	---	---	---
30	14.5	12.4	13.4	7.7	6.5	7.0	5.6	4.1	4.6	---	---	---
31	14.2	11.9	13.1	---	---	---	7.3	5.6	6.4	---	---	---
MONTH	14.9	7.6	11.7	12.9	3.1	8.1	10.3	0.1	4.1	11.0	5.6	8.0

03121850 Huff Run at Mineral City, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	8.2	7.5	7.9	10.3	9.0	9.7	13.1	10.9	11.8	11.0	10.6	10.9
2	7.9	7.4	7.7	10.2	9.4	9.8	12.1	11.7	11.9	11.3	10.9	11.1
3	8.5	7.5	8.0	10.1	9.5	9.9	12.0	11.7	11.9	12.0	9.8	10.7
4	9.4	7.5	8.3	10.4	10.0	10.2	12.7	12.0	12.3	11.4	9.9	10.9
5	10.3	7.6	9.0	11.1	10.2	10.9	12.3	11.7	12.0	12.0	11.4	11.7
6	10.9	8.2	9.0	11.6	11.0	11.3	11.8	11.2	11.6	---	---	---
7	9.4	8.9	9.1	11.4	10.8	11.1	11.2	10.1	10.6	---	---	---
8	9.3	8.9	9.0	11.8	10.7	11.3	11.3	10.1	10.8	---	---	---
9	9.0	8.6	8.8	12.6	11.8	12.3	11.9	11.3	11.6	---	---	---
10	9.3	8.6	9.1	12.8	11.7	12.2	11.3	10.7	11.0	---	---	---
11	9.8	9.1	9.4	11.7	11.2	11.4	11.7	10.7	11.2	---	---	---
12	9.9	9.3	9.6	11.5	11.1	11.3	11.8	11.6	11.7	---	---	---
13	9.6	9.2	9.4	12.2	11.5	11.9	12.1	11.6	11.8	---	---	---
14	9.2	8.9	9.1	12.8	12.2	12.5	12.5	12.1	12.3	---	---	---
15	8.9	8.7	8.8	12.8	12.5	12.6	12.5	12.1	12.3	---	---	---
16	9.5	8.8	9.2	12.5	11.7	12.2	12.1	11.1	11.8	---	---	---
17	9.9	9.4	9.7	11.7	10.9	11.3	11.1	10.3	10.7	---	---	---
18	10.7	9.7	10.4	10.9	10.3	10.6	10.3	9.4	10.0	---	---	---
19	10.7	9.8	10.5	11.6	10.0	10.6	9.4	9.0	9.1	---	---	---
20	9.9	9.2	9.7	12.4	10.2	11.4	---	---	---	---	---	---
21	9.4	9.2	9.3	12.9	10.5	11.8	---	---	---	---	---	---
22	9.7	9.2	9.5	13.4	11.0	12.4	---	---	---	---	---	---
23	9.9	9.5	9.7	13.5	10.7	12.2	---	---	---	---	---	---
24	9.6	8.9	9.2	12.9	10.4	12.2	---	---	---	---	---	---
25	9.1	8.9	9.0	13.4	12.0	12.6	---	---	---	---	---	---
26	9.7	9.1	9.4	14.8	13.1	14.0	---	---	---	---	---	---
27	9.5	9.1	9.3	14.0	12.8	13.5	---	---	---	---	---	---
28	9.6	9.2	9.3	13.7	12.9	13.4	11.9	11.3	11.5	---	---	---
29	9.4	9.0	9.3	14.6	13.7	14.1	11.3	10.9	11.1	---	---	---
30	9.1	8.5	8.8	14.0	13.0	13.8	11.2	10.8	11.0	---	---	---
31	9.1	8.5	8.8	---	---	---	11.3	10.6	10.8	---	---	---
MONTH	10.9	7.4	9.1	14.8	9.0	11.8	13.1	9.0	11.3	12.0	9.8	11.1

DAY	FEBRUARY			MARCH			APRIL			MAY		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	---	---	---	---	---	---	10.5	9.2	10.1	10.6	9.4	10.0
2	---	---	---	---	---	---	10.9	10.3	10.5	10.6	9.7	10.2
3	---	---	---	---	---	---	11.5	9.4	10.9	11.0	10.2	10.6
4	---	---	---	---	---	---	12.0	7.8	9.9	11.6	9.6	10.7
5	---	---	---	---	---	---	11.7	9.7	10.8	11.3	8.8	10.3
6	---	---	---	---	---	---	11.0	9.3	10.1	10.3	8.6	9.5
7	---	---	---	---	---	---	10.5	9.5	10.1	10.0	8.6	9.4
8	---	---	---	12.1	10.2	11.3	10.9	9.5	10.3	10.2	8.3	9.3
9	---	---	---	12.8	12.1	12.4	11.2	9.4	10.3	10.0	8.3	9.1
10	---	---	---	12.6	11.6	12.2	10.9	9.2	10.1	9.6	8.1	8.9
11	---	---	---	12.0	11.6	11.8	10.8	9.3	10.0	9.3	7.5	8.6
12	---	---	---	12.1	11.4	11.8	10.9	9.4	10.3	9.3	7.5	8.7
13	---	---	---	12.0	11.3	11.7	11.2	9.7	10.5	10.2	8.3	9.5
14	---	---	---	12.7	11.2	12.0	11.2	9.7	10.5	9.2	8.3	8.7
15	---	---	---	12.4	11.1	11.8	11.1	9.5	10.4	10.0	8.6	9.3
16	---	---	---	12.3	10.9	11.7	10.9	9.5	10.2	10.4	9.1	10.0
17	---	---	---	11.9	10.7	11.4	10.7	9.4	10.1	10.9	9.4	10.3
18	---	---	---	11.6	10.3	11.1	10.4	8.7	9.7	10.7	9.0	9.9
19	---	---	---	11.4	10.3	11.0	9.7	8.5	9.0	10.0	8.9	9.5
20	---	---	---	11.3	10.6	11.0	9.5	8.5	9.0	10.0	9.2	9.6
21	---	---	---	11.7	11.3	11.5	10.0	8.6	9.4	10.4	9.0	9.8
22	---	---	---	12.2	10.6	11.7	10.4	9.2	9.9	10.0	8.8	9.5
23	---	---	---	11.2	10.6	11.0	10.5	9.3	9.8	9.9	8.7	9.3
24	---	---	---	11.8	11.0	11.5	11.3	10.5	11.0	10.2	9.3	9.8
25	---	---	---	11.9	11.1	11.6	11.6	10.0	11.0	10.5	9.4	10.1
26	---	---	---	11.4	10.5	11.1	10.8	8.8	9.8	10.0	8.8	9.5
27	---	---	---	11.3	10.5	11.0	9.8	8.9	9.5	9.3	8.6	8.9
28	---	---	---	10.8	10.6	10.7	10.5	9.4	10.0	9.3	8.4	8.9
29	---	---	---	11.2	9.8	10.7	10.0	9.1	10.0	9.8	8.6	9.3
30	---	---	---	11.0	9.2	10.2	10.0	9.2	9.6	9.5	8.5	8.9
31	---	---	---	10.3	9.0	9.6	---	---	---	9.1	8.1	8.7
MONTH	---	---	---	12.8	9.0	11.3	12.0	7.8	10.1	11.6	7.5	9.5

03121850 Huff Run at Mineral City, Ohio—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—Continued

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
1	8.9	8.1	8.5	---	---	---	7.8	7.0	7.4	8.2	5.6	7.1
2	8.7	8.0	8.3	---	---	---	7.7	7.1	7.4	8.3	7.1	7.5
3	8.4	7.9	8.1	---	---	---	8.0	7.1	7.6	8.6	8.0	8.3
4	8.0	7.2	7.7	---	---	---	7.7	6.7	7.3	9.8	8.4	8.9
5	7.4	6.7	7.1	---	---	---	7.9	6.7	7.4	11.6	9.8	10.9
6	8.5	6.4	7.2	---	---	---	7.9	7.6	7.7	12.1	10.6	11.5
7	8.7	8.3	8.4	---	---	---	7.6	7.2	7.4	11.5	9.9	10.8
8	8.7	8.3	8.5	---	---	---	7.5	6.9	7.2	10.5	9.4	10
9	8.8	7.9	8.4	---	---	---	7.3	6.6	7.0	9.5	8.7	9.2
10	8.5	7.6	8.2	---	---	---	9.4	6.7	8.8	9.2	8.4	8.8
11	8.1	7.5	7.8	---	---	---	9.1	8.5	8.8	9.1	8.3	e8.7
12	8.1	7.5	7.8	---	---	---	8.8	8.0	8.4	8.8	7.7	8.4
13	7.8	7.4	7.6	---	---	---	8.5	7.9	8.2	---	---	---
14	7.8	7.2	7.5	---	---	---	8.3	7.9	8.0	---	---	---
15	7.7	7.1	7.4	---	---	---	7.9	7.2	7.7	---	---	---
16	8.0	7.4	7.7	---	---	---	7.8	7.0	7.5	---	---	---
17	8.1	7.5	7.9	---	---	---	7.8	7.0	7.2	---	---	---
18	8.4	7.7	8.0	---	---	---	8.1	6.9	7.4	---	---	---
19	8.2	7.4	7.9	---	---	---	7.8	6.8	7.2	---	---	---
20	8.2	7.2	7.7	---	---	---	7.9	6.6	7.1	---	---	---
21	7.7	7.1	7.3	---	---	---	7.8	7.1	7.6	---	---	---
22	7.3	6.7	7.0	---	---	---	7.8	6.8	7.4	---	---	---
23	7.2	6.6	6.9	---	---	---	8.6	7.1	7.9	---	---	---
24	7.2	6.4	6.9	---	---	---	8.7	7.5	8.2	---	---	---
25	7.1	6.0	6.5	---	---	---	9.2	7.7	8.5	---	---	---
26	6.8	6.0	6.3	---	---	---	8.9	7.5	8.3	---	---	---
27	8.4	5.8	6.2	9.3	6.0	6.6	8.4	7.4	7.9	---	---	---
28	9.0	8.3	8.6	8.0	6.0	7.2	8.8	7.4	8.1	---	---	---
29	9.8	8.5	9.0	8.0	7.0	7.6	7.8	6.0	7.2	9.8	8.3	9.0
30	9.1	6.4	7.8	8.6	7.2	7.8	9.9	6.0	7.2	10.6	9.4	10.3
31	---	---	---	8.3	6.9	7.5	9.0	4.8	6.3	---	---	---
MONTH	9.8	5.8	7.7	9.3	6.0	7.3	9.9	4.8	7.7	12.1	5.6	9.2
YEAR	14.8	4.8	9.7									

e, estimated.

