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Water Resources Data Ohio Water Year 1996

Volume 1. Ohio River Basin Excluding
Project Data



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-96-1

Prepared in cooperation with the State of Ohio
and with other agencies

U.S. GEOLOGICAL SURVEY
RESTON, VA.

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CALENDAR FOR WATER YEAR 1996

1995

OCTOBER							NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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8	9	10	11	12	13	14	5	6	7	8	9	10	11	3	4	5	6	7	8	9
15	16	17	18	19	20	21	11	12	13	14	15	16	17	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	20	21	22	23
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1996

JANUARY							FEBRUARY							MARCH						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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APRIL							MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8
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JULY							AUGUST							SEPTEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
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7	8	9	10	11	12	13	4	5	6	7	8	9	10	8	9	10	11	12	13	14
14	15	16	17	18	19	20	11	12	13	14	15	16	17	15	16	17	18	19	20	21
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28	29	30	31				25	26	27	28	29	30	31	29	30					



Water Resources Data Ohio Water Year 1996

Volume 1. Ohio River Basin Excluding Project Data

by H.L. Shindel, J.P. Mangus, and L.E. Trimble



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-96-1
Prepared in cooperation with the State of Ohio
and with other agencies

U.S. DEPARTMENT OF THE INTERIOR

BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY

Gordon P. Eaton, Director

**Prepared in cooperation with the
State of Ohio
and with other agencies as listed
under cooperation**

**For additional information on the water program in Ohio write to
District Chief, Water Resources Division
U.S. Geological Survey
975 West Third Avenue
Columbus, OH 43212
1997**

PREFACE

This volume of the annual hydrologic data report of Ohio is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each State, Puerto Rico, and Trust Territories. These records of streamflow, ground-water levels, and quality of water provides the hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for Ohio are contained in two volumes:

- Volume 1. Ohio River Basin
- Volume 2. St. Lawrence River Basin - Statewide Project Data

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

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This report was prepared in cooperation with the State of Ohio and with other agencies under the general supervision of S.M. Hindall, District Chief, Ohio.

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13. ABSTRACT (Maximum 200 words) Water-resources data for the 1996 water year for Ohio consist of records of stage, discharge, and water quality of streams; stage and contents of lakes and reservoirs; and water levels and water quality of ground-water wells. This report, in two volumes, contains records for water discharge at 120 gaging stations, 20 partial-record sites; water levels at 258 observation wells; 22 crest stage gages; water quality at 13 gaging stations, 340 observation wells, and 18 partial record sites. Also included are data from miscellaneous and synoptic sites. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating Federal, State, and local agencies in Ohio.					
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(Letter after station name designates type of data: (c) chemical, (d) discharge, (e) contents and (or) elevation, (HBM) hydrologic bench mark, (M) water-quality monitor, (m) microbiological, (r) radiochemical, (s) miscellaneous sediment measurements, (S) daily suspended-sediment data, (t) temperature)

OHIO RIVER BASIN

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03117500	Sandy Creek at Waynesburg (d)	62
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VIII DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS - OHIO RIVER BASIN

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Ohio have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations. Discontinued project stations with less than 3 years of record have not been included. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge]

Station Name	Station Number	Drainage Area (mi ²)	Period of Record
MAHONING RI AT ALLIANCE (d)	03086500 *	89.2	1941-93
BEECH CR NR BOLTON (d)	03087000	17.4	1944-51
DEER CR AT LIMAVILLE (d)	03088000	33.2	1942-51
MAHONING RI NR DEERFIELD (d)	03088500	175	1924-31
WILLOW CR NR DEERFIELD (d)	03089000	11.6	1941-43
MILL CR NR BERLIN CENTER (d)	03089500	19.1	1942-72
MAHONING RI BL BERLIN DAM NR BERLIN CENTER (d)	03090500	248	1931-92
KALE CR NR PRICETOWN	03092000	21.9	1941-93
W B MAHONING RI NR RAVENNA	03092090 *	21.8	1966-93
W B MAHONING RI BL MJ KERWIN DAM AT WAYLAND (d)	03092460	81.7	1969-92
W B MAHONING RI NR NEWTON FALLS (d)	03092500	96.3	1927-82
DUCK CR AT LEAVITTSBURG (d)	03093500	32.3	1941-48
MAHONING RI AT WARREN (d)	03094500	594	1925-35
MOSQUITO CR BL MOSQUITO CR DAM NR CORTLAND (d)	03095500	97.5	1926-29
			1943-92
MOSQUITO CR AT NILES (d)	03096000	138	1929-51
MEANDER CR AT OHLESTOWN (d)	03096500	78.4	1926-29
MEANDER CR AT MINERAL RIDGE (d)	03097500	84.3	1929-51
MAHONING RI AT YOUNGSTOWN (d)	03098000	898	1922-82
MILL CR AT YOUNGSTOWN (d)	03098500	66.3	1944-71
MAHONING RI AT LOWELLVILLE	03099500	1073	1943-71
			1973-92
PYMATUNING CR AT KINSMAN (d)	03102950 *	96.7	1966-94
LISBON CR AT LISBON (d)	03109000	6.19	1947-62
STATELINE CR NR NEGLEY (d)	03109320	3.09	1977-79
YELLOW CR AT HAMMONDSVILLE (d)	03110500	164	1915-35
CONSOL RN NR BLOOMINGDALE (d)	03110983	.98	1979-81
L MUSKINGUM RI AT FAY (d)	03115500	258	1915-18
			1926-35
TUSCARAWAS RI AT CLINTON (d)	03116000	174	1926-79
CHIPPEWA CR AT EASTON (d)	03116200	146	1961-82
TUSCARAWAS RI AT CRYSTAL SPRINGS (d)	03116500	435	1922-29
SANDY CR AT SANDYVILLE (d)	03119000	481	1924-47
MCGUIRE CR BL LEESVILLE DAM NR LEESVILLE (d)	03120500 *	48.3	1939-90
			1992
INDIAN FK BL ATWOOD DAM NR NEW CUMBERLAND (d)	03121500	70.0	1961-75
TUSCARAWAS RI BL DOVER DAM NR DOVER (d)	03122500 *	1045	1924-92
SUGAR CR AB BEACH CITY DAM AT BEACH CITY (d)	03123000	160	1945-75
SUGAR CR BL BEACH CITY DAM NR BEACH CITY (d)	03124000 *	300	1939-91
HOME CR NR NEW PHILADELPHIA (d)	03125000	1.64	1937-80
STILLWATER CR AT PIEDMONT (d)	03126000 *	122	1939-93
STILLWATER CR AT TIPPECANOE (d)	03127000 *	282	1939-93
STILLWATER CR AT URICHVILLE (d)	03127500 *	367	1922-93
CLEAR FK TRIB NR HANOVER (d)	03127970	.68	1978-81
L STILLWATER CR BL TAPPAN DAM AT TAPPAN (d)	03128500 *	71.1	1939-93
BLACK FK BL CHARLES MILLS DAM NR MIFFLIN (d)	03130000 *	217	1939-93
TOUBY RN AT MANSFIELD (d)	03130500	5.44	1947-78
ROCKY FK NR MANSFIELD (d)	03131000	39.0	1925-32
BLACK FK AT LOUDONVILLE (d)	03131500 *	349	1931-93
CLEAR FK AT BUTLER (d)	03132000	136	1945-75
CLEAR FK AT NEWVILLE (d)	03132500	174	1935-39
CLEAR FK BL PLEASANT HILL DAM NR PERRYVILLE (d)	03133500 *	198	1939-86
			1988-93
JEROME FK AT JEROMEVILLE (d)	03134000	120	1926-49
LAKE FK BL MOHICANVILLE DAM (d)	03135000 *	271	1939-93
LAKE FK NR LOUDONVILLE (d)	03135500	344	1931-32
			1935-39
MOHICAN RI AT GREER (d)	03136000	948	1922-82
N B KOKOSING RI NR FREDERICKTOWN (d)	03136400	45.5	1973-78

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS - OHIO RIVER BASIN IX

Station Name	Station Number	Drainage Area (mi ²)	Period of Record
KOKOSING RI AT MILLWOOD (d)	03137000	455	1922-74
WALHONDING RI BL MOHAWK DAM AT NELLIE (d)	03138500 *	1505	1922-92
KILLBUCK CR AT LAYLAND (d)	03139500	503	1924-30
SENECA FK BL SENECAVILLE DAM NR SENECAVILLE	03141500 *	118	1938-93
SALT FK NR CAMBRIDGE (d)	03142200	55.6	1956-68
SALT FK BL SALT FK DAM NR CAMBRIDGE (d)	03142295	159	1971-82
WILLS CR AT BIRDS RUN (d)	03142500	730	1928-39
WILLS CR BL WILLS CREEK DAM AT WILLS CREEK (d)	03143500 *	842	1939-92
SAND FK NR WAKATOMIKA (d)	03144400	1.34	1978-83
OPOSSUM RN TR NR WAKATOMIKA (d)	03144450	1.27	1978-83
MUSKINGUM RI AT DRESDEN (d)	03144500	5,993	1922-85
RACCOON CR AT GRANVILLE (d)	03145500	82.7	1940-48
N FK LICKING RI AT UTICA (d)	03146000	116	1940-48
LICKING RI AT TOBOSO (d)	03147000	672	1970-83
LICKING RI BL DILLON DAM NR DILLON FALLS (d)	03147500 *	742	1903-06
SALT CR NR CHANDLERSVILLE(d)	03149500	75.7	1922-61
MUSKINGUM RI AT MCCONNELSVILLE (d)	03150000	7422	1940-92
MEIGS CR NR BEVERLY (d)	03150250	136	1936-47
HUNTERS RN AT LANCASTER (d)	03156000	10.0	1922-93
HOCKING RI AT LANCASTER (d)	03156400	48.2	1972-75
HOCKING RI NR LANCASTER (d)	03156500	90.3	1956-80
CLEAR FK NR LOGAN (d)	03158000	14.8	1956-75
SUNDAY CR AT GLOUSTER	03159000	104	1924-32
HOCKING RI BL ATHENS(d)	03159510	957	1942-47
E B SHADE RI NR TUPPERS PLAINS	03159555	37.5	1952-81
SANDY RI AB BIG FOUR HOLLOW CR NR LAKE HOPE (d)	03201600	.98	1977-93
BIG FOUR HOLLOW CR BL E FK NR LAKE HOPE (d)	03201660	.73	1980-82
BIG FOUR HOLLOW CR NR LAKE HOPE (d)	03201700	1.01	1983-85
HULL HOLLOW CR NR LAKE HOPE (d)	03201720	.22	1971-82
SANDY RN NR LAKE HOPE (d)	03201800	4.99	1979-81
ZINNS RN NR RADCLIFF (d)	03201929	3.41	1971-83
STRONGS RN NR EWINGTON (d)	03201947	15.8	1979-81
SYMMES CR AT GETAWAY (d)	03205500	335	1958-79
SCIOTO RI AT LARUE (d)	03217500	257	1988-91
L SCIOTO RI AB MARION (d)	03218000	72.4	1938-47
L SCIOTO RI AT STP NR MARION (d)	03218500	85.8	1927-35
L SCIOTO RI NR MARION (d)	03219000	93.3	1939-51
EAGON RN NR WARRENSBURG (d)	03219600	.123	1939-72
OLENTANGY RI NR NEW WINCHESTER (d)	03222500	49.4	1925-36
WHETSTONE CR NR SHAWTOWN (d)	03223500	61.8	1938-39
SHAW CR AT SHAWTOWN (d)	03224000	25.4	1924-25
WHETSTONE CR NR ASHLEY (d)	03224500	98.7	1939
OLENTANGY RI AT DELAWARE (d)	03226000	421	1950-62
OLENTANGY RI AT STRATFORD (d)	03226500	445	1947-49
OLENTANGY RI NR WORTHINGTON (d)	03226800	497	1947-55
RUSH RN AT WORTHINGTON (d)	03226865	1.65	1947-55
LINWORTH RD CR AT COLUMBUS (d)	03226870	2.03	1955-74
BETHEL RD CR AT COLUMBUS (d)	03226875	.22	1922-24
OLENTANGY RI AT HENDERSON RD AT COLUMBUS (d)	03226885	518	1934-36
SCIOTO BIG RN AT BRIGGS DALE (d)	03228000	11.0	1938-58
ALUM CR AT KILBOURNE (d)	03228750	64.9	1956-85
SCIOTO RI NR CIRCLEVILLE (d)	03230000	2,638	1992
SCIOTO RI AT CIRCLEVILLE (d)	03230700	3,217	1979-82
DEER CR AT WILLIAMSPORT (d)	03231000 *	333	1979-82
			1979-82
			1979-82
			1978-82
			1947-58
			1974-83
			1939-56
			1974-79
			1990
			1927-35
			1939-56
			1962-92

X DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS - OHIO RIVER BASIN

Station Name	Station Number	Drainage Area (mi ²)	Period of Record
RATTLESNAKE CR AT CENTERFIELD (d)	03232300	209	1971-82
PAINT CR BL PAINT CR DAM NR BAINBRIDGE (d)	03232470 *	570	1968-92
SALT CR AT TARLTON (d)	03235000	11.5	1947-61
TAR HOLLOW CR AT TAR HOLLOW STATE PARK (d)	03235500	1.35	1947-79
SALT CR NR LONDONDERRY (d)	03236000	286	1939-50
L SALT CR NR JACKSON (d)	03236500	76.1	1925-32
L MIAMI RI NR SELMA (d)	03239000	48.9	1952-58
N FK L MIAMI RI NR PITCHIN (d)	03239500	28.9	1951-58
N FK MASSIE CR AT CEDARVILLE (d)	03240500	28.9	1954-68
S FK MASSIE CR NR CEDARVILLE (d)	03241000	17.1	1954-68
L MIAMI RI AT SPRING VALLEY (d)	03242000	360	1926-35
			1940-51
L MIAMI RI NR SPRING VALLEY (d)	03242050	366	1968-85
CAESAR CR NR XENIA (d)	03242150	71.4	1900
			1968-84
ANDERSON FK NR NEW BURLINGTON (d)	03242200	77.8	1968-84
CAESAR CR AT HARVEYSBURG (d)	03242300	209	1961-75
CAESAR CR NR WELLMAN (d)	03242350	239	1965-74
L MIAMI RI NR FORT ANCIENT (d)	03242500	680	1940-51
TODD FK NR WILMINGTON (d)	03243000	22.2	1923
			1943-44
COWAN CR NR WILMINGTON (d)	03243500	32.0	1943-50
TODD FK NR ROACHESTER (d)	03244000	219	1952-75
E FK L MIAMI RI NR DODSONVILLE (d)	03246000	91.4	1947-48
E FK L MIAMI RI NR MARATHON (d)	03246200	195	1968-84
E FK L MIAMI RI AT WILLIAMSBURG (d)	03246500	237	1949-53
			1961-74
E FK L MIAMI RI NR BANTAM (d)	03247000	330	1949-53
E FK L MIAMI RI NR BATAVIA (d)	03247050	352	1965-94
SHAYLER RN NR PERINTOWN (d)	03247400	11.8	1968-73
L MIAMI RI AT PLAINVILLE (d)	03248000	1,713	1965-71
MILL CR AT READING (d)	03255500	73.0	1939-93
W FK MILL CR AT MT HEALTHY (d)	03256000	7.90	1949-53
W FK MILL CR NR GREENHILLS (d)	03257000	29.9	1945-53
W FK MILL CR AT WOODLAW (d)	03257500	32.2	1953-86
W FK MILL CR AT LOCKLAND (d)	03258000	35.6	1939-57
MILL CR AT MITCHELL AVE AT CINCINNATI	03259500	135	1941-48
			1990
STONY CR NR DEGRAFF (d)	03260800	59.1	1958-76
G MIAMI RI AT QUINCY (d)	03261000	405	1947-49
G MIAMI RI AT PIQUA (d)	03262500	866	1915-17
GREENVILLE CR NR GREENVILLE (d)	03263500	142	1930-31
STILLWATER RI AT COVINGTON (d)	03264500	437	1931-35
MAD RI AT ZANESFIELD (d)	03266500	7.31	1947-78
MAD RI AT TREMONT CITY (d)	03267500	264	1931-33
			1966-75
CHAPMAN CR AT TREMONT CITY (d)	03267600	24.0	1968-69
MOORE RN NR EAGLE CITY (d)	03267700	18.2	1966-72
MAD RI AT EAGLE CITY (d)	03267800	307	1966-71
MAD RI AT ST PARIS PIKE AT EAGLE CITY (d)	03267900	310	1965-95
BUCK CR NR NEW MOOREFIELD (d)	03267950	30.5	1967-77
E FK BUCK CR NR NEW MOOREFIELD (d)	03267960	28.7	1967-77
BUCK CR AT NEW MOOREFIELD (d)	03268000	65.3	1943-58
BEAVER CR NR SPRINGFIELD (d)	03268500	39.2	1943-58
			1973-76
BUCK CR AT SPRINGFIELD (d)	03269000	139	1915-21
			1925-49
			1973-74
WOLF CR AT TROTWOOD (d)	03270800	22.7	1963-86
G MIAMI RI AT MIAMISBURG (d)	03271500 *	2,711	1916-20
			1924-35
			1952-95
SEVENMILE CR AT COLLINSVILLE (d)	03272800	120	1960-72
SEVENMILE CR AT SEVENMILE (d)	03273000	135	1915-20
FOURMILE CR NR HAMILTON (d)	03273500	307	1938-60
G MIAMI RI AT VENICE (d)	03274500	3,789	1915-27
			1932-33

DISCONTINUED SURFACE-WATER-QUALITY STATIONS - OHIO RIVER BASIN

XI

The following stations were discontinued as continuous-record surface-water-quality stations prior to water year 1996. Daily records of temperature, specific conductance, pH, dissolved oxygen or sediment were collected and published for the record shown for each station.

Station Name	Station Number	Drainage Area (mi ²)	Type of Record	Period of Record
BEECH CR NR BOLTON	03087000	17.4	Temp.	1943-51
MAHONING RI AB DUCK CR AT LEAVITTSBURG	03093800	542	Temp., S.C., D.O., pH	1968-81
MAHONING RI AT WARREN	03094500	594	Temp.	1924-35
MAHONING RI AT LOWELLVILLE	03099500	1,073	Temp.	1953-61
			Temp., S.C., D.O., pH	1963-67
MAHONING RI AT OHIO-PENNSYLVANIA STATE LINE	03099510	1,075	Temp., S.C., D.O., pH	1967-91
OHIO RI AT STRATTON	03110700	23,500	Temp	1961
			S.C.	1964-70
CONSOL RN NR BLOOMINGDALE	03110983	.98	Sed.	1979-81
TUSCARAWAS RI AT NAVARRE	03117100	534	Temp., S.C., D.O., pH	1968-84
			Temp., S.C., D.O., pH	1987-91
BLACK FK AT LONDONVILLE	03131500	349	Temp., S.C., D.O., pH	1968-76
SAND FK NR WAKATOMIKA	03144400	1.34	Sed.	1978-81
N FK LICKING RI AT UTICA	03146000	116	Temp.	1970-73
LICKING RI NR NEWARK	03146500	537	Temp.	1962-68
			Temp., S.C., D.O., pH	1968-80
MUSKINGUM RI AT PHILO	03149200	7,196	Temp., S.C., D.O., pH	1965-74
MUSKINGUM RI NR BEVERLY	03150300	7,626	Temp.,	1963-70
			S.C.	1964-70
B. HUNTERS RN NR HOOKER	03155900	104	Sed.	1956-62
HOCKING RI AT ATHENS	03159500	943	Temp.	1954-64
			Cond.	1964-65
			Sed.	1956-65
HOCKING RI BL ATHENS	03159510		Temp., S.C., D.O.	1966-72
			Temp., S.C., D.O., pH.	1972-80
SANDY RI AB BIG FOUR HOLLOW CR NR LAKE HOPE	03201600	98	Temp., S.C., pH.	1971-78
BIG FOUR HOLLOW CR NR LAKE HOPE	03201700	1.01	Temp., S.C., pH.	1971-83
			Sed.	1978-83
SANDY RN NR LAKE HOPE	03201800	4.99	Temp., S.C., D.O.	1970-78
RACCOON CR AT ADAMSVILLE	03202000	585	Temp., S.C., D.O., pH.	1967-84
			Sed.	1969-74
				1985
WHETSTONE CR NR ASHLEY	03224500	98.7	S.C.	1964-68
OLENTANGY RI NR WORTHINGTON	03226800	497	Temp.	1955-68
			Sed.	1978-81
RUSH RN AT WORTHINGTON	03226865	1.65	Sed.	1978-81
LINWORTH RD CR AT COLUMBUS	03226870	2.03	Sed.	1978-81
BETHEL RD CR AT COLUMBUS	03226875	.22	Sed.	1978-81
OLENTANGY RI AT HENDERSON RD AT COLUMBUS	03226885	518	Sed.	1978-81
ALUM CR AT AFRICA	03228805	122	Temp., S.C.	1965-70
SCIOTO RI BL SHADEVILLE	03229600	2,266	Temp., S.C., D.O.	1965-80
			pH	1971-80
PAINT CR NR GREENFIELD	03232000	249	Temp.	1974-78
RATTLESNAKE CR AT CENTERFIELD	03232300	209	Temp.	1974-78
SALT CR NR LONDONDERRY	03235995	268	Temp.	1973-74
SCIOTO RI AT LUCASVILLE	03237100	6,178	Temp.	1956-74
			S.C.	1965-74
MIAMI RI NR SELMA	03239000	48.9	Temp., Sed.	1952-58
N FK L MIAMI RI NR PITCHIN	03239500	28.9	Temp., Sed.	1952-58
N FK MASSIE CR AT CEDARVILLE	03240500	28.9	Temp., Sed.	1954-68
S FK MASSIE CR NR CEDARVILLE	03241000	17.1	Temp., Sed.	1954-68
L MIAMI RI NR SPRING VALLEY	03242050	366	Temp., S.C., D.O., pH	1968-80
CAESAR CR AT HARVEYSBURG	03242300	209	Temp., S.C.	1970-75
TODD FK NR ROACHESTER	03244000	219	Temp., Sed.	1952-58
L MIAMI RI AT MIAMIVILLE	03245300	1,189	Temp., S.C., D.O., pH	1970-75
L MIAMI RI AT MILFORD	03245500	1,203	Temp., S.C., D.O., pH	1975-84
			Sed.	1978-84
E FK L MIAMI RI AT WILLIAMSBURG	03246500	237	Temp., S.C.	1970-75
G MIAMI RI AT TIPP CITY	03262745	970	Temp., S.C., D.O., pH	1978-80
MAD RI AT EAGLE CITY	03267800	307	Temp., Sed.	1965-69
BUCK CR AT NEW MOOREFIELD	03268000	65.3	Temp., S.C.	1970-76
MAD RI NR DAYTON	03270000	635	Temp., S.C., D.O., PH	1968-80
G MIAMI RI NR STEWART ST AT DAYTON	03271075	2,587	Temp., S.C., D.O., PH	1978-80
G MIAMI RI NR MIAMISBURG	03271600	2,715	Temp., S.C., D.O., pH	1964-78
G MIAMI RI AT ROCKDALE	03272410	3,275	Temp., S.C., D.O., pH	1978-80
G MIAMI RI AT NEW BALTIMORE	03274600	3,814	Temp., S.C.	1966
			Temp., S.C., D.O.	1968-82
			pH	1975-82
G MIAMI RI AT ELIZABETHTOWN	03276600	5,356	Temp.	1956-74
			S.C.	1964-74

XII GROUND-WATER STATIONS FOR WHICH RECORDS ARE PUBLISHED - OHIO RIVER BASIN

(Letter after station location designates type of data: (c) chemical, (l) water level.)

Well Number	Local Number	Location	Page
ASHLAND COUNTY			
405303082170700	AS-2	Ashland (l)	186
405425082173000	AS-3	Jerome Fork (l).....	187
ATHENS COUNTY			
392004082071600	AT-2A	Athens (l)	188
392009082072200	AT-5	Athens (l)	189
AUGLAIZE COUNTY			
403233083574500	AU-3	Southwest of New Hampshire (l).....	190
BELMONT COUNTY			
400118081082200	B-3	Mount Olivett (l)	191
BROWN COUNTY			
385932083412400	BR-20	Fincastle (l)	192
BUTLER COUNTY			
391805084261800	BU-9	Northwest of Sharonville (l)	193
391904084371800	BU-12	East of Ross (l).....	194
391942084345700	BU-18	Fairfield (l)	195
392017084345200	BU-7	Fairfield (l)	196
392048084311400	BU-8	East of Hamilton (l).....	197
392445084333000	BU-36	Hamilton (c).....	198
393202084241500	BU-15	Middletown (l)	199
392733084293000	BU-16	Wayne (l).....	200
392743084295500	BU-17	Trenton (l)	201
392939084231700	BU-3	Middletown (l)	202
393103084240900	BU-2	Middletown (l)	203
CARROLL COUNTY			
403709081052800	C-1	North of Carrollton (l).....	204
CHAMPAIGN COUNTY			
400638083453900	CH-3	Urbana (l)	205
CLARK COUNTY			
395639084012200	CL-9	New Carlisle (l).....	206
395840083495200	CL-7	Northwest of Springfield (l).....	207
COSHOCTON COUNTY			
401256081525100	CS-3	North of Conesville (l)	208
401735081523800	CS-2	Coshocton (l).....	209
DARKE COUNTY			
400514084345700	D-2	East of Greenville (l).....	210
DELAWARE COUNTY			
402126083040400	DL-3	Delaware (l).....	211
FAIRFIELD COUNTY			
393450082403600	F-7	Southeast of Amanda (l)	212
394257082362900	F-6	Lancaster (l)	213
394544082271000	F-1	West Rushville (l)	214
395053082361900	F-5	Baltimore (l).....	215
FAYETTE COUNTY			
393153083322000	FA-1	West of Washington Court House (l).....	216
FRANKLIN COUNTY			
394956083002700	FR-18	South of Shadeville (l)	217
395118082573300	FR-3	Southwest of Rees (l).....	218
400101083021800	FR-10	Columbus (l)	219
GALLIA COUNTY			
383638082103300	G-2	East of Crown City (l).....	220
GREENE COUNTY			
394411083561300	GR-1	North of Xenia (l).....	221
394425083551100	GR-10	North of Xenia (l).....	222

(Letter after station location designates type of data: (c) chemical, (l) water level.)

Well Number	Local Number	Location	Page
HAMILTON COUNTY			
391039084291500	H-11	Cincinnati (l).....	223
391101084172100	H-3	Southeast of Miami (l).....	224
391201084281600	H-10	Cincinnati (l).....	225
391214084470100	H-1	Southeast of Harrison (l).....	226
391324084272500	H-9	Cincinnati (l).....	227
391341084275300	H-8	Wyoming (l).....	228
391442084262900	H-7	Evendale (l).....	229
391608084254400	H-6	Glendale (l).....	230
391733084392400	H-2	South of Ross (l).....	231
391748084393800	H-19	Southwest of Venice (c).....	232
391817084393300	H-4	Southwest of Ross (l).....	233
HARDIN COUNTY			
404218083503700	HN-1	Alger (l).....	234
HOCKING COUNTY			
393200082235300	HK-1	Logan (l).....	235
KNOX COUNTY			
402344082300700	K-1	Mt. Vernon (l).....	236
402747082374300	K-4	Near Fredericktown (l).....	237
LICKING COUNTY			
400848082251100	LI-4	St. Louisville (l).....	238
LOGAN COUNTY			
401510083444400	LO-3	West Liberty (l).....	239
MADISON COUNTY			
395301083272200	M-2	London (l).....	240
395352083292100	M-5	Northwest of London (l).....	241
395357083304400	M-4	Northwest of London (l).....	242
395740083255700	M-3	North of London (l).....	243
MAHONING COUNTY			
410042080453800	MA-1	Canfield (l).....	244
MARION COUNTY			
403413083170500	MN-4	Southeast of New Bloomington (l).....	245
403443083230400	MN-1	LaRue (l).....	246
403601083110400	MN-2	West of Marion (l).....	247
MEDINA COUNTY			
410120081431800	MD-3	Wadsworth (l).....	248
MERCER COUNTY			
402833084375200	MR-2	Coldwater (l).....	249
MIAMI COUNTY			
395848084085500	MI-3	Northeast of Tipp City (l).....	250
400308084112900	MI-44	Troy (c).....	251
MONTGOMERY COUNTY			
393757084173600	MT-928	Miamisburg (c).....	252
394012084151700	MT-55	West Carrollton (l).....	253
394025084162800	MT-49	West Carrollton (l).....	254
394425084113200	MT-3	Dayton (l).....	255
394533084113800	MT-6	Dayton (l).....	256
394811084095000	MT-74	Dayton (l).....	257
MUSKINGUM COUNTY			
395804081593200	MU-1A	Zanesville (l).....	258
PICKAWAY COUNTY			
393327082571600	PK-7	South of Circleville (l).....	259
393402082572500	PK-4	South of Circleville (l).....	260
393638082572300	PK-6	Northwest of Circleville (l).....	261
393438083072200	PK-8	Williamsport (l).....	262
394742083094800	PK-9	Near Orient (l).....	263

XIV

GROUND-WATER STATIONS FOR WHICH RECORDS ARE PUBLISHED - OHIO RIVER BASIN

(Letter after station location designates type of data: (c) chemical, (l) water level.)

Well Number	Local Number	Location	Page
PIKE COUNTY			
390359083015100	PI-2	West of Piketon (l).....	264
PORTAGE COUNTY			
411401081025000	PO-1	Windham (l).....	265
PREBLE COUNTY			
394438084335900	PR-2	East of Eaton (l).....	266
RICHLAND COUNTY			
404625082305100	R-4	Mansfield (l).....	267
405753082360800	R-3	Shiloh.....	268
ROSS COUNTY			
391341083172200	RO-7	West of Bainbridge (l).....	269
391913082580500	RO-8	Chillicothe (l).....	270
SHELBY COUNTY			
401707084103100	SH-5	Sidney (l).....	271
STARK COUNTY			
404939081203800	ST-5A	Canton (l).....	272
405211081253500	ST-27	North Canton (l).....	273
TUSCARAWAS COUNTY			
403207081293800	TU-3	Dover (l).....	274
403557081313600	TU-4	Strasburg (l).....	275
403653081321800	TU-1	North of Strasburg (l).....	276
403823081324200	TU-5	Near Strasburg (l).....	277
UNION COUNTY			
401826083255200	U-4	Southeast of Raymond (l).....	278
402010083321900	U-5	East of East Liberty (l).....	279
VINTON COUNTY			
391452082282900	V-1	McArthur (l).....	280
WARREN COUNTY			
392712084191700	W-5	East of Monroe (l).....	281
WASHINGTON COUNTY			
392553081281600	WA-2	Marietta (l).....	282
393241081353500	WA-3	Beverly (l).....	283
WAYNE COUNTY			
404655081553200	WN-3	Near Wooster (l).....	284
404802081583100	WN-2A	Near Wooster (l).....	285
405745081510200	WN-7	Near Sterling (l).....	286
405805081462300	WN-6	Rittman (l).....	287

VOLUME 1: OHIO RIVER BASIN
EXCLUDING PROJECT DATA

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey (USGS), in cooperation with State agencies, obtains a large amount of data each water year (a water year is the 12-month period from October 1 through September 30 and is identified by the calendar year in which it ends) pertaining to the water resources of Ohio. These data, accumulated during many years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the USGS, they are published annually in this report series entitled "Water Resources Data—Ohio."