03124500 Sugar Creek at Strasburg, Ohio

LOCATION.—Latitude 40°35'15", longitude 81°31'24", in NW ¼ sec. 1, T.9 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on left bank 150 ft upstream from bridge on State Highway 21, 0.8 mi upstream from Broad Run, and 0.1 mi southeast of Strasburg, Ohio.

DRAINAGE AREA.—311 mi².

PERIOD OF RECORD.—August 1931 to March 1933, January 1935 to July 1939, October 1961 to current year.

REVISED RECORDS.—WSP 1305: 1932-33(M). WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 896.24 ft, National Geodetic Vertical Datum of 1912. July 29, 1931-Mar. 31, 1933, and Dec. 10, 1934-July 31, 1939, nonrecording gage; Oct. 1, 1961-May 26, 1964, water-stage recorder at datum 2.00 ft higher.

REMARKS.—Records good except for periods of estimated record, which are poor. Flood flow regulated by Beach City Lake 5 mi upstream, since August 1937.

Part of municipal water supply for City of Canton, starting May 1962, is pumped from well field; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 2005, 15.7 ft³/s. Water-quality data formerly collected at this site.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	144	580	1660	1680	e538	e427	e553	124	78	61	1190
2	120	118	1270	1390	529	e531	e794	e438	112	60	51	1140
3	117	130	811	1570	380	e454	e1320	337	105	50	46	392
4	112	210	504	1720	343	e424	e1560	304	102	43	41	191
5	105	340	388	1360	322	e434	e1820	271	99	52	81	130
6	99	271	329	578	321	e478	e1710	247	93	198	279	103
7	94	194	316	466	356	e596	e782	230	93	139	146	86
8	92	157	424	1070	691	e686	e560	215	89	84	78	76
9	89	135	419	1960	1490	e586	e466	198	80	101	58	70
10	87	121	647	2080	1520	e466	e402	184	79	65	49	65
11	84	113	808	2110	1000	e442	e357	175	85	50	44	59
12	81	115	590	669	618	e434	e323	211	88	44	47	53
13	80	131	505	599	532	e422	e300	235	79	47	46	50
14	82	114	440	1120	524	e378	e277	400	73	88	57	48
15	84	100	372	2320	1090	e364	e238	686	73	154	83	45
16	90	97	332	2290	1150	e354	e212	442	70	146	57	49
17	94	97	315	2330	1010	e354	e198	298	69	92	53	82
18	89	104	294	2010	820	e352	e190	240	65	68	45	83
19	124	144	284	2460	546	e341	e184	206	61	59	38	59
20	162	510	219	2440	456	e344	e181	193	57	63	37	49
21	118	531	227	2460	457	e344	e286	196	55	51	44	45
22	99	355	244	2470	531	e321	e319	170	53	48	47	43
23	90	285	526	2390	466	e319	e485	159	53	86	35	53
24	98	256	1680	1320	415	e369	e1190	191	50	72	30	133
25	151	374	1600	1890	e466	e369	e1250	182	46	50	28	92
26	124	481	1500	1930	e445	e354	e1270	152	46	63	27	88
27	100	346	656	1920	e416	e354	e961	137	46	312	35	296
28	91	301	430	1670	e419	e411	e713	135	44	480	42	200
29	90	286	414	1890	---	e859	e540	163	47	231	37	125
30	170	249	459	1810	---	e683	e510	152	72	115	53	167
31	203	---	964	1850	---	e500	---	132	---	78	657	---
TOTAL	3348	6809	18547	53802	18993	13861	19825	7832	2208	3267	2432	5262
MEAN	108	227	598	1736	678	447	661	253	73.6	105	78.5	175
MAX	203	531	1680	2470	1680	859	1820	686	124	480	657	1190
MIN	80	97	219	466	321	319	181	132	44	43	27	43
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932-2005, BY WATER YEAR (WY)												
MEAN	92.8	177	318	422	479	611	503	319	247	183	150	118
MAX	583	929	1001	2025	1174	1297	953	1089	1123	2128	1219	1048
(WY)	1991	1986	1978	1937	1981	1963	1980	1996	2004	1969	1935	1979
MIN	0.00	4.08	7.70	36.9	32.2	151	90.2	72.6	25.3	11.8	11.2	3.34
(WY)	1964	1964	1964	1977	1964	1987	1935	1986	1988	1965	1962	1966
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1932-2005		
ANNUAL TOTAL				187714			156186					
ANNUAL MEAN				513			428			301		
HIGHEST ANNUAL MEAN										520		
LOWEST ANNUAL MEAN										160		
HIGHEST DAILY MEAN				2030	Feb 7		2470	Jan 22		10200	Aug 7	1935
LOWEST DAILY MEAN				70	Aug 17		27	Aug 26		0.00	Sep 29	1963
ANNUAL SEVEN-DAY MINIMUM				79	Aug 12		33	Aug 23		0.00	Sep 29	1963
MAXIMUM PEAK FLOW							2850	Jan 11		19700	Aug 7	1935
MAXIMUM PEAK STAGE							6.55	Jan11		14.70	Aug 7	1935
INSTANTANEOUS LOW FLOW							27	Aug 26		0.00	Sep 29	1963
10 PERCENT EXCEEDS				1510			1270			790		
50 PERCENT EXCEEDS				300			212			135		
90 PERCENT EXCEEDS				108			50			26		

e Estimated.

03129000 Tuscarawas River at Newcomerstown, Ohio

LOCATION.—Latitude 40°15'41", longitude 81°36'33", in T.5 N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on right bank 150 ft upstream from highway bridge, 0.2 mi south of Newcomerstown, Ohio, 2 mi upstream from Buckhorn Creek, and 4 mi downstream from Dunlap Creek.

DRAINAGE AREA.—2,443 mi².

PERIOD OF RECORD.—September 1921 to current year.

REVISED RECORDS.—WSP 728: 1929(M). WSP 873: 1935. WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 780.00 ft, National Geodetic Vertical Datum of 1912. Gage located 1.5 mi upstream from 1921 to Oct. 1, 1934. From 1921 to Sept. 28, 1925, non-recording gage at 785.03 ft above sea level; Sept. 28, 1925-Oct. 1, 1934, recording gage at 785.03 ft above sea level. Gage moved to current location Oct. 1, 1934. From Oct. 1, 1934-July 17, 1935, recording gage at 780.03 ft above sea level; July 18, 1935 -Feb. 13, 1939, non-recording gage at 780.03 ft above sea level; Feb. 13, 1939 to present, recording gage at 780.00 ft above sea level.

REMARKS.—Records excellent. Diversion from basin at Portage Lakes (see REMARKS for station 03117000). Flow regulated by eight flood-control reservoirs at points 40 mi to 64 mi upstream. Water-quality data formerly collected at this site. U.S. Army of Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913 reached a stage of about 21.5 ft, at site and datum used prior to Oct. 1, 1934, discharge, 83,000 ft³/s computed by U.S. Army Corps of Engineers.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4910	2750	6740	7130	10300	3980	4700	6430	1810	927	861	6970
2	3690	2590	8740	7480	9810	4380	7000	5960	1720	803	750	6570
3	3220	2870	8890	8030	8850	4010	10200	5370	1590	725	694	4630
4	3060	3400	8160	10500	8740	3600	10300	5010	1510	655	638	2240
5	2940	3850	6940	11300	8620	3430	9830	4660	1440	663	634	1470
6	2860	3890	5630	14700	8560	3500	9520	4160	1370	1320	1800	1180
7	2790	3370	5710	11900	8640	3770	9200	3300	1290	1630	2160	1000
8	2700	2910	5680	9040	9110	4940	8180	2820	1240	1150	1410	883
9	2440	2640	6090	10100	9870	5660	7320	2620	1180	905	968	820
10	2290	2480	6700	11600	10400	5080	6970	2420	1150	822	763	765
11	2220	2220	7610	11800	10000	4410	6950	2310	1120	710	690	723
12	2140	2210	7220	14000	9170	4040	6780	2340	1120	647	655	679
13	1970	2260	6220	14600	8470	3850	5730	2810	1060	619	648	647
14	1680	2280	5780	14600	7880	3560	4440	2760	1010	729	707	621
15	1490	2150	5380	14700	9100	3270	3020	4810	978	1050	937	604
16	1470	2140	4850	14400	9660	2990	2670	5810	983	1420	754	593
17	1440	2260	4380	13900	9680	2790	2480	4470	994	1120	672	720
18	1410	2290	3930	13400	8980	2740	2360	3580	973	1000	608	768
19	1980	2550	3440	12900	8100	2700	2300	3160	916	924	583	699
20	2570	3780	3270	12700	7210	2690	2300	2770	854	863	550	630
21	2440	4880	2830	12700	7000	2730	2690	2610	808	812	612	584
22	2120	4320	2650	13000	6920	2830	3090	2410	775	744	611	555
23	1860	3850	6290	13200	6620	2740	3790	2190	749	934	603	575
24	1820	3830	9560	13400	5440	3240	6630	2290	724	975	534	819
25	1820	5200	9170	13300	4500	3820	8540	2650	694	754	498	892
26	1890	6110	8880	13100	3940	3440	8540	2320	761	806	482	899
27	1700	6170	7990	12000	3660	3170	8950	2030	837	1190	492	1820
28	1550	5380	6730	10800	3510	3370	8640	1900	702	3690	548	2570
29	1620	5000	7150	10700	---	5140	7920	2000	714	2720	530	1780
30	2500	4710	6850	10500	---	6260	7000	2070	882	1550	556	1610
31	3270	---	6380	10300	---	5430	---	1920	---	1080	4450	---
TOTAL	71860	104340	195840	371780	222740	117560	188040	101960	31954	33937	27398	45316
MEAN	2318	3478	6317	11990	7955	3792	6268	3289	1065	1095	884	1511
MAX	4910	6170	9560	14700	10400	6260	10300	6430	1810	3690	4450	6970
MIN	1410	2140	2650	7130	3510	2690	2300	1900	694	619	482	555
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)												
MEAN	983	1719	2669	3471	3920	4837	4416	3158	2212	1530	1187	1081
MAX	4257	7201	8471	16130	9762	11090	7909	9194	8339	7663	8648	7774
(WY)	1991	1986	1928	1937	1959	1945	1948	1996	1981	1969	1935	2004
MIN	227	253	255	354	422	969	1155	541	430	291	233	245
(WY)	1931	1931	1931	1931	1934	1931	1925	1934	1988	1930	1930	1930
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1922-2005		
ANNUAL TOTAL				1916537			1512725					
ANNUAL MEAN				5236			4144			2591		
HIGHEST ANNUAL MEAN										5218		
LOWEST ANNUAL MEAN										967		
HIGHEST DAILY MEAN				14600	Jan 6		14700	Jan 6		45000	Jan 26	1937
LOWEST DAILY MEAN				997	Aug 18		482	Aug 26		170	Aug 6	1930
ANNUAL SEVEN-DAY MINIMUM				1130	Aug 12		520	Aug 24		197	Dec 18	1930
MAXIMUM PEAK FLOW							15200	Jan 6		46800	Jan 26	1937
MAXIMUM PEAK STAGE							10.32	Jan 6		20.65	Jan 26	1937
INSTANTANEOUS LOW FLOW							473	Aug 26		216	Aug 15	1944
10 PERCENT EXCEEDS				9000			9670			6730		
50 PERCENT EXCEEDS				4880			2790			1500		
90 PERCENT EXCEEDS				1900			705			425		