This report (in two volumes) includes records on surface water and ground water in the State. Specifically, it contains: (1) Discharge records for streamflow-gaging stations, miscellaneous sites, and crest-stage stations; (2) stage and content records for streams, lakes, and reservoirs; (3) water-quality data for streamflow-gaging stations, wells, synoptic sites, and partial-record sites; and (4) water-level data for observation wells. Locations of lake- and streamflow-gaging stations, water-quality stations, and observation wells for which data are presented in this volume are shown in figures 9a through 9d. The data in this report represent that part of the National Water Data System collected by the USGS and cooperating State and Federal agencies in Ohio.

This series of annual reports for Ohio began with the 1961 water year with a report that contained only data relating to the quantities of surface water. For the 1964 water year, a similar report was introduced that contained only data relating to water quality. Beginning with the 1975 water year, the report was changed to present (in two to three volumes) data on quantities of surface water, quality of surface and ground water, and ground-water levels.

Prior to the introduction of this series, and for several years concurrent with it, water-resources data for Ohio were published in a series of USGS Water-Supply Papers. Data on stream discharge and stage and on lake or reservoir contents and stage through September 1960 were published annually under the title "Surface-Water Supply of the United States, Parts 3 and 4." For the 1961 through 1970 water years, the data were published in two 5-year reports. Data on the chemical quality, temperature, and suspended sediment for the 1941 through 1970 water years were published annually under the title "Quality of Surface Waters of the United States," and ground-water levels for the 1935 through 1974 water years were published under the title "Ground-Water Levels in the United States." The above-mentioned Water-Supply Papers can be found in libraries of the principal cities of the United States, and can be purchased from the U.S. Geological Survey, Open-File Reports Section, Box 25286, Mail Stop 517, Denver, CO 80225.

Publications similar to this report are published annually by the USGS for all States. These official USGS reports are identified by means of a number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report OH-96-1." For archiving and general distribution, the reports for 1971-74 water years are also identified as water-data reports. These water-data reports can be purchased in paper copy or in microfiche from the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

USGS water data can be accessed on the World Wide Web at: <http://water.usgs.gov>. Data at this Web site include historic daily values and peaks, real-time water data, and spatial data. (The USGS Ohio District's Web site can be accessed at: <http://www-oh.er.usgs.gov>.)

Additional information for ordering specific reports, including current prices, may be obtained by writing the District Chief at the address given on the back of title page or by telephoning (614) 469-5553.

COOPERATION

The USGS has had cooperative agreements for the collection of water-resource data since 1898. The following organizations assisted in collecting data in this report:

- U. S. Air Force, Air Force Materiel Command, Aeronautical Systems Center,
Environmental Management Directorate, Restoration Branch, David Lawrence, Chief;
- U. S. Army Corps of Engineers,
Buffalo District, Walter C. Neitzke, Commander,
Huntington District, Richard W. Jemiola, Commander,
Louisville District, Ralph Grieco, Commander,
Pittsburgh District, Stephen B. Massey, Commander;
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- U. S. Environmental Protection Agency, Region V, Luanne Vanderpool;
- U. S. Forest Service, Marsha Wikle;

Office of Surface Mining, Reclamation and Enforcement, Judy M. Gerlach;
 Wright-Patterson Air Force Base, Captain Dan Block;
 Ohio Biological Survey, Brian J. Armitage, Director;
 Ohio Department of Natural Resources, Donald C. Anderson, Director;
 Ohio Department of Transportation, Jerry H. Wray, Director;
 State of Ohio, Adjutant General's Department, Colonel James O. Ashenhurst, Facility Management Officer;
 Cuyahoga County, Richard G. Hunsinger, Chief Engineer;
 Cuyahoga County, Board of Health, B. J. Meder, Director;
 Geauga County, David C. Dietrich, Planning Director;
 Madison County, Robert Edwards, President, County Board of Commissioners;
 Ross County, James L. Kennard, Administrative Assistant;
 Summit County, Jeffrey Lintern, Director, and Gene Esser, Chief Deputy Engineer;
 Washington County Board of Commissioners, Sandra Matthews, Commissioner;
 City of Akron, Linda A. Sowa, Director of Public Service;
 City of Canton, Michael L. Miller, Director of Public Service;
 City of Columbus, Water Division, John R. Doult, Administrator;
 City of Cortland, Mark E. Dunsmoor, Director of Public Services;
 City of Fremont, Terry M. Overmyer, Mayor;
 City of Lima, David J. Berger, Mayor, and Alice Godsey, City Sanitary Engineer;
 Cuyahoga River Commission, Theodore J. Esbom, President;
 Eastgate Development and Transportation Agency, John R. Getchey, Director, and
 James T. Wells, Manager, Transportation Program;
 Miami Conservancy District, P. Michael Robinette, General Manager, and Douglas N. Johnson, Chief Engineer;
 Northeast Ohio Regional Sewer District, Erwin J. Odeal, Executive Director;
 Ohio State University Research Foundation, James F. Ball, Associate Director;
 University of Toledo, Ronald Gallagher.

SUMMARY OF HYDROLOGIC CONDITIONS

Ohio is part of three physiographic provinces. Each province has its own distinctive hydrologic characteristics. The topography of the Till Plains section of the Central Lowlands Physiographic Province (fig. 1) consists of gently rolling ground moraine, bands of terminal moraine, and outwash-filled valleys. Glaciation altered the courses of most streams in this area. The Eastern Lake Plains Section (fig. 1) consists of wide expanses of level or nearly level land interrupted only by the sporadic sandy ridges that are the last visible remnants of glacial-lake beaches. Much of the area was swamp prior to development, and marshes are still present along Lake Erie near Toledo. The Lexington Plains section of the Interior Low Plateaus Province (fig. 1) is characterized by rolling terrain and a few isolated large hills and ridges. The "barbed" drainage pattern formed when small streams were captured as their headwaters cut back into the hills over time. Streams have carved the Kanawha Section of the Appalachian Plateaus Province (fig. 1) into an intricate series of hollows and steep-sided ridges. Only the large streams in the section have any appreciable flood plain. In the southern New York Section (fig. 1), successive waves of glaciation have subdued the relief, buried many preglacial valleys, and rerouted many streams.

PRECIPITATION

The average annual precipitation in Ohio is about 38 inches. The annual precipitation decreases from around 42 inches on the southern border to about 32 inches in the northwest. An anomalous area of high precipitation (as much as 44 inches) in northeastern Ohio results from air masses that pick up moisture and heat from Lake Erie and subsequently release precipitation over a range of hills stretching northeastward from Cleveland.

Monthly precipitation typically is greatest from May through July and least in October, December, and February. Of the approximate 38 inches of average annual precipitation, about 10 inches runs off immediately, 2 inches is retained at or near the surface and evaporates and transpires, and 26 inches enters the ground. Of the 26 inches that enters the ground, 20 inches is retained in the unsaturated zone and is later lost by evapotranspiration. The remaining 6 inches reaches the water table. Of this 6 inches, 2 inches eventually discharges to streams, and the rest is lost by evapotranspiration and consumptive use. Average runoff ranges from about 15 to 18 inches along the southern border to about 8 to 12 inches along most of the northern border, except in the northeast, where runoff is as much as 20 inches. The pattern of streamflow differs from the pattern of precipitation because of the contributions of snowmelt to streamflow in the early spring and the reduction in flows by evapotranspiration from June through September.

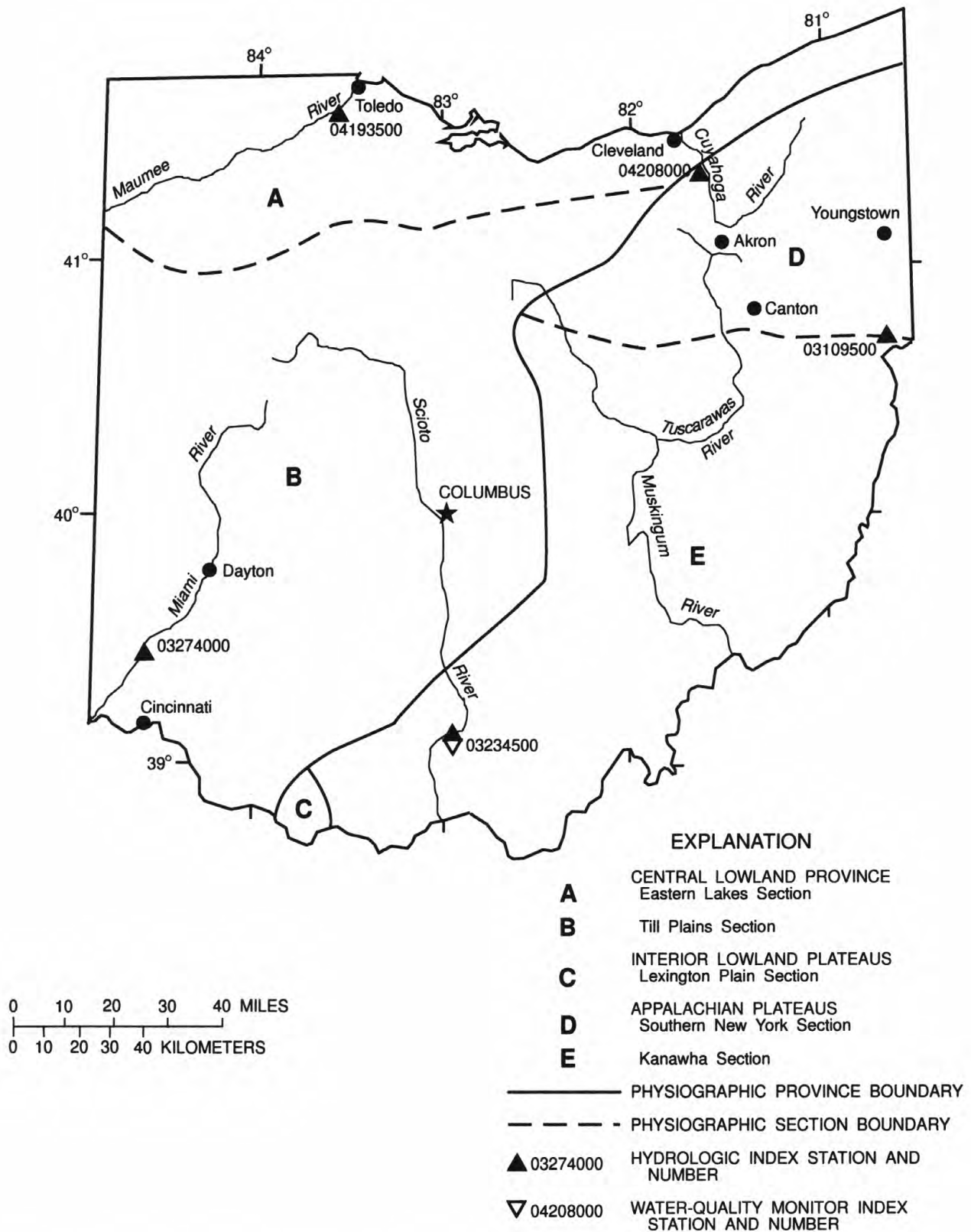


Figure 1. Physiographic divisions and location of Hydrologic Index Stations.

SURFACE WATER

Streamflow

Streamflow-data-collection stations are distributed irregularly throughout the State, and tend to be concentrated on the main river systems. The stations are used to sample a wide variety of conditions. The drainage areas range from 12 to 7,420 square miles and represent a wide diversity of topography and other physical characteristics. Streamflow ranges from unregulated to highly regulated.

Statewide Streamflow, Water Year 1996

At the beginning of water year 1996, streamflow was in the normal¹ range in southern Ohio and deficient elsewhere, owing to below-normal rainfall at the end of last water year. Above-normal precipitation during October caused flows to rise into the normal range in northern Ohio and into the excessive range in southern Ohio. Normal to above-normal flows prevailed through November. In December, streamflow fell into the deficient range in northwestern Ohio and into the normal range elsewhere in response to below-normal precipitation.

During January, most of Ohio received above-normal precipitation, and streamflow increased into the excessive range throughout the State. Damaging floods occurred in many areas along the Ohio River late in the month.

Streamflow was generally in the normal range during February, March, and early April in response to normal and below-normal precipitation.

Record or near-record high precipitation in April and May again put flows into the excessive range statewide. Record high flows were established for May at some gages, and flooding occurred throughout much of the State. Excessive flows prevailed through June. The remainder of the water year was characterized by normal to above-normal flows.

Statewide, average precipitation for water year 1996 was well above normal. Record or near-record high yearly mean discharges were established at gages throughout Ohio.

Water Quality

Water-quality data in Ohio are collected on a short-term basis in conjunction with local or regional studies. On a long-term basis, water-quality data in Ohio are collected at fixed stations. With the redesign of the National Stream Quality Accounting Network (NASQAN) in 1996 to concentrate on evaluation of large river basins, collection of water-quality data at fixed stations for NASQAN was discontinued in Ohio. Collection at another fixed station, the Hydrologic Benchmark station, located in a small, relatively pristine basin in southern Ohio, continued in 1996, although at a lower frequency than in previous years. Also active in Ohio is the National Water-Quality Assessment (NAWQA) Program, a long-term monitoring program designed to assess the status of and trends in the quality of the Nation's ground- and surface-water resources. Sampling in NAWQA began in 1991 in the Nation and in 1994 at some sites in the St. Lawrence River Basin in Ohio. One of the NAWQA fixed stations, the Maumee River at Waterville, was also a fixed station in NASQAN. In water year 1996 at the Maumee River at Waterville, as part of the NAWQA program, samples were collected monthly beginning in March; two additional samples were collected during high flow. Within the fixed-interval framework, sampling time is varied so that samples are collected over a range of streamflows. Samples are analyzed for major anions and cations, nutrients, trace elements, suspended sediment, selected physical properties, and fecal-coliform and *Escherichia coli* bacteria.

Box plots of discharge and concentrations of selected constituents measured during 1986-95 are shown in figures 3 and 4 for the Maumee River at Waterville as part of the NASQAN program. Land use in the basin is mixed and consists of row crop and heavy agriculture upstream and urban and industrial areas downstream. Results of analysis of samples collected in water year 1996 as part of the NAWQA program are superimposed on the box plots and are represented by solid circles.

The ranges of instantaneous discharge for water year 1996 were similar to those in the previous 10-year period for the Maumee River. Four samples, however, were collected at high flow; these values were above the 75th percentile of data collected during the previous 10-year period, with discharges ranging from 9,130 to 22,800 cubic feet per second.

Seven out of nine fecal-coliform concentrations found in 1996 for the Maumee River were above the median of data collected during the previous 10-year period. Concentrations in four of these samples exceeded the single-sample bathing-water standard of 400 colonies per 100 milliliters; none of the samples exceeded the single-sample primary-contact standard of 1,000 colonies per 100 milliliters.

Chloride concentrations, commonly associated with municipal or industrial point sources of wastewater, tended to be higher or lower in 1996 than the 75th and 25th percentiles of concentrations measured during the previous 10-year period. Dissolved-solids concentrations, however, were less than the 75th percentile of concentrations found in previous years.

During 1996, none of nitrate plus nitrite concentrations measured exceeded the U.S. Environmental Protection Agency maximum contaminant level for finished drinking water (10 milligrams per liter, as N). In Ohio, fertilizers are a major source of nitrate. Concentrations in the Maumee River were highly variable and ranged from 0.34 to 8.9 milligrams per liter.

¹For streamflow, "normal" is defined as being between the 25th and 75th percentiles as measured during the base period, water years 1961-90.

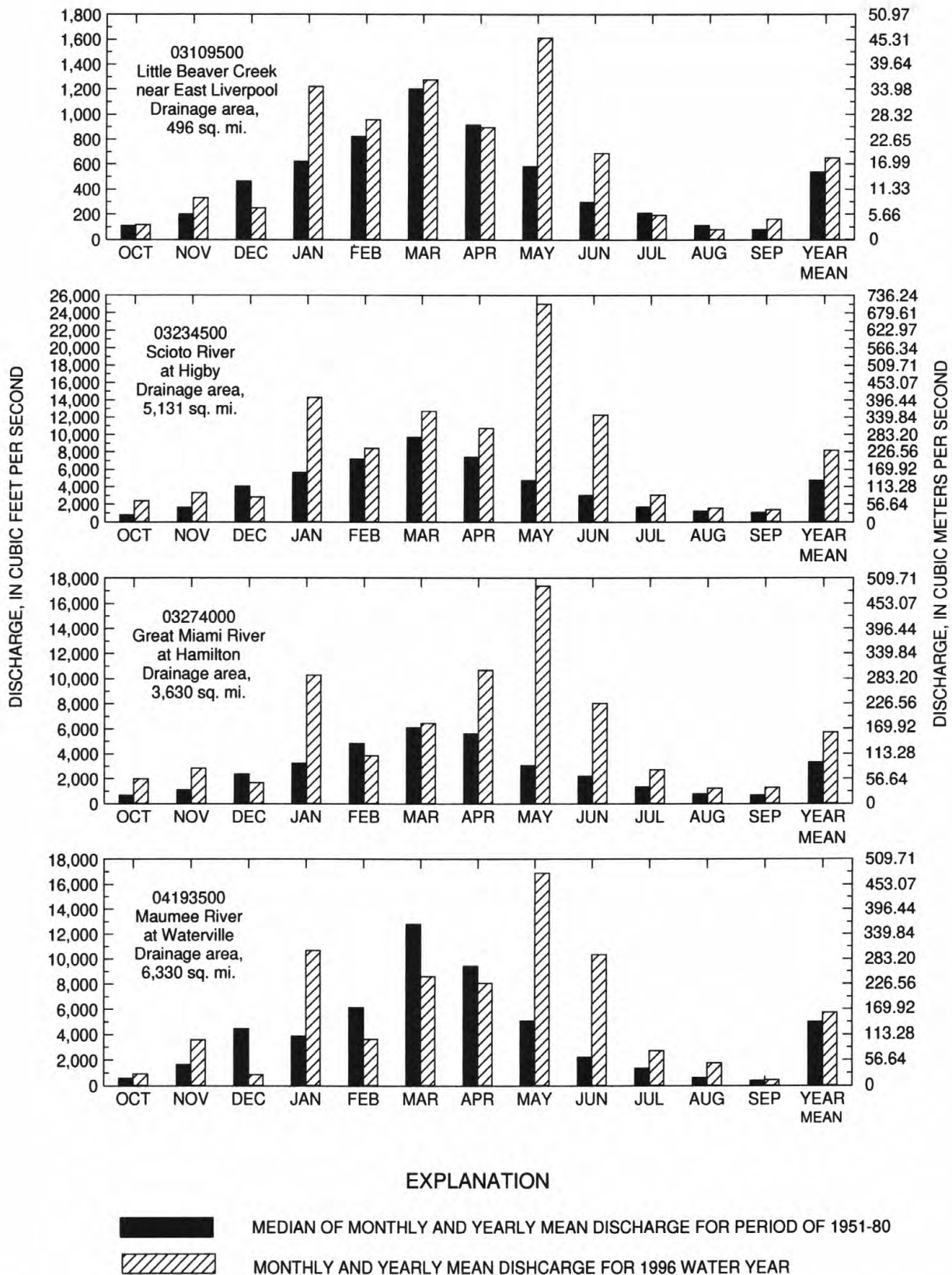


Figure 2. Discharge during 1996 water year compared with median discharge for period 1951-80 for four representative gaging stations.

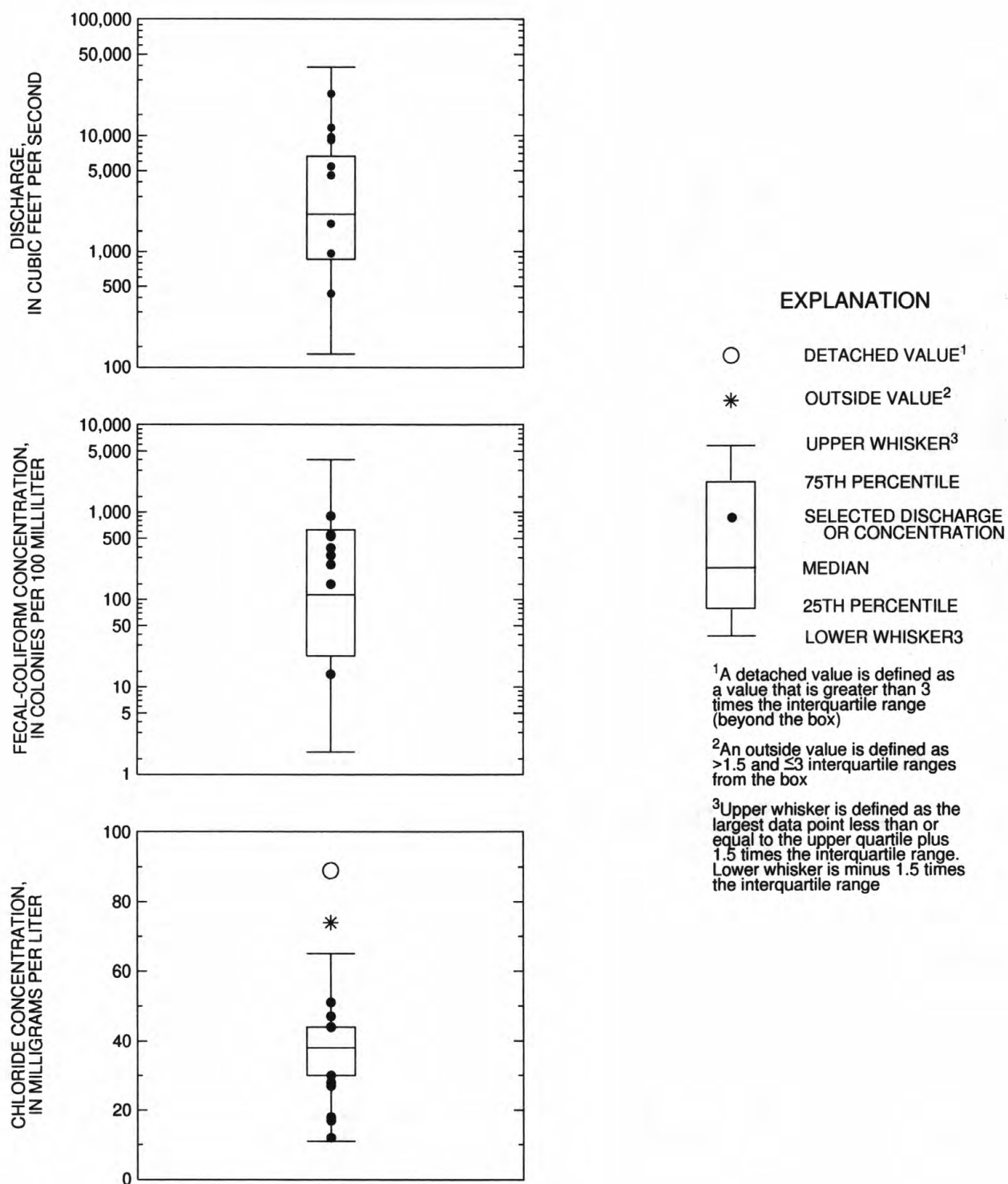


Figure 3. Discharge, fecal-coliform, and chloride concentrations measured in water year 1996 and the distribution of those constituents from measurements made during the water years 1986-95 for the Maumee River at Waterville.

Agricultural runoff and municipal and industrial point sources are the principal sources of phosphorus in Ohio. Increased phosphorus concentrations may lead to a high rate of production of plant materials in water and eutrophication of the receiving water. Total phosphorus concentrations were highly variable in the Maumee River during 1996, ranging from 0.08 to 0.33 milligrams per liter. Concentrations in the Maumee River during water year 1996 were similar to concentrations found in the previous 10-year period.

GROUND WATER

Ground water serves the needs of 45 percent of Ohio's population. An estimated 658 million gallons of ground water per day is withdrawn for public supply, domestic, industrial, and agricultural purposes. Many people in Ohio depend on ground water as the only practical source of supply.

Ohio's unconsolidated aquifers are composed of either coarse- or fine-grained sediments. Both types are composed mainly of materials of glacial origin. The coarse-grained unconsolidated aquifers generally consist of highly permeable sand and gravel. Much of the sand and gravel is alluvium derived from glaciofluvial outwash along the courses of some modern streams; thus, these aquifers sometimes are referred to as "watercourse" aquifers. Coarse-grained unconsolidated aquifers in the northwestern corner of the State (fig. 5) underlie glacial till, are locally confined under artesian pressure, and are highly productive. Extensive kame-terrace deposits of water-bearing gravel and sand are widely used ground-water sources in northeastern Ohio. The fine-grained unconsolidated aquifers are similar to the coarse-grained unconsolidated aquifers in form and origin but are less permeable because of higher percentages of mixed fine sand, silt, and clay. Included in the fine-grained unconsolidated aquifers are tills that contain thin or localized stratified lenses of sand and gravel.

Ground-water supply for much of the unglaciated upland area of southeastern Ohio is from bedrock aquifers composed of shaly sandstone and thin limestone. These strata, which range from Mississippian to Permian in age, are dominated by low-yielding shales and shaly sandstones that include numerous coal-bearing strata. In some places, small water supplies are available from fractured coal beds. Several sandstone aquifers in northeastern Ohio are of regional extent and are major ground-water sources for individual and small public supplies. These include the Berea and Black Hand Sandstones of Mississippian age and several sandstone members of the Pottsville and Allegheny Formations of Pennsylvanian age. The Lake Erie coastline of northeastern Ohio is underlain by shale of Devonian and Mississippian age (fig. 5) that yields only small amounts of water to wells. Silurian-age limestone and dolomite and Devonian limestone comprise the carbonate aquifer system (fig. 5) of much of western Ohio. Glacial cover is uneven and consists of valley fill and terminal moraine in some places. The northeastern part of western Ohio contains an area of high-yielding wells that tap a preferentially weathered zone, which developed when carbonate section was periodically exposed as land mass during the Paleozoic Era. The southwestern corner of Ohio near Cincinnati is underlain by shale and a thin limestone aquifer of Ordovician age. Away from the watercourse (coarse unconsolidated) aquifers that traverse the area, the rocks that form the uplands yield only very small amounts of ground water.

Ground-Water Levels

Most ground-water observation wells in Ohio tap unconsolidated sand and gravel aquifers associated with the State's principal streams. Sample 1-year and 5-year hydrographs of a well completed in an unconfined unconsolidated sand and gravel aquifer are shown in figure 6. The observation-well network also includes some bedrock wells in areas where consolidated aquifers are heavily used for water supply, such as in the carbonate-rock region of northwestern Ohio. Sample 1-year and 5-year hydrographs of a well completed in a confined carbonate-rock aquifer are shown in figure 7. The yearly low for most wells occurs during the winter months, especially in cold, dry years or near the end of the growing season. Highs for the year usually occur from March through June, which is the peak of the recharge season. The yearly water-level fluctuation due to climatic conditions in water-table and confined-aquifer wells is commonly 3 to 5 feet, but can be as much as 10 feet.

At the beginning of water year 1996, ground-water levels were in the normal² range in western Ohio and below normal in eastern Ohio. In spite of above-normal precipitation in October, ground-water levels were fairly stable during October through December and remained below normal in eastern Ohio and normal elsewhere.

Net rises in ground-water levels were observed statewide in January, owing to above-normal precipitation and snowmelt; however, levels remained below normal in eastern Ohio even though they were normal and above normal elsewhere.

In March and early April, ground-water levels stabilized and were near normal in western Ohio and below normal in eastern Ohio.

Ground-water levels rose statewide in late April and May in response to record or near-record precipitation during these months. Above-normal ground-water levels prevailed in much of the State through June, and record-high levels were established at numerous observation wells.

The remainder of the water year was characterized by seasonal declines, although ground-water levels remained above normal for much of the State. At the end of the water year, the only areas of normal and below-normal levels were in eastern Ohio.

²For ground-water levels, "normal" is defined as being between the 25th and 75th percentiles of the range of values recorded during the reference period, 1960-75.

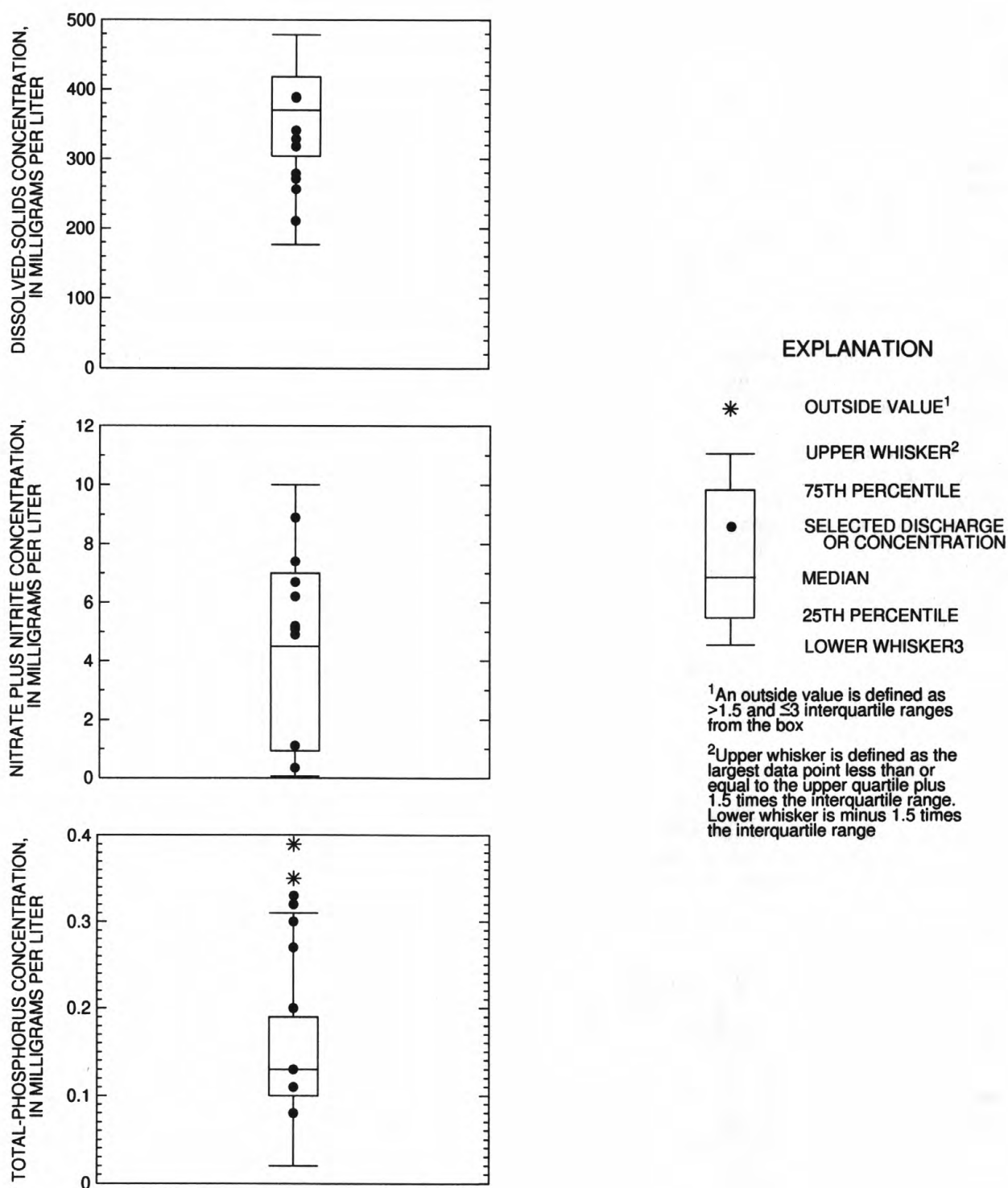


Figure 4. Dissolved-solids, nitrate plus nitrite, and total-phosphorus concentrations measured in the water year 1996 and the distribution of those constituents from measurements made during water years 1986-95 for the Maumee River at Waterville.