03136500 Kokosing River at Mount Vernon, Ohio

LOCATION.—Latitude 40°24'20", longitude 82°30'00", in sec. 2, T.6 N., R.13 W., Knox County, Hydrologic Unit 05040003, on right bank 300 ft downstream from Tilden Avenue Bridge at Mount Vernon, Ohio, 0.8 mi downstream from North Branch, and 2.7 mi upstream from Dry Creek.

DRAINAGE AREA.—202 mi².

PERIOD OF RECORD.—February 1953 to current year.

REVISED RECORDS.—WSP 2107: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 981.16 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to May 21, 1991, gage at same site and at datum 3.00 ft higher.

REMARKS.—Records fair. Some regulation by Knox Lake, capacity, 3,750 acre-ft, 8.2 mi upstream on East Branch of North Branch Kokosing River beginning in 1954 and North Branch Kokosing River Lake, 14,886 acre-ft, 10 mi upstream on North Branch Kokosing River, beginning in June 1972. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
1	54	60	534	2160	194	295	350	419	92	81	54	784		
2	53	63	480	1170	182	266	728	339	90	80	50	336		
3	52	71	309	1770	180	240	1450	294	85	64	51	189		
4	51	102	230	2630	170	218	1430	257	83	58	43	117		
5	50	117	187	2580	166	229	793	231	80	72	68	96		
6	49	103	157	5090	170	297	544	205	92	120	87	80		
7	48	92	163	2470	213	419	474	186	124	100	74	72		
8	48	83	248	1780	1250	428	398	172	103	77	61	69		
9	46	75	253	1520	1450	310	338	157	90	66	54	63		
10	47	71	370	1190	1010	250	298	145	278	58	50	59		
11	47	70	354	1230	603	241	271	141	409	52	48	52		
12	48	83	315	4590	458	227	248	161	219	49	45	51		
13	48	76	266	2840	409	205	226	142	141	53	43	49		
14	50	69	228	2610	417	187	200	299	113	57	49	49		
15	51	70	184	1590	601	189	186	310	93	99	54	51		
16	53	72	161	1210	564	202	158	240	87	93	55	57		
17	51	76	150	867	613	213	149	194	79	96	53	60		
18	55	95	141	578	445	210	146	164	76	94	50	59		
19	69	168	141	502	344	204	140	149	70	86	47	57		
20	66	322	119	447	313	254	137	161	67	101	49	55		
21	63	254	121	403	354	253	176	151	65	80	63	55		
22	59	196	121	378	398	216	173	135	64	74	61	53		
23	57	169	212	338	331	252	581	131	61	92	54	71		
24	63	160	261	309	288	324	1110	136	57	78	49	89		
25	66	224	258	298	252	288	1090	125	57	65	44	78		
26	63	212	219	285	243	395	1040	115	56	62	45	106		
27	61	185	181	250	221	357	953	105	53	82	46	322		
28	59	179	159	226	225	898	664	103	52	111	45	168		
29	61	186	160	217	---	1180	486	109	53	96	44	118		
30	63	177	254	219	---	617	454	105	57	74	76	132		
31	62	---	1670	205	---	442	---	99	---	60	833	---		
TOTAL	1713	3880	8606	41952	12064	10306	15391	5680	3046	2430	2445	3597		
MEAN	55.3	129	278	1353	431	332	513	183	102	78.4	78.9	120		
MAX	69	322	1670	5090	1450	1180	1450	419	409	120	833	784		
MIN	46	60	119	205	166	187	137	99	52	49	43	49		
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953-2005, BY WATER YEAR (WY)														
MEAN	63.2	136	238	293	338	409	385	279	206	143	80.1	71.4		
MAX	275	635	979	1353	805	1068	845	820	909	636	438	587		
(WY)	1991	1973	1991	2005	1975	1963	1964	1996	1998	1990	1980	1979		
MIN	15.1	20.4	23.0	36.0	31.4	129	122	53.0	29.1	25.0	14.2	16.7		
(WY)	1964	1972	1964	1964	1964	1983	1971	1955	1955	1965	2001	1954		
SUMMARY STATISTICS														
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1953-2005				
ANNUAL TOTAL				110708			111110							
ANNUAL MEAN				302			304			221				
HIGHEST ANNUAL MEAN										327				
LOWEST ANNUAL MEAN										78.7				
HIGHEST DAILY MEAN				3050	Jan 5		5090	Jan 6		14600	Jan 21	1959		
LOWEST DAILY MEAN				46	Oct 9		43	Aug 4		8.6	Aug 22	1988		
ANNUAL SEVEN-DAY MINIMUM				47	Oct 7		47	Aug 23		11	Aug 17	2001		
MAXIMUM PEAK FLOW							6060	Jan 12		38000	Jan 21	1959		
MAXIMUM PEAK STAGE							11.87	Jan 12		18.19	Jan 21	1959		
INSTANTANEOUS LOW FLOW							37	Aug 14		8.6	Aug 22	1988		
10 PERCENT EXCEEDS				704			607			485				
50 PERCENT EXCEEDS				188			146			104				
90 PERCENT EXCEEDS				60			52			30				

03139000 Killbuck Creek at Killbuck, Ohio

LOCATION.—Latitude 40°28'53", longitude 81°59'10", Holmes County, Hydrologic Unit 05040003, on right bank at downstream side of U.S. Highway 62 bridge south of Killbuck, Ohio, and 1.2 mi downstream from Black Creek. Prior to Oct. 5, 1976, at site 0.9 mi upstream.

DRAINAGE AREA.—464 mi².

PERIOD OF RECORD.—October 1930 to current year.

REVISED RECORDS.—WSP 873: 1935. WSP 1555: 1935. WSP 1907: Drainage area. WDR-OH-70-1: 1969. WDR-OH-77-1: Drainage area: WDR-OH-87-1: 1984-86.

GAGE.—Water-stage recorder. Datum of gage is 788.05 ft above sea level. Prior to Oct. 1, 1949, nonrecording gage; Oct. 1, 1949-Oct. 5, 1976, water-stage recorder and nonrecording gage, at site 0.9 mi upstream at same datum.

REMARKS.—Records good. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	155	181	742	2200	537	777	749	1110	281	203	174	861	
2	150	171	836	2360	510	727	1110	940	263	160	152	519	
3	146	208	772	2680	516	670	1900	780	253	138	133	380	
4	141	317	688	3810	501	635	2100	660	244	125	124	290	
5	136	381	575	4050	492	634	2120	579	234	222	152	231	
6	129	347	483	8980	501	633	2120	533	232	280	235	192	
7	124	296	457	6390	560	672	1900	497	237	177	173	167	
8	121	247	492	4030	1080	737	1500	459	227	157	140	147	
9	116	209	473	3650	1510	702	1150	426	214	151	123	136	
10	112	191	675	3190	1630	664	942	404	296	134	116	125	
11	107	178	689	2910	1630	646	759	387	320	123	133	115	
12	107	183	673	4680	1640	631	631	457	233	118	135	110	
13	108	171	635	5120	1430	600	567	407	203	120	118	106	
14	118	153	573	4110	1270	559	514	756	196	138	116	101	
15	125	145	496	3600	1580	540	469	767	191	169	123	101	
16	138	141	442	3110	1570	528	436	638	186	175	118	133	
17	130	142	416	2810	1640	526	412	545	177	155	110	138	
18	127	165	393	2440	1550	532	396	474	169	144	102	111	
19	175	291	378	2100	1370	533	383	432	159	152	97	104	
20	175	475	347	1720	1200	557	371	421	150	137	95	101	
21	169	440	368	1420	1110	546	504	400	144	126	108	102	
22	152	369	320	1200	1030	539	504	378	148	151	98	99	
23	144	315	671	1060	987	553	977	383	142	176	97	151	
24	185	295	1180	923	948	590	1680	410	133	149	90	181	
25	190	359	993	904	873	599	1830	373	128	127	87	132	
26	184	385	908	819	799	602	1930	345	131	134	85	201	
27	170	365	784	719	714	578	1920	323	144	640	88	347	
28	159	331	690	623	691	772	1790	311	136	414	92	285	
29	172	292	646	618	---	976	1530	314	145	339	91	235	
30	223	272	715	597	---	917	1260	296	181	264	114	212	
31	197	---	1360	570	---	853	---	315	---	209	1070	---	
TOTAL	4585	8015	19870	83393	29869	20028	34454	15520	5897	5907	4689	6113	
MEAN	148	267	641	2690	1067	646	1148	501	197	191	151	204	
MAX	223	475	1360	8980	1640	976	2120	1110	320	640	1070	861	
MIN	107	141	320	570	492	526	371	296	128	118	85	99	
CFSM	0.32	0.58	1.38	5.80	2.30	1.39	2.48	1.08	0.42	0.41	0.33	0.44	
IN.	0.37	0.64	1.59	6.69	2.39	1.61	2.76	1.24	0.47	0.47	0.38	0.49	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931-2005, BY WATER YEAR (WY)													
MEAN	138	223	387	574	666	851	760	526	411	282	199	154	
MAX	1015	1286	1509	2690	1648	1685	1400	1523	2281	3960	2147	1473	
(WY)	1991	1986	1991	2005	1975	1978	1957	1996	1947	1969	1935	1979	
MIN	26.8	37.1	38.1	42.3	71.6	124	170	71.8	69.9	39.6	34.7	25.6	
(WY)	1964	1954	1964	1945	1934	1931	1935	1934	1988	1954	1932	1954	
SUMMARY STATISTICS													
				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1931-2005	
ANNUAL TOTAL				244000				238340					
ANNUAL MEAN				667				653				430	
HIGHEST ANNUAL MEAN												698	
LOWEST ANNUAL MEAN												128	
HIGHEST DAILY MEAN				3250	Jun 18				8980	Jan 6	37200	Jul 6	1969
LOWEST DAILY MEAN				74	Aug 18				85	Aug 26	23	Sep 10	1954
ANNUAL SEVEN-DAY MINIMUM				82	Aug 12				90	Aug 23	23	Sep 8	1954
MAXIMUM PEAK FLOW								10500				47500	
MAXIMUM PEAK STAGE								18.17				26.40	
INSTANTANEOUS LOW FLOW								84				23	
ANNUAL RUNOFF (CFSM)				1.44				1.41				0.93	
ANNUAL RUNOFF (INCHES)				19.56				19.11				12.58	
10 PERCENT EXCEEDS				1470				1560				1100	
50 PERCENT EXCEEDS				472				371				212	
90 PERCENT EXCEEDS				148				121				58	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03140000 Mill Creek near Coshocton, Ohio