SPECIAL NETWORKS AND PROGRAM

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 39 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives: (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO₂ emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO₂ and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the World Wide Web at:

<http://nadp.nrel.colostate.edu/NADP>

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 53 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the World Wide Web at:

http://wwwrvares.er.usgs.gov/nawqa/nawqa_home.html

EXPLANATION OF THE RECORDS

The records in this report are for the 1996 water year that began October 1, 1995, and ended September 30, 1996. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

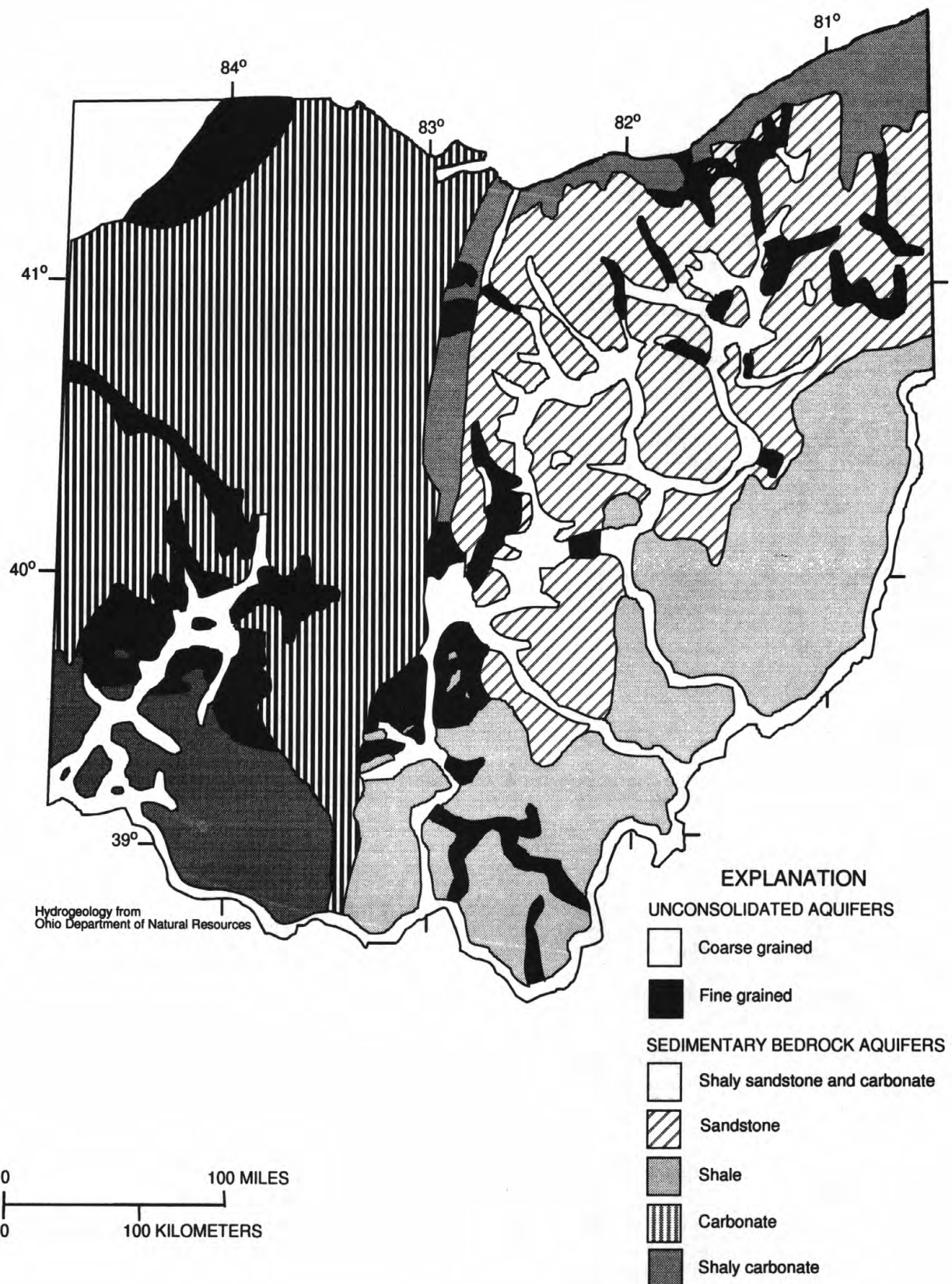


Figure 5. Geographic distribution of principal aquifers in Ohio.

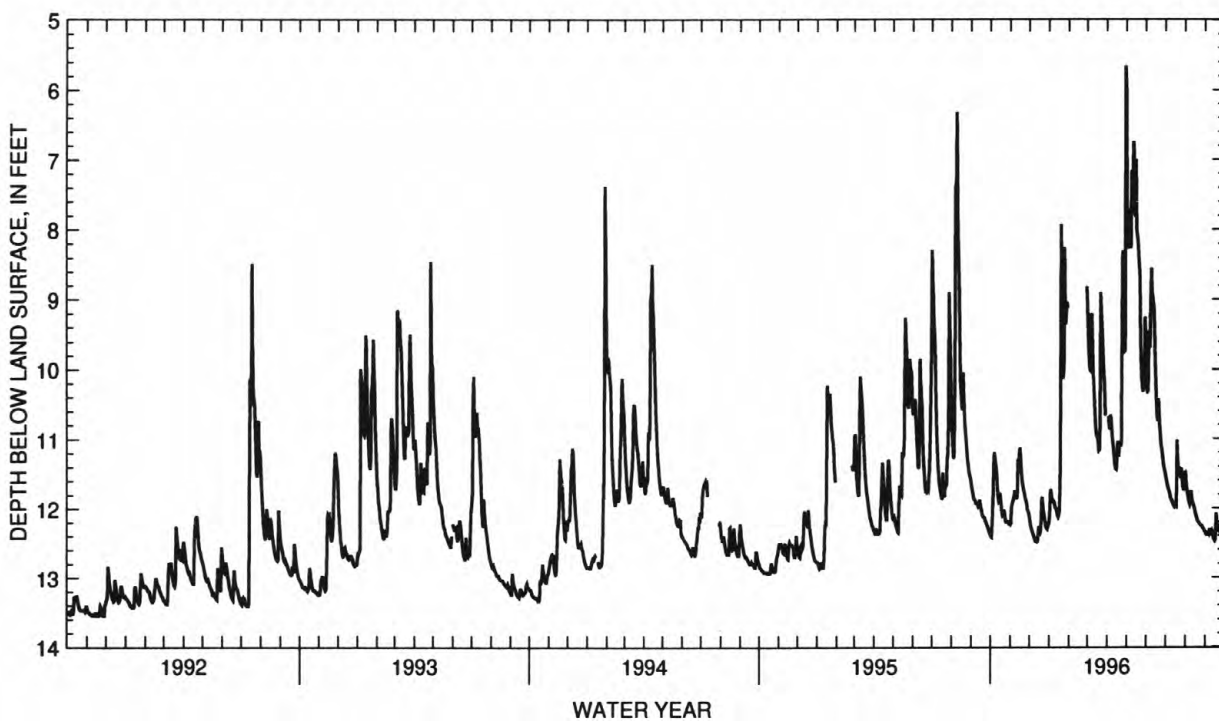
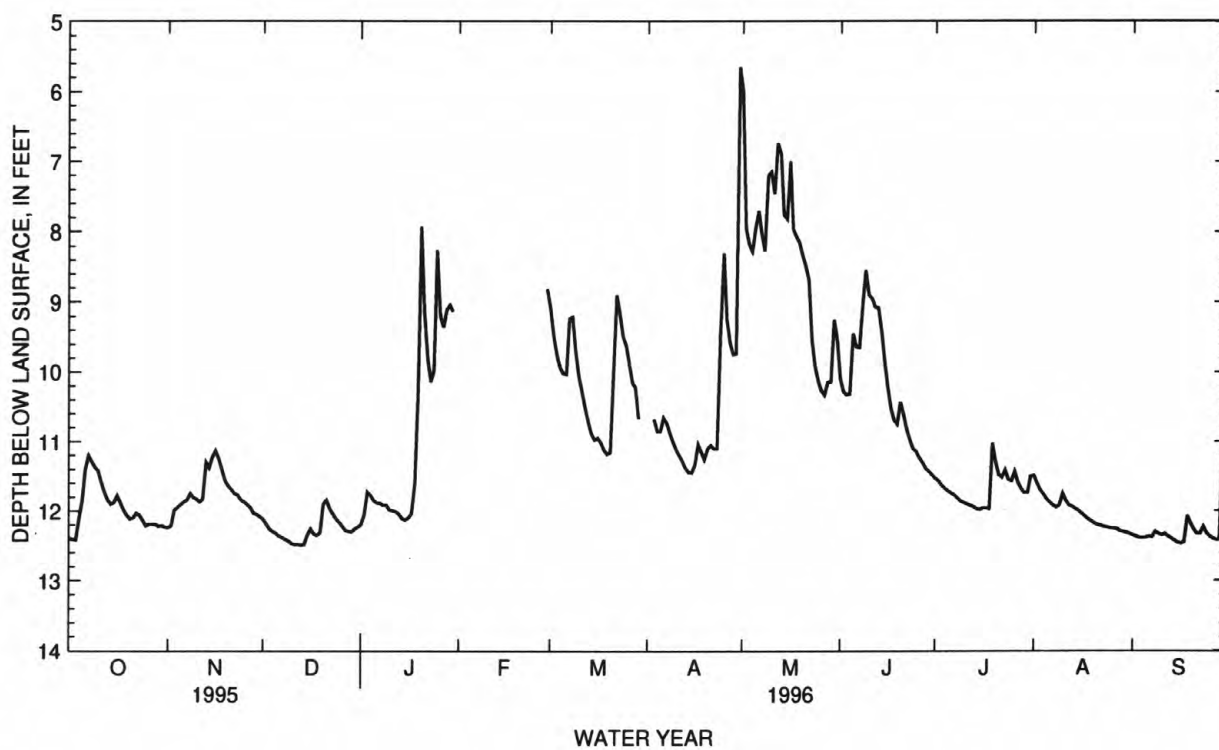


Figure 6. Sample 1-year and 5-year hydrographs of well FR-3 (395118082573300), completed in an unconfined unconsolidated aquifer.

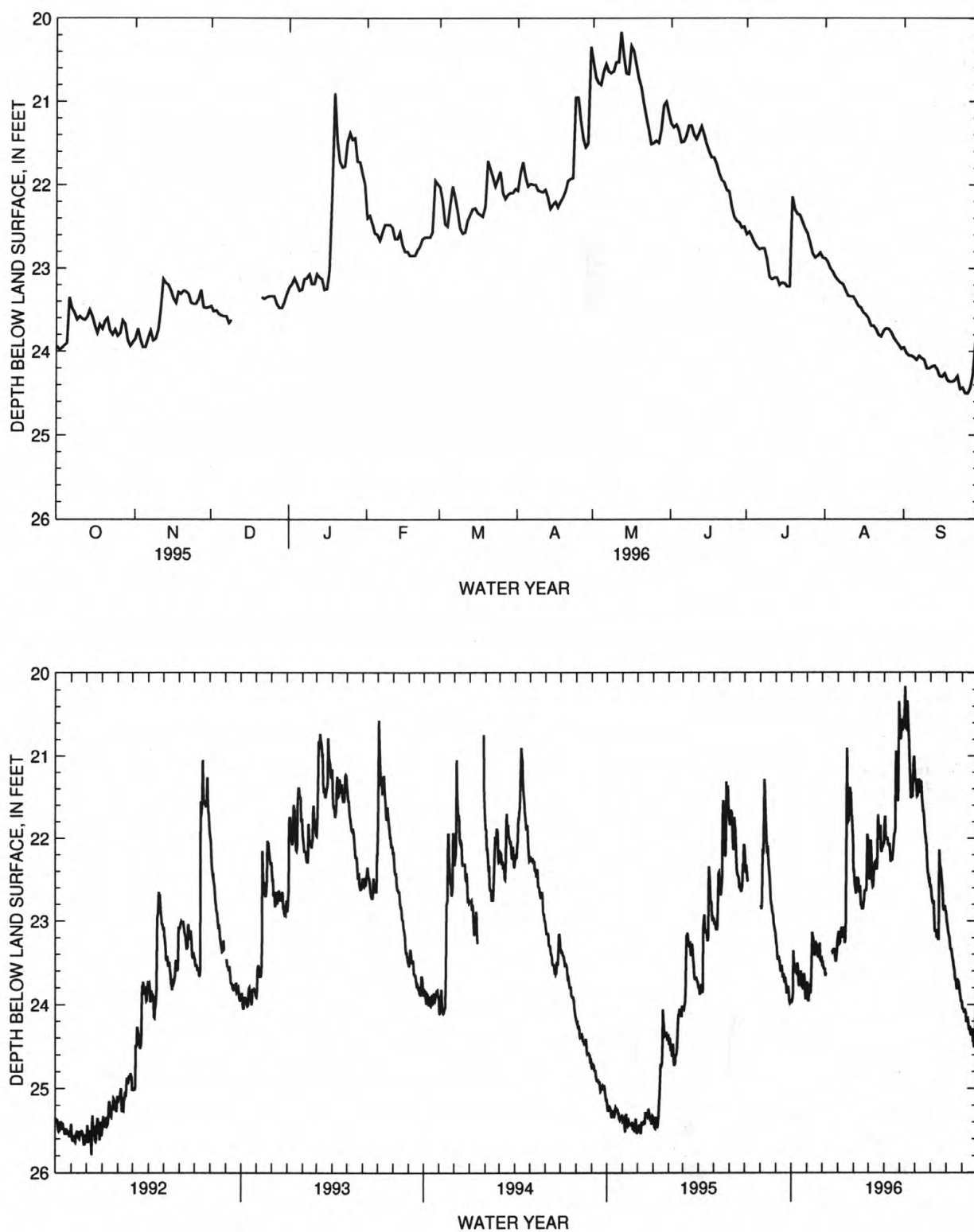


Figure 7. Sample 1-year and 5-year hydrographs of well U-4 (401826083255200), completed in a confined carbonate-rock aquifer.

STATION IDENTIFICATION NUMBERS

Each data station, whether onstream or at a well, is assigned a unique identification number. The number is generally assigned when a station is first established and is retained for that station indefinitely. The systems used by the USGS to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic locations. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells and, in Ohio, for surface-water stations where only infrequent measurements are made.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in USGS reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in a "List of Stations" in the front of the report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station-identification number is assigned according to the above-mentioned downstream order. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station such as 04041000, which appears just to the left of the station name, includes the two-digit part number "04" plus the six-digit downstream order number "041000". The part number designates the major river basin; for example, part "03" is the Ohio River Basin, and part "04" is the St. Lawrence River Basin.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description. (See figure 8.)

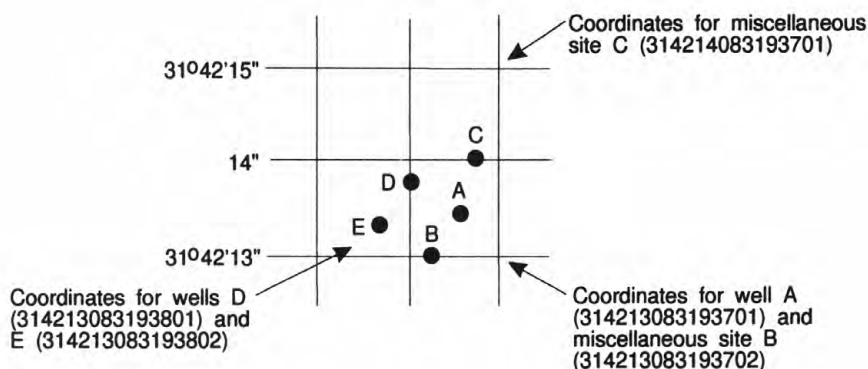


Figure 8. System for numbering wells and miscellaneous sites (latitude and longitude).

RECORDS OF STAGE AND WATER DISCHARGE

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharge may be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir contents, similarly, are those for which stage or content may be computed or estimated with reasonable accuracy for any time or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because mean daily discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements often without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of a partial record is indicated by table titles such as CREST-STAGE PARTIAL RECORDS, or LOW-FLOW PARTIAL RECORDS. Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Location of all complete-record and crest-stage stations for which data are given in this volume are shown in figures 9a through 9d.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consist of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that may affect the relationships between stage and discharge. These data, together with supplemental information such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that may affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained with analog recorders that trace continuous graphs of stage or with digital recorders that punch stage values on paper tapes or store stage data on solid-state storage media at selected time intervals. Measurements of discharge are made with current meters using methods adapted by the USGS as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in USGS Techniques of Water-Resources Investigations, Book 3, Chapter A6.

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow-over-dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying stages (gage heights) to the stage discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on the individual discharge measurements and notes of the personnel making the measurements are applied to the gage heights before the discharges are determined from the curve or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter may so obscure the stage-discharge relation that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method, in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

In computing records of lake or reservoir contents, it is necessary to have available from surveys or curves, tables defining the relation of stage and contents. The application of stage to the stage-contents curves or tables give the contents from which daily, monthly, or yearly changes are then determined. If the stage-contents relation changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relation. Even when this is done, the contents computed may become increasingly in error as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relation much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated from operator's logs, previous or following record, inflow-outflow studies, and other information.

At some gaging stations, acoustic velocity meter (AVM) systems are used to compute discharge. The AVM system measures the stream's velocity at one or more paths in the cross section. Coefficients are developed to relate this path velocity to the mean velocity in the cross section. Because the AVM sensors are fixed in position, the adjustment coefficients generally vary with stage. Cross-sectional area curves are developed to relate stage, recorded as noted above, to cross-section area. Discharge is computed by multiplying path velocity by the appropriate stage-related coefficient and area.

Data Presentation

The records published for each gaging station consist of two parts—the manuscript or station description and the data table for the current water year.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments to follow clarify information presented under the various headings of the station description.

LOCATION.—Information on locations is obtained from the most accurate maps available. The location of the gage with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of the drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not, and whose location was such that records from it can reasonably be considered equivalent with records from the present station.

REVISED RECORDS.—Published records, because of new information, occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: (M) means that only the instantaneous maximum discharge was revised; (m) that only the instantaneous minimum was revised; and (P) that only the peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.—The type of gage in current use, the datum of the current gage referred to Mean Sea Level (MSL) (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a REMARKS statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, in addition, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES FOR PERIOD OF RECORD.—"Extremes for Period of Record" is presented as a separate paragraph where outside summary statistical period. Extremes may include maximum and minimum stages and maximum and minimum discharges or contents. Unless otherwise qualified, the maximum discharge or content is the instantaneous maximum corresponding to the highest stage that occurred. The highest stage may have been obtained from a graphic or digital recorder, a crest-stage gage, or by direct observation of a nonrecording gage. If the maximum stage did not occur on the same day as the maximum discharge or content, it is given separately. Similarly, the minimum is the instantaneous minimum discharge, unless otherwise qualified, and was determined and is reported in the same manner as the maximum.

EXTREMES OUTSIDE PERIOD OF RECORD.—Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by USGS.

PEAK DISCHARGES ABOVE BASE FOR CURRENT YEAR—Presented as a separate table. For stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented under this heading. All peaks greater than the base discharge are listed with the maximum for the year footnoted by an asterisk (*). Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial regulation or at locations where the instantaneous peak discharge does not exceed the mean daily discharge by 10 percent. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030, and 1:30 p.m. is 1330.

REVISIONS.—If a critical error in published records is discovered, a revision is included in the first report following discovery of the error.

Although rare, occasionally the records of a discontinued station gaging station may need revision. Because, for these stations, there would be no current or, possibly, future station manuscript published to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the data from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. Of course, if the data were obtained by computer retrieval, the data would be current and there would be no need to check because any published retrieval of data is always accompanied by revisions of the corresponding data in computer storage.

Manuscript information for lakes or reservoir stations differs from that for stream stations in the nature of the "Remarks" and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings for AVERAGE DISCHARGE, AND EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate. No changes have been made to the data presentations of lake contents.

Data Table of Daily Mean Values

The daily table for stream-gaging stations gives mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed TOTAL gives the sum of the daily figures. The line headed MEAN gives the average flow in cubic feet per second during the month. The lines headed MAX and MIN give the maximum and minimum daily discharges respectively, for the month. Discharge for the month is often expressed in cubic feet per square mile (line headed CFSM), or in inches (line headed IN.), or in acre-feet (line headed AC-FT). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion or if the drainage area includes large noncontributing areas. In the yearly summary below the monthly summary, the figures shown are the appropriate discharges for the calendar and water years. At some stations monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversions or reservoir contents are given. These figures are identified by symbol and corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (line headed MAX), and minimum (line headed MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as FOR WATER YEARS ____ - ____ BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS ____ - ____, will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (See line headings below), except for the ANNUAL SEVEN-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in the footnotes. When the maximum or minimum statistic occurred outside the designated period, that statistic is listed in the EXTREMES FOR PERIOD OF RECORD paragraph in the manuscript. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. Comments to follow clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.—The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL SEVEN-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.—The maximum instantaneous stage occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are given in table PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area for the area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are usually presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage stations, and the second, when collected, is a table of discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are generally made in time of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified either by flagging individual daily values with the letter "e" and printing a table footnote, "e Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under REMARKS. "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Daily mean discharges in this report are given to the nearest hundredths of a cubic foot per second for values less than 1 ft³/s; to the nearest tenth between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to three significant figures for more than 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or other factors. For such stations, figures of cubic feet per second per square mile and of runoff, in inches, are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Records Available

Records of discharge, ground water, reservoir contents, and water quality not published by the USGS are collected in Ohio at several sites by State and other Federal agencies. The National Water Data Exchange (NAWDEX), U.S. Geological Survey, Reston, VA 20192, maintains an index of these sites as well as an index of records of discharge collected by other agencies but not published by the USGS. Information on records at specific sites can be obtained from that office upon request.

Information used in preparing the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables are on file in the Ohio District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on availability of the unpublished information or on results of statistical analyses of the published records may be obtained from the District office.

RECORDS OF SURFACE-WATER QUALITY

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may involve a variety of types of data and measurement frequency.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between "continuing records" as used in this report and "continuous recordings," which refers to a continuous graph or a series of discrete values punched at short intervals on a paper tape or recorded electronically. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recording; however, because of cost, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this volume are shown in figures 9a and 9b.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at a nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of DISCHARGE MEASUREMENTS.

On-site Measurements and Sample Collection

In obtaining water-quality data, a major concern is that the data obtained represent the in situ quality of the water. To assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, need to be made on site when the samples are taken. To assure that measurements made in the laboratory also represent the in situ water, carefully prescribed procedures need to be followed in collecting the samples, in treating the sample to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for on-site measurements and for collecting, treating, and shipping samples are given in publications on "Techniques of Water-Resources Investigations" (TWRI), Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A4, and USGS Open-File Report 93-125 "Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments." The TWRI references are listed in this report. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS District office.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream-Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several verticals depends on flow conditions and other factors that must be evaluated by the collector.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly readings beginning at 0100 hours and ending at 2400 hours for each day of record. More detailed records (hourly values) may be obtained from the USGS District Office, whose address is given on the back of the title page of this report.

Water Temperatures

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are frequently taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharge for days of rapidly changing flow or concentration was computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge values differ from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were

collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements—Chemical and Physical Properties

Sediment samples, samples for microbiological analyses, and samples for specific conductance, pH, and dissolved oxygen are analyzed locally. All other samples are analyzed in the USGS laboratories in Arvada, CO or by a USGS approved outside laboratory. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the USGS laboratory are given in TWRI, Book 1, Chap. D2; Book 3, Chap. C2; Book 5, Chap. A4, and USGS Open-File Report 93-125 "Methods of Analysis by the U.S. Geological Survey National Water Quality Laboratory—Determination of Inorganic and Organic Constituents in Water and Fluvial Sediments." Methods used by the USGS laboratory for microbiological analyses are given in TWRI, Book 5, Chap. A4.

Historical and current (1996) dissolved trace-element concentrations are reported herein for water that was collected, processed, and analyzed by using either ultraclean or other than ultraclean techniques. If ultraclean techniques were used, then those concentrations are reported in nanograms per liter. If other than ultraclean techniques were used, then those concentrations are reported in micrograms per liter and could reflect contamination introduced during some phase of the procedure.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily, are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information, as appropriate, is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.—See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.—This indicates the periods for which there are published water-quality records for the station. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor, temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the record.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. None are given for parameters measured weekly or less frequently because the true maximums and minimums may not have been sampled. Extremes, when given, are for the period of record and for the current water year.

REVISIONS.—If errors in published water-quality records are discovered after publication, appropriate updates are made to the Water-Quality File in the USGS computerized data system, the National Water Data Storage and Retrieval System (WATSTORE), and subsequently by monthly transfer of update transactions to the U.S. Environmental Protection Agency's STORET system. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of USGS water-quality data are encouraged to obtain all required data from the appropriate computer file to ensure the most recent updates.

Remark Codes

The following remarks codes may appear with the water-quality data in this report:

PRINTED OUTPUT	REMARK
E	Estimated value
>	Actual value is known to be greater than the value shown
<	Actual value is known to be less than the value shown
K	Results based on colony count outside the acceptable range (non-ideal colony count)
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted)
D	Biological organism count equal to or greater than 15 percent (dominant)
&	Biological organism estimated as dominant

Dissolved Trace-Element Concentrations

NOTE.—To confidently produce dissolved trace-element data with insignificant contamination, the USGS began using a new trace-element protocol at some stations in water year 1994 to collect trace-element data at the microgram per liter ($\mu\text{g/L}$) level (refer to USGS Open-File Report 94-539 "U.S. Geological Survey Protocol For The Collection And Processing Of Surface-Water Samples For The Subsequent Determination Of Inorganic Constituents In Filtered Water"). This protocol was used in water year 1995 at all stations. Therefore, the trace-element data for samples collected before and after implementation of new protocols are not directly comparable.

Change in National Trends Network procedures

NOTE.—Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences, based on a special intercomparison study, is available from the NADP/NTN Coordination Office, Colorado State University, Fort Collins, CO 80523 (Telephone: 303-491-5643).

RECORDS OF GROUND-WATER LEVELS

Water-level data from a network of observation wells (in addition to project wells) are given in this report. The network well data are intended to provide a sampling and historical record of water-level changes in the Nation's most important aquifers. Locations of the observation wells in this network in Ohio are shown in figures 9c and 9d. Water-level data for specific projects are reported under those projects.

Data Collection and Computation

Measurements of water levels are made in many types of wells under varying conditions, but the methods of measurement are standardized to the extent possible. The equipment and measuring techniques used at each observation well ensure that measurements at each well are of consistent accuracy and reliability.

Tables of water-level data are presented by counties arranged in alphabetical order. The prime identification number for a given well is a 15-digit number that is based on latitude and longitude. The secondary identification number is the local well number, which is provided for local needs. Water-level measurements in this report are given in feet with reference to land-surface datum. Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above sea level is given in each well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet, the error of determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given to a tenth of a foot or larger units.

Data Presentation

Each well record consists of two parts, the station description and the data table of water levels observed during the water year. The description of the well is presented first through use of descriptive headings preceding the tabular data. The comments to follow clarify information presented under the various headings.

LOCATION.—This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); a landline location designation; the hydrologic-unit number; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.—This entry describes the aquifer by age and composition.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, diameter, casing depth and (or) screened interval, method of construction, use, and additional information such as casing breaks, collapsed screen, and other changes since construction.

DATUM.—This entry describes both the measuring point and the land-surface altitude at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base, and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The altitude of the land-surface datum is described in feet above (or below) sea level; it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that are also water-quality observation wells, and may be used to acknowledge the assistance of local (non-USGS) observers.

PERIOD OF PUBLISHED RECORD.—This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water level records by the USGS or cooperating agency, and the words "to current year" if the records are to be continued to the following year. Periods for which water-level records are available, but not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF PUBLISHED RECORD.—This entry contains the highest and lowest water levels of the period of published record, with respect to land-surface datum, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet below (or above) land-surface datum. All periodic measurements of water levels for wells are listed. For wells equipped with recorders, daily water-level lows are published. The highest and lowest daily lows of the water year are shown on a line below the table. Because only daily lows are published for wells with recorders, the extreme instantaneous high may be a value that is not listed in the table. Missing records are indicated by dashes in place of the water level.

RECORDS OF GROUND-WATER QUALITY

Records of ground-water quality in this report differ from other types of records in that, for most sampling sites, they consist of only one set of measurements. The quality of ground water ordinarily changes slowly, so that frequent measuring of the same parameter is not necessary unless one is concerned with a particular problem such as monitoring for trends of a particular constituent.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some counties, but none are presented for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other counties in earlier years.

Most methods for collecting and analyzing water samples are described in the TWRI manuals listed in this report. The data presented in this report represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. All samples were obtained by trained personnel. The wells sampled were pumped long enough to assure that the water collected came directly from aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and the material comprising the casings.

Data Presentation

The records of ground-water quality are published intermixed with the ground-water-level data for network wells and with the specific project for project wells.

ACCESS TO WATSTORE DATA

The USGS is the principal Federal water-data agency and, as such, collects and disseminates about 70 percent of the water data currently being used by numerous State, local, private, and other Federal agencies to develop and manage our water resources. As part of the USGS's program of releasing water data to the public, a large-scale computerized system has been developed for the storage and retrieval of water data collected through its activities. WATSTORE was established in 1972 to provide an effective and efficient means for the processing and maintenance of water data collected through the activities of the USGS and to facilitate release of the data to the public. A variety of useful products, ranging from data tables to complex statistical analyses such as Log Pearson Type III, can be produced using WATSTORE. The system resides on the central computer facilities of the USGS at its National Center in Reston, Virginia, and consists of related files and data bases.

- Station Header File—Contains descriptive information on more than 440,000 sites throughout the United States and its territories where the USGS collects or has collected data.
- Daily Values File—Contains daily values of streamflows, stages, reservoir contents, water temperatures, specific conductances, sediment concentrations, sediment discharges, and ground-water levels for more than 32,000 sites.
- Peak Flow File—Contains maximum (peak) streamflow and gage-height values at surface-water sites for more than 23,000 sites.
- Water Quality File—Contains more than 1.8 million analyses of water samples that describe the chemical, physical, biological, and radiochemical characteristics of surface water and ground water.
- Ground-Water Site Inventory Data Base—Contains inventory data for more than 900,000 wells, springs, and other sources of ground water. The data includes site location, geohydrologic characteristics, well-construction history, and one-time field measurements such as water temperature.

In 1976, the USGS opened WATSTORE to the public for direct access. The signing of a Memorandum of Agreement with the USGS is required to obtain direct access to WATSTORE. The system can be accessed either synchronously or asynchronously. The requestor will be expected to pay all computer costs incurred. Direct access may be obtained by contacting:

U.S. Geological Survey
National Water Data Exchange
421 USGS National Center
Reston, Virginia 20192

In addition to providing direct access to WATSTORE, data can be provided in various machine-readable formats on magnetic tape or floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division's District offices. (See address on the back of the title page.)

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting inch-pound units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot, and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measure of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter of the original water sample.

Algae are mostly aquatic single-celled, colonial, or multicelled plants, containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield reasonable quantities of water to wells and springs.

Artesian means confined, and is used to describe a well in which the water level stands above the top of the aquifer tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35°C. In the laboratory, these bacteria are defined as the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35°C \pm 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44°C \pm 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35°C \pm 1.0°C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m³), and periphyton and benthic organisms in grams per square meter (g/m²).

Dry mass refers to the mass of residue present after drying in an oven at 105°C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and the ash mass and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organism, which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons, or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll *a* and *b* are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of salt water.

Cubic foot per second (cfs, ft³/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved: That material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Dissolved solids concentration of water is determined either analytically by the "residue-on-evaporation" method, or mathematically by totalling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.492 to reflect the change.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Escherichia coli (*E. coli*) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5°C on mTEC medium.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate (CaCO_3).

Hydrologic Bench-Mark Station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from human-induced changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

Hydrologic Index Stations, in this report, refers to four continuous record gaging stations that have been selected as representative of streamflow patterns for their respective regions of Ohio. Station locations are shown in figure 1.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to the water surface in a well is measured to obtain the water level.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substance (MBAS) is a measure of apparent detergents. This determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, $\mu\text{g/g}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (gram) of sediment.

Microgram per kilogram (UG/KG, $\mu\text{g/kg}$) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed per unit mass (kilogram) of bottom material.

Micrograms per liter (UG/L, $\mu\text{g/L}$) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L , and is based on the mass of dry sediment per liter of water-sediment mixture.

National Stream-Quality Accounting Network (NASQAN) is a data-collection network designed by the USGS to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area habitat, usually square meters (m^2), acres, or hectares. Periphyton benthic organisms and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliters (mL) or liters (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Parameter code is a 5-digit number used in the USGS computerized data system, WATSTORE, to uniquely identify a specific constituent. The codes used in WATSTORE are the same as those used in the U.S. Environmental Protection Agency data system, STORET. The U.S. Environmental Protection Agency assigns and approves all requests for new codes.

Partial-record station is a particular site where limited streamflow and (or) water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology.

The classifications are as follows:

Classification	Size (mm)		Method of analysis
Clay	0.00024	- 0.004	Sedimentation
Silt	0.004	- 0.062	Sedimentation
Sand	0.062	- 2.0	Sedimentation or sieve
Gravel	2.0	- 64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Percent composition is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population in terms of types, number, mass, or volume.

Periphyton is the assemblage of microorganisms attached to and growing upon solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton is a useful indicator of water quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants respectively, are the two categories reported.

Picocurie (PCI, pCi) is one trillionth (1×10^{-12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per millimeter (cells/mm) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movement within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated by the plants (carbon method).

Milligrams of carbon per area or volume per unit time [$\text{mg C}/(\text{m}^2 \text{ or } \text{m}^3/\text{time})$] for periphyton, macrophytes, and phytoplankton are units for expressing primary productivity. They define the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method, and is preferred for use in unenriched waters. Unit time may be the hour or day, depending on the incubation period.

Milligrams of oxygen per area or volume per unit time [$\text{mg O}_2/(\text{m}^2 \text{ or } \text{m}^3/\text{time})$] for periphyton, macrophytes, and phytoplankton are units for expressing primary productivity. They define production and respiration rates as estimated from changes in the measured dissolved oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment; thus, the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Return period is the average time interval between occurrences of a hydrological event of a given or greater magnitude, usually expressed in years. May also be called recurrence interval.

Runoff in inches (IN., in.) indicates the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea Level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land use, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along the bed and very close to it. In this report, bed load is considered to consist of particles in transit within 0.25 ft of the streambed.

Bed-load discharge (tons per day) is the quantity of bed load measured by dry weight that moves past a section as bed load in a given time.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is the quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

7-day, 10-year low flow ($7Q_{10}$) is the discharge at the 10-year recurrence interval taken from a frequency curve of annual values of the lowest mean discharge for 7 consecutive days (the 7-day low flow).

Sodium-adsorption-ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium of alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water, per unit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Natural substrate refers to any naturally occurring emerged or submersed solid surface, such as a rock or tree, upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrate are basket samplers (made of wire cages filled with clean streamsize rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexuses strips for periphyton.

Surface area of a lake is that area outlined on the latest USGS topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimeted. All areas shown are those for the stage when the planimeted map was made.

Surficial bed material is the part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of the total concentration in a water-sediment mixture. The water-sediment mixture is associated with (or sorbed on) that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	<i>Hexagenia</i>
Species	<i>Hexagenia limbata</i>

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table headings and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot indicates the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY) is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total discharge is the total quantity of any individual constituent, as measured by dry mass or volume, that passes through a stream cross section per unit of time. This term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total load (tons) is the total quantity of any individual constituent, as measured by dry mass or volume, that is dissolved in a specific amount of water (discharge) during a given time. It is computed by multiplying the total discharge, times the mg/L of the constituent, times the factor 0.0027, times the number of days.

Total recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Water year in USGS reports dealing with surface-water supply is the 12-month period, October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1980, is called the "1980 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published after 1975.

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

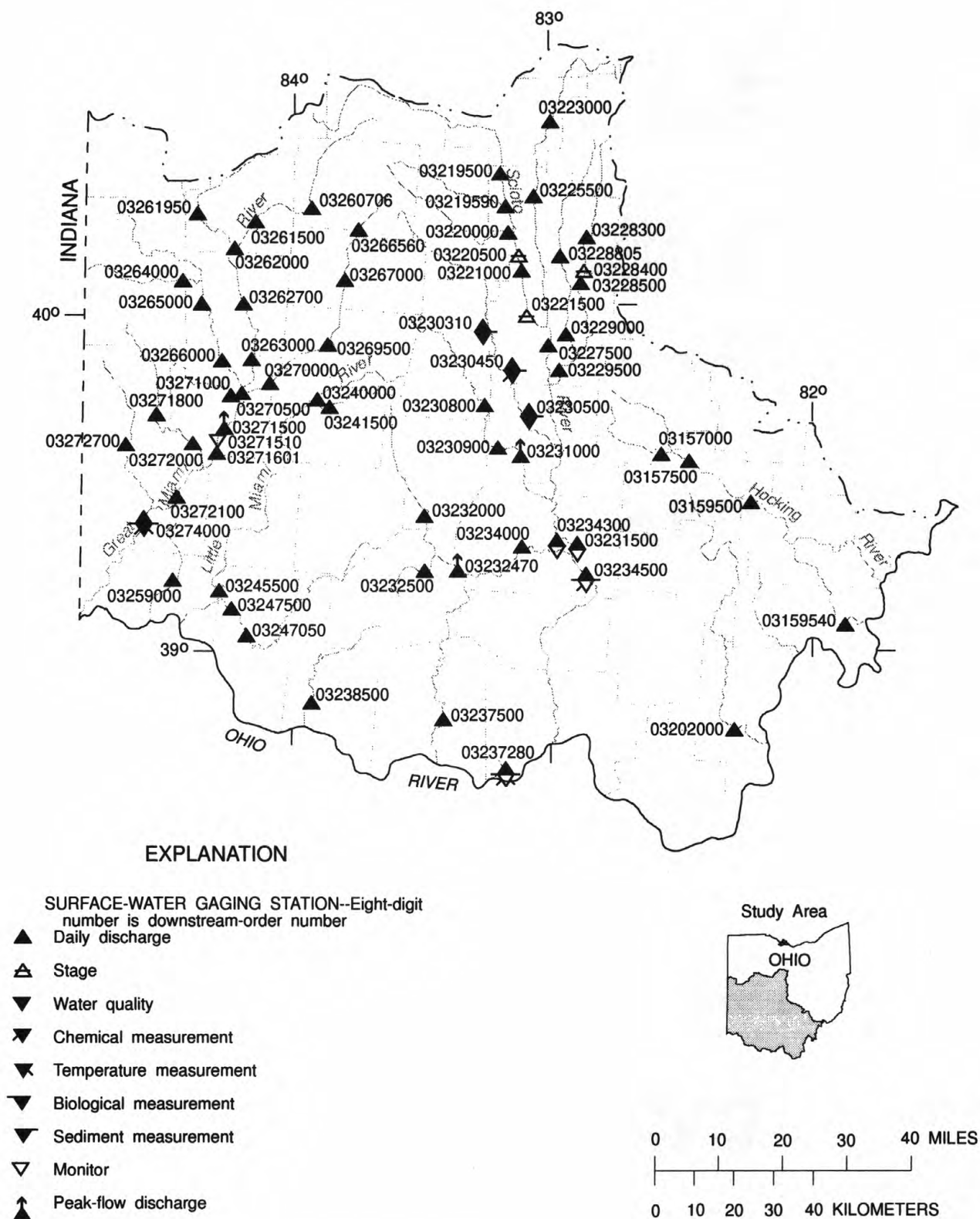


Figure 9a. Location of data-collection stations.

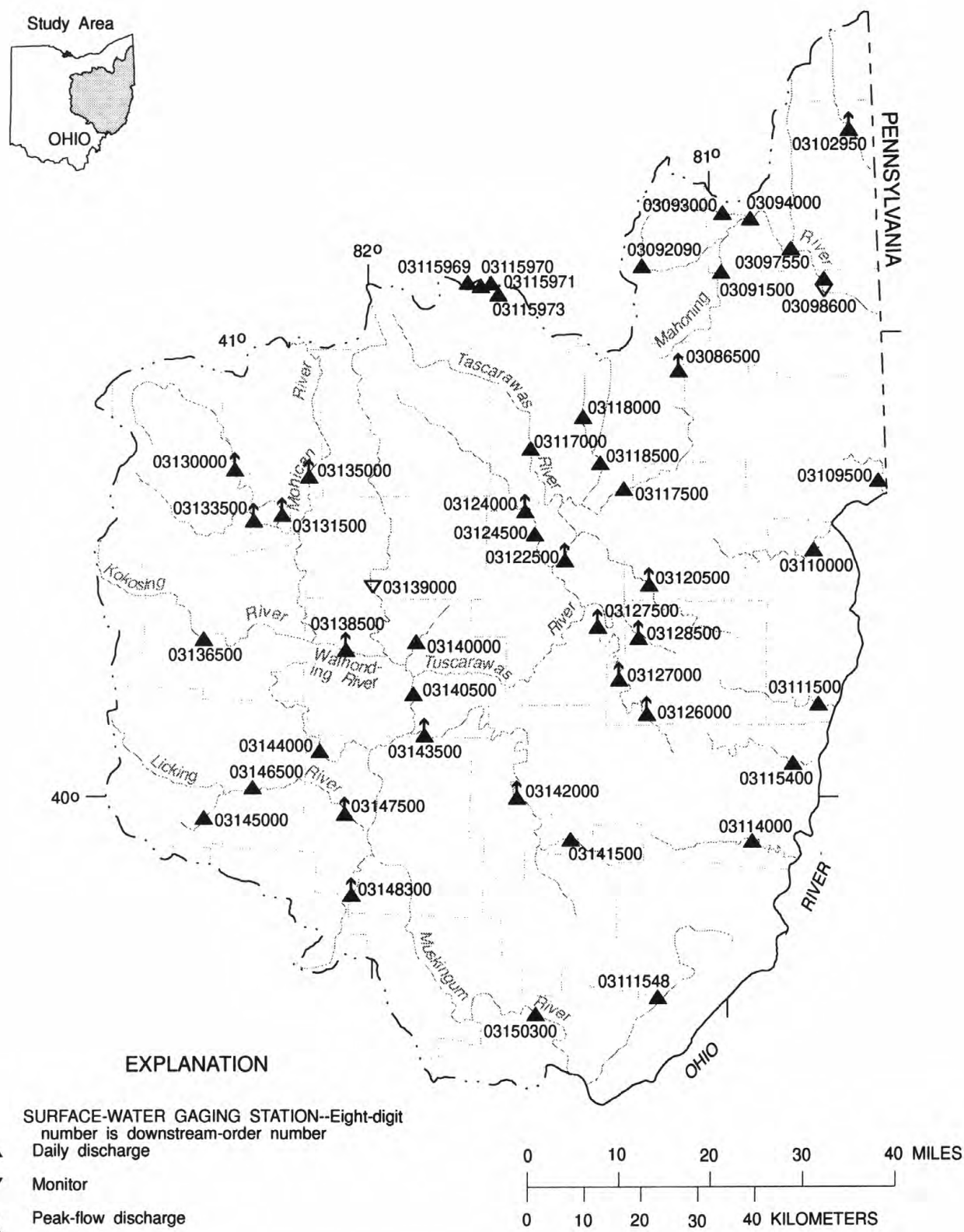


Figure 9b. Location of data-collection stations.

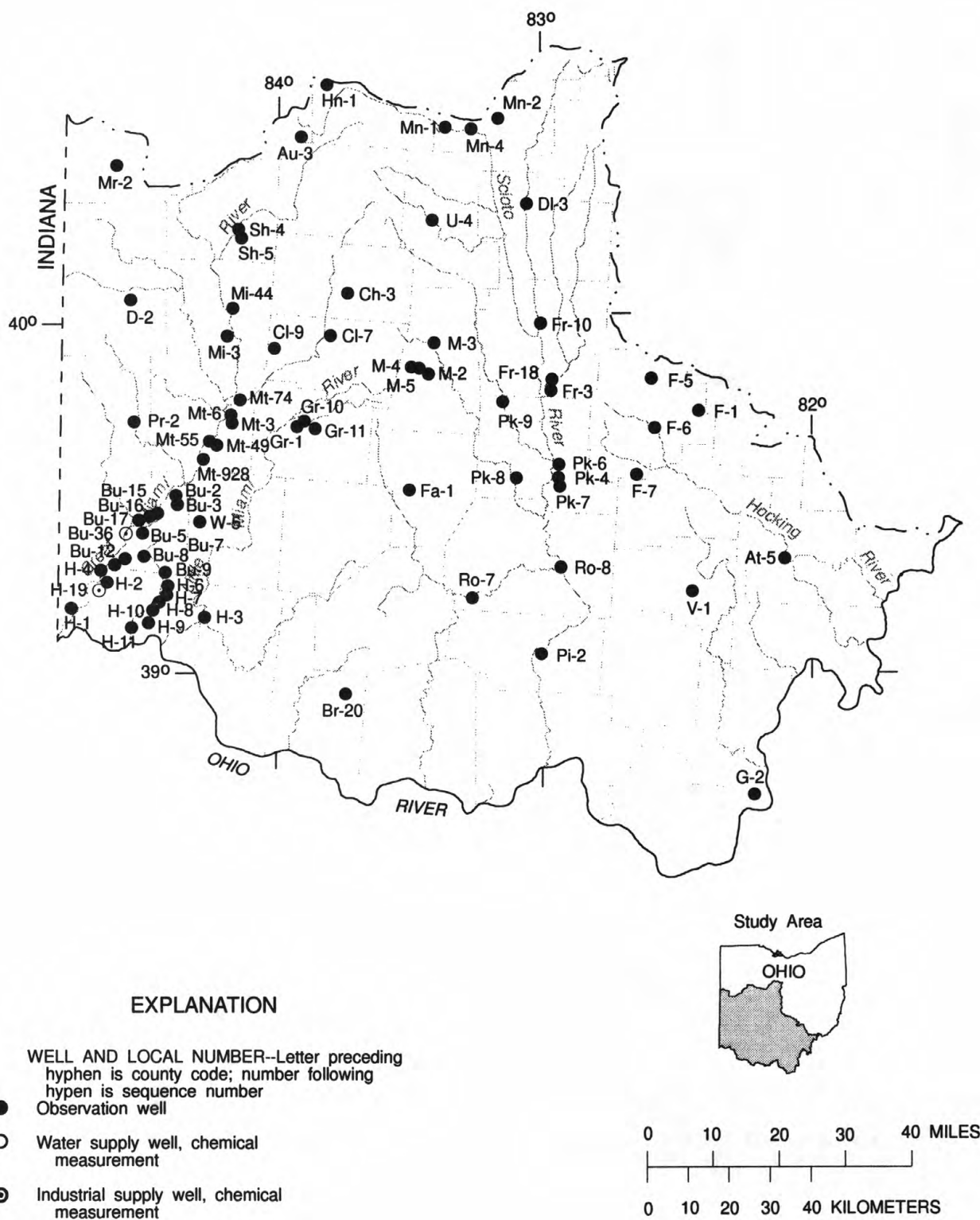


Figure 9c. Location of wells.

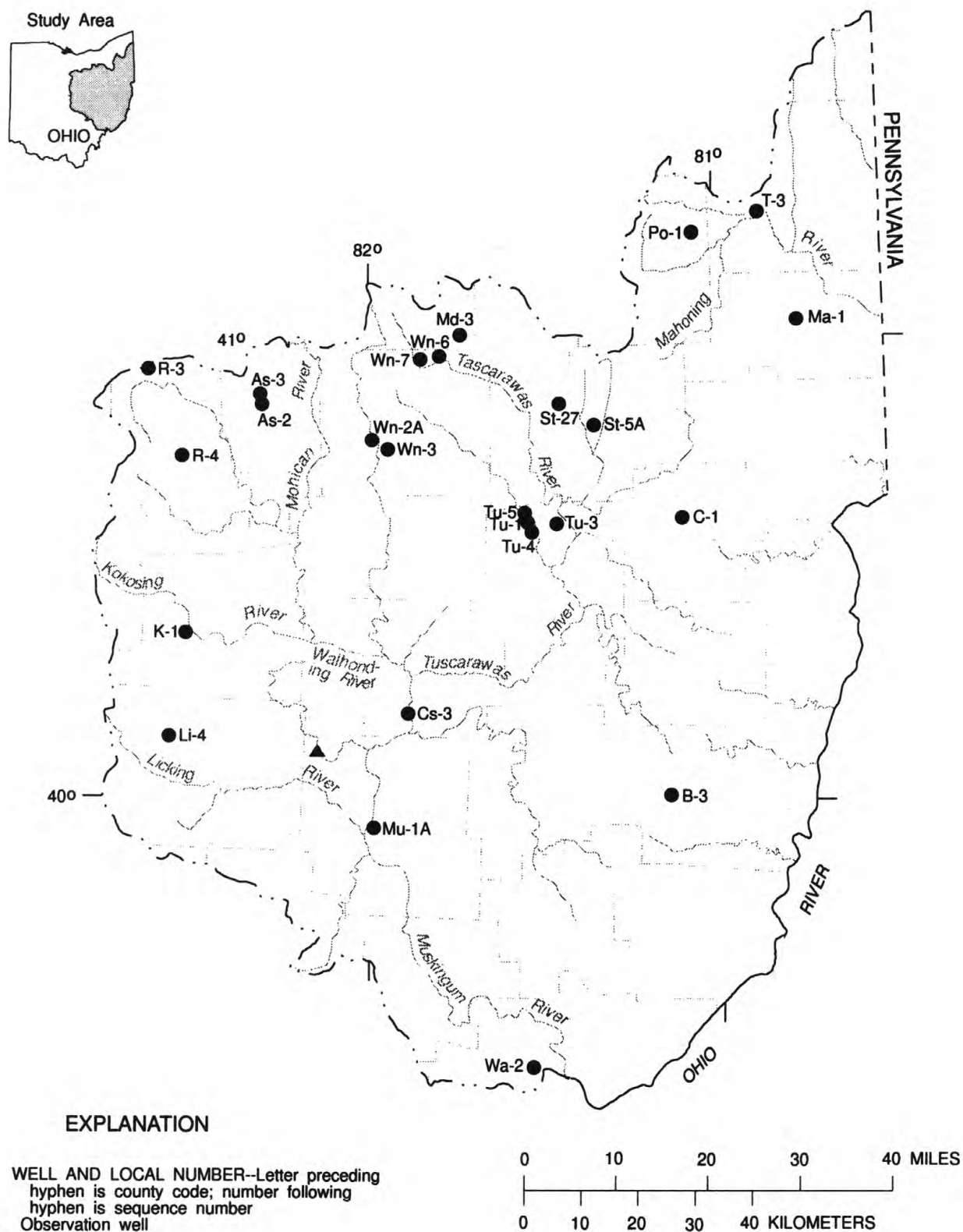


Figure 9d. Location of wells.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

The U.S. Geological Survey publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S. Geological Survey, Branch of Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be sent by check or money order payable to the U.S. Geological Survey. Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations."

- 1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.
- 1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.
- 2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.
- 2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F. P. Haeni: USGS--TWRI Book 2, Chapter D2. 1988. 86 pages.
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BEAVER RIVER BASIN

39

03091500 MAHONING RIVER AT PRICETOWN, OH

LOCATION.--Lat 41°07'53", long 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, 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 above sea level. Prior to Aug. 14, 1929, nonrecording gage at same site and datum.

REMARKS.--No estimated daily discharges. 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 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 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	393	119	89	1290	781	442	406	120	551	190	172
2	156	394	118	73	1290	779	175	805	120	420	187	172
3	125	393	118	54	1340	782	130	1080	122	283	187	165
4	108	393	118	33	1360	781	131	1270	124	281	190	160
5	123	393	105	25	1360	512	73	1320	125	257	187	160
6	127	231	97	25	1180	304	35	1350	128	231	185	161
7	125	105	97	26	634	546	35	1350	130	231	185	165
8	124	105	99	26	494	782	35	1210	129	231	185	162
9	124	105	98	26	570	784	34	948	129	231	185	160
10	137	105	103	26	621	781	33	949	206	231	185	170
11	146	108	142	26	404	776	34	975	278	219	185	177
12	146	107	95	26	229	770	32	1480	450	209	185	179
13	146	152	91	26	228	767	31	2170	570	206	185	191
14	147	182	91	26	228	500	31	2430	738	206	185	198
15	144	230	91	26	197	292	32	2270	838	209	185	198
16	328	347	91	26	177	294	33	2240	836	206	185	198
17	476	399	91	31	177	295	32	2240	895	206	185	198
18	511	397	91	42	177	295	33	2230	933	206	185	221
19	533	397	91	28	177	301	33	2220	729	206	185	231
20	526	397	91	18	151	230	34	2200	883	206	184	244
21	523	328	91	121	129	175	33	2190	1050	206	179	258
22	523	281	90	422	187	470	34	2180	1040	206	172	261
23	523	281	91	438	332	686	38	1780	922	206	174	277
24	523	281	91	245	415	686	33	1310	708	206	175	283
25	523	281	91	484	416	687	107	793	723	199	175	300
26	523	280	91	606	418	685	167	408	913	195	175	309
27	395	229	91	538	427	687	167	292	880	195	175	313
28	312	143	91	859	429	690	167	292	859	195	173	332
29	312	120	89	1160	642	691	174	291	859	195	172	478
30	361	120	89	1280	---	698	175	219	670	195	172	576
31	393	---	89	1280	---	702	---	141	---	192	172	---
TOTAL	9316	7677	3031	8111	15679	18209	2543	41039	17107	7216	5629	7069
MEAN	301	256	97.8	262	541	587	84.8	1324	570	233	182	236
MAX	533	399	142	1280	1360	784	442	2430	1050	551	190	576
MIN	108	105	89	18	129	175	31	141	120	192	172	160

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1996, BY WATER YEAR (WY)

MEAN	228	232	265	271	319	370	290	280	269	234	253	265
MAX	855	891	895	1059	1211	1098	867	1324	983	582	904	1134
(WY)	1991	1986	1986	1991	1959	1956	1994	1996	1947	1990	1958	1975
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 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1942 - 1996
ANNUAL TOTAL	75548	142626	
ANNUAL MEAN	207	390	273
HIGHEST ANNUAL MEAN			490
LOWEST ANNUAL MEAN			131
HIGHEST DAILY MEAN	1060	May 22	3370
LOWEST DAILY MEAN	21	Apr 19	18
ANNUAL SEVEN-DAY MINIMUM	29	Apr 19	26
INSTANTANEOUS PEAK FLOW			2530
INSTANTANEOUS PEAK STAGE			7.95
INSTANTANEOUS LOW FLOW			18
10 PERCENT EXCEEDS	397	900	654
50 PERCENT EXCEEDS	186	206	176
90 PERCENT EXCEEDS	58	50	60

BEAVER RIVER BASIN

03093000 EAGLE CREEK AT PHALANX STATION, OH

LOCATION.--Lat 41°15'40", long 80°57'16", Trumbull County, Hydrologic Unit 05030103, on right bank 75 ft downstream from county road bridge, 1 mi north of Phalanx Station, 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, to Sept. 30, 1977, at same site and datum 0.28 ft higher.

REMARKS.--Records good, except estimated records, which are fair. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	29	47	e30	e76	218	88	1310	30	24	25	15
2	12	37	49	e50	e56	177	150	601	29	23	23	14
3	13	63	46	70	e48	142	119	309	41	23	19	14
4	44	56	46	86	e43	123	97	254	46	23	17	14
5	35	37	46	79	e40	198	89	211	83	21	17	14
6	246	30	45	e60	e37	1060	80	170	51	20	16	14
7	98	34	41	e52	e35	546	72	135	170	19	16	141
8	32	105	38	e47	e45	257	67	116	313	19	17	215
9	23	72	34	e42	131	e160	64	106	128	18	223	57
10	19	62	e31	e39	120	e110	65	122	70	18	48	42
11	17	221	e30	e36	128	e96	63	1060	56	17	25	31
12	15	624	e28	e34	102	e90	60	2700	271	17	20	30
13	14	333	e26	e32	77	e110	60	602	280	17	19	78
14	18	127	e31	e30	e58	133	82	196	262	17	18	39
15	32	125	108	e43	e50	148	76	135	169	25	17	31
16	28	161	104	e70	e45	125	482	184	67	33	20	29
17	21	114	69	184	e40	98	390	147	257	37	20	29
18	19	110	57	919	e37	88	163	185	315	31	17	44
19	19	245	45	3470	e33	118	117	117	463	24	16	40
20	19	204	49	e3000	e100	1610	109	82	160	23	16	26
21	21	135	64	e1800	704	1270	122	64	80	19	18	21
22	24	103	e52	e450	945	366	90	56	55	18	24	20
23	24	87	e48	e300	555	219	548	48	44	18	19	35
24	23	77	e45	e350	338	179	2030	43	44	17	45	46
25	22	66	e42	e640	238	148	549	40	93	17	24	29
26	22	60	e40	e450	182	140	214	36	50	17	18	23
27	23	58	e38	e350	327	110	174	36	36	16	17	21
28	25	55	e36	e700	1240	95	130	40	30	16	16	196
29	27	52	e34	e600	668	90	270	38	28	15	16	764
30	30	48	e33	e170	---	83	1240	36	26	17	15	152
31	28	---	e32	121	---	77	---	32	---	30	15	---
TOTAL	1006	3530	1434	14304	6498	8384	7860	9211	3747	649	836	2224
MEAN	32.5	118	46.3	461	224	270	262	297	125	20.9	27.0	74.1
MAX	246	624	108	3470	1240	1610	2030	2700	463	37	223	764
MIN	12	29	26	30	33	77	60	32	26	15	15	14
CFSM	.33	1.21	.47	4.73	2.30	2.77	2.68	3.04	1.28	.21	.28	.76
IN.	.38	1.35	.55	5.45	2.48	3.20	3.00	3.51	1.43	.25	.32	.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

	MEAN	45.5	85.1	137	163	201	239	196	121	69.9	49.9	31.3	40.9
MAX	338	458	511	547	469	436	550	359	330	232	172	409	
(WY)	1927	1986	1991	1952	1981	1963	1957	1984	1989	1958	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 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1926 - 1996

ANNUAL TOTAL	32861	59683	
ANNUAL MEAN	90.0	163	114
HIGHEST ANNUAL MEAN			170
LOWEST ANNUAL MEAN			34.3
HIGHEST DAILY MEAN	1950	Jan 16	5500
LOWEST DAILY MEAN	12	Sep 3	.90
ANNUAL SEVEN-DAY MINIMUM	12	Sep 2	4.1
INSTANTANEOUS PEAK FLOW			8150
INSTANTANEOUS PEAK STAGE			13.71
INSTANTANEOUS LOW FLOW			.90
ANNUAL RUNOFF (CFSM)	.92	1.67	1.17
ANNUAL RUNOFF (INCHES)	12.52	22.75	15.89
10 PERCENT EXCEEDS	193	334	262
50 PERCENT EXCEEDS	45	50	44
90 PERCENT EXCEEDS	16	17	13

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

BEAVER RIVER BASIN

41

03094000 MAHONING RIVER AT LEAVITTSBURG, OH

LOCATION.--Lat 41°14'21", long 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, 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 above sea level. Prior to July 2, 1941, nonrecording gage, and July 2, 1941, to July 22, 1952, water-stage recorder, at site 50 ft downstream at same datum.