LOCATION.—Latitude 40°21'46", longitude 81°51'45", Coshocton County, Hydrologic Unit 05040003, on left bank 0.5 mi downstream from Little Mill Creek and 6 mi north of Coshocton, Ohio.

DRAINAGE AREA.—27.2 mi².

PERIOD OF RECORD.—October 1936 to current year. Monthly discharge only for October 1936, published in WSP 1305.

REVISED RECORDS.—WSP 1143: 1946, 1947-48(P). WSP 1907: Drainage area.

GAGE.—Water-stage recorder and concrete control. Datum of gage is 782.00 ft, National Geodetic Vertical Datum of 1912.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality data formerly collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	12	218	60	e19	44	32	41	11	5.3	2.8	21
2	11	13	77	49	e18	34	284	35	9.1	3.5	2.7	9.8
3	10	22	53	253	e18	32	159	31	8.5	3.1	2.5	6.6
4	9.9	37	42	293	e18	31	81	28	7.9	3.0	2.4	5.4
5	9.2	30	34	565	20	32	59	25	7.3	3.3	6.1	4.8
6	9.1	22	31	909	26	32	49	24	7.0	5.2	7.8	4.4
7	8.5	18	37	197	47	34	45	22	6.4	3.2	3.5	4.1
8	8.4	15	33	219	174	41	39	20	5.9	3.0	2.9	3.8
9	8.3	13	56	127	110	30	34	18	5.5	2.7	2.6	3.7
10	8.2	12	97	90	67	29	31	17	5.3	2.5	2.6	3.6
11	8.0	12	58	291	46	30	27	18	6.8	2.4	2.8	3.3
12	7.9	15	49	768	43	30	25	29	5.5	2.5	2.7	3.3
13	8.3	12	43	234	37	27	23	17	5.0	2.9	2.5	3.3
14	8.5	10	34	343	123	24	20	27	5.0	11	3.6	3.2
15	9.9	10	29	126	104	23	19	21	5.0	7.4	3.1	3.2
16	12	11	27	89	77	22	17	16	4.7	14	3.2	13
17	10	11	26	67	57	22	16	15	4.5	4.5	3.4	15
18	12	14	24	65	44	21	16	13	4.0	3.6	2.6	4.7
19	22	104	24	52	40	20	16	13	3.8	3.8	2.5	3.7
20	10	81	21	47	36	22	28	18	3.7	3.2	4.8	3.4
21	9.0	49	20	43	47	20	68	14	3.5	2.9	5.1	3.2
22	8.4	38	21	44	37	18	33	12	4.5	7.2	2.9	2.8
23	8.3	33	470	35	33	23	191	16	3.6	4.3	2.5	3.7
24	17	39	110	30	31	23	128	17	3.3	3.0	2.4	3.6
25	9.5	55	65	29	29	21	130	12	3.2	3.1	2.3	3.0
26	8.1	38	40	30	28	21	71	11	3.2	5.3	2.4	17
27	7.8	33	35	26	25	20	66	10	3.1	16	2.7	8.2
28	7.3	34	35	22	35	109	49	15	3.4	5.3	3.1	4.6
29	33	28	36	e20	---	62	44	16	3.7	3.5	3.0	15
30	28	30	55	e20	---	45	49	13	3.6	3.1	28	6.7
31	15	---	83	e19	---	39	---	19	---	2.9	160	---
TOTAL	353.6	851	1983	5162	1389	981	1849	603	157.0	146.7	281.5	191.1
MEAN	11.4	28.4	64.0	167	49.6	31.6	61.6	19.5	5.23	4.73	9.08	6.37
MAX	33	104	470	909	174	109	284	41	11	16	160	21
MIN	7.3	10	20	19	18	18	16	10	3.1	2.4	2.3	2.8
CFSM	0.42	1.04	2.35	6.12	1.82	1.16	2.27	0.72	0.19	0.17	0.33	0.23
IN.	0.48	1.16	2.71	7.06	1.90	1.34	2.53	0.82	0.21	0.20	0.38	0.26
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-2005, BY WATER YEAR (WY)												
MEAN	6.84	14.7	29.4	42.9	48.2	56.4	52.9	33.1	24.0	14.3	8.73	8.08
MAX	56.4	92.1	138	206	106	174	134	79.5	102	161	73.9	96.1
(WY)	1978	1986	1991	1937	1951	1963	1979	1996	1957	1969	1980	1979
MIN	0.10	0.42	0.60	1.49	2.69	15.2	7.87	5.59	1.28	0.57	0.28	0.14
(WY)	1964	1954	1964	1977	1954	1969	1971	1986	1988	1944	1962	1963
SUMMARY STATISTICS												
FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1937-2005				
ANNUAL TOTAL	19454.5				13947.9							
ANNUAL MEAN	53.2				38.2				27.9			
HIGHEST ANNUAL MEAN									54.5			
LOWEST ANNUAL MEAN									7.66			
HIGHEST DAILY MEAN	691 Jan 4				909 Jan 6				2360 Jul 5			
LOWEST DAILY MEAN	6.6 Aug 18				2.3 Aug 25				0.00 Sep 28			
ANNUAL SEVEN-DAY MINIMUM	8.0 Aug 12				2.6 Aug 22				0.06 Aug 25			
MAXIMUM PEAK FLOW					1640 Jan 6a				8720 Jul 5			
MAXIMUM PEAK STAGE					11.00 Jan 6				15.38 Sep 14			
INSTANTANEOUS LOW FLOW					2.3 Aug 13				0.00 Sep 28			
ANNUAL RUNOFF (CFSM)	1.95				1.40				1.03			
ANNUAL RUNOFF (INCHES)	26.61				19.08				13.94			
10 PERCENT EXCEEDS	110				69				63			
50 PERCENT EXCEEDS	27				18				11			
90 PERCENT EXCEEDS	9.1				3.1				1.0			

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03140500 Muskingum River near Coshocton, Ohio

LOCATION.—Latitude 40°14'54", longitude 81°52'23", in T.5 N., R.6 W., Coshocton County, Hydrologic Unit 05040004, on right bank at upstream side of former highway bridge, 1 mi southwest of Coshocton, Ohio, and 2 mi downstream from confluence of Tuscarawas and Walhonding Rivers.

DRAINAGE AREA.—4,859 mi².

PERIOD OF RECORD.—July 1936 to current year.