REMARKS.--Records excellent, except for estimated record, which is fair. 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 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 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	240	472	246	247	e1700	e1500	828	2810	396	638	338	286
2	243	487	242	280	e1700	e1300	598	2030	377	586	328	296
3	252	513	240	274	e1600	e1250	444	1950	397	389	317	300
4	265	521	236	302	e1500	e1200	379	2000	389	355	313	291
5	321	500	232	309	e1300	e1300	342	2090	403	346	309	291
6	502	465	209	259	e1000	2310	235	2050	378	339	301	282
7	550	280	203	244	e820	e1800	205	1890	466	344	300	520
8	406	323	196	238	e640	e1400	191	1790	1190	344	313	674
9	370	330	193	238	e600	e1200	196	1330	770	342	453	433
10	358	305	165	233	852	e1000	194	1290	477	337	401	375
11	367	419	175	216	833	e920	208	3400	544	333	314	361
12	363	839	177	e210	532	e880	206	6820	934	329	300	401
13	358	799	178	e210	475	e820	205	4100	1260	332	293	460
14	383	554	199	e210	425	963	218	3000	1490	335	288	413
15	411	601	257	e220	398	630	263	2840	1490	369	296	383
16	383	778	317	e240	317	580	830	2790	1110	374	299	373
17	523	783	263	e400	292	526	945	2780	1420	374	303	378
18	534	762	243	2140	292	494	528	2900	1590	368	298	398
19	557	949	234	5540	281	561	393	2890	2100	340	294	425
20	577	936	226	e3500	495	3540	353	2810	1420	329	293	397
21	601	789	268	e1700	1360	3400	338	2750	1320	335	325	409
22	576	652	260	e1300	1380	1350	308	2740	1250	335	321	415
23	573	603	252	e1100	1340	1310	1010	2650	1190	331	376	457
24	565	583	247	1170	1350	1210	3250	2220	1080	329	416	501
25	561	566	248	1530	1200	1130	1570	1570	1040	332	340	468
26	561	532	250	1400	1070	1070	805	1080	1150	335	311	472
27	543	516	247	1570	1380	963	734	820	1140	337	300	455
28	403	417	250	2030	3000	890	674	805	1000	333	295	992
29	388	328	242	1890	2230	874	1020	799	933	331	291	1860
30	397	267	231	e1700	---	859	3190	763	864	345	289	1220
31	465	---	237	e1800	---	848	---	534	---	354	287	---
TOTAL	13596	16869	7163	32700	30362	38078	20660	70291	29568	11200	9902	14986
MEAN	439	562	231	1055	1047	1228	689	2267	986	361	319	500
MAX	601	949	317	5540	3000	3540	3250	6820	2100	638	453	1860
MIN	240	267	165	210	281	494	191	534	377	329	287	282

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

MEAN	370	467	653	734	845	1018	829	635	488	388	364	395
MAX	1575	2077	2010	2595	2313	2132	2219	2267	2116	1103	1190	1705
(WY)	1991	1986	1978	1952	1959	1955	1957	1996	1989	1958	1958	1975
MIN	128	111	116	125	114	212	217	118	125	152	157	114
(WY)	1963	1964	1964	1961	1963	1969	1946	1941	1941	1941	1942	1942

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	159652		295375			
ANNUAL MEAN	437		807		598	
HIGHEST ANNUAL MEAN					981	
LOWEST ANNUAL MEAN					327	
HIGHEST DAILY MEAN	2920		Jan 16		15500	
LOWEST DAILY MEAN	142		Jan 10		60	
ANNUAL SEVEN-DAY MINIMUM	145		Jan 5		73	
INSTANTANEOUS PEAK FLOW			7380		9300	
INSTANTANEOUS PEAK STAGE			14.06		15.91	
INSTANTANEOUS LOW FLOW			147		106	
10 PERCENT EXCEEDS	881		1800		1400	
50 PERCENT EXCEEDS	329		458		329	
90 PERCENT EXCEEDS	206		242		172	

BEAVER RIVER BASIN

03097550 MAHONING RIVER AT OHIO EDISON POWER PLANT AT NILES, OH

LOCATION.---Lat 41°10'21", long 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.

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. 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 Corp of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	315	503	314	371	2620	2320	1210	4780	518	951	514	407
2	311	545	306	434	2550	1980	1060	3350	483	873	468	423
3	377	582	308	420	2450	1820	857	2970	541	666	460	437
4	444	567	308	425	2310	1600	658	2940	588	512	449	418
5	473	534	310	458	2240	1750	554	3110	559	507	436	406
6	705	501	297	397	1920	3500	420	3080	516	510	434	422
7	734	452	283	357	1380	2900	332	2940	663	515	433	973
8	526	386	282	343	958	1740	305	2800	1500	502	474	976
9	448	431	274	350	876	1490	299	2420	1320	496	569	715
10	424	372	238	344	1010	1330	296	2200	822	489	653	570
11	414	541	223	334	1080	1290	297	5380	841	489	482	483
12	407	1140	249	339	805	1240	295	9120	1280	500	467	558
13	399	1140	265	342	604	1230	297	6630	1630	520	432	610
14	541	755	317	354	594	1260	301	3830	2140	542	406	559
15	525	824	360	380	570	1030	371	3590	2210	698	436	511
16	466	1000	423	375	503	915	1280	3540	1500	628	453	475
17	528	979	395	863	432	823	1630	3490	2200	642	464	512
18	596	977	367	2420	427	752	1040	3680	2330	574	453	575
19	616	1180	358	5610	425	922	790	3670	4250	518	444	548
20	712	1240	328	6580	898	5690	611	3500	2510	499	449	506
21	930	1040	392	2640	2250	5950	550	3330	1700	498	531	480
22	721	829	390	1130	2330	2590	510	3170	1620	482	485	505
23	651	726	379	1440	2090	1860	1560	2970	1510	494	581	548
24	625	680	369	1890	2080	1880	4580	2460	1680	490	654	567
25	613	656	366	2220	1900	1830	3060	1880	1960	505	492	531
26	608	617	367	2060	1620	1710	1490	1320	1660	507	424	527
27	604	581	362	2600	2080	1510	1270	966	1490	519	407	527
28	497	525	368	3060	4150	1280	1140	911	1330	513	410	1520
29	424	416	362	2630	3620	1200	1900	901	1230	505	414	2450
30	418	345	348	2550	---	1170	4800	884	1190	541	413	1710
31	472	---	357	2660	---	1140	---	705	---	543	410	---
TOTAL	16524	21064	10265	46376	46772	57702	33763	96517	43771	17228	14597	20449
MEAN	533	702	331	1496	1613	1861	1125	3113	1459	556	471	682
MAX	930	1240	423	6580	4150	5950	4800	9120	4250	951	654	2450
MIN	311	345	223	334	425	752	295	705	483	482	406	406
MED	525	599	348	458	1620	1510	724	3080	1490	512	453	529
CFSM	.62	.82	.39	1.75	1.89	2.18	1.32	3.65	1.71	.65	.55	.80
IN.	.72	.92	.45	2.02	2.04	2.51	1.47	4.20	1.91	.75	.64	.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

	MEAN	640	787	872	1301	1235	1251	1048	955	963	688	594	659
MAX	2074	1935	2428	3088	2853	2881	2946	3113	3117	1403	1147	1652	
(WY)	1991	1993	1991	1993	1990	1993	1994	1996	1989	1990	1992	1990	
MIN	247	211	272	268	333	493	540	293	293	370	407	326	
(WY)	1989	1992	1992	1992	1992	1990	1988	1992	1992	1988	1988	1994	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1988 - 1996	
ANNUAL TOTAL	223247		425028			
ANNUAL MEAN	612		1161		914	
HIGHEST ANNUAL MEAN					1213	
LOWEST ANNUAL MEAN					546	
HIGHEST DAILY MEAN	3380	Jan 16	9120	May 12	9120	May 12 1996
LOWEST DAILY MEAN	205	Jan 10	223	Dec 11	183	Feb 9 1992
ANNUAL SEVEN-DAY MINIMUM	220	Jan 5	259	Dec 7	196	Feb 5 1992
INSTANTANEOUS PEAK FLOW			9290	May 12	9760	Apr 13 1994
INSTANTANEOUS PEAK STAGE			12.82	May 12	13.35	Apr 13 1994
INSTANTANEOUS LOW FLOW			203	Dec 11	183	Feb 9 1992
ANNUAL RUNOFF (CFSM)	.72		1.36		1.07	
ANNUAL RUNOFF (INCHES)	9.72		18.51		14.55	
10 PERCENT EXCEEDS	1200		2630		2210	
50 PERCENT EXCEEDS	448		595		500	
90 PERCENT EXCEEDS	312		358		296	

BEAVER RIVER BASIN

43

03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH

LOCATION.--Lat 41°06'18", long 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.

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. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	285	548	344	404	2740	2580	1330	6260	514	984	614	460
2	284	615	324	488	2690	2140	1200	4280	448	881	545	469
3	364	655	323	481	2470	1960	947	3480	484	727	524	491
4	510	623	318	469	2320	1690	755	3350	618	546	513	477
5	551	589	315	490	2170	2090	643	3560	639	519	507	449
6	806	560	311	426	2000	4520	514	3510	571	526	501	477
7	724	573	281	383	1450	3570	403	3260	772	540	498	1410
8	531	497	275	369	1010	1990	362	3070	1680	549	532	1080
9	446	525	269	372	962	1610	347	2700	1460	537	614	897
10	418	466	e250	372	1040	1410	351	2710	859	525	707	701
11	409	751	e240	348	1150	1380	342	7740	880	525	525	543
12	413	1230	e260	357	901	1340	345	11100	1340	539	535	608
13	405	1160	e290	359	669	1350	343	8270	1670	563	514	690
14	586	827	339	372	656	1410	354	4550	2230	596	469	607
15	562	951	402	430	621	1190	474	4130	2430	852	505	542
16	481	1050	450	439	565	1030	1860	4060	1580	724	530	510
17	500	991	425	1250	493	909	2020	4000	2240	845	505	560
18	575	1020	398	3460	487	835	1230	4190	2730	730	502	625
19	589	1220	422	8970	478	1450	917	4130	5940	636	494	590
20	765	1260	345	8350	1430	8350	720	3860	3130	572	497	544
21	1020	1040	425	3530	2920	7730	646	3770	1860	549	725	498
22	733	841	417	1370	2830	3360	589	3450	1700	551	566	550
23	650	737	405	1590	2400	2190	2060	3150	1550	562	631	647
24	630	688	396	2550	2350	2130	5610	2600	2330	556	759	626
25	616	657	392	2710	2110	2030	3710	1950	2550	568	564	586
26	611	624	392	2370	1790	1890	1730	1350	1810	573	490	556
27	610	600	389	3340	2560	1620	1390	976	1570	573	466	557
28	532	556	392	3690	5130	1360	1230	900	1390	563	470	1950
29	458	455	384	2970	4320	1260	2640	888	1260	561	471	2790
30	455	370	363	2770	---	1220	6490	859	1220	636	465	1930
31	503	---	379	2850	---	1190	---	702	---	631	462	---
TOTAL	17022	22679	10915	58329	52712	68784	41552	112805	49455	19239	16700	23420
MEAN	549	756	352	1882	1818	2219	1385	3639	1648	621	539	781
MAX	1020	1260	450	8970	5130	8350	6490	11100	5940	984	759	2790
MIN	284	370	240	348	478	835	342	702	448	519	462	449

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1996, BY WATER YEAR (WY)

MEAN	706	873	997	1517	1418	1470	1269	1120	1143	820	653	751
MAX	2303	2117	2967	3608	3323	3456	3502	3639	3693	1932	1316	1881
(WY)	1991	1993	1991	1993	1990	1993	1994	1996	1989	1990	1992	1990
MIN	264	222	312	302	432	596	684	437	377	430	419	346
(WY)	1992	1992	1992	1992	1992	1990	1995	1992	1988	1988	1991	1991

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1988 - 1996

ANNUAL TOTAL	245300	493612	
ANNUAL MEAN	672	1349	1059
HIGHEST ANNUAL MEAN			1402
LOWEST ANNUAL MEAN			643
HIGHEST DAILY MEAN	3930	11100	11400
LOWEST DAILY MEAN	240	240	181
ANNUAL SEVEN-DAY MINIMUM	266	266	202
INSTANTANEOUS PEAK FLOW		11400	11900
INSTANTANEOUS PEAK STAGE		14.90	15.44
INSTANTANEOUS LOW FLOW		240	181
10 PERCENT EXCEEDS	1280	3180	2450
50 PERCENT EXCEEDS	480	646	572
90 PERCENT EXCEEDS	340	384	347

BEAVER RIVER BASIN

03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH--Continued

WATER-QUALITY RECORDS

LOCATION.--Lat 41°06'18", long 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.

DRAINAGE AREA.--978 mi².

PERIOD OF RECORD.--June 1992 to current year.

PERIOD OF DAILY RECORD--

SPECIFIC CONDUCTANCE: July 1992 to current year.

pH: July 1992 to current year.

WATER TEMPERATURES: June 1992 to current year.

DISSOLVED OXYGEN: July 1992 to current year.

INSTRUMENTATION: Data Collection Platform. Set for 1-hour interval.

REMARKS.--Interruptions in the water-quality were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 950 microsiemens Jan. 17, 1996; minimum, 189 microsiemens Aug. 1, 1992.

pH: Maximum, 8.8 units May 14, 23, 31, 1994; minimum, 7.0 units Apr. 15, 1994.

WATER TEMPERATURES: Maximum, 32.5°C Jul. 10, 1993 and Jul. 15, 1995; minimum, 1.0°C on several days during winter.

DISSOLVED OXYGEN: Maximum, 14.5 mg/L Apr. 18, 1996; minimum, 4.7 mg/L Jul. 16, 1995.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 950 microsiemens Jan. 17; minimum, 211 microsiemens May 13.

pH: Maximum, 8.5 units Mar. 11; minimum, 7.1 units Feb. 13.

WATER TEMPERATURES: Maximum, 30.5°C Aug. 7, 8; minimum, 0.5°C Jan. 20.

DISSOLVED OXYGEN: Maximum, 14.5 mg/L Apr. 18; minimum, 5.1 mg/L Jul. 20 and Aug. 10, 17.

BEAVER RIVER BASIN

45

03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	560	544	553	561	533	545	611	580	591	733	709	716
2	560	538	548	545	526	535	593	584	589	769	732	756
3	562	510	542	543	530	536	607	591	597	802	755	779
4	543	511	530	544	522	538	611	593	603	803	785	794
5	553	463	516	543	519	524	610	587	597	803	767	786
6	504	438	485	554	526	539	612	601	606	767	742	752
7	493	433	470	554	521	538	636	612	626	754	741	746
8	522	475	506	591	535	544	651	636	644	752	742	747
9	486	460	470	598	536	571	652	641	646	743	724	737
10	505	476	497	621	580	603	665	299	629	725	711	720
11	530	494	513	625	579	605	664	624	644	724	704	716
12	525	509	516	599	539	564	638	627	631	724	681	700
13	523	509	517	540	489	518	671	636	658	704	687	695
14	515	503	510	489	451	464	793	666	726	727	679	694
15	506	474	495	549	471	527	793	714	745	764	698	736
16	522	476	487	553	521	538	844	715	778	851	739	784
17	533	499	511	524	505	515	742	660	697	950	772	868
18	526	507	517	540	506	522	681	640	656	793	557	716
19	525	515	520	553	516	536	699	657	679	568	343	440
20	523	473	511	527	487	509	670	647	658	343	253	280
21	496	461	479	493	486	489	680	634	654	357	265	318
22	492	468	484	500	484	492	677	641	663	402	350	374
23	522	491	506	505	491	498	672	640	659	476	398	425
24	520	508	513	516	491	499	681	668	674	522	476	511
25	526	516	519	524	495	506	689	670	684	502	427	461
26	535	517	525	519	496	505	699	688	692	427	378	398
27	539	523	530	514	499	507	710	689	697	490	410	469
28	544	522	529	520	505	510	710	696	703	477	412	444
29	547	521	538	554	520	530	716	699	706	445	397	414
30	546	532	541	583	554	566	711	681	696	473	445	462
31	553	538	547	---	---	---	720	709	714	477	450	466
MONTH	562	433	514	625	451	529	844	299	663	950	253	610

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	490	477	484	391	327	358	454	425	438	302	261	277
2	497	485	490	415	391	404	459	453	457	321	274	293
3	501	490	494	452	390	406	469	460	463	341	321	331
4	504	494	501	420	404	410	482	469	474	361	341	350
5	510	492	500	482	413	439	518	481	506	362	358	360
6	502	473	489	482	402	445	547	517	528	370	360	363
7	507	490	501	402	345	362	574	547	563	367	363	365
8	541	490	510	411	348	379	611	574	589	371	361	365
9	563	539	546	465	408	443	623	602	611	372	364	367
10	555	534	544	568	448	499	624	601	610	384	368	374
11	543	533	537	---	---	---	625	584	609	386	303	345
12	540	522	532	---	---	---	616	583	600	303	214	255
13	554	522	536	---	---	---	647	616	628	312	211	248
14	566	534	543	---	---	---	647	621	633	358	312	339
15	590	547	559	647	598	609	636	607	624	362	357	359
16	611	590	603	619	581	611	607	492	528	361	355	358
17	607	589	597	619	504	580	492	423	455	367	359	362
18	599	590	595	505	460	478	432	415	421	367	344	358
19	599	562	578	564	431	489	456	429	438	356	340	353
20	636	542	581	446	374	416	479	456	466	362	344	357
21	594	439	513	374	293	314	484	463	477	372	359	365
22	442	404	425	362	312	344	485	477	480	382	369	373
23	404	371	384	376	350	362	510	409	473	387	373	377
24	408	374	385	403	376	393	410	279	358	388	376	380
25	432	401	415	413	394	399	297	260	273	393	387	390
26	506	432	468	431	406	414	356	297	324	408	390	396
27	532	420	483	415	404	409	385	356	374	417	398	407
28	435	334	400	424	415	419	400	385	394	423	415	419
29	334	311	318	429	419	424	407	365	391	429	414	421
30	---	---	---	440	404	426	390	302	350	425	419	422
31	---	---	---	443	405	431	---	---	---	431	418	424
MONTH	636	311	500	647	293	432	647	260	484	431	211	360

BEAVER RIVER BASIN

03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	460	431	445	384	372	377	419	387	396	447	441	443
2	478	455	464	386	379	382	423	397	413	446	439	443
3	486	475	482	400	386	393	418	409	412	446	423	434
4	547	486	528	424	397	411	417	411	415	437	423	433
5	567	530	545	435	424	428	424	415	419	455	433	442
6	534	485	509	431	419	424	426	411	417	449	421	444
7	519	486	497	428	416	421	424	411	418	451	383	420
8	515	434	464	430	413	419	437	413	427	430	379	400
9	434	400	408	433	415	421	445	413	423	444	411	433
10	420	403	413	427	419	421	441	402	411	443	405	422
11	417	397	407	458	427	438	430	407	419	466	436	449
12	441	405	420	446	429	436	425	392	407	493	466	481
13	423	376	402	430	420	424	427	412	421	496	434	470
14	418	356	372	439	420	423	448	415	426	470	436	450
15	361	317	336	440	400	421	440	417	432	480	469	475
16	355	321	338	414	381	395	455	419	442	478	456	466
17	375	355	367	456	385	425	431	416	425	494	463	470
18	368	300	338	468	433	452	431	418	424	494	458	473
19	---	---	---	447	440	443	428	411	416	476	449	459
20	---	---	---	457	440	449	431	413	420	490	458	476
21	---	---	---	440	420	431	476	413	447	493	468	479
22	---	---	---	430	420	427	443	421	434	490	471	481
23	---	---	---	427	412	417	435	423	427	496	469	481
24	---	---	---	434	407	418	442	385	423	487	462	472
25	366	359	361	429	408	414	442	397	425	482	467	473
26	369	364	367	429	405	411	441	433	437	487	475	479
27	376	365	368	421	404	410	454	441	447	492	482	486
28	380	367	370	411	399	405	477	449	463	483	354	434
29	380	366	371	404	393	399	467	442	459	378	331	357
30	385	368	375	402	389	396	444	434	440	331	300	308
31	---	---	---	419	394	401	456	441	449	---	---	---
MONTH	567	300	414	468	372	417	477	385	427	496	300	448
YEAR	950	211	485									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	7.8	7.9	8.1	7.8	8.0	8.4	8.3	8.3	8.2	8.1	8.2
2	8.0	7.8	7.9	8.2	8.0	8.1	8.4	8.2	8.3	8.2	8.1	8.2
3	7.9	7.6	7.7	8.1	7.7	7.9	8.3	8.2	8.2	8.2	8.1	8.2
4	7.8	7.8	7.8	7.7	7.6	7.7	8.3	8.2	8.2	8.2	8.2	8.2
5	7.9	7.6	7.8	7.9	7.6	7.7	8.3	8.2	8.2	8.2	8.1	8.2
6	8.0	7.8	7.9	8.1	7.6	7.8	8.4	8.2	8.3	8.2	8.1	8.1
7	7.9	7.8	7.8	7.9	7.8	7.9	8.4	8.3	8.3	8.1	8.1	8.1
8	8.0	7.8	7.9	7.9	7.6	7.8	8.4	8.3	8.3	8.2	8.1	8.1
9	7.9	7.7	7.8	7.9	7.6	7.7	8.4	8.3	8.3	8.2	8.0	8.1
10	8.1	7.7	7.9	8.2	7.7	7.9	8.4	8.3	8.3	8.2	8.0	8.1
11	8.1	7.8	7.9	8.2	7.8	8.1	8.4	8.2	8.3	8.1	8.0	8.0
12	8.2	7.9	8.0	7.8	7.6	7.7	8.4	8.1	8.3	8.2	8.0	8.0
13	8.1	7.9	8.0	7.8	7.8	7.8	8.3	8.3	8.3	8.1	8.0	8.0
14	8.0	7.9	7.9	7.8	7.6	7.7	8.3	8.2	8.2	8.3	8.0	8.1
15	7.9	7.7	7.8	7.8	7.6	7.7	8.3	8.2	8.2	8.3	8.0	8.1
16	7.9	7.6	7.8	7.9	7.6	7.8	8.2	8.2	8.2	8.2	8.0	8.1
17	8.0	7.7	7.8	8.2	7.8	8.0	8.3	8.2	8.2	8.2	8.0	8.1
18	8.1	7.8	7.9	8.1	7.9	8.0	8.3	8.2	8.2	8.0	8.0	8.0
19	8.2	7.9	8.0	8.1	7.9	8.0	8.3	8.2	8.2	8.1	7.5	7.8
20	8.2	7.9	8.0	8.3	7.9	8.1	8.3	8.2	8.2	7.5	7.3	7.4
21	8.0	7.7	7.8	8.1	7.9	8.0	8.2	8.1	8.2	7.8	7.4	7.6
22	8.1	7.7	7.8	8.0	7.8	7.9	8.2	8.1	8.2	7.9	7.6	7.8
23	8.2	7.8	8.0	8.1	7.9	8.0	8.3	8.2	8.2	8.0	7.8	7.9
24	8.2	7.9	8.0	8.4	7.9	8.1	8.2	8.2	8.2	8.2	7.9	8.1
25	8.1	7.8	7.9	8.3	7.9	8.1	8.2	8.2	8.2	8.1	7.8	7.9
26	8.1	7.8	7.9	8.4	8.0	8.2	8.3	8.2	8.2	7.9	7.8	7.9
27	8.1	7.9	8.0	8.4	8.2	8.3	8.3	8.2	8.2	8.2	7.9	8.0
28	8.0	7.9	7.9	8.4	8.0	8.2	8.2	8.2	8.2	8.1	7.8	7.9
29	8.0	7.8	7.8	8.0	7.8	7.9	8.3	8.2	8.2	8.0	7.8	7.9
30	7.9	7.7	7.8	8.4	7.7	8.0	8.2	8.2	8.2	8.1	7.8	7.9
31	7.8	7.8	7.8	---	---	---	8.2	8.1	8.2	7.9	7.5	7.7
MONTH	8.2	7.6	7.9	8.4	7.6	7.9	8.4	8.1	8.2	8.3	7.3	8.0

BEAVER RIVER BASIN

03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	24.5	23.0	23.5	16.5	15.5	16.0	11.0	9.5	10.5	8.0	7.5	8.0
2	26.0	24.0	25.0	17.0	16.0	16.5	11.5	10.5	11.0	8.5	6.5	7.5
3	24.0	22.5	23.5	17.5	16.0	17.0	11.5	10.5	11.0	6.5	5.5	6.0
4	24.0	21.5	23.0	16.0	13.5	15.0	12.0	11.0	11.5	5.5	4.5	5.0
5	21.5	20.0	20.5	13.5	12.5	13.0	11.0	9.0	10.0	6.0	5.0	5.5
6	20.0	19.0	19.5	12.5	12.0	12.0	9.0	8.0	8.5	5.0	4.0	4.5
7	19.5	18.0	19.0	12.0	11.5	12.0	8.0	7.0	7.5	4.5	3.5	4.0
8	18.0	16.5	17.5	11.5	11.0	11.0	7.5	7.0	7.5	5.0	3.5	4.5
9	18.0	15.5	17.0	12.5	11.0	11.5	7.5	5.5	7.0	5.5	5.0	5.0
10	18.5	17.0	17.5	12.0	11.0	11.5	---	---	---	5.0	4.5	5.0
11	19.5	17.5	18.5	13.0	11.5	12.0	---	---	---	5.0	4.0	4.5
12	19.5	18.0	18.5	12.0	8.5	10.5	4.5	3.0	4.0	6.0	5.0	5.5
13	21.5	18.5	20.0	8.5	7.5	8.0	8.0	4.5	7.5	6.5	6.0	6.5
14	22.0	20.5	21.0	8.0	8.0	8.0	10.0	8.0	9.5	6.5	5.0	6.0
15	20.5	18.0	19.0	9.0	8.0	8.5	10.5	9.5	10.0	5.5	4.5	5.0
16	18.0	17.0	17.5	8.5	7.5	8.0	10.0	8.0	9.0	7.0	4.0	5.5
17	18.0	16.5	17.0	7.5	6.0	7.0	8.0	6.5	7.5	7.5	5.0	7.0
18	18.0	17.0	17.5	6.5	5.5	6.0	7.0	6.5	7.0	5.0	2.5	3.5
19	18.5	17.0	18.0	6.5	6.5	6.5	7.5	5.5	6.5	3.0	1.0	2.0
20	19.0	18.0	18.5	6.5	6.0	6.0	6.0	5.0	5.5	1.0	.5	.5
21	18.0	17.0	17.5	6.0	5.5	6.0	7.5	5.0	6.5	2.5	1.0	1.5
22	17.0	16.0	16.5	7.0	5.5	6.5	7.0	6.0	6.0	5.5	2.5	4.0
23	17.5	15.5	16.5	7.5	6.0	7.0	7.0	6.0	6.5	6.0	5.5	5.5
24	17.0	17.0	17.0	6.0	5.5	6.0	7.0	6.5	6.5	6.0	3.0	3.5
25	17.0	16.5	17.0	5.5	5.0	5.5	6.5	6.0	6.5	3.0	1.5	2.0
26	16.5	16.0	16.5	6.0	5.0	5.5	6.0	5.5	6.0	2.5	1.5	2.0
27	16.5	16.0	16.0	9.0	6.0	7.5	6.0	5.0	5.5	3.0	2.5	3.0
28	16.0	16.0	16.0	9.0	8.5	9.0	6.5	6.0	6.5	2.5	2.0	2.0
29	16.0	15.0	15.5	9.5	8.0	9.0	6.5	6.0	6.5	2.5	2.0	2.0
30	16.0	15.0	15.5	10.0	9.5	9.5	6.5	6.0	6.0	2.5	2.0	2.5
31	16.5	15.5	16.0	---	---	---	8.0	6.0	7.0	2.5	1.5	2.0
MONTH	26.0	15.0	18.5	17.5	5.0	9.5	12.0	3.0	7.5	8.5	.5	4.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	1.0	1.5	4.5	3.0	3.5	10.0	8.5	9.5	12.0	10.5	11.5
2	1.5	1.5	1.5	4.0	3.0	3.5	8.5	7.5	8.5	12.0	10.0	11.0
3	1.5	1.0	1.5	5.0	4.0	4.5	---	---	---	13.5	12.0	12.5
4	1.5	1.0	1.0	---	---	---	12.0	10.5	11.5	13.5	13.0	13.5
5	1.5	1.0	1.0	4.5	4.0	4.0	13.0	11.0	12.0	14.0	13.0	13.5
6	3.5	1.0	2.0	4.5	2.5	3.5	12.0	11.0	11.5	14.0	13.0	13.5
7	6.5	2.5	4.5	2.5	1.5	2.0	12.0	10.5	11.5	14.0	13.0	13.0
8	10.0	6.5	8.5	6.0	1.5	4.0	12.0	11.0	11.5	14.0	12.5	13.0
9	11.0	10.0	10.5	8.5	5.5	7.0	12.0	10.5	11.5	15.0	14.0	14.5
10	13.0	10.5	12.0	---	---	---	13.0	11.0	12.0	17.0	15.0	16.0
11	12.5	9.0	10.5	---	---	---	14.5	12.0	13.0	17.0	13.0	15.5
12	9.0	6.5	8.0	---	---	---	17.0	14.5	16.0	13.0	11.0	12.0
13	8.5	5.0	7.0	---	---	---	17.0	16.5	17.0	11.5	10.5	11.0
14	9.5	7.5	8.5	---	---	---	17.0	14.5	15.5	13.5	11.5	12.5
15	9.0	7.0	8.0	---	---	---	15.0	14.0	14.5	13.5	13.0	13.5
16	10.0	6.0	8.0	---	---	---	14.0	10.5	12.0	14.0	13.0	13.5
17	7.0	3.0	5.0	---	---	---	10.5	9.5	10.0	15.0	14.0	14.5
18	8.5	3.5	5.5	---	---	---	11.5	9.5	10.5	17.0	14.5	15.5
19	6.5	2.5	4.5	9.0	7.5	8.5	14.5	11.5	13.0	18.5	16.5	17.5
20	12.5	5.0	7.5	7.5	4.0	5.0	16.5	13.0	15.0	20.0	18.0	19.0
21	5.0	3.0	3.5	4.0	3.0	3.5	17.5	15.5	16.5	20.0	19.0	19.5
22	4.0	3.5	3.5	3.5	3.0	3.5	18.0	16.5	17.0	19.5	18.5	19.0
23	4.5	3.5	4.0	4.5	3.5	4.0	18.0	12.5	16.5	18.5	17.5	18.5
24	5.0	4.0	4.5	5.5	4.5	5.0	12.5	10.5	11.0	19.0	18.0	18.5
25	6.0	4.5	5.5	7.0	5.5	6.5	12.0	10.5	11.0	18.5	17.5	18.0
26	---	---	---	7.0	6.5	6.5	13.5	12.0	13.0	18.0	16.5	17.5
27	---	---	---	7.0	6.5	6.5	13.5	13.0	13.0	17.0	16.0	17.0
28	6.5	6.0	6.0	7.0	6.5	7.0	13.5	13.0	13.0	16.5	15.5	16.0
29	6.0	4.5	5.0	8.0	7.0	7.5	13.0	12.5	13.0	17.5	15.5	16.5
30	---	---	---	9.5	7.5	8.5	13.0	12.0	13.0	17.5	16.0	16.5
31	---	---	---	10.5	8.5	9.5	---	---	---	19.0	16.0	17.5
MONTH	13.0	1.0	5.5	10.5	1.5	5.5	18.0	7.5	13.0	20.0	10.0	15.0