REVISED RECORDS.—WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 725.00 ft, National Geodetic Vertical Datum of 1912. Prior to Sept.19, 1936, nonrecording gage and Sept. 20, 1936–Sept. 30, 1977, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.—Records good. Flow regulated by 13 flood-control reservoirs at points 19 mi to 88 mi upstream. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood in Mar. 1913 reached a stage of about 28.8 ft, discharge, 202,000 ft³/s, computed by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6430	3900	10600	13700	19500	8080	8910	13200	3240	2360	1890	12000
2	4980	3520	14300	14200	19300	8230	11700	12100	2970	2160	1670	10000
3	4370	3830	14000	16100	18400	7560	17500	10800	2780	1810	1480	7480
4	4070	4620	12300	20300	18100	6830	17700	9470	2640	1620	1360	4490
5	4020	5590	10500	22800	17400	6530	18000	8430	2540	1500	1320	3020
6	3870	5790	8740	31300	16100	6540	18500	7370	2450	2390	1960	2460
7	3680	5190	8250	29900	14000	6880	17000	6270	2830	2720	3060	2140
8	3550	4480	8490	21500	14200	8220	15200	5450	2730	2250	2300	1950
9	3410	4030	8940	22100	17000	9010	12800	5030	2360	1860	1770	1740
10	3200	3640	10600	22400	20000	8390	11200	4750	2240	1670	1460	1620
11	3090	3400	11400	24300	19200	7650	10400	4540	2830	1500	1340	1500
12	3050	3370	11300	31500	17400	7020	9730	4590	2780	1360	1340	1400
13	2840	3340	10000	27200	15500	6710	8840	5080	2430	1350	1310	1330
14	2690	3290	9320	30800	14000	6290	7270	5320	2230	1400	1270	1280
15	2490	3130	8700	27000	15900	5810	5720	7810	2140	1740	1780	1220
16	2430	3020	7670	28100	17100	5450	5010	8550	2070	2290	1620	1230
17	2450	3100	6960	27000	16600	5210	4590	7480	2030	2260	1480	1560
18	2360	3250	6380	24900	16100	5250	4360	6200	1980	2120	1350	1630
19	3040	4270	5770	24000	14000	5160	4290	5360	1900	2020	1250	1420
20	3360	6400	5150	24100	12900	5140	4280	4930	1770	2260	1180	1290
21	3500	7710	4600	23700	12500	5300	4970	4710	1680	1790	1250	1200
22	3120	7170	4570	23500	12200	5410	6040	4380	1650	1700	1270	1150
23	2860	6460	11000	23300	11700	5320	7760	4060	1610	2260	1200	1150
24	2760	5950	14800	23100	10700	5730	13400	4120	1540	2240	1110	1520
25	2770	7350	12700	23200	9710	6600	16100	4520	1470	1780	1030	1770
26	2830	8970	12400	23000	8970	6220	16400	4060	1600	1640	992	1780
27	2740	9010	11300	22300	8460	6060	16700	3650	1910	1950	1000	3030
28	2580	8210	9930	20400	7880	6820	16500	3460	1610	4620	1060	4300
29	2470	7680	9810	20100	---	10900	15500	3530	1880	4560	1100	3400
30	3370	7200	10000	20000	---	11400	14300	3520	2330	3070	1190	2950
31	4250	---	11100	19700	---	10100	---	3400	---	2290	6670	---
TOTAL	102630	156870	301580	725500	414820	215820	340670	186140	66220	66540	50062	83010
MEAN	3311	5229	9728	23400	14820	6962	11360	6005	2207	2146	1615	2767
MAX	6430	9010	14800	31500	20000	11400	18500	13200	3240	4620	6670	12000
MIN	2360	3020	4570	13700	7880	5140	4280	3400	1470	1350	992	1150
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936-2005, BY WATER YEAR (WY)												
MEAN	1770	3019	4906	6642	7889	9577	9002	6366	4784	3200	2199	1926
MAX	7981	12310	14860	30880	20990	21070	16400	19350	17480	16640	12430	10320
(WY)	1991	1986	1991	1937	1959	1945	1957	1996	1947	1969	1980	2003
MIN	636	566	558	923	929	2520	2189	1611	921	637	645	499
(WY)	1992	1954	1964	1977	1964	1969	1946	1941	1988	1954	1954	1954
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1936-2005		
ANNUAL TOTAL				3414010			2709862					
ANNUAL MEAN				9328			7424			5092		
HIGHEST ANNUAL MEAN										9533		
LOWEST ANNUAL MEAN										2082		
HIGHEST DAILY MEAN				30600			Jan 5			77900		
LOWEST DAILY MEAN				1780			Aug 18			420		
ANNUAL SEVEN-DAY MINIMUM				1990			Aug 12			452		
MAXIMUM PEAK FLOW										1070		
MAXIMUM PEAK STAGE							33600			Jan 12		
INSTANTANEOUS LOW FLOW							19.45			Jan 12		
10 PERCENT EXCEEDS				17700						21.98		
50 PERCENT EXCEEDS				8180						420		
90 PERCENT EXCEEDS				3130						13000		
							1490			3020		
							1490			874		

03141870 Leatherwood Creek near Kipling, Ohio

LOCATION.—Latitude 39°59'24", longitude 81°29'45", Guernsey County, Hydrologic Unit 05040005, on left bank at Deerfield Road bridge, 0.5 mi southeast of village of Kipling, Ohio, and 0.75 mi downstream from Hawkins Run.

DRAINAGE AREA.—69.5 mi².

PERIOD OF RECORD.—February 2000 to current year.

REVISED RECORDS.—WSP 853: 1929(M). WSP 893: 1928. WSP 973: 1942.

GAGE.—Water-stage recorder. Datum of gage is 795.78 ft above sea level.

REMARKS.—Records good except for periods of estimated record, which are poor. Satellite telemeter at gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	48	679	75	e38	250	105	104	27	5.8	0.56	62
2	31	41	339	62	e47	143	807	77	23	5.6	0.35	19
3	32	71	166	366	58	109	725	65	24	5.2	0.24	9.3
4	29	90	113	1130	86	96	275	57	35	4.8	0.21	5.5
5	27	95	94	1130	91	103	173	51	24	5.2	0.19	3.6
6	25	64	85	2410	93	110	130	47	22	13	0.17	2.4
7	24	52	104	1670	116	105	108	44	18	10	0.17	1.8
8	23	44	164	551	196	266	96	39	16	7.0	0.18	2.1
9	24	38	125	345	194	143	80	35	27	5.4	0.27	3.3
10	23	36	323	236	242	105	70	33	20	4.3	0.33	1.4
11	22	35	185	286	121	101	61	34	16	4.0	0.41	0.50
12	22	211	134	2900	94	110	55	51	14	3.4	0.37	0.21
13	22	120	118	1750	85	108	51	36	12	2.9	0.68	0.17
14	24	71	98	939	211	80	45	363	12	3.1	0.77	0.14
15	26	58	81	427	347	69	41	302	12	3.2	0.74	0.13
16	28	51	73	322	220	62	39	102	11	6.7	3.0	0.13
17	28	50	72	e240	159	58	38	66	14	7.5	11	0.25
18	30	69	67	e275	108	55	35	51	10	10	7.1	1.4
19	243	195	66	e230	84	51	34	44	9.0	11	4.7	0.87
20	82	208	72	e200	82	77	33	154	8.4	6.2	4.7	0.64
21	51	114	67	e170	203	62	43	79	8.2	4.7	7.2	0.50
22	41	85	69	e130	129	53	40	54	10	3.6	5.0	0.26
23	37	81	626	e100	93	257	300	53	10	2.7	2.6	2.8
24	62	105	443	e88	83	272	347	70	7.5	2.2	1.6	6.3
25	52	248	146	e74	82	143	313	48	6.4	2.0	1.5	4.5
26	39	134	98	e64	88	113	145	41	5.9	1.3	0.82	4.7
27	36	93	82	e56	82	93	436	33	5.5	1.7	0.83	7.0
28	34	117	77	e52	128	266	190	40	5.2	2.4	0.64	5.6
29	34	96	64	e47	---	446	106	50	5.3	1.8	2.6	10
30	58	84	72	e43	---	220	128	34	6.2	1.3	24	16
31	78	---	84	e39	---	141	---	32	---	0.94	197	---
TOTAL	1319	2804	4986	16407	3560	4267	5049	2289	424.6	148.94	279.93	172.50
MEAN	42.5	93.5	161	529	127	138	168	73.8	14.2	4.80	9.03	5.75
MAX	243	248	679	2900	347	446	807	363	35	13	197	62
MIN	22	35	64	39	38	51	33	32	5.2	0.94	0.17	0.13
CFSM	0.61	1.34	2.31	7.62	1.83	1.98	2.42	1.06	0.20	0.07	0.13	0.08
IN.	0.71	1.50	2.67	8.78	1.91	2.28	2.70	1.23	0.23	0.08	0.15	0.09
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000-2005, BY WATER YEAR (WY)												
MEAN	26.4	64.0	101	190	120	124	138	102	71.5	17.9	40.0	148
MAX	68.8	169	161	529	175	146	194	151	121	52.8	141	711
(WY)	2004	2004	2005	2005	2000	2003	2000	2002	2003	2003	2003	2004
MIN	3.82	9.67	50.5	45.2	33.8	96.7	57.4	63.9	14.2	4.80	1.42	1.52
(WY)	2002	2001	2003	2002	2002	2002	2003	2001	2005	2005	2002	2002
SUMMARY STATISTICS												
FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 2000-2005				
ANNUAL TOTAL	61948.6				41706.97				97.2			
ANNUAL MEAN	169				114				178			
HIGHEST ANNUAL MEAN									48.3			
LOWEST ANNUAL MEAN									8100			
HIGHEST DAILY MEAN	8100				2900				8100			
LOWEST DAILY MEAN	5.7				0.13				0.00			
ANNUAL SEVEN-DAY MINIMUM	9.0				0.20				0.00			
MAXIMUM PEAK FLOW					4050				10100			
MAXIMUM PEAK STAGE					14.73				17.21			
INSTANTANEOUS LOW FLOW					0.11				0.00			
ANNUAL RUNOFF (CFSM)	2.44				1.64				1.40			
ANNUAL RUNOFF (INCHES)	33.16				22.32				19.00			
10 PERCENT EXCEEDS	274				245				204			
50 PERCENT EXCEEDS	66				51				39			
90 PERCENT EXCEEDS	15				1.7				2.5			

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03142000 Wills Creek at Cambridge, Ohio

LOCATION.—Latitude 40°00'52", longitude 81°35'14", Guernsey County, Hydrologic Unit 05040005, on left bank at upstream side of bridge on Campbell Avenue in Cambridge, Ohio, 0.9 mi downstream from Leatherwood Creek.

DRAINAGE AREA.—406 mi².

PERIOD OF RECORD.—June 1926 to September 1928, May 1937 to current year.

REVISED RECORDS.—WSP 853: 1929(M). WSP 893: 1928. WSP 973: 1942.

GAGE.—Water-stage recorder. Datum of gage is 772.34 ft above sea level. Prior to Oct. 6, 1927, nonrecording gage at site 1.5 mi downstream at different datum; Oct. 6, 1927–Sept. 30, 1928, and May 22, 1937–Oct. 18, 1938, nonrecording gage at present site and datum.

REMARKS.—Records good except for periods of estimated record, which are fair. Flow regulated by Senecaville Lake on Seneca Fork, 22 mi upstream, beginning in 1937. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at gage.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	907	252	1880	460	1190	1240	947	1390	258	53	19	673
2	897	284	2730	406	1170	1240	1930	1200	264	51	20	174
3	900	328	2010	774	1190	942	3180	1060	256	46	23	78
4	897	388	1300	2780	1250	821	3150	472	181	42	27	44
5	894	502	1310	3790	1310	589	2210	247	139	41	24	29
6	886	317	1230	5390	1370	631	1250	226	113	45	17	22
7	882	220	1210	6370	1460	625	1130	315	95	56	18	21
8	885	184	1400	5780	1690	1100	1190	330	84	41	19	24
9	898	155	1410	4810	1820	1180	1150	307	83	36	18	21
10	891	138	1850	3770	1730	866	1090	286	97	32	21	16
11	875	242	1460	2640	1280	781	1030	187	82	29	29	15
12	866	606	1160	3710	824	632	679	209	73	29	29	16
13	882	962	1200	5340	696	574	785	226	64	30	20	21
14	891	501	1110	5110	864	488	741	872	61	26	17	21
15	884	398	1000	4450	2130	421	381	1770	59	27	18	18
16	799	657	926	3540	1790	307	209	795	56	42	39	14
17	735	716	717	2470	1460	268	172	645	54	41	41	20
18	759	689	559	1440	1180	251	162	627	54	45	41	24
19	944	899	541	1120	844	236	152	590	53	64	33	23
20	1010	1380	457	972	742	274	253	1240	52	42	24	27
21	486	1110	219	1100	994	298	288	1670	52	35	31	30
22	200	855	168	1060	1030	254	213	987	57	35	28	27
23	161	857	1320	1200	797	544	602	699	55	31	21	25
24	175	884	2870	1260	530	1430	1980	423	50	25	17	42
25	222	1590	e2000	1350	474	785	1930	289	43	23	16	37
26	271	1730	e1500	1380	480	521	1560	231	39	34	16	55
27	228	1140	e1170	1320	479	438	1730	377	41	38	21	66
28	135	1000	868	1220	515	780	1760	289	45	29	24	52
29	134	1010	512	1200	---	2610	1270	247	45	23	50	67
30	168	959	418	1200	---	2750	1340	208	54	20	168	128
31	277	---	459	1190	---	1690	---	168	---	18	799	---
TOTAL	20039	20953	36964	78602	31289	25566	34464	18582	2659	1129	1688	1830
MEAN	646	698	1192	2536	1117	825	1149	599	88.6	36.4	54.5	61.0
MAX	1010	1730	2870	6370	2130	2750	3180	1770	264	64	799	673
MIN	134	138	168	406	474	236	152	168	39	18	16	14
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-2005, BY WATER YEAR (WY)												
MEAN	110	319	512	646	780	854	779	554	383	200	162	157
MAX	835	1912	1615	2536	1789	2361	1710	1890	1602	1690	1937	2756
(WY)	1976	1986	1991	2005	1939	1945	1940	1996	1981	1998	1980	2004
MIN	3.18	4.31	7.55	48.1	25.0	109	87.7	30.5	20.6	11.6	3.77	3.59
(WY)	1954	1954	1954	1954	1954	1969	1941	1941	1988	1966	1962	1963
SUMMARY STATISTICS												
				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1937-2005		
ANNUAL TOTAL				357881			273765					
ANNUAL MEAN				978			750			451		
HIGHEST ANNUAL MEAN										981		
LOWEST ANNUAL MEAN										118		
HIGHEST DAILY MEAN				8730			6370			10800		
LOWEST DAILY MEAN				41			14			0.70		
ANNUAL SEVEN-DAY MINIMUM				52			17			1.6		
MAXIMUM PEAK FLOW							6440			11400		
MAXIMUM PEAK STAGE							21.22			26.91		
INSTANTANEOUS LOW FLOW							13			0.70		
10 PERCENT EXCEEDS				2210			1710			1200		
50 PERCENT EXCEEDS				602			472			188		
90 PERCENT EXCEEDS				77			24			19		

03144000 Wakatomika Creek near Fazeysburg, Ohio

LOCATION.—Latitude 40°07'57", longitude 82°08'53", in NW ¼ sec. 13, T.3 N., R.9 W., Muskingum County, Hydrologic Unit 05040004, on right bank 2.0 mi northwest of Fazeysburg, Ohio, 2 mi downstream from Fivemile Run, and 2.5 mi upstream from Black Run.

DRAINAGE AREA.—140 mi².

PERIOD OF RECORD.—September 1936 to current year.

REVISED RECORDS.—WSP 1113: 1937(M). WSP 1555: 1952(M).

GAGE.—Water-stage recorder. Datum of gage is 748.12 ft, National Geodetic Vertical Datum of 1912. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

REMARKS.—Records good except for periods of estimated record, which are poor. Water-quality and sediment data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
1	47	59	907	577	e170	243	215	205	56	87	11	197	
2	45	59	601	407	e165	186	1070	180	53	56	10	76	
3	44	94	368	1620	e160	161	1390	172	51	40	10	48	
4	42	112	274	2850	e155	155	657	161	48	33	9.4	37	
5	40	179	225	3140	e150	160	424	146	46	30	11	29	
6	38	143	199	8380	e160	158	318	137	43	33	18	24	
7	37	131	224	2390	e200	158	268	128	40	31	15	21	
8	36	121	282	1270	782	168	231	122	37	25	12	19	
9	36	101	286	847	766	151	193	115	35	32	11	17	
10	35	91	797	577	450	140	180	108	34	26	9.6	17	
11	34	84	505	813	280	134	175	101	54	20	8.9	15	
12	32	89	368	4630	231	132	167	104	41	19	8.5	14	
13	33	96	296	1800	202	130	159	92	35	19	8.2	14	
14	35	88	235	2100	412	121	148	148	31	23	17	13	
15	37	83	199	e1200	743	112	133	150	32	25	16	13	
16	48	78	188	e900	446	106	118	108	36	22	13	16	
17	54	74	181	e680	340	101	107	90	28	29	15	51	
18	55	78	173	e540	251	97	100	79	24	24	13	31	
19	262	385	169	e450	192	94	96	76	22	44	20	21	
20	109	536	163	e380	184	93	91	266	20	40	17	17	
21	76	333	161	e330	252	90	95	195	19	24	16	17	
22	63	239	137	e300	210	85	102	133	25	20	14	15	
23	57	201	1420	e250	173	85	411	115	25	19	12	21	
24	94	201	e1410	e230	160	99	659	107	19	19	9.6	34	
25	88	290	e700	e220	155	107	657	90	17	17	8.6	26	
26	70	213	e400	e210	151	111	425	77	21	22	8.1	53	
27	64	186	e280	e200	145	114	387	70	24	21	12	84	
28	61	184	e200	e190	155	780	282	81	240	17	18	45	
29	61	164	e205	e185	---	887	234	96	116	15	14	61	
30	68	149	284	e180	---	403	232	72	52	14	22	53	
31	67	---	708	e170	---	285	---	63	---	12	614	---	
TOTAL	1868	4841	12545	38016	7840	5846	9724	3787	1324	858	1001.9	1099	
MEAN	60.3	161	405	1226	280	189	324	122	44.1	27.7	32.3	36.6	
MAX	262	536	1420	8380	782	887	1390	266	240	87	614	197	
MIN	32	59	137	170	145	85	91	63	17	12	8.1	13	
MED	48	126	280	577	196	132	223	108	35	24	12	23	
CFSM	0.43	1.15	2.89	8.76	2.00	1.35	2.32	0.87	0.32	0.20	0.23	0.26	
IN.	0.50	1.29	3.33	10.10	2.08	1.55	2.58	1.01	0.35	0.23	0.27	0.29	
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937-2005, BY WATER YEAR (WY)													
MEAN	37.8	84.2	160	235	252	302	301	198	129	76.4	57.8	42.4	
MAX	155	396	786	1226	560	883	654	601	745	432	720	617	
(WY)	1987	1986	1991	2005	1990	1963	1940	1968	1998	1990	1980	1979	
MIN	4.78	7.39	10.1	14.3	15.0	73.8	47.9	21.7	12.6	9.48	5.05	3.45	
(WY)	1964	1954	1964	1964	1964	1983	1941	1941	1988	1944	1962	1953	
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1937-2005	
ANNUAL TOTAL				100597				88749.9					
ANNUAL MEAN				275				243				156	
HIGHEST ANNUAL MEAN												270	
LOWEST ANNUAL MEAN												51.9	
HIGHEST DAILY MEAN				6100 Jan 5				8380 Jan 6				9200 Jun 28	
LOWEST DAILY MEAN				19 Aug 18				8.1 Aug 26				2.6 Oct 3	
ANNUAL SEVEN-DAY MINIMUM				23 Aug 12				10 Aug 7				2.7 Sep 25	
MAXIMUM PEAK FLOW								9930 Jan 6a				16800 Sep 14	
MAXIMUM PEAK STAGE								11.53 Jan 6				14.07 Sep 14	
INSTANTANEOUS LOW FLOW								8.0 Aug 13				2.0 Oct 3	
ANNUAL RUNOFF (CFSM)				1.96				1.74				1.11	
ANNUAL RUNOFF (INCHES)				26.73				23.58				15.11	
10 PERCENT EXCEEDS				576				517				346	
50 PERCENT EXCEEDS				154				101				65	
90 PERCENT EXCEEDS				44				17				11	

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03145000 South Fork Licking River near Hebron, Ohio

LOCATION.—Latitude 39°59'19", longitude 82°28'30", in NW ¼ sec. 3, T.1 N., R.12 W., Licking County, Hydrologic Unit 05040006, on right bank at upstream side of bridge on county road, 800 ft downstream from Beaver Run, 2.3 mi north of Hebron, Ohio, and 2.5 mi upstream from Ramp Creek.

DRAINAGE AREA.—133 mi².

PERIOD OF RECORD.—October 1939 to September 1948, July 1968 to current year.