BEAVER RIVER BASIN

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03098600 MAHONING RIVER BELOW WEST AVENUE AT YOUNGSTOWN, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	20.0	18.0	19.0	26.5	24.5	25.5	25.5	24.0	24.5	28.5	26.5	27.5
2	22.0	19.5	20.5	26.5	25.5	26.0	25.5	24.0	24.5	28.5	26.5	27.5
3	23.5	22.0	22.5	25.5	23.5	25.0	25.5	24.0	24.5	28.5	26.5	27.5
4	22.5	21.0	22.0	25.5	23.0	24.0	25.5	24.0	25.0	29.0	27.0	28.0
5	22.0	20.5	21.5	24.0	21.5	22.5	27.5	24.5	25.5	29.0	27.0	28.0
6	22.0	21.0	21.5	24.0	21.5	22.5	30.0	27.5	28.5	28.5	26.5	28.0
7	22.5	21.0	21.5	24.0	22.5	23.0	30.5	29.0	29.5	26.5	24.0	25.0
8	22.5	20.5	21.5	28.0	23.0	25.0	30.5	28.0	29.5	24.5	23.0	24.0
9	21.5	20.5	20.5	28.5	27.0	27.5	30.0	28.0	29.5	23.5	23.0	23.0
10	24.0	21.5	22.5	27.5	26.0	26.5	28.0	24.0	27.0	25.5	23.5	24.0
11	25.0	23.5	24.0	27.0	25.0	26.0	24.0	22.5	23.0	25.0	23.5	24.5
12	24.0	22.0	23.0	27.5	25.5	26.5	22.5	21.5	22.0	24.5	23.5	24.0
13	22.0	21.0	21.5	28.5	26.5	27.5	24.5	21.5	23.0	25.0	22.5	24.0
14	23.0	21.5	22.0	29.0	26.5	28.0	27.0	23.5	25.0	22.5	20.5	21.5
15	23.0	21.5	22.0	28.0	26.0	27.0	29.0	26.5	27.5	20.5	19.5	19.5
16	22.5	22.0	22.0	26.5	25.5	26.0	28.5	26.5	27.5	19.5	18.0	18.0
17	23.5	22.5	23.0	27.0	26.0	26.5	27.5	25.5	26.5	21.0	18.0	20.0
18	22.5	21.0	21.5	27.0	26.5	26.5	26.5	24.0	25.0	22.5	21.0	21.5
19	---	---	---	27.5	26.5	27.0	27.0	24.0	25.5	22.5	21.0	21.5
20	---	---	---	27.5	25.0	26.0	29.0	26.5	27.5	23.0	21.5	22.0
21	---	---	---	25.5	23.0	24.5	29.0	26.5	27.5	23.5	21.0	22.0
22	---	---	---	24.5	22.5	23.0	29.5	27.0	28.0	21.0	18.5	19.5
23	---	---	---	27.5	24.0	26.0	29.5	28.0	28.5	19.5	18.5	19.0
24	---	---	---	28.0	26.0	26.5	29.0	25.5	27.5	21.5	19.0	21.0
25	23.0	22.5	22.5	28.0	26.0	27.0	26.5	24.5	25.5	21.5	20.5	21.0
26	22.5	22.0	22.5	27.5	26.5	27.0	26.5	24.5	25.5	21.0	20.5	21.0
27	22.5	22.0	22.0	27.5	25.0	26.5	28.5	26.0	27.0	21.0	19.5	20.0
28	23.5	22.5	23.0	25.5	23.5	24.5	29.0	27.0	28.0	20.0	17.0	19.0
29	24.5	23.5	24.0	25.5	24.0	24.5	28.5	27.0	28.0	17.0	16.0	16.5
30	25.5	24.0	25.0	25.5	24.5	25.0	28.0	26.5	27.5	17.0	16.0	16.5
31	---	---	---	25.5	24.5	25.0	28.0	26.0	27.0	---	---	---
MONTH	25.5	18.0	22.0	29.0	21.5	25.5	30.5	21.5	26.5	29.0	16.0	22.5
YEAR	30.5	.5	15.0									

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	6.1	6.6	8.8	7.6	8.2	9.9	9.1	9.6	11.3	10.8	11.0
2	7.0	5.8	6.3	8.4	7.7	8.1	9.9	9.0	9.4	11.2	10.5	10.8
3	6.6	5.6	6.2	7.8	7.4	7.6	9.4	8.8	9.0	11.9	10.9	11.3
4	6.9	6.0	6.5	8.5	7.6	7.9	9.3	8.5	8.9	12.4	11.4	11.7
5	7.3	6.4	6.9	9.6	8.5	9.1	10.2	8.9	9.5	12.3	11.4	11.8
6	7.8	7.2	7.5	9.7	8.7	9.1	10.6	9.5	10.0	12.6	11.7	12.0
7	7.9	7.4	7.6	9.2	8.8	9.1	10.9	10.0	10.4	12.2	11.4	11.7
8	8.2	7.7	8.0	10.3	9.0	10.0	11.0	10.2	10.5	12.4	11.3	11.7
9	8.3	7.7	8.0	10.1	9.5	9.8	11.4	10.3	10.8	11.7	11.0	11.3
10	8.2	7.6	7.9	10.5	9.8	10.1	---	---	---	12.2	11.1	11.5
11	8.1	7.6	7.8	10.1	8.5	9.5	12.7	9.4	11.4	12.0	10.8	11.2
12	8.2	7.6	7.8	10.1	8.9	9.5	12.9	10.7	12.0	11.6	10.5	11.0
13	7.9	7.0	7.5	10.4	10.1	10.3	12.7	10.5	11.4	11.2	10.3	10.7
14	7.1	6.8	7.0	11.1	10.1	10.8	10.7	10.0	10.3	12.5	10.4	11.2
15	7.5	7.0	7.2	11.0	10.7	10.9	10.6	10.0	10.2	12.3	11.1	11.6
16	8.1	7.3	7.6	11.4	10.2	10.6	11.0	10.1	10.5	11.5	10.6	11.2
17	8.2	7.6	7.9	11.9	10.5	11.2	11.7	10.9	11.3	12.0	10.4	11.2
18	8.5	7.6	8.1	12.0	11.8	11.9	11.7	11.2	11.4	12.6	11.9	12.3
19	8.4	7.9	8.1	12.1	11.7	11.9	11.3	10.9	11.1	11.9	10.4	11.1
20	8.5	7.5	7.8	12.1	11.1	11.7	11.7	10.8	11.2	10.6	10.1	10.3
21	7.9	7.5	7.7	12.2	11.9	12.0	11.4	11.0	11.2	10.7	9.7	10.1
22	8.5	7.5	8.0	12.1	11.4	11.8	11.7	11.0	11.4	9.9	8.2	8.8
23	8.7	8.0	8.3	11.5	11.2	11.4	11.8	11.2	11.4	8.6	7.6	8.2
24	8.5	7.6	8.0	12.2	11.3	11.8	11.7	11.1	11.3	11.8	8.2	11.1
25	8.4	7.5	7.9	12.3	11.8	12.0	11.9	11.1	11.4	11.2	10.7	11.0
26	8.7	7.8	8.2	12.1	11.5	11.8	12.1	11.4	11.7	11.1	10.4	10.7
27	8.2	7.8	8.0	11.6	10.4	11.1	12.3	11.5	11.8	10.5	8.7	9.9
28	8.0	7.7	7.8	11.0	10.3	10.6	12.1	11.3	11.6	10.7	9.2	10.0
29	9.0	7.8	8.5	10.7	9.6	10.3	12.3	11.3	11.7	11.9	10.4	11.3
30	9.5	8.8	9.1	10.7	9.5	10.0	12.2	11.4	11.7	13.2	11.9	12.7
31	9.2	7.6	8.7	---	---	---	11.8	10.9	11.4	12.9	12.5	12.7
MONTH	9.5	5.6	7.7	12.3	7.4	10.3	12.9	8.5	10.8	13.2	7.6	11.1

51

LOCATION---Lat 40°40'33", long 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.

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 above sea level. Prior to Sept. 22, 1926, nonrecording gage at same site and datum.

REMARKS.--Records good except for periods of estimated records and Jan. 15 - Mar. 19, which are fair. Water-quality and sediment data collected at this site. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	112	223	e250	583	1170	650	3130	372	263	143	42
2	47	155	215	e300	e530	918	847	2780	351	235	122	41
3	48	365	206	383	e460	767	678	1920	403	262	111	40
4	78	284	206	327	e390	566	607	1540	836	245	99	39
5	112	198	198	e310	e350	e1200	668	1410	735	204	90	38
6	321	154	206	e290	e330	e1800	600	1360	487	182	84	47
7	250	160	191	e280	e320	e1700	549	1120	610	170	81	358
8	142	198	246	e270	e900	1480	508	1170	897	165	82	321
9	102	188	232	e260	1490	e1000	482	1060	775	164	105	196
10	83	161	e210	e250	1240	e800	459	2500	552	155	102	293
11	73	187	e200	e240	1200	e700	435	4760	448	140	81	177
12	66	625	e190	e240	958	e660	406	5550	463	130	75	122
13	63	478	e180	e230	e700	e640	386	2970	447	124	81	152
14	84	402	e240	e230	e570	e730	388	1780	662	124	85	152
15	165	692	421	e225	e450	849	383	1460	642	185	78	113
16	155	671	369	e220	e350	816	1440	1520	404	250	102	102
17	111	475	301	e600	e290	681	1250	2250	329	400	94	118
18	91	429	268	e3500	e270	597	875	2160	373	530	78	132
19	79	532	280	e7500	e260	876	744	1430	2950	340	69	116
20	83	522	243	e4500	e700	6710	738	1090	2010	253	61	94
21	274	452	415	2090	2670	4490	675	992	951	183	64	80
22	258	392	349	1280	1400	2180	566	965	690	157	61	80
23	156	343	e320	1060	1070	1580	953	735	576	146	62	93
24	117	306	e290	e2600	1100	1240	2060	629	498	138	74	126
25	99	274	e270	1890	910	1070	1320	565	958	125	67	115
26	89	259	e250	1330	864	956	1020	502	754	119	61	91
27	85	251	e240	e2200	1260	780	847	504	461	112	53	86
28	95	250	e220	1820	e4200	711	701	690	371	105	49	303
29	100	241	e210	1340	1910	672	1870	582	322	98	47	807
30	92	231	e200	1040	---	614	3740	476	293	119	45	353
31	96	---	e200	807	---	570	---	407	---	157	42	---
TOTAL	3662	9987	7789	37862	27725	39523	26845	50007	20620	5980	2448	4827
MEAN	118	333	251	1221	956	1275	895	1613	687	193	79.0	161
MAX	321	692	421	7500	4200	6710	3740	5550	2950	530	143	807
MIN	47	112	180	220	260	566	383	407	293	98	42	38
CFSM	.24	.67	.51	2.46	1.93	2.57	1.80	3.25	1.39	.39	.16	.32
IN.	.27	.75	.58	2.84	2.08	2.96	2.01	3.75	1.55	.45	.18	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

MEAN	177	323	536	712	866	1131	916	656	387	255	174	145
MAX	1380	2102	2012	3993	1957	2493	2187	1876	1784	1554	1567	1452
(WY)	1955	1986	1991	1937	1956	1945	1940	1929	1989	1990	1980	1926
MIN	25.7	38.2	50.7	63.9	50.7	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 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1916 - 1996

ANNUAL TOTAL	133830		237275			
ANNUAL MEAN	367		648		521	
HIGHEST ANNUAL MEAN					899	1937
LOWEST ANNUAL MEAN					207	1931
HIGHEST DAILY MEAN	2690	Jun 28	7500	Jan 19	18900	Jan 25 1937
LOWEST DAILY MEAN	41	Sep 7	38	Sep 5	12	Aug 22 1918
ANNUAL SEVEN-DAY MINIMUM	43	Sep 5	41	Aug 30	12	Sep 13 1932
INSTANTANEOUS PEAK FLOW			8600	Jan 19 a e	25000	Jul 19 1941
INSTANTANEOUS PEAK STAGE			10.89	Jan 19 e e	17.40	Jul 19 1941
INSTANTANEOUS LOW FLOW			38	Sep 4	12	Sep 15 1918
ANNUAL RUNOFF (CFSM)	.74		1.31		1.05	
ANNUAL RUNOFF (INCHES)	10.04		17.80		14.28	
10 PERCENT EXCEEDS	717		1470		1240	
50 PERCENT EXCEEDS	272		329		246	
90 PERCENT EXCEEDS	64		83		50	

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

YELLOW CREEK BASIN

03110000 YELLOW CREEK NEAR HAMMONDSVILLE, OH

LOCATION.--Lat 40°32'16", long 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.

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 fair except for estimated daily discharges, which are poor. Water-quality and sediment data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	27	48	e43	191	472	179	900	100	87	25	7.6
2	4.8	31	46	e66	e155	366	228	809	92	73	20	7.2
3	5.8	143	43	e115	e130	290	194	620	108	84	17	7.2
4	6.3	113	42	e110	e115	209	183	469	179	82	15	7.2
5	25	76	41	e100	e100	235	240	409	176	61	14	7.2
6	113	56	40	e92	e94	526	216	361	135	51	13	7.4
7	60	50	43	e86	e86	536	206	298	196	45	12	68
8	39	61	51	e80	e190	412	189	315	207	42	12	63
9	25	54	e41	e75	300	318	176	335	192	39	23	34
10	18	46	e35	e72	217	261	163	314	156	35	31	43
11	14	46	e30	e68	152	234	146	597	131	31	18	37
12	12	179	e27	e67	111	229	136	875	114	28	14	24
13	12	124	e25	e65	e86	221	128	577	115	26	13	21
14	14	110	e30	e64	e75	213	125	446	121	25	13	29
15	53	194	e94	e63	e68	233	120	398	146	41	13	27
16	40	195	e68	e63	e64	214	363	509	109	72	34	21
17	26	138	e48	e100	e60	199	328	480	92	45	39	38
18	21	122	e42	e600	e58	188	276	442	83	44	23	66
19	18	138	e41	2890	e56	210	257	375	1160	68	17	44
20	18	140	e105	1230	332	1480	300	316	546	50	14	30
21	64	125	e98	537	726	925	285	272	293	34	12	23
22	58	106	e85	361	453	598	192	242	197	28	11	19
23	61	91	e75	299	394	453	323	199	150	27	10	21
24	51	81	e66	716	385	358	666	175	148	25	10	28
25	45	71	e59	626	315	319	485	172	266	26	9.6	24
26	41	65	e55	432	290	276	399	144	163	25	9.4	20
27	37	61	e52	655	506	224	324	143	121	22	8.5	17
28	34	59	e49	551	1250	210	253	188	100	20	7.9	85
29	46	56	e47	410	731	201	767	158	86	18	7.6	212
30	42	51	e46	327	---	178	1070	134	77	19	7.6	88
31	39	---	e44	254	---	162	---	113	---	25	7.6	---
TOTAL	1049.8	2809	1616	11217	7690	10950	8917	11785	5759	1298	481.2	1125.8
MEAN	33.9	93.6	52.1	362	265	353	297	380	192	41.9	15.5	37.5
MAX	113	195	105	2890	1250	1480	1070	900	1160	87	39	212
MIN	4.8	27	25	43	56	162	120	113	77	18	7.6	7.2
CFSM	.23	.64	.35	2.46	1.80	2.40	2.02	2.59	1.31	.28	.11	.26
IN.	.27	.71	.41	2.84	1.95	2.77	2.26	2.98	1.46	.33	.12	.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 1996, BY WATER YEAR (WY)

	MEAN	47.1	94.4	170	217	278	352	300	211	118	66.3	49.2	37.8
MAX	242	611	879	745	649	848	627	538	588	266	492	232	
(WY)	1991	1986	1991	1952	1956	1945	1948	1956	1989	1958	1980	1975	
MIN	4.92	5.08	10.8	20.8	23.6	55.1	75.9	40.0	10.1	6.12	3.95	2.33	
(WY)	1954	1992	1964	1977	1954	1969	1941	1988	1988	1965	1962	1963	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1941 - 1996	
ANNUAL TOTAL	37421.4		64697.8		162	
ANNUAL MEAN	103		177		266	
HIGHEST ANNUAL MEAN					73.9	
LOWEST ANNUAL MEAN					1980	
HIGHEST DAILY MEAN	696	May 19	2890	Jan 19	6440	Jan 27 1952
LOWEST DAILY MEAN	4.5	Sep 29	4.8	Oct 2	.80	Sep 25 1963
ANNUAL SEVEN-DAY MINIMUM	5.7	Sep 28	7.3	Aug 31	.80	Sep 25 1963
INSTANTANEOUS PEAK FLOW			4050	Jan 19 a	9580	Jan 27 1952
INSTANTANEOUS PEAK STAGE			8.33	Jan 19	12.17	Jan 27 1952
INSTANTANEOUS LOW FLOW			4.6	Oct 1	.80	Sep 24 1963
ANNUAL RUNOFF (CFSM)	.70		1.20		1.10	
ANNUAL RUNOFF (INCHES)	9.47		16.37		14.96	
10 PERCENT EXCEEDS	243		443		387	
50 PERCENT EXCEEDS	66		86		75	
90 PERCENT EXCEEDS	10		17		11	

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

SHORT CREEK BASIN

53

03111500 SHORT CREEK NEAR DILLONVALE, OH

LOCATION.--Lat 40°11'38", long 80°44'03", 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, 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 and 676.1 elevation.

REMARKS.--Record fair except for those for periods of estimated record, which are poor. Water-quality and sediment data 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 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	32	44	e38	124	251	266	429	157	152	82	36
2	17	39	41	e52	e100	217	307	343	150	110	76	36
3	17	70	40	117	e86	190	230	277	178	102	68	35
4	31	60	43	e84	e78	159	213	255	224	95	65	35
5	42	44	43	e72	e73	192	236	258	181	86	62	35
6	105	38	47	e68	e68	545	207	301	156	84	59	51
7	65	41	41	e62	e64	398	193	242	219	78	60	204
8	43	50	34	e57	e105	287	180	335	301	80	98	90
9	35	44	e33	e56	162	269	171	1670	221	74	121	64
10	31	39	e32	e54	127	209	161	590	186	67	73	70
11	29	42	e31	e53	e100	201	153	637	170	64	62	53
12	27	105	e31	e52	e85	200	145	564	157	66	62	61
13	26	76	e38	e52	e78	190	140	400	148	62	61	57
14	52	85	e80	e52	e71	180	136	334	137	62	55	51
15	97	147	157	e51	e65	178	149	358	132	104	60	43
16	52	118	86	e51	e62	164	341	462	122	88	134	46
17	39	89	68	e100	e59	162	246	648	115	80	77	99
18	34	97	63	231	e58	154	202	432	114	221	64	73
19	32	128	82	1500	e58	235	194	343	549	854	57	54
20	39	99	91	e550	587	887	184	296	238	225	55	47
21	86	81	87	e300	456	538	167	281	173	146	51	43
22	54	72	55	209	283	381	157	251	149	130	50	42
23	42	64	e52	197	235	319	188	221	131	113	48	41
24	36	59	e48	544	225	294	199	217	266	101	54	40
25	33	53	e47	349	187	273	168	222	305	100	47	39
26	32	51	e45	242	191	248	169	195	178	92	43	37
27	32	50	e43	386	456	216	167	200	143	81	41	39
28	34	50	e41	281	592	207	147	222	125	76	40	179
29	35	47	e40	216	330	202	593	210	115	75	39	190
30	36	45	e39	187	---	183	547	186	110	118	37	93
31	33	---	e39	159	---	174	---	167	---	105	37	---
TOTAL	1283	2015	1661	6422	5165	8303	6556	11546	5550	3891	1938	1983
MEAN	41.4	67.2	53.6	207	178	268	219	372	185	126	62.5	66.1
MAX	105	147	157	1500	592	887	593	1670	549	854	134	204
MIN	17	32	31	38	58	154	136	167	110	62	37	35
CFSM	.34	.55	.44	1.68	1.45	2.18	1.78	3.03	1.50	1.02	.51	.54
IN.	.39	.61	.50	1.94	1.56	2.51	1.98	3.49	1.68	1.18	.59	.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1996, BY WATER YEAR (WY)

MEAN	52.9	75.3	117	157	205	249	227	173	115	78.3	62.6	51.6
MAX	195	515	414	469	459	725	488	391	422	331	610	305
(WY)	1955	1986	1991	1950	1975	1945	1961	1967	1989	1990	1980	1974
MIN	13.8	13.8	12.1	20.9	24.8	54.7	69.3	51.4	28.0	17.4	11.5	8.62
(WY)	1954	1954	1944	1967	1954	1969	1946	1976	1988	1954	1945	1947

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1942 - 1996

ANNUAL TOTAL	29386	56313	
ANNUAL MEAN	80.5	154	
HIGHEST ANNUAL MEAN			130
LOWEST ANNUAL MEAN			225
HIGHEST DAILY MEAN	370	Feb 16	1670
LOWEST DAILY MEAN	12	Sep 5	17
ANNUAL SEVEN-DAY MINIMUM	12	Sep 2	33
INSTANTANEOUS PEAK FLOW			3970
INSTANTANEOUS PEAK STAGE			9.51
INSTANTANEOUS LOW FLOW			16
ANNUAL RUNOFF (CFSM)	.65	1.25	1.06
ANNUAL RUNOFF (INCHES)	8.89	17.03	14.34
10 PERCENT EXCEEDS	157	306	270
50 PERCENT EXCEEDS	58	97	78
90 PERCENT EXCEEDS	22	39	22

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

WHEELING CREEK BASIN

03111548 WHEELING CREEK BELOW BLAINE, OH

LOCATION.--Lat 40°04'01", long 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, 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 fair. U.S. Army Corps of Engineers satellite telemeter at station. Sediment data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	31	39	e33	e94	226	357	317	112	360	56	31
2	17	38	37	e50	e82	197	299	239	107	116	54	30
3	18	63	37	157	e72	168	215	200	124	95	51	30
4	27	52	38	84	e66	144	193	198	156	84	49	30
5	39	42	37	71	e61	219	204	308	125	76	48	30
6	71	39	39	56	e56	690	175	411	113	71	46	53
7	41	44	37	e53	e54	399	161	277	128	68	46	181
8	27	47	e34	e50	e80	267	149	286	219	68	47	68
9	24	41	e31	e48	182	217	142	1910	176	65	66	48
10	23	39	e28	e46	113	189	131	526	135	61	50	42
11	22	51	e27	e44	e90	187	122	499	131	57	45	41
12	22	109	e26	e43	e76	194	116	416	129	55	48	45
13	23	66	e74	e42	e66	181	112	301	114	55	48	51
14	82	85	160	e41	e60	167	107	258	111	62	44	44
15	93	135	100	e41	e57	178	145	339	143	105	49	39
16	49	93	62	e40	e55	161	319	474	101	75	156	47
17	39	69	49	e80	e53	169	209	874	101	62	65	150
18	33	105	45	e340	e52	151	162	392	90	163	50	74
19	30	113	99	1480	e51	495	159	295	1430	408	45	53
20	42	73	104	357	620	1120	145	250	233	138	43	47
21	62	62	81	203	370	514	132	276	145	89	41	43
22	38	57	53	158	210	348	123	225	118	95	40	42
23	34	52	e44	151	174	300	158	183	104	81	44	42
24	31	49	e42	519	190	307	147	171	109	71	49	39
25	30	46	e39	262	151	289	124	166	273	69	39	40
26	30	44	e37	188	187	238	128	146	128	66	36	38
27	31	42	e36	337	506	200	124	151	95	61	35	42
28	34	42	e35	215	837	192	112	156	84	56	35	355
29	35	40	e35	170	302	184	527	163	79	56	33	213
30	33	40	e34	e130	---	169	462	135	115	76	32	89
31	32	---	e34	e105	---	158	---	118	---	68	32	---
TOTAL	1129	1809	1573	5594	4967	8618	5659	10660	5228	3032	1522	2077
MEAN	36.4	60.3	50.7	180	171	278	189	344	174	97.8	49.1	69.2
MAX	93	135	160	1480	837	1120	527	1910	1430	408	156	355
MIN	17	31	26	33	51	144	107	118	79	55	32	30
CFSM	.37	.62	.52	1.85	1.75	2.85	1.93	3.52	1.78	1.00	.50	.71
IN.	.43	.69	.60	2.13	1.89	3.28	2.15	4.06	1.99	1.15	.58	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1996, BY WATER YEAR (WY)

	MEAN	44.0	98.5	119	131	156	181	178	156	103	75.2	40.4	41.3
MAX	138	402	395	294	262	330	298	344	288	230	87.5	95.2	
(WY)	1991	1986	1991	1991	1986	1993	1983	1996	1989	1990	1992	1990	
MIN	17.9	23.7	44.4	51.5	67.9	72.7	73.9	52.8	34.7	35.8	16.6	9.53	
(WY)	1989	1992	1989	1992	1992	1987	1986	1986	1992	1991	1986	1985	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1982 - 1996

ANNUAL TOTAL	25450	51868	
ANNUAL MEAN	69.7	142	109
HIGHEST ANNUAL MEAN			143
LOWEST ANNUAL MEAN			70.6
HIGHEST DAILY MEAN	484	Feb 16	1910
LOWEST DAILY MEAN	17	Sep 28	17
ANNUAL SEVEN-DAY MINIMUM	17	Sep 26	26
INSTANTANEOUS PEAK FLOW			4720
INSTANTANEOUS PEAK STAGE			7.63
INSTANTANEOUS LOW FLOW			17
ANNUAL RUNOFF (CFSM)	.71	1.45	1.12
ANNUAL RUNOFF (INCHES)	9.69	19.75	15.22
10 PERCENT EXCEEDS	126	301	222
50 PERCENT EXCEEDS	52	80	70
90 PERCENT EXCEEDS	26	34	25

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

55

REMARKS.--Records fair except for periods of estimated record, which are poor. Water-quality and sediment data collected at this site.

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1927 - 1996	
ANNUAL TOTAL	44131.13		84377.3			
ANNUAL MEAN	121		231		165	
HIGHEST ANNUAL MEAN					275	
LOWEST ANNUAL MEAN					75.2	
HIGHEST DAILY MEAN	1040	Feb 16	3070	Jan 19	8080	Aug 11 1980
LOWEST DAILY MEAN	.14	Sep 8	1.5	Oct 1	.00	Aug 12 1929
ANNUAL SEVEN-DAY MINIMUM	.30	Sep 5	2.8	Aug 30	.00	Jul 10 1930
INSTANTANEOUS PEAK FLOW			6560	Jan 19 a	21900	Aug 11 1980
INSTANTANEOUS PEAK STAGE			10.11	Jan 19	17.48	Aug 11 1980
INSTANTANEOUS LOW FLOW			1.5	Oct 1	.00	Sep 15 1929
ANNUAL RUNOFF (CFSM)	.90		1.72		1.23	
ANNUAL RUNOFF (INCHES)	12.25		23.42		16.70	
10 PERCENT EXCEEDS	305		544		381	
50 PERCENT EXCEEDS	61		108		66	
90 PERCENT EXCEEDS	3.6		13		4.6	

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

LITTLE MUSKINGUM RIVER BASIN

03115400 LITTLE MUSKINGUM RIVER AT BLOOMFIELD, OH

LOCATION.--Lat 39°33'47", long 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, 2.2 mi downstream from Wilson Run.

DRAINAGE AREA.--210 mi².

PERIOD OF RECORD.--October 1958 to September 1981, October 1995 to September 1996.

REVISED RECORDS.--WSP 1705: 1959.

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

REMARKS.--Records fair, except for periods of estimated record, which are poor. Water-quality and sediment data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.36	20	39	e39	169	482	356	1390	230	302	570	4.1
2	.33	23	37	216	e120	356	596	879	175	112	313	3.4
3	.30	86	33	1200	e92	289	429	568	183	62	212	2.7
4	.45	117	32	552	e78	204	346	710	309	44	143	2.1
5	1.6	72	30	301	e72	267	366	1640	277	32	101	2.0
6	17	49	30	226	e67	3780	340	1970	196	25	75	4.1
7	21	41	28	166	e64	2010	301	798	253	19	59	124
8	15	63	25	139	139	733	259	864	316	15	53	133
9	9.8	69	e18	e110	696	418	228	2840	247	12	334	62
10	7.0	55	e15	e98	419	335	199	2410	195	12	172	37
11	4.8	50	e12	e90	e200	321	173	1000	164	9.3	87	25
12	3.5	302	e10	e82	e140	336	154	1460	266	6.8	66	17
13	5.3	212	e9.4	e79	e110	310	140	674	666	5.2	72	14
14	32	206	e9.2	e75	e96	283	129	421	264	4.5	56	12
15	310	360	86	e72	e82	369	120	419	174	18	42	8.4
16	112	268	895	e70	e72	427	622	1680	125	82	57	17
17	51	190	589	972	e66	477	889	2420	96	41	58	3110
18	30	290	333	2010	e60	508	471	901	76	205	39	531
19	19	367	1640	4200	e56	673	346	466	1810	2690	29	230
20	12	226	2140	1730	1280	2740	288	326	865	2210	23	135
21	10	155	488	484	1890	1540	243	255	290	299	19	89
22	22	115	e170	327	665	839	204	211	183	273	18	65
23	26	90	e130	286	426	588	385	161	154	270	16	52
24	23	74	e105	3520	359	744	865	132	106	181	54	43
25	16	62	e90	1660	295	804	436	113	108	997	41	37
26	11	52	e80	569	303	569	353	96	98	383	24	32
27	10	48	e68	900	2190	382	312	122	65	221	15	28
28	8.9	47	e62	689	3490	380	255	331	50	138	11	669
29	9.4	46	e52	407	991	677	265	1380	41	112	8.0	1500
30	12	42	e46	320	---	459	1070	834	34	1230	6.2	378
31	20	---	e42	261	---	363	---	326	---	3040	5.0	---
TOTAL	820.74	3797	7343.6	21850	14687	22663	11140	27797	8016	13050.8	2778.2	7366.8
MEAN	26.5	127	237	705	506	731	371	897	267	421	89.6	246
MAX	310	367	2140	4200	3490	3780	1070	2840	1810	3040	570	3110
MIN	.30	20	9.2	39	56	204	120	96	34	4.5	5.0	2.0
CFSM	.13	.60	1.13	3.36	2.41	3.48	1.77	4.27	1.27	2.00	.43	1.17
IN.	.15	.67	1.30	3.87	2.60	4.01	1.97	4.92	1.42	2.31	.49	1.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 1996, BY WATER YEAR (WY)

	MEAN	76.5	155	326	405	490	563	477	312	190	98.2	90.0	89.6
MAX	476	518	918	1008	995	1387	1004	899	966	421	401	719	
(WY)	1980	1971	1979	1979	1979	1963	1964	1968	1981	1996	1979	1975	
MIN	.43	2.28	16.3	28.0	59.0	119	78.8	48.4	12.2	.98	.90	.36	
(WY)	1967	1964	1964	1977	1964	1969	1971	1976	1966	1966	1962	1966	

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1958 - 1996

ANNUAL TOTAL	141310.14		
ANNUAL MEAN	386	272	
HIGHEST ANNUAL MEAN		461	1979
LOWEST ANNUAL MEAN		170	1966
HIGHEST DAILY MEAN	4200	13300	Mar 5 1963
LOWEST DAILY MEAN	.30	.00	Sep 18 1967
ANNUAL SEVEN-DAY MINIMUM	3.3	.10	Sep 13 1966
INSTANTANEOUS PEAK FLOW	5950	21200	Mar 5 1963
INSTANTANEOUS PEAK STAGE	20.34	28.08	Mar 5 1963
INSTANTANEOUS LOW FLOW	.26	.00	Sep 18 1967
ANNUAL RUNOFF (CFSM)	1.84	1.29	
ANNUAL RUNOFF (INCHES)	25.03	17.58	
10 PERCENT EXCEEDS	978	648	
50 PERCENT EXCEEDS	141	95	
90 PERCENT EXCEEDS	12	5.0	

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

MUSKINGUM RIVER BASIN

57

03115969 MONTROSE RUN AT MONTROSE, OHIO

LOCATION.--Lat 41°07'51", long 81°38'25", Summit County, Hydrologic Unit 05040001, on left bank of small pond at the Windsong Care Center at 120 Brookmont Dr., 0.25 mi west of Cleveland-Massillon Road, 0.4 mi southwest of intersection of State Route 18 and I-77, 1.6 mi northwest of Akron corporate boundary.