REVISED RECORDS.—WSP 923: 1940. WSP 1033: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 856.08 ft above sea level. Prior to Sept. 13, 1974, nonrecording gage at same site and datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft, on unnamed tributary 5.6 mi upstream from station. Occasional diversion from Buckeye Lake into Jonathan Creek, which bypasses station. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Jan. 21, 1959, reached a stage of 12.4 ft present datum, from flood marks; discharge 5,880 ft³/s, by slope-area measurement.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	93	1120	667	189	395	139	184	e36	83	6.9	190
2	15	99	613	423	e190	174	848	156	33	23	6.8	51
3	14	247	389	1300	e190	143	1360	140	30	14	7.2	29
4	16	269	318	2070	e195	132	545	128	28	12	6.5	18
5	16	314	280	2300	196	130	327	118	27	10	8.8	14
6	14	150	261	2640	211	266	239	112	26	9.5	8.4	12
7	14	111	318	2600	304	350	168	109	24	8.1	7.6	9.8
8	15	91	397	2350	1130	257	152	104	21	7.8	7.3	9.0
9	15	80	389	1560	950	133	129	100	e20	8.0	6.7	8.8
10	15	75	1050	937	537	101	117	98	25	7.3	6.6	8.4
11	16	76	501	1010	384	92	109	102	47	7.3	6.7	8.0
12	17	270	388	2550	301	93	100	102	34	7.5	7.0	8.1
13	19	175	313	2440	279	94	98	81	34	8.1	6.4	8.7
14	20	107	289	2040	461	79	91	312	29	8.0	7.8	9.2
15	23	117	312	1480	739	72	80	180	26	7.7	6.6	9.0
16	23	149	285	678	438	67	44	91	22	11	11	19
17	20	154	259	474	347	62	40	62	20	16	8.0	27
18	66	286	239	399	261	58	40	52	18	15	11	12
19	633	384	221	368	220	56	39	49	18	41	14	9.5
20	187	457	218	341	220	102	38	650	22	12	12	13
21	146	283	185	315	451	92	66	374	21	9.4	11	11
22	118	208	181	300	322	73	74	219	21	8.3	6.5	10
23	103	187	1100	278	236	158	525	187	18	8.0	6.2	14
24	175	230	1200	e270	205	211	1090	172	16	7.5	5.9	14
25	159	459	e390	255	190	144	1070	156	15	8.4	5.9	14
26	122	237	e351	251	189	406	578	115	15	9.2	6.6	40
27	110	186	273	228	175	199	552	e100	14	8.6	12	62
28	104	194	243	209	191	970	314	e104	16	7.9	11	29
29	105	223	243	207	---	1370	214	e94	16	7.8	13	29
30	138	315	436	206	---	415	204	e80	73	6.6	96	35
31	115	---	856	197	---	200	---	e42	---	6.7	660	---
TOTAL	2569	6226	13618	31343	9701	7094	9390	4573	765	404.7	997.4	731.5
MEAN	82.9	208	439	1011	346	229	313	148	25.5	13.1	32.2	24.4
MAX	633	459	1200	2640	1130	1370	1360	650	73	83	660	190
MIN	14	75	181	197	175	56	38	42	14	6.6	5.9	8.0
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-2005, BY WATER YEAR (WY)												
MEAN	41.8	174	212	216	251	248	238	180	142	91.6	67.1	50.4
MAX	177	858	666	1011	536	860	616	768	554	572	503	607
(WY)	1976	1986	1991	2005	1990	1945	1970	1996	1997	1992	1979	1979
MIN	4.70	3.50	7.77	12.7	32.7	27.2	25.6	4.07	8.43	4.92	3.48	4.70
(WY)	2000	1945	1944	1944	1944	1941	1941	1941	1988	1944	1942	1991
SUMMARY STATISTICS				FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1940-2005		
ANNUAL TOTAL				86750			87412.6					
ANNUAL MEAN				237			239			159		
HIGHEST ANNUAL MEAN										273		
LOWEST ANNUAL MEAN										56.9		
HIGHEST DAILY MEAN				2620	Jan 5		2640	Jan 6		4560	Jul 28	1997
LOWEST DAILY MEAN				14	Oct 3		5.9	Aug 24		0.00	Aug 22	1942
ANNUAL SEVEN-DAY MINIMUM				15	Oct 2		6.8	Aug 9		0.87	Aug 30	1942
MAXIMUM PEAK FLOW							3020	Jan 12		5200	Mar 6	1945
MAXIMUM PEAK STAGE							11.19	Jan 12		12.27	Jul 28	1997
INSTANTANEOUS LOW FLOW										0.00	Aug 22	1942
10 PERCENT EXCEEDS				578			540			416		
50 PERCENT EXCEEDS				128			104			50		
90 PERCENT EXCEEDS				21			8.2			8.1		

e Estimated

03146500 Licking River near Newark, Ohio

LOCATION.—Latitude 40°03'33", longitude 82°20'23", in T.2 N., R.11 W., Licking County, Hydrologic Unit 05040006, on right bank at downstream side of Stadden Bridge, 1 mi downstream from Shawnee Run, 1.5 mi upstream from Equality Run, and 3.5 mi east of Newark, Ohio.

DRAINAGE AREA.—537 mi².

PERIOD OF RECORD.—October 1939 to current year.

REVISED RECORDS.—WSP 973: 1940(M). WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 779.02 ft above sea level. Prior to May 9, 1940, nonrecording gage at same site and datum.

REMARKS.—Records fair except for periods of estimated record, which are poor. Occasional regulation by Buckeye Lake, capacity, 27,300 acre-ft, on South Fork 15.2 mi upstream. Water-quality data formerly collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

**DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP			
1	146	252	3250	3510	674	1160	808	908	288	529	84	2000			
2	141	275	2110	2000	659	862	3250	757	259	239	82	802			
3	137	500	1280	6830	676	754	5180	662	244	166	80	401			
4	134	655	971	11200	650	716	2300	587	232	147	78	275			
5	131	1110	810	11800	637	708	1460	520	222	142	111	221			
6	130	638	720	21100	669	1010	1170	475	213	140	94	196			
7	126	455	840	9600	867	1300	989	442	203	148	90	173			
8	122	361	1190	5780	3980	1090	901	411	190	131	81	161			
9	121	297	1110	3970	3520	782	785	380	184	132	e76	149			
10	118	261	3030	2680	1980	642	700	363	200	117	e72	142			
11	114	265	1750	3480	1300	607	637	390	227	114	e72	136			
12	114	614	1300	15700	1040	589	578	509	193	113	e74	129			
13	120	522	1060	9020	952	557	559	347	183	113	e70	126			
14	118	351	862	9770	1360	490	496	1000	184	118	e74	123			
15	146	306	800	6940	2370	454	451	788	168	119	e68	119			
16	130	348	726	6220	1450	439	378	508	156	131	e70	169			
17	122	351	673	5260	1230	419	349	380	151	193	79	210			
18	287	586	622	4210	978	395	340	331	143	181	86	140			
19	1510	1070	595	3330	834	390	331	346	140	270	109	125			
20	618	1680	491	2420	821	518	325	2630	139	181	90	128			
21	396	1130	488	1640	1210	516	382	1400	137	140	86	120			
22	328	760	494	1250	1090	424	406	899	146	124	e72	113			
23	283	638	2930	1080	881	669	1450	732	130	115	e68	124			
24	443	709	2990	965	800	1010	3220	661	124	107	e64	157			
25	486	1450	1530	956	737	768	3170	592	121	113	e62	163			
26	372	870	1210	924	719	1200	1960	507	119	112	e63	359			
27	316	653	868	842	671	932	2070	349	119	106	94	785			
28	287	649	764	761	702	3980	1360	406	202	102	91	359			
29	281	684	775	757	---	3680	1020	378	140	97	225	328			
30	296	744	1390	747	---	1580	951	327	354	93	512	360			
31	303	---	3940	714	---	1040	---	309	---	87	4600	---			
TOTAL	8376	19184	41569	155456	33457	29681	37976	19294	5511	4620	7577	8793			
MEAN	270	639	1341	5015	1195	957	1266	622	184	149	244	293			
MAX	1510	1680	3940	21100	3980	3980	5180	2630	354	529	4600	2000			
MIN	114	252	488	714	637	390	325	309	119	87	62	113			
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940-2005 BY WATER YEAR (WY)															
MEAN	170	421	696	919	1022	1137	1045	727	573	362	257	188			
MAX	914	2402	2867	5015	2577	3454	2404	2610	2151	2115	2017	2207			
(WY)	1987	1986	1991	2005	1990	1963	1940	1996	1989	1990	1979	1979			
MIN	39.5	41.1	43.1	65.0	59.5	207	166	91.5	76.3	58.5	58.3	36.7			
(WY)	1954	1954	1954	1977	1964	1941	1941	1941	1988	1954	1963	1954			
SUMMARY STATISTICS															
FOR 2004 CALENDAR YEAR				FOR 2005 WATER YEAR				WATER YEARS 1940-2005							
ANNUAL TOTAL				355100				371494							
ANNUAL MEAN				970				1018							
HIGHEST ANNUAL MEAN								624							
LOWEST ANNUAL MEAN								1138							
HIGHEST DAILY MEAN				17000				Jan 5				25600	Jan 22	1959	
LOWEST DAILY MEAN				114				Oct 11				28	Sep 27	1954	
ANNUAL SEVEN-DAY MINIMUM				118				Oct 8				71	Sep 26	1954	
MAXIMUM PEAK FLOW								23100				Jan 6	45000	Jan 21	1959
MAXIMUM PEAK STAGE								15.83				Jan 6	20.30	Jan 21	1959
INSTANTANEOUS LOW FLOW												28	Sep 27	1954	
10 PERCENT EXCEEDS				1970				2190				1440			
50 PERCENT EXCEEDS				546				455				262			
90 PERCENT EXCEEDS				168				113				69			

e Estimated.

03149500 Salt Creek at Chandlersville, Ohio

LOCATION.—Latitude 39°54'31", longitude 81°51'37", Muskingum County, Hydrologic Unit 05040004, on left bank downstream of State Highway 146, 1 mi upstream from Buffalo Fork, 2 mi northwest of Chandlersville and 11 mi southeast of Zanesville.

DRAINAGE AREA.—75.7 mi².

PERIOD OF RECORD.—January 1935 to September 1947. November 1, 2000, to current year.

GAGE.—Water-stage recorder and crest gage. Datum of gage is 695.14 ft, NAVD 1988. Prior to 1947 at site 300 ft upstream at different datum.