DRAINAGE AREA.--0.263 mi².

PERIOD OF RECORD.--October 1, 1992, to current year.

GAGE.--Water-stage recorder. Elevation of gage is 989 ft above sea level, from topographic map.

REMARKS.--Record good, except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.09	.01	.19	e.02	.19	.49	.89	.00	.01	.45	.00
2	.00	1.1	.01	.21	e.01	.16	.23	.37	.38	.00	.01	.00
3	1.3	.29	.00	.10	e.00	.15	.21	.17	.21	.02	.01	.00
4	1.1	.06	.01	.06	e.00	.14	.06	.45	1.2	.01	.00	.00
5	4.7	.03	.00	.05	e.00	3.2	.06	.43	.16	.00	.00	.00
6	.44	.00	.05	.03	e.00	.79	.02	.19	.10	.00	.00	.51
7	.05	1.4	.01	e.02	e.00	.51	.01	.09	3.4	.07	.00	5.9
8	.02	.33	.00	e.02	e.07	e.30	.00	.09	.41	.21	.00	.12
9	.00	.12	.00	e.02	.17	e.23	.00	.54	.91	.04	.00	.03
10	.00	.62	.00	e.02	e.07	e.18	.00	1.9	.08	.10	.00	.02
11	.00	4.4	.00	e.02	e.06	e.15	.00	5.2	.52	.03	.00	.00
12	.00	.25	.00	e.02	e.05	e.13	.00	.44	1.4	.01	.00	1.6
13	.00	.09	.00	e.02	e.04	e.12	.35	.18	.76	.24	.35	.02
14	1.2	.10	1.0	e.12	e.04	e.11	.07	.09	1.4	.27	.07	.03
15	.07	.87	.08	.19	e.03	e.10	2.1	.75	.09	1.1	.32	.14
16	.01	.11	.02	.16	e.03	.31	.48	.20	.06	.06	.03	.02
17	.04	.06	.00	2.9	e.03	.21	.19	.20	.05	.10	.00	1.1
18	.02	.84	.45	2.3	e.03	.19	.09	.12	.92	.07	.00	.51
19	.00	.18	.16	4.3	e.03	4.7	.06	.07	.36	.13	.00	.03
20	1.0	.07	.05	.21	1.4	2.0	.69	.05	.50	.03	.00	.00
21	.22	.07	e.04	.10	.43	.69	.11	.24	.05	.01	.14	.09
22	.05	.07	e.03	.16	.38	.53	.16	.08	.03	.00	.00	.97
23	.02	.05	e.02	1.3	.37	.38	6.1	.04	.02	.00	.10	.19
24	.00	.03	e.02	2.4	.41	.33	.43	.04	2.4	.00	.01	.07
25	.00	.01	e.02	.38	.24	.44	.15	.04	.10	.09	.00	.03
26	.00	.00	e.02	.27	.40	.25	.89	.03	.04	.04	.00	.00
27	.01	.00	e.01	3.1	5.1	.15	.15	.44	.03	.02	.01	.06
28	.17	.00	e.01	.31	1.6	.14	.08	.12	.03	.00	.02	3.1
29	.07	.00	e.01	.16	.30	.16	3.3	.05	.03	.00	.00	.07
30	.02	.00	.01	e.09	---	.09	4.7	.02	.02	1.2	.00	.02
31	.15	---	.01	e.04	---	.09	---	.00	---	.13	.00	---
TOTAL	10.66	11.24	2.05	19.27	11.31	17.12	21.18	13.52	15.66	3.99	1.52	14.63
MEAN	.34	.37	.066	.62	.39	.55	.71	.44	.52	.13	.049	.49
MAX	4.7	4.4	1.0	4.3	5.1	4.7	6.1	5.2	3.4	1.2	.45	5.9
MIN	.00	.00	.00	.02	.00	.09	.00	.00	.00	.00	.00	.00
CFSM	1.32	1.44	.25	2.39	1.50	2.12	2.72	1.68	2.01	.50	.19	1.88
IN.	1.53	1.61	.29	2.76	1.62	2.45	3.03	1.93	2.24	.57	.22	2.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	MEAN	.15	.40	.22	.54	.23	.44	.57	.23	.39	.16	.17	.21
	MAX	.34	.63	.33	.62	.39	.66	.74	.44	.52	.26	.37	.49
(WY)	1996	1994	1993	1996	1996	1993	1994	1996	1996	1996	1995	1995	1996
MIN	.006	.15	.066	.47	.069	.25	.31	.082	.29	.009	.001	.053	
(WY)	1995	1995	1996	1994	1993	1995	1995	1993	1993	1993	1993	1994	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1993 - 1996

	ANNUAL TOTAL	102.75	142.15	
	ANNUAL MEAN	.28	.39	.31
	HIGHEST ANNUAL MEAN			.39
	LOWEST ANNUAL MEAN			.25
	HIGHEST DAILY MEAN	6.8	Jan 15	6.1
	LOWEST DAILY MEAN	.00	Jan 3	.00
	ANNUAL SEVEN-DAY MINIMUM	.00	Feb 7	.00
	INSTANTANEOUS PEAK FLOW			43
	INSTANTANEOUS PEAK STAGE			12.27
	INSTANTANEOUS LOW FLOW			.00
	ANNUAL RUNOFF (CFSM)	1.08		1.49
	ANNUAL RUNOFF (INCHES)	14.70		20.34
	10 PERCENT EXCEEDS	.86		1.0
	50 PERCENT EXCEEDS	.03		.07
	90 PERCENT EXCEEDS	.00		.00

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

MUSKINGUM RIVER BASIN

03115970 SCHOCALOG RUN AT MONTROSE, OHIO

LOCATION.--Lat 41°07'37", long 81°37'54", Summit County, Hydrologic Unit 05040001, on northeast bank of small pond located at Rosemont Country Club golf course, about 300 feet north of Elgin Drive, about 700 feet east of Cleveland-Massillon Road, 1.2 miles west northwest of Akron corporate boundary, 1.2 miles southeast of intersection of SR-18 and I-77, at Fairlawn.

DRAINAGE AREA.--1.59 mi².

PERIOD OF RECORD.--October 1, 1993, to current year.

GAGE.--Water-stage recorder. Elevation of gage is 981 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Record fair, except for discharges less than 2.0 ft³/s, which are poor. Flow affected by pumping from gage pool to water golf course.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.13	.73	.77	1.1	1.1	2.0	1.7	6.9	.91	.45	3.6	.01
2	.06	3.7	.60	1.9	1.2	1.8	1.3	4.9	2.1	.59	.91	.18
3	3.5	2.8	.71	1.4	.89	1.4	1.5	3.1	2.0	.50	.69	.14
4	5.9	.79	.63	1.0	.70	1.0	1.1	3.7	4.0	.54	.45	.09
5	12	.55	.52	.76	.65	14	1.0	3.3	2.7	.31	.24	.01
6	15	.49	.74	.63	.58	7.7	.89	3.1	1.5	.50	.24	.70
7	1.3	6.7	.57	.63	.58	2.4	.82	2.1	11	.71	.60	27
8	.61	2.9	.49	.58	3.4	1.6	.81	2.0	11	1.6	.39	4.6
9	.48	1.5	.49	.56	2.4	1.2	.81	3.5	7.6	.67	.17	1.4
10	.38	2.3	.46	.66	1.3	1.0	.78	8.4	2.3	1.1	.16	1.4
11	.51	24	.41	.57	1.8	1.1	.73	36	2.9	.47	.32	.77
12	.33	6.7	.40	.56	1.3	1.1	.79	10	8.7	.29	.16	9.5
13	.30	2.0	.41	.57	.95	1.1	2.1	3.5	5.4	.80	1.4	1.9
14	4.3	1.6	4.4	1.1	.92	1.2	1.3	2.7	11	2.0	1.6	.98
15	1.1	4.7	1.3	1.5	.87	1.2	7.3	4.6	2.4	4.7	1.9	1.7
16	.41	2.0	.72	1.3	.75	.99	7.1	3.6	1.7	1.1	1.0	.85
17	.30	1.3	.58	20	.72	.93	2.6	3.0	1.4	1.3	.56	5.2
18	.30	4.9	2.0	14	.72	.85	1.4	2.3	4.4	1.0	.49	6.7
19	.80	2.7	1.7	35	.72	10	1.1	1.9	4.1	1.2	.49	1.2
20	3.5	1.5	.95	3.3	9.1	17	3.7	1.7	3.3	.48	.40	.79
21	2.5	1.3	.85	1.9	4.8	3.9	1.6	2.2	1.5	.54	1.2	.87
22	.85	1.1	.71	1.5	2.8	2.8	1.4	1.5	1.2	.34	.52	4.5
23	.53	1.1	.63	4.3	2.3	2.2	33	1.3	1.1	.51	1.4	3.2
24	.49	.96	.63	12	2.2	1.9	11	1.2	11	.46	.71	1.2
25	.40	.76	.63	3.2	1.5	2.0	3.1	1.1	3.5	1.2	.34	.81
26	.36	.72	.66	2.3	1.8	1.4	4.9	1.3	1.4	.63	.17	.63
27	.67	.72	.66	14	18	1.1	2.9	2.6	1.1	.36	.28	.91
28	1.0	.71	.63	2.8	14	1.1	1.8	1.7	2.3	.48	.24	19
29	.62	.68	.58	1.8	2.8	1.1	15	1.1	1.1	.52	.14	3.2
30	.45	.63	.52	1.4	---	1.1	36	.98	.92	4.3	.00	1.1
31	.99	---	.56	1.3	---	1.0	---	.93	---	2.0	.13	---
TOTAL	60.07	82.54	25.91	133.62	80.85	89.17	149.53	126.21	115.53	31.65	20.90	100.54
MEAN	1.94	2.75	.84	4.31	2.79	2.88	4.98	4.07	3.85	1.02	.67	3.35
MAX	15	24	4.4	35	18	17	36	36	11	4.7	3.6	27
MIN	.06	.49	.40	.56	.58	.85	.73	.93	.91	.29	.00	.01
CFSM	1.22	1.73	.53	2.71	1.75	1.81	3.13	2.56	2.42	.64	.42	2.11
IN.	1.41	1.93	.61	3.13	1.89	2.09	3.50	2.95	2.70	.74	.49	2.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	1994	1995	1996	1994	1995	1996	1994	1995	1996	1994	1995	1996
MEAN	1.19	2.61	1.36	3.83	1.75	2.33	4.20	2.27	2.92	1.41	1.41	1.47
MAX	1.94	4.28	1.99	4.31	2.79	2.88	5.54	4.07	3.85	1.69	2.37	3.35
(WY)	1996	1994	1994	1996	1996	1996	1994	1996	1996	1994	1995	1996
MIN	.33	.81	.84	3.13	.95	1.63	2.07	.98	2.33	1.02	.67	.49
(WY)	1995	1995	1996	1994	1995	1995	1995	1994	1995	1996	1996	1994

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1994 - 1996

ANNUAL TOTAL	695.20	1016.52	
ANNUAL MEAN	1.90	2.78	
HIGHEST ANNUAL MEAN			2.23
LOWEST ANNUAL MEAN			2.78
HIGHEST DAILY MEAN	36	Jan 16	53
LOWEST DAILY MEAN	.00	Aug 1	.00
ANNUAL SEVEN-DAY MINIMUM	.11	Sep 26	.08
INSTANTANEOUS PEAK FLOW			59
INSTANTANEOUS PEAK STAGE			13.41
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.20		1.75
ANNUAL RUNOFF (INCHES)	16.27		23.78
10 PERCENT EXCEEDS	4.1		6.7
50 PERCENT EXCEEDS	.78		1.1
90 PERCENT EXCEEDS	.30		.41

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

MUSKINGUM RIVER BASIN

59

03115971 SCHOCALOG RUN AT FAIRLAWN, OHIO

LOCATION.--Lat 41°07'28", long 81°37'23", Summit County, Hydrologic Unit 05040001, on right upstream side of triple barrel culvert under Trunko Road, 0.7 mi east of Cleveland-Massillon Road, 0.7 mi west of Akron corporate boundary, 1.6 mi southeast of intersection of State Route 18 and I-77.

DRAINAGE AREA.--2.13 mi².

PERIOD OF RECORD.--October 1, 1991, to current year.

GAGE.--Water-stage recorder. Elevation of gage is 978 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Record fair, except for daily discharges less than 1.0 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.09	1.1	1.1	1.8	1.5	2.0	2.4	11	2.2	.55	5.2	.01
2	.07	5.3	.77	2.8	1.5	1.8	1.6	7.5	4.4	.44	.93	.03
3	5.2	4.6	.97	2.1	1.3	1.6	1.7	4.0	4.5	.47	.67	.05
4	9.7	.85	.87	1.4	.94	1.3	1.4	5.4	7.2	.54	.47	.03
5	19	.46	.60	1.0	1.1	18	1.3	4.9	5.1	.24	.17	.01
6	21	.48	.65	.90	.89	10	.94	4.5	2.9	.78	.11	.58
7	2.2	9.9	.52	.94	.91	3.2	.93	2.8	16	.60	.48	33
8	1.2	4.4	.36	.88	7.0	2.1	.91	2.6	15	2.0	.48	6.3
9	1.2	2.0	.37	.90	4.4	1.7	.88	5.7	11	.54	.22	1.4
10	1.7	3.3	.34	1.1	1.8	1.5	.82	13	3.1	1.2	.08	1.4
11	2.2	32	.32	.85	3.1	1.6	.81	49	3.7	.41	.21	.67
12	2.1	10	.30	1.2	2.0	1.6	.86	14	11	.16	.14	12
13	2.1	2.6	.37	1.2	1.2	1.6	2.9	4.9	7.7	.44	1.1	2.2
14	9.1	2.4	6.2	2.0	1.2	1.7	1.5	3.8	15	2.5	2.2	.94
15	3.1	8.3	1.7	2.3	.92	1.7	9.6	7.7	2.8	6.4	2.2	2.0
16	1.9	3.6	.84	1.6	.79	1.4	9.9	5.6	1.8	1.2	1.5	.81
17	1.6	2.9	.58	31	.77	1.3	3.2	4.5	1.5	1.3	.49	6.5
18	1.7	9.8	2.5	27	.81	1.1	2.2	3.6	6.4	1.0	.38	8.6
19	1.9	4.7	2.9	59	.83	13	2.0	3.1	5.6	1.5	.34	1.3
20	5.9	1.6	1.4	5.9	12	20	6.8	2.9	3.8	.42	.30	.74
21	4.5	1.3	1.2	2.9	6.5	5.0	2.6	4.2	1.6	.46	1.5	.82
22	1.3	1.0	1.1	2.4	3.6	3.7	2.9	2.9	1.4	.41	.43	5.8
23	.59	.92	.96	8.9	2.9	2.9	43	2.3	1.1	.38	1.6	4.3
24	.37	.84	.96	28	2.7	2.4	17	2.0	13	.41	.84	1.4
25	.41	.78	1.1	5.5	1.9	2.8	4.4	2.0	4.7	1.3	.27	.90
26	.29	1.0	1.1	3.9	2.3	1.9	8.2	2.1	1.5	.65	.06	.61
27	1.1	.92	1.0	31	21	1.5	4.3	5.0	1.1	.33	.17	.84
28	1.7	.57	.93	4.9	17	1.4	2.4	3.7	2.4	.39	.16	23
29	.84	.79	.83	2.8	3.6	1.4	22	2.4	1.1	.39	.06	4.0
30	.39	.67	.78	2.3	---	1.4	46	2.1	.91	6.5	.01	1.2
31	1.6	---	.83	2.0	---	1.6	---	2.3	---	2.9	.02	---
TOTAL	106.05	119.08	34.45	240.47	106.46	114.2	205.45	191.5	159.51	36.81	22.79	121.44
MEAN	3.42	3.97	1.11	7.76	3.67	3.68	6.85	6.18	5.32	1.19	.74	4.05
MAX	21	32	6.2	59	21	20	46	49	16	6.5	5.2	33
MIN	.07	.46	.30	.85	.77	1.1	.81	2.0	.91	.16	.01	.01
CFSM	1.61	1.86	.52	3.64	1.72	1.73	3.22	2.90	2.50	.56	.35	1.90
IN.	1.85	2.08	.60	4.20	1.86	1.99	3.59	3.34	2.79	.64	.40	2.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996
MEAN	1.51	3.70	2.62	5.35	2.35
MAX	3.42	5.94	3.97	7.76	3.67
(WY)	1996	1994	1993	1996	1993
MIN	.29	1.17	1.11	2.18	1.31
(WY)	1995	1995	1996	1992	1995

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1992 - 1996

ANNUAL TOTAL	986.07	1458.21	
ANNUAL MEAN	2.70	3.98	
HIGHEST ANNUAL MEAN			3.23
LOWEST ANNUAL MEAN			3.98
HIGHEST DAILY MEAN	49	59	70
LOWEST DAILY MEAN	.02	.01	.00
ANNUAL SEVEN-DAY MINIMUM	.12	.02	.01
INSTANTANEOUS PEAK FLOW		95	104
INSTANTANEOUS PEAK STAGE		12.57	12.70
INSTANTANEOUS LOW FLOW		.01	.00
ANNUAL RUNOFF (CFSM)	1.27	1.87	1.52
ANNUAL RUNOFF (INCHES)	17.22	25.47	20.62
10 PERCENT EXCEEDS	5.7	9.7	6.9
50 PERCENT EXCEEDS	1.1	1.6	1.5
90 PERCENT EXCEEDS	.30	.39	.25

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

MUSKINGUM RIVER BASIN

03115973 SCHOCALOG RUN AT COPLEY JUNCTION, OHIO

LOCATION.--Lat 41°06'11", long 81°36'12", Summit County, Hydrologic Unit 05040001, on right upstream side of six barrel culvert under the Akron Canton and Youngstown Railroad, 150 feet east of Schocalog Road, 0.25 miles west of Copley Junction, 0.3 miles downstream of Schocalog Lake, 0.8 miles southeast of intersection of I-77 and Ridgewood Road.

DRAINAGE AREA.--3.65 mi².

PERIOD OF RECORD.--October 1, 1991, to current year.

GAGE.--Water-stage recorder. Elevation of gage is 969 ft above sea level, from topographic map.

REMARKS.-- No estimated daily discharges. Records fair, except for discharges less than 2.0 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	2.5	1.2	1.6	2.6	4.9	4.9	22	2.1	2.0	7.4	.40
2	1.5	5.0	1.0	3.7	2.4	2.7	5.3	17	4.3	.72	2.1	.42
3	4.8	5.9	1.2	3.4	2.3	2.9	3.6	8.2	6.7	1.5	1.4	.92
4	18	2.4	1.3	2.4	1.9	2.7	3.2	8.2	5.8	1.2	1.3	.89
5	17	1.7	.85	2.0	1.7	21	4.2	7.7	8.8	1.1	.76	.67
6	34	1.4	1.0	1.6	1.6	22	1.9	8.9	2.7	1.3	1.0	.74
7	4.3	9.6	1.0	1.5	1.6	7.3	1.9	4.8	15	1.1	.62	61
8	1.0	6.0	.90	1.5	4.8	5.0	1.8	4.6	26	4.6	1.6	21
9	.44	3.7	.86	1.4	7.4	3.6	1.9	7.7	16	1.1	2.9	2.2
10	.48	2.5	.74	1.3	3.5	3.1	1.8	16	5.9	2.2	1.0	3.5
11	.86	36	.75	1.3	4.1	3.2	1.5	72	4.5	1.7	1.1	1.6
12	.93	19	.77	1.3	4.0	3.4	1.8	32	12	.55	1.1	25
13	.70	4.9	.79	1.4	2.7	3.0	3.3	10	14	.63	1.0	9.0
14	6.5	2.9	7.7	1.5	2.6	2.2	3.6	6.6	30	4.0	3.6	2.9
15	4.4	6.8	4.2	2.7	2.3	2.6	9.5	8.9	6.7	9.4	2.7	3.8
16	1.7	5.2	2.0	2.4	1.8	2.2	18	11	3.2	4.5	4.2	2.2
17	.42	2.6	1.5	30	1.8	2.7	5.6	7.2	2.4	1.3	1.6	8.4
18	.52	6.2	2.7	33	1.8	2.6	1.9	5.7	10	1.5	1.1	18
19	.91	7.2	5.0	72	1.8	15	2.3	4.8	14	2.7	1.0	4.6
20	3.8	3.4	2.6	14	12	40	6.8	4.7	6.2	1.6	.61	1.6
21	7.9	2.5	2.1	5.9	11	12	3.8	4.9	3.6	.84	2.0	1.2
22	2.5	2.3	1.8	4.9	6.0	7.6	2.4	4.3	2.5	1.3	1.6	8.5
23	1.4	1.7	1.7	7.2	4.0	6.1	55	2.2	1.8	.91	2.4	11
24	.99	1.2	1.7	28	4.0	4.6	29	2.9	14	.94	3.0	2.6
25	.96	1.5	1.6	10	2.6	6.4	7.5	4.2	13	1.5	1.0	2.4
26	.54	1.4	1.7	5.9	2.7	5.8	7.6	3.3	2.4	1.9	.66	.99
27	.69	.55	1.6	28	30	4.2	8.2	5.1	2.4	1.4	.57	1.5
28	2.5	.81	1.5	10	33	3.3	3.0	6.4	2.3	.81	.74	42
29	2.2	.91	1.5	4.0	8.8	2.5	28	3.8	2.8	.79	.68	14
30	1.3	1.0	1.4	3.9	---	2.8	75	3.1	2.1	6.6	.60	1.9
31	1.5	---	1.3	3.1	---	2.4	---	2.2	---	7.1	.54	---
TOTAL	125.64	148.77	55.96	290.9	166.8	209.8	304.3	310.4	243.2	68.79	51.88	254.93
MEAN	4.05	4.96	1.81	9.38	5.75	6.77	10.1	10.0	8.11	2.22	1.67	8.50
MAX	34	36	7.7	72	33	40	75	72	30	9.4	7.4	61
MIN	.42	.55	.74	1.3	1.6	2.2	1.5	2.2	1.8	.55	.54	.40
CFSM	1.11	1.36	.49	2.57	1.58	1.85	2.78	2.74	2.22	.61	.46	2.33
IN.	1.28	1.52	.57	2.96	1.70	2.14	3.10	3.16	2.48	.70	.53	2.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
MEAN	1.95	5.44	3.83	7.53	3.84	6.54	8.65	4.53	4.70	4.60	3.45	4.62
MAX	4.05	9.51	6.44	10.9	5.75	11.0	12.2	10.0	8.11	13.6	6.96	9.96
(WY)	1996	1993	1993	1993	1996	1993	1994	1996	1996	1992	1992	1992
MIN	.28	2.05	1.81	3.33	1.99	3.34	4.33	2.52	2.01	.95	.28	.61
(WY)	1995	1995	1996	1992	1995	1995	1995	1992	1992	1993	1993	1994

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1992 - 1996

ANNUAL TOTAL	1365.45	2231.37	
ANNUAL MEAN	3.74	6.10	4.97
HIGHEST ANNUAL MEAN			6.10
LOWEST ANNUAL MEAN			3.27
HIGHEST DAILY MEAN	66	75	103
LOWEST DAILY MEAN	.18	.40	.01
ANNUAL SEVEN-DAY MINIMUM	.29	.56	.03
INSTANTANEOUS PEAK FLOW		110	150
INSTANTANEOUS PEAK STAGE		12.46	12.79
INSTANTANEOUS LOW FLOW		.07	.01
ANNUAL RUNOFF (CFSM)	1.02	1.67	1.36
ANNUAL RUNOFF (INCHES)	13.92	22.74	18.51
10 PERCENT EXCEEDS	7.8	14	11
50 PERCENT EXCEEDS	1.7	2.6	2.4
90 PERCENT EXCEEDS	.60	.90	.48

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

MUSKINGUM RIVER BASIN

61

03117000 TUSCARAWAS RIVER AT MASSILLON, OH

LOCATION.--Lat 40°46'13", long 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, 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 above sea level. Prior to Aug. 19, 1944, nonrecording gage at same site and datum.

REMARKS.--Records good except those for May 13 to July 12 and for periods of estimated record, 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 collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	151	178	e140	445	1500	363	4240	285	289	362	96
2	72	186	175	e180	e350	866	376	3430	261	285	286	95
3	172	276	162	e220	e280	612	351	2130	317	249	199	94
4	385	220	161	272	e270	485	354	1500	426	214	161	105
5	475	154	160	320	e250	725	332	1380	448	201	151	106
6	1120	134	158	294	e240	2170	308	1240	384	194	150	130
7	634	186	146	252	e230	1850	285	942	557	186	158	1170
8	359	355	133	e230	e250	1070	274	798	1480	221	187	1400
9	238	259	129	e220	496	652	261	744	2200	256	328	713
10	150	206	89	e210	436	536	255	1600	2110	242	252	435
11	119	378	e84	e200	436	475	251	4260	1300	208	175	347
12	111	1380	e81	e190	400	432	232	5590	1720	180	244	432
13	108	852	e78	e180	332	444	228	4660	2070	152	181	511
14	186	475	e76	e170	e290	479	235	3160	1840	156	165	307
15	217	409	286	e170	e270	517	259	1850	1830	256	151	237
16	174	398	254	e160	e250	524	672	1490	1260	367	184	217
17	214	328	192	e500	e240	461	627	2100	746	223	165	231
18	243	329	183	2940	e230	427	436	1990	549	215	133	357
19	212	480	235	4950	e220	641	362	1420	656	244	119	338
20	235	448	259	e4000	e600	2900	341	968	685	201	107	245
21	318	384	275	e1500	1500	2810	375	820	527	155	108	195
22	213	324	182	e1200	1300	1850	329	682	447	162	117	203
23	167	278	e170	e1000	925	1120	1500	579	395	180	165	322
24	139	250	e170	1780	891	782	3080	486	402	173	222	342
25	120	226	e160	1860	734	731	2770	438	1100	156	256	253
26	112	209	e160	1320	629	641	1620	391	810	165	172	202
27	114	204	e160	1620	1170	496	977	386	518	151	122	189
28	123	202	e150	1920	2640	431	650	468	370	138	145	989
29	109	191	e150	1260	2490	417	1260	426	321	138	124	1620
30	103	182	e150	789	---	378	3670	370	295	280	108	971
31	123	---	e140	581	---	357	---	333	---	450	100	---
TOTAL	7136	10054	5086	30628	18794	27779	23033	50871	26309	6687	5497	12852
MEAN	230	335	164	988	648	896	768	1641	877	216	177	428
MAX	1120	1380	286	4950	2640	2900	3670	5590	2200	450	362	1620
MIN	71	134	76	140	220	357	228	333	261	138	100	94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 1996, BY WATER YEAR (WY)

	202	304	430	543	720	891	736	515	390	306	230	215
MEAN	202	304	430	543	720	891	736	515	390	306	230	215
MAX	1206	1628	1621	1989	1659	1827	1591	1641	1852	1812	1273	1465
(WY)	1991	1986	1991	1952	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 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1938 - 1996

ANNUAL TOTAL	144366		224726									
ANNUAL MEAN	396		614									
HIGHEST ANNUAL MEAN									456			
LOWEST ANNUAL MEAN									661			1975
HIGHEST DAILY MEAN	4320	Jan 17				5590	May 12		245			1954
LOWEST DAILY MEAN	71	Oct 1				71	Oct 1		9360		Jul 6	1969
ANNUAL SEVEN-DAY MINIMUM	78	Sep 26				96	Dec 8		49		Jul 17	1988
INSTANTANEOUS PEAK FLOW						5730	May 12		53		Jul 12	1988
INSTANTANEOUS PEAK STAGE						11.92	May 12		10700		Jul 5	1969
INSTANTANEOUS LOW FLOW						66	Dec 10		16.43		Jul 5	1969
10 PERCENT EXCEEDS	841					1530			49		Jul 17	1988
50 PERCENT EXCEEDS	250					292			1060			
90 PERCENT EXCEEDS	104					138			230			
									101			

MUSKINGUM RIVER BASIN

03117500 SANDY CREEK AT WAYNESBURG, OH

LOCATION.--Lat 40°40'21", long 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, 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 above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	93	102	e64	e340	866	288	2040	203	204	93	57
2	26	109	89	e100	e300	704	349	1810	186	185	79	57
3	26	155	84	150	e260	588	302	1320	194	226	70	55
4	51	165	82	e140	e240	473	272	1050	256	206	63	54
5	72	132	79	e130	e220	396	308	873	267	173	60	52
6	243	113	77	e120	e200	1030	293	784	224	156	57	52
7	152	118	71	e110	e180	e880	259	640	331	142	56	112
8	92	139	65	e110	e180	e750	242	650	777	165	52	168
9	68	129	e58	e105	e330	e640	232	643	561	148	106	110
10	56	113	e52	e100	273	e500	226	903	472	132	91	123
11	49	142	e48	e95	293	e400	216	1490	387	123	66	98
12	45	362	e45	e90	275	e350	205	2740	484	116	57	85
13	43	283	e42	e88	e210	e400	196	1660	405	112	77	119
14	82	238	e70	e84	e190	444	208	1180	642	111	97	100
15	151	370	153	e80	e180	462	200	925	764	146	93	82
16	130	370	148	e78	e170	420	423	1000	504	159	94	75
17	101	285	112	e300	e160	365	486	1480	380	135	90	80
18	86	269	99	1690	e150	339	396	2410	324	126	83	87
19	78	331	116	e4300	e150	368	337	1170	1090	144	79	84
20	73	286	e110	e2000	e300	2250	326	822	944	132	76	74
21	81	248	e105	e1000	1410	2190	310	629	874	113	75	67
22	87	221	e100	e700	989	1500	267	625	637	110	71	65
23	83	196	e96	631	748	1040	468	465	438	104	70	78
24	76	175	e90	1160	643	750	995	377	381	97	78	80
25	76	157	e86	e960	531	576	796	342	915	94	77	71
26	81	145	e80	e740	467	494	649	295	501	92	69	81
27	82	141	e78	e1100	689	401	503	275	332	88	67	61
28	82	133	e74	e800	1090	360	397	368	272	82	65	133
29	77	121	e70	e620	1000	339	936	331	238	77	65	414
30	74	108	e68	e500	---	313	1990	267	218	83	63	214
31	79	---	e66	e390	---	287	---	227	---	114	59	---
TOTAL	2527	5847	2615	18535	12168	20875	13075	29791	14201	4095	2298	2988
MEAN	81.5	195	84.4	598	420	673	436	961	473	132	74.1	99.6
MAX	243	370	153	4300	1410	2250	1990	2740	1090	226	106	414
MIN	25	93	42	64	150	287	196	227	186	77	52	52
CFSM	.32	.77	.33	2.36	1.66	2.66	1.72	3.80	1.87	.52	.29	.39
IN.	.37	.86	.38	2.73	1.79	3.07	1.92	4.38	2.09	.60	.34	.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

	MEAN	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
MEAN	96.1	170	278	349	472	570	468	334	211	138	95.6	82.2	
MAX	476	1008	1104	1111	987	1179	867	961	750	651	871	513	
(WY)	1991	1986	1991	1952	1956	1945	1957	1996	1989	1990	1980	1975	
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 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1939 - 1996

	ANNUAL TOTAL	ANNUAL MEAN	HIGHEST ANNUAL MEAN	LOWEST ANNUAL MEAN	HIGHEST DAILY MEAN	LOWEST DAILY MEAN	ANNUAL SEVEN-DAY MINIMUM	INSTANTANEOUS PEAK FLOW	INSTANTANEOUS PEAK STAGE	INSTANTANEOUS LOW FLOW	ANNUAL RUNOFF (CFSM)	ANNUAL RUNOFF (INCHES)	10 PERCENT EXCEEDS	50 PERCENT EXCEEDS	90 PERCENT EXCEEDS
	67806	186			1290	25	26	5170	8.13	25	.73	9.97	369	141	39
	129015	352			4300	25	54	5170	Jan 19	25	1.39	18.97	887	171	67
					Jan 19	Oct 1	Dec 8	Jan 19 a	Jan 19	Oct 1			633	136	34
					11000	12	12	15000	10.05	6.9	1.07	14.56			
					Jan 22	Sep 18	Sep 18	Jan 22	Jan 22	Sep 12					
					1959	1963	1963	1959	1959	1971					

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

MUSKINGUM RIVER BASIN

63

03118000 MIDDLE BRANCH NIMISHILLEN CREEK AT CANTON, OH

LOCATION.--Lat 40°50'29", long 81°21'14" in NE 1/4 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.