REMARKS.—Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	e24	749	67	e56	218	115	91	34	25	4.1	59
2	27	e25	263	71	e55	139	1170	74	32	19	3.7	25
3	26	e30	154	e190	e54	115	591	64	30	15	3.6	16
4	25	40	109	e1220	e53	104	253	56	28	13	3.0	12
5	22	48	86	e2800	e52	110	163	49	27	12	3.1	9.2
6	19	33	75	e1970	e50	110	127	46	24	20	3.3	7.9
7	18	30	83	e1070	89	109	108	44	22	14	3.9	7.1
8	18	26	78	453	172	222	95	41	20	11	3.8	6.4
9	17	23	113	291	164	122	79	38	19	10	3.3	5.8
10	17	21	322	216	153	104	71	36	18	9.3	3.1	5.2
11	17	21	158	634	106	101	64	37	56	8.6	4.3	4.6
12	17	138	120	2620	103	98	58	78	26	7.4	3.2	4.3
13	17	68	99	489	99	89	56	45	20	7.0	2.8	4.2
14	17	42	79	836	217	76	49	242	19	14	2.7	4.0
15	17	35	63	325	203	70	45	165	19	12	2.5	3.8
16	17	32	56	229	197	65	42	83	17	17	15	5.6
17	17	31	54	173	166	63	39	62	15	18	8.3	11
18	26	35	49	150	116	60	39	51	14	24	8.0	8.7
19	111	94	49	e140	99	58	37	47	13	38	11	6.4
20	36	113	49	e120	95	78	35	766	12	24	7.2	5.8
21	26	76	47	e112	196	65	38	223	12	14	8.5	5.1
22	22	60	50	e103	118	59	40	116	18	15	4.8	4.7
23	19	55	1670	e95	103	121	262	91	15	13	3.8	20
24	26	72	415	e88	e98	126	285	80	12	9.3	3.3	18
25	e27	572	171	e81	92	98	266	64	10	8.2	3.1	12
26	e25	201	121	e74	91	104	135	53	9.5	9.8	2.9	27
27	e24	123	84	e71	83	92	210	44	8.8	10	9.2	31
28	e24	112	85	e68	130	768	116	54	70	8.1	11	16
29	e25	83	68	e62	---	546	90	59	94	6.8	38	34
30	e26	76	65	e60	---	218	110	42	26	5.7	66	18
31	e25	---	72	e58	---	150	---	37	---	4.7	286	---
TOTAL	778	2339	5656	14936	3210	4458	4788	2978	740.3	422.9	536.5	397.8
MEAN	25.1	78.0	182	482	115	144	160	96.1	24.7	13.6	17.3	13.3
MAX	111	572	1670	2800	217	768	1170	766	94	38	286	59
MIN	17	21	47	58	50	58	35	36	8.8	4.7	2.5	3.8
CFSM	0.33	1.03	2.41	6.36	1.51	1.90	2.11	1.27	0.33	0.18	0.23	0.18
IN.	0.38	1.15	2.78	7.34	1.58	2.19	2.35	1.46	0.36	0.21	0.26	0.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1936-2005, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
MEAN	19.5	53.1	81.2	146	148
MAX	82.1	199	187	536	371
(WY)	1937	1937	1943	1937	1936
MIN	2.18	4.74	8.29	13.4	35.5
(WY)	1944	1945	1940	1944	1941

SUMMARY STATISTICS

FOR 2004 CALENDAR YEAR

FOR 2005 WATER YEAR

WATER YEARS 1936-2005

ANNUAL TOTAL	64373.8	41240.5	95.9
ANNUAL MEAN	176	113	179
HIGHEST ANNUAL MEAN			54.4
LOWEST ANNUAL MEAN			0.00
HIGHEST DAILY MEAN	4100	2800	4100
LOWEST DAILY MEAN	5.0	2.5	0.00
ANNUAL SEVEN-DAY MINIMUM	6.4	3.1	0.01
MAXIMUM PEAK FLOW		5620	13500
MAXIMUM PEAK STAGE		18.49	22.26
INSTANTANEOUS LOW FLOW		2.4	0.00
ANNUAL RUNOFF (CFSM)	2.32	1.49	1.27
ANNUAL RUNOFF (INCHES)	31.63	20.27	17.21
10 PERCENT EXCEEDS	339	206	216
50 PERCENT EXCEEDS	72	49	34
90 PERCENT EXCEEDS	17	6.9	3.1

a Peaks above base shown in table of peak discharges and stages at continuous-record surface-water-discharge stations.

e Estimated.

03150000 Muskingum River at McConnelsville, Ohio

LOCATION.—Latitude 39°38'42", longitude 81°51'00", in SE ¼ sec.11, T.10.N., R.12 W., Morgan County, Hydrologic Unit 05040004, on left bank just upstream from Dam 7 at McConnelsville, and 3.5 mi downstream from Oilspring Run.

DRAINAGE AREA.—7,422 mi².

PERIOD OF RECORD.—October 1921 to September 1992. October 2001 to current year.

REVISED RECORDS.—WSP 783: 1913(M). WSP 853: 1933(M). WSP 1173: 1922-24, 1928(M). WSP 1907: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 650.31 ft, National Geodetic Vertical Datum of 1912. Prior to July 27, 1922 nonrecording gage at site 0.5 mi upstream at same datum; July 27, 1922-Aug. 10, 1926, nonrecording gage; Aug. 11, 1926-Sept. 8, 1959, water-stage recorder at present site and datum; Sept. 9, 1959-July 18, 1960, nonrecording gage at site 0.5 mi upstream at same datum.

REMARKS.—Records good. Flow regulated by 17 flood-control reservoirs 36.6 mi to 148 mi upstream from station. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.—Flood of Mar. 1913 reached a stage of 33.5 ft, discharge, 270,000 ft³/s computed by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13000	5660	17800	16600	32700	13300	16800	19800	4950	3530	2670	15100
2	12200	5210	22500	21100	32200	13500	23300	18000	4680	4030	2310	14700
3	11300	5260	21800	24300	31700	12800	27900	16100	4400	3380	2050	10800
4	10600	5990	19400	33100	30800	11800	29400	14300	4190	2820	1860	7380
5	10400	7600	17200	40400	29000	11000	28500	12800	4070	2570	1690	4800
6	10300	8310	14700	54800	28100	10700	28300	11100	3940	2570	1680	3670
7	9270	7990	12900	49500	26900	10900	27800	9570	3790	3230	2560	3080
8	7020	6930	13200	37900	25100	13200	25400	8260	4100	3240	3100	2700
9	5800	5990	13600	29900	26200	13100	21000	7510	3750	2950	2560	2470
10	5340	5480	18400	32000	28300	12900	17000	7050	3410	2510	2160	2270
11	5080	5190	19500	35600	28700	12300	15200	6690	3610	2230	1830	2050
12	4940	6170	19000	53700	27200	11300	14100	6850	3970	2100	1660	1900
13	4840	5910	17100	41100	24900	10600	13200	7080	3610	1960	1630	1740
14	4530	5820	14500	40400	22600	9910	11600	8710	3410	2020	1590	1650
15	4370	5920	13500	42400	22800	9110	9740	10300	3240	2040	1550	1580
16	4180	5580	12200	39900	24700	8820	8170	12300	3180	2450	2220	1540
17	4180	5270	11100	41100	25600	8020	7380	12400	3170	3120	2000	1830
18	4290	5400	10100	39800	23800	7700	6710	10400	3110	2940	1840	2000
19	6490	6610	9410	38200	21700	7590	6250	8650	2950	2890	1800	1990
20	8120	10100	8280	38000	19400	7710	6190	14400	2790	3140	1620	1930
21	7560	12300	7380	38100	18100	7680	6510	12100	2730	2960	1540	1920
22	6130	12300	7390	37600	18400	7830	7630	10800	2770	2430	1550	1630
23	5130	10600	19500	37200	17800	8400	14300	9200	2740	2360	1580	1680
24	4740	9930	26700	36700	16300	8910	20000	7870	2640	2890	1510	1740
25	4570	13200	23200	36700	14500	9990	24900	7560	2510	2750	1350	2040
26	4650	14100	21100	36900	13400	10700	26100	7110	2430	2430	1230	2420
27	4670	14200	19300	36300	12500	10200	26600	6170	2570	2300	1370	3080
28	4200	13200	15600	35200	12200	15800	25700	5610	2790	2980	1530	4630
29	3950	12000	13900	33900	---	22800	24600	6020	3070	5320	1880	5040
30	4330	11200	13700	33500	---	21900	23500	5770	3100	4420	2600	3990
31	5260	---	14000	33300	---	20200	---	4950	---	3300	7360	---
TOTAL	201440	249420	487960	1145200	655600	360670	543780	305430	101670	89860	63880	113350
MEAN	6498	8314	15740	36940	23410	11630	18130	9853	3389	2899	2061	3778
MAX	13000	14200	26700	54800	32700	22800	29400	19800	4950	5320	7360	15100
MIN	3950	5190	7380	16600	12200	7590	6190	4950	2430	1960	1230	1540

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922-2005, BY WATER YEAR (WY)

MEAN	2558	4528	7868	10550	12200	14990	13690	9435	6804	4516	3479	2950
MAX	11780	19260	26010	51270	29380	36270	26180	23550	22650	18920	26280	16660
(WY)	1927	1986	1928	1937	1959	1945	1940	1983	1981	1969	1935	2004
MIN	643	731	833	1111	1173	2316	3337	1564	1361	711	494	590
(WY)	1931	1954	1964	1931	1934	1931	1941	1934	1930	1930	1930	1932

SUMMARY STATISTICS			FOR 2004 CALENDAR YEAR			FOR 2005 WATER YEAR			WATER YEARS 1922-2005		
ANNUAL TOTAL			5068080			4318260					
ANNUAL MEAN			13850			11830			7773		
HIGHEST ANNUAL MEAN									13830		
LOWEST ANNUAL MEAN									2658		
HIGHEST DAILY MEAN			50200	Jan 5		54800	Jan 6		124000	Jan 26	1937
LOWEST DAILY MEAN			2600	Aug 18		1230	Aug 26		325	Oct 12	1930
ANNUAL SEVEN-DAY MINIMUM			2900	Aug 13		1450	Aug 22		448	Aug 20	1930
MAXIMUM PEAK FLOW						60400	Jan 12		126000	Jan 26	1937
MAXIMUM PEAK STAGE						13.77	Jan 12		21.14	Jan 26	1937
INSTANTANEOUS LOW FLOW						1190	Aug 26		325	Oct 12	1930
10 PERCENT EXCEEDS			25600			28400			20000		
50 PERCENT EXCEEDS			12400			7710			4460		
90 PERCENT EXCEEDS			4900			2030			1160		