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 above sea level.

REMARKS.--Records good except for estimated daily discharges, 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 1996, 12.5 ft³/s. At times low flow regulated by small pools above station. Water-quality data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	8.5	11	e7.8	e26	70	38	e220	e46	e38	e36	11
2	5.0	9.9	11	e9.8	e24	49	37	e150	e48	e36	28	11
3	8.1	11	11	e13	e22	45	34	e100	e76	e43	23	11
4	14	9.5	11	e12	e20	39	33	e90	e72	e37	21	11
5	24	8.5	9.8	e12	e19	50	32	e82	e64	e34	19	11
6	62	8.0	9.5	e11	e19	191	29	e76	e58	e32	18	11
7	42	11	9.0	e11	e18	141	27	e72	e110	e30	16	62
8	24	13	e8.3	e10	e26	e70	26	e70	e130	e54	26	71
9	17	12	e7.9	e9.8	e34	e50	25	e74	e110	e38	99	46
10	13	11	e7.6	e9.6	30	e38	23	e340	e90	e31	67	38
11	11	18	e7.3	e9.3	31	e35	21	e500	e96	e28	40	27
12	9.2	50	e7.1	e9.0	e27	e32	20	e400	e140	e25	37	e45
13	8.4	40	e7.0	e8.8	e24	e36	19	e170	e160	e33	29	e30
14	17	29	e8.8	e8.6	e21	41	20	e110	e350	e27	23	e27
15	21	30	14	e8.3	e20	49	22	e120	e210	e45	20	e18
16	18	32	14	e8.0	e19	50	43	e100	e100	e35	19	e16
17	14	28	12	e50	e18	43	44	e410	e80	e27	17	e22
18	11	28	11	341	e17	38	35	e200	e82	e31	16	e20
19	9.8	39	e14	e600	e16	52	29	e110	e130	e30	15	e16
20	9.7	36	e13	e250	96	371	26	e90	e94	e27	14	e14
21	10	29	e12	e100	231	288	24	e130	e68	e25	14	e13
22	9.7	24	e11	67	135	159	22	e98	e70	e24	14	e19
23	9.0	21	e11	46	88	104	81	e72	e60	e23	17	e18
24	8.4	18	e10	133	75	77	190	e66	e100	e22	20	e15
25	7.9	16	e10	143	62	65	107	e62	e170	e21	17	e13
26	7.5	15	e9.6	71	53	59	66	e58	e90	e20	15	e14
27	7.5	14	e9.2	131	75	51	51	e68	e60	e19	14	e13
28	7.9	14	e8.9	e60	183	46	41	e66	e50	e18	13	e90
29	7.7	12	e8.5	e35	125	43	e260	e58	e45	e23	12	e190
30	7.3	12	e8.2	e32	---	39	e350	e54	e41	e100	12	e100
31	8.5	---	e8.0	e28	---	36	---	e50	---	e45	12	---
TOTAL	434.5	607.4	310.7	2245.0	1554	2457	1775	4266	3000	1021	743	1003
MEAN	14.0	20.2	10.0	72.4	53.6	79.3	59.2	138	100	32.9	24.0	33.4
MAX	62	50	14	600	231	371	350	500	350	100	99	190
MIN	4.9	8.0	7.0	7.8	16	32	19	50	41	18	12	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1996, BY WATER YEAR (WY)

	13.3	23.6	37.3	47.2	59.6	72.4	60.6	45.4	33.8	24.2	17.7	15.8
MEAN	13.3	23.6	37.3	47.2	59.6	72.4	60.6	45.4	33.8	24.2	17.7	15.8
MAX	84.7	103	140	170	153	142	227	138	150	102	108	97.2
(WY)	1991	1986	1991	1952	1971	1951	1994	1996	1989	1972	1958	1990
MIN	.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 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1942 - 1996	
ANNUAL TOTAL	11776.9		19416.6			
ANNUAL MEAN	32.3		53.1		37.5	
HIGHEST ANNUAL MEAN					67.3	
LOWEST ANNUAL MEAN					16.0	
HIGHEST DAILY MEAN	493	Jan 16	600	Jan 19	1620	Jan 22 1959
LOWEST DAILY MEAN	4.9	Oct 1	4.9	Oct 1	.30	Sep 19 1962
ANNUAL SEVEN-DAY MINIMUM	5.2	Sep 26	7.7	Dec 8	.30	Dec 28 1962
INSTANTANEOUS PEAK FLOW			704	Jan 19 a	2470	Jan 22 1959
INSTANTANEOUS PEAK STAGE			5.58	Jan 19	6.62	Apr 13 1994
INSTANTANEOUS LOW FLOW			4.7	Oct 1	.20	Nov 9 1944
10 PERCENT EXCEEDS	63		113		82	
50 PERCENT EXCEEDS	22		28		19	
90 PERCENT EXCEEDS	7.3		9.3		4.1	

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

MUSKINGUM RIVER BASIN

03118500 NIMISHILLEN CREEK AT NORTH INDUSTRY, OH

LOCATION.--Lat 40°44'03", long 81°21'08", in sec. 35, T.10 N., R.8 W., Stark County, Hydrologic Unit 05040001, on left bank upstream abutment of Baun Rd. bridge, 400 ft northeast of Ridge St. in North Industry, 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 above sea level. Prior to Dec. 13, 1923, nonrecording gage at present site at different datum. Prior to Dec. 11, 1990, at site 0.9 mile downstream at datum 5.95 ft lower.

REMARKS.--Records good, except for periods of estimated record, which are fair. Low flow slightly regulated by plants at Canton. Records include diversion from Sugar Creek well field. Mean pumpage for the 1996 water year, 19.4 ft³/s. See REMARKS for station 03124500. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	112	112	e110	201	267	205	953	208	199	237	100
2	76	150	108	152	e170	232	189	688	236	193	167	99
3	247	150	106	139	e150	203	174	443	335	240	144	103
4	211	113	107	136	e150	184	180	421	335	180	135	102
5	442	102	106	128	e140	455	175	419	277	173	132	103
6	438	101	104	118	e135	786	158	399	255	168	132	122
7	168	178	103	115	e130	462	151	354	536	161	126	701
8	126	137	100	e110	200	297	152	333	686	356	345	246
9	112	120	99	e110	222	238	157	356	457	185	316	215
10	107	113	90	e105	184	212	150	1480	327	170	201	186
11	101	331	92	e105	205	214	145	2210	367	161	159	148
12	96	298	92	e100	178	217	136	1770	584	156	263	294
13	94	196	96	e98	161	225	131	757	623	188	179	221
14	361	186	197	e96	e150	235	128	506	1810	154	151	162
15	182	241	148	e94	e140	256	281	517	833	303	138	149
16	131	192	123	131	e140	233	249	495	446	184	135	139
17	115	164	110	728	e135	209	193	1710	348	161	128	191
18	108	211	118	1610	e130	202	165	849	357	181	122	183
19	103	218	127	2210	e130	513	154	492	666	185	122	149
20	146	179	122	1040	856	1850	148	387	372	154	120	136
21	132	160	121	460	668	804	134	632	300	143	120	130
22	105	147	114	322	402	475	181	394	315	162	120	186
23	103	134	112	347	333	356	813	322	261	149	150	184
24	98	124	109	1030	309	289	539	304	466	141	156	152
25	96	122	104	567	254	276	328	279	769	138	121	138
26	96	118	e100	375	261	246	266	256	363	136	117	131
27	102	120	e98	887	531	213	221	312	277	133	114	141
28	101	117	e96	501	712	205	199	306	244	127	114	1380
29	94	115	e94	332	381	196	1160	263	221	138	113	612
30	93	113	e92	269	---	186	1690	233	207	496	109	295
31	131	---	e90	233	---	176	---	219	---	262	104	---
TOTAL	4588	4762	3390	12758	7758	10912	8952	19059	13481	5877	4790	7098
MEAN	148	159	109	412	268	352	298	615	449	190	155	237
MAX	442	331	197	2210	856	1850	1690	2210	1810	496	345	1380
MIN	73	101	90	94	130	176	128	219	207	127	104	99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1996, BY WATER YEAR (WY)

	100	139	189	232	271	328	280	217	176	149	125	111
MEAN	100	139	189	232	271	328	280	217	176	149	125	111
MAX	438	649	733	843	586	569	584	615	689	483	445	452
(WY)	1991	1986	1991	1937	1981	1963	1994	1996	1989	1958	1935	1979
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 1995 CALENDAR YEAR			FOR 1996 WATER YEAR			WATER YEARS 1922 - 1996		
ANNUAL TOTAL	66553			103425					
ANNUAL MEAN	182			283			193		
HIGHEST ANNUAL MEAN							308		
LOWEST ANNUAL MEAN							72.4		
HIGHEST DAILY MEAN	2120			Jan 16			5390		
LOWEST DAILY MEAN	73			Oct 1			14		
ANNUAL SEVEN-DAY MINIMUM	78			Sep 26			20		
INSTANTANEOUS PEAK FLOW							8600		
INSTANTANEOUS PEAK STAGE							11.29		
INSTANTANEOUS LOW FLOW							3.6		
10 PERCENT EXCEEDS	306						373		
50 PERCENT EXCEEDS	138						121		
90 PERCENT EXCEEDS	91						54		

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

MUSKINGUM RIVER BASIN

65

03124500 SUGAR CREEK AT STRASBURG, OH

LOCATION.--Lat 40°35'15", long 81°31'24", in NW 1/4 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.

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 above sea level. July 29, 1931, to Mar. 31, 1933, and Dec. 10, 1934, to July 31, 1939, nonrecording gage, and Oct. 1, 1961, to 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 5.0 mi upstream, since August 1937. Part of municipal water supply for city of Canton, starting May 1962, is pumped from well field 4.3 mi upstream; pumpage is returned to Nimishillen Creek. Mean pumpage for water year 1996, 19.4 ft³/s. Water-quality data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	65	94	83	e250	846	277	1730	209	173	137	34
2	14	81	87	106	e290	529	286	1760	195	153	94	34
3	17	120	83	130	e290	412	261	1740	245	137	72	33
4	79	121	81	140	e290	292	244	1720	471	128	62	33
5	121	89	80	145	e180	347	256	1720	462	119	56	32
6	401	70	76	128	e130	867	239	1710	364	107	52	34
7	397	71	70	121	e125	1300	215	1240	460	101	50	192
8	158	147	58	e110	e160	814	200	694	1080	96	72	582
9	92	142	61	e100	e320	486	189	621	1420	91	506	304
10	67	103	47	e96	e320	402	181	740	1590	84	351	148
11	56	102	48	e92	e320	372	172	1200	1050	78	146	102
12	46	530	40	e88	269	368	162	1690	1160	75	109	82
13	41	536	41	e86	182	371	154	1740	1450	74	177	136
14	66	316	58	e82	e155	376	155	1750	1200	77	123	109
15	183	257	173	e130	e140	397	152	1760	826	90	89	80
16	123	229	167	e180	e130	387	268	1770	563	135	79	72
17	77	195	115	e360	e120	341	316	1790	428	98	82	102
18	59	190	98	e1400	e115	310	250	1730	380	92	66	159
19	52	264	95	e1300	e110	313	209	1640	473	139	58	125
20	50	251	93	e1700	e250	1250	191	854	464	118	54	92
21	72	207	130	e1850	1290	1610	184	535	338	83	52	74
22	93	177	117	e1800	1150	1730	167	574	278	78	52	69
23	68	154	105	e1800	714	1710	277	432	244	89	50	72
24	56	136	101	e1800	631	1230	1100	366	226	75	52	75
25	47	122	96	e1840	529	615	1190	366	537	69	54	66
26	44	114	91	e1800	415	517	665	320	387	68	48	60
27	45	113	85	e1800	583	414	422	288	255	62	44	55
28	48	111	83	e1800	1330	366	322	384	207	58	41	182
29	53	107	75	e1750	1540	347	502	361	182	56	39	793
30	49	99	70	e1200	---	318	1670	292	173	66	36	478
31	48	---	73	e460	---	290	---	239	---	151	34	---
TOTAL	2737	5219	2691	24477	12328	19927	10876	33756	17317	3020	2937	4409
MEAN	88.3	174	86.8	790	425	643	363	1089	577	97.4	94.7	147
MAX	401	536	173	1850	1540	1730	1670	1790	1590	173	506	793
MIN	14	65	40	82	110	290	152	239	173	56	34	32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 1996, BY WATER YEAR (WY)

	MEAN	92.5	188	313	407	497	652	501	312	230	194	158	103
MAX	583	929	1001	2025	1174	1297	953	1089	1008	2128	1219	1048	
(WY)	1991	1986	1978	1937	1981	1963	1980	1996	1981	1969	1935	1979	
MIN	.000	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 1995 CALENDAR YEAR				FOR 1996 WATER YEAR				WATER YEARS 1932 - 1996			
ANNUAL TOTAL	73500				139694							
ANNUAL MEAN	201				382							
HIGHEST ANNUAL MEAN									304			
LOWEST ANNUAL MEAN									520			
HIGHEST DAILY MEAN	1730				1850				10200			
LOWEST DAILY MEAN	14				14				.00			
ANNUAL SEVEN-DAY MINIMUM	17				33				.00			
INSTANTANEOUS PEAK FLOW					2100				19700			
INSTANTANEOUS PEAK STAGE					5.82				14.70			
INSTANTANEOUS LOW FLOW					12				.00			
10 PERCENT EXCEEDS	442				1290				800			
50 PERCENT EXCEEDS	113				158				130			
90 PERCENT EXCEEDS	27				54				26			

e Estimated

MUSKINGUM RIVER BASIN

03129000 TUSCARAWAS RIVER AT NEWCOMERSTOWN, OH

LOCATION.--Lat 40°15'41", long 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, 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 above sea level. 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. From Sept. 28, 1925 to Oct. 1, 1934, recording gage at 785.03 ft above sea level. Gage moved to current location Oct. 1, 1934. From Oct. 1, 1934 to July 17, 1935, recording gage at 780.03 ft above sea level. From July 18, 1935 to Feb. 13, 1939, non-recording gage at 780.03 ft above sea level. From Feb. 13, 1939 to present, recording gage at 780.00 ft above sea level.

REMARKS.--Records excellent except for periods of estimated record, which are fair. 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 collected at this site. U.S. Army of Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	349	604	1580	e660	7290	9260	2870	11900	3210	2680	1680	527
2	342	760	1540	e800	6590	7040	2970	11600	2830	2700	1360	513
3	341	908	1500	e1000	6230	5260	3020	10800	2830	2410	1150	500
4	466	1080	1470	e1300	5420	4140	2860	10200	3460	2110	974	493
5	1020	1060	1440	e1200	4250	4140	2950	9840	3710	1830	866	491
6	1900	875	1390	e1050	3330	5970	2940	9700	3410	1640	806	507
7	2800	811	1360	e960	2300	8590	2720	9220	3780	1500	767	775
8	1770	918	1330	e900	1840	8280	2530	8620	6110	1400	754	2700
9	1080	1140	1310	e850	2140	6420	2410	8640	7820	1530	1360	2900
10	833	1040	1260	e800	2640	4720	2310	9260	8090	1450	1890	1850
11	678	977	1170	e780	2240	4040	2200	10200	7010	1250	1320	1330
12	589	1880	e1100	e750	2180	3870	2070	12100	5830	1130	980	1120
13	537	3360	e1000	e720	1890	3810	1970	11100	6760	1060	1030	1260
14	629	2570	e1300	e700	1650	3740	1950	10700	6540	1030	1010	1390
15	1190	2070	1800	e680	1630	3690	1920	10400	6650	1110	875	1040
16	1160	2270	1830	e660	1500	3370	2470	10600	6420	1380	1050	884
17	925	2510	1370	e1000	1350	2840	3560	10700	5110	1530	935	974
18	784	2270	1120	e4500	1300	2560	3580	10600	3900	1390	951	1060
19	771	2260	e1050	11600	1280	2560	3170	10100	4720	1580	826	1230
20	731	2510	e1000	12400	1820	6770	2870	9620	5500	1870	751	1130
21	757	2570	e980	11800	4690	10100	2720	8780	5230	1710	705	928
22	892	2490	e940	10300	6620	10400	2650	8440	4430	1370	671	819
23	813	2330	e900	9390	5940	10100	2980	8190	3760	1250	659	780
24	704	2160	e860	10500	4930	8660	6230	8110	3490	1240	686	938
25	645	2060	e840	11000	4110	7020	8620	7660	5330	1190	803	941
26	597	1940	e800	10400	3480	6400	8390	7190	6050	1090	795	840
27	582	1890	e780	10400	4310	6020	6750	6950	4760	1020	733	766
28	620	1800	e750	10400	7950	4770	4810	6980	3290	974	631	1060
29	628	1590	e700	9890	9750	3900	5250	6940	2610	914	597	3720
30	605	1530	e690	9520	---	3420	10100	5520	2300	989	593	4660
31	580	---	e680	8290	---	3020	---	4340	---	1360	554	---
TOTAL	26318	52233	35840	155200	110650	174880	111840	285000	144940	45687	28762	38126
MEAN	849	1741	1156	5006	3816	5641	3728	9194	4831	1474	928	1271
MAX	2800	3360	1830	12400	9750	10400	10100	12100	8090	2700	1890	4660
MIN	341	604	680	660	1280	2560	1920	4340	2300	914	554	491

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1996, BY WATER YEAR (WY)

	944	1686	2564	3360	3925	4967	4342	3087	2112	1507	1152	967
MEAN	944	1686	2564	3360	3925	4967	4342	3087	2112	1507	1152	967
MAX	4257	7201	8471	16130	9762	11090	7909	9194	8339	7663	8648	4882
(WY)	1991	1986	1928	1937	1959	1945	1948	1996	1981	1969	1935	1926
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 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1922 - 1996

ANNUAL TOTAL	691523	1209476	
ANNUAL MEAN	1895	3305	
HIGHEST ANNUAL MEAN			2544
LOWEST ANNUAL MEAN			4227
HIGHEST DAILY MEAN	10700	Jan 17	1980
LOWEST DAILY MEAN	341	Oct 3	1931
ANNUAL SEVEN-DAY MINIMUM	357	Sep 27	45000
INSTANTANEOUS PEAK FLOW			170
INSTANTANEOUS PEAK STAGE			197
INSTANTANEOUS LOW FLOW			46800
10 PERCENT EXCEEDS	3650	8910	20.65
50 PERCENT EXCEEDS	1370	1880	216
90 PERCENT EXCEEDS	464	703	415

MUSKINGUM RIVER BASIN

67

03136500 KOKOSING RIVER AT MOUNT VERNON, OH

LOCATION.--Lat 40°24'20", long 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, 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 good, except for periods of estimated record and Oct. 1 - Dec. 14, which are 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, 10.0 mi upstream on North Branch Kokosing River, beginning in June 1972. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	62	136	e100	e210	e400	241	1720	246	102	199	50
2	45	86	133	e160	e180	e250	225	1080	226	98	134	48
3	55	120	127	e170	e150	e230	215	684	245	94	104	47
4	105	116	123	e150	e140	e210	208	568	272	88	89	47
5	255	98	116	e140	e130	403	230	631	357	85	79	47
6	702	87	111	e130	e120	1180	220	915	270	84	72	48
7	329	92	107	e120	e110	764	207	612	553	82	71	82
8	205	127	100	e110	e110	407	193	566	1510	85	67	87
9	151	125	e88	e100	e130	e340	182	1040	953	86	155	76
10	122	109	e80	e96	e180	e300	178	929	647	80	117	70
11	106	566	e90	e92	231	e260	170	2740	437	76	90	63
12	94	1190	e80	e88	207	237	163	3210	724	74	77	58
13	84	503	e72	e86	180	235	157	1290	615	75	72	54
14	82	311	e100	e82	168	236	155	1010	414	78	68	50
15	79	235	158	e80	155	249	161	835	316	82	67	49
16	78	175	146	122	e130	243	300	840	259	82	122	53
17	74	145	125	814	e120	224	348	1040	223	82	114	73
18	70	209	e110	2300	e110	209	286	729	205	116	91	71
19	68	289	e130	3150	129	327	241	515	198	198	77	64
20	65	214	e160	1540	441	1340	264	402	185	148	71	58
21	69	167	e150	927	802	821	347	356	169	108	70	54
22	66	138	e130	515	533	534	271	334	157	96	67	57
23	65	123	e120	438	422	420	1720	282	145	88	64	56
24	61	108	e110	1760	393	441	2340	270	142	81	88	54
25	60	98	e100	1210	329	457	1120	327	164	76	83	53
26	59	90	e96	631	389	409	628	283	147	72	72	50
27	60	87	e92	924	1190	319	436	305	131	68	64	51
28	60	161	e86	688	1800	281	350	687	121	66	60	198
29	59	156	e82	458	e800	266	1490	521	114	64	56	363
30	58	146	e78	341	---	253	2770	401	108	73	54	200
31	58	---	e74	280	---	239	---	297	---	235	51	---
TOTAL	3487	6133	3410	17802	9989	12484	15816	25419	10253	2922	2665	2331
MEAN	112	204	110	574	344	403	527	820	342	94.3	86.0	77.7
MAX	702	1190	160	3150	1800	1340	2770	3210	1510	235	199	363
MIN	43	62	72	80	110	209	155	270	108	64	51	47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 1996, BY WATER YEAR (WY)

	MEAN	64.3	147	236	278	350	422	385	270	181	154	83.4	67.3
MAX	275	635	979	1020	805	1068	845	820	586	636	438	587	
(WY)	1991	1973	1991	1959	1975	1963	1964	1996	1989	1990	1980	1979	
MIN	15.1	20.4	23.0	36.0	31.4	129	122	53.0	29.1	25.0	18.0	16.7	
(WY)	1964	1972	1964	1964	1964	1983	1971	1955	1955	1965	1988	1954	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1953 - 1996

ANNUAL TOTAL	92940	112711		
ANNUAL MEAN	255	308		
HIGHEST ANNUAL MEAN			221	
LOWEST ANNUAL MEAN			325	1973
HIGHEST DAILY MEAN	2440	Jan 16	78.7	1954
LOWEST DAILY MEAN	41	Sep 29	14600	Jan 21 1959
ANNUAL SEVEN-DAY MINIMUM	43	Sep 25	8.6	Aug 22 1988
INSTANTANEOUS PEAK FLOW			11	Sep 17 1985
INSTANTANEOUS PEAK STAGE			38000	Jan 21 1959
INSTANTANEOUS LOW FLOW			10.45	May 11 1959
10 PERCENT EXCEEDS	564		43	Oct 1
50 PERCENT EXCEEDS	157		482	
90 PERCENT EXCEEDS	58		103	
			30	

03139000 KILLBUCK CREEK AT KILLBUCK, OH

LOCATION.--Lat 40°28'53", long 81°59'10", Holmes County, Hydrologic Unit 05040003, on right bank at downstream side of U.S. Highway 62 bridge south of Killbuck, 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. WRD-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 and Oct. 1, 1949 to Oct. 5, 1976, water-stage recorder and nonrecording gage, at site 0.9 mi upstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	170	157	e120	886	1650	564	2500	455	303	242	86
2	66	198	150	e160	715	1520	574	2340	427	284	213	83
3	85	258	143	209	e520	1250	566	2290	466	261	183	82
4	232	242	142	303	e440	892	532	2110	616	242	163	86
5	277	217	151	348	e370	798	525	1800	586	225	153	85
6	815	193	136	292	e340	1280	474	1640	492	216	141	87
7	457	212	126	251	e320	1370	445	1440	668	204	130	813
8	336	285	110	e230	e370	1250	413	1330	1230	196	156	775
9	274	267	e98	e220	560	1080	388	1220	1640	189	988	569
10	226	241	e90	e210	492	825	369	1190	1740	179	421	456
11	192	403	e86	e200	522	691	346	1880	1540	170	277	380
12	172	835	e84	e190	471	639	331	2800	1530	164	278	325
13	162	581	e80	e180	411	606	324	2670	1550	163	280	318
14	161	517	e100	e170	e350	593	321	2480	1710	176	217	302
15	176	474	214	e170	e320	612	332	2310	1730	196	188	263
16	162	423	182	e160	e290	597	561	2110	1550	194	197	240
17	145	377	153	e600	e280	553	565	1870	1260	176	172	288
18	135	369	139	1840	e260	511	503	1700	964	211	157	267
19	128	371	176	2640	e250	667	458	1570	795	227	143	241
20	128	335	182	2730	e600	1940	442	1430	663	182	135	219
21	160	309	210	2460	1120	2090	424	1270	571	163	149	197
22	170	287	234	2290	961	1890	386	1130	505	162	135	193
23	154	260	e180	2060	915	1790	979	921	456	157	123	189
24	145	239	e160	2080	908	1640	1940	782	449	146	132	191
25	137	219	e155	2050	810	1420	1810	746	617	139	129	182
26	131	202	e150	1770	764	1230	1750	636	552	135	119	171
27	132	194	e140	1770	1150	1010	1610	618	480	129	109	168
28	139	187	e140	1810	1680	831	1320	736	414	124	101	653
29	141	174	e130	1650	1690	728	1430	646	367	119	96	778
30	135	164	e130	1460	---	647	2350	561	330	184	90	637
31	139	---	e125	1210	---	588	---	499	---	303	86	---
TOTAL	5981	9203	4453	31833	18765	33188	23032	47225	26353	5919	6103	9324
MEAN	193	307	144	1027	647	1071	768	1523	878	191	197	311
MAX	815	835	234	2730	1690	2090	2350	2800	1740	303	988	813
MIN	66	164	80	120	250	511	321	499	330	119	86	82
CFSM	.42	.66	.31	2.21	1.39	2.31	1.65	3.28	1.89	.41	.42	.67
IN.	.48	.74	.36	2.55	1.50	2.66	1.85	3.79	2.11	.47	.49	.77

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

MEAN	133	225	371	551	670	868	749	520	394	287	201	146
MAX	1015	1286	1509	2416	1648	1685	1400	1523	2281	3960	2147	1473
(WY)	1991	1986	1991	1937	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 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1931 - 1996

ANNUAL TOTAL	132169		221379				
ANNUAL MEAN	362		605			425	
HIGHEST ANNUAL MEAN						695	1969
LOWEST ANNUAL MEAN						128	1931
HIGHEST DAILY MEAN	2150	Jan 19	2800	May 12	37200	Jul 6	1969
LOWEST DAILY MEAN	66	Oct 2	66	Oct 2	23	Sep 10	1954
ANNUAL SEVEN-DAY MINIMUM	70	Sep 5	85	Aug 31	23	Sep 8	1954
INSTANTANEOUS PEAK FLOW			2910	Jan 19 a	47500	Jul 5	1969
INSTANTANEOUS PEAK STAGE			16.53	Jan 19	26.40	Jul 5	1969
INSTANTANEOUS LOW FLOW			66	Oct 2	23	Sep 10	1954
ANNUAL RUNOFF (CFSM)	.78		1.30		.92		
ANNUAL RUNOFF (INCHES)	10.60		17.75		12.44		
10 PERCENT EXCEEDS	778		1680		1090		
50 PERCENT EXCEEDS	242		324		205		
90 PERCENT EXCEEDS	86		132		56		

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

MUSKINGUM RIVER BASIN

69

03140000 MILL CREEK NEAR COSHOCTON, OH

LOCATION.--Lat 40°21'46", long 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.

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 above sea level.

REMARKS.--Records fair, except for Oct. 1 to Dec. 4 and for periods of estimated record, which are poor. Water-quality data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	2.8	e6.2	e5.0	e15	58	31	182	18	8.0	4.5	.85
2	.41	5.0	e5.6	e7.0	e13	49	28	144	19	7.1	3.4	.78
3	.64	3.7	e4.8	e11	e12	39	26	95	33	6.6	3.0	.78
4	4.4	2.4	e4.4	e10	e10	36	26	82	43	5.9	2.6	.85
5	19	2.3	4.6	e9.2	e9.4	71	28	79	31	5.2	2.2	.85
6	29	4.4	4.3	e8.0	e9.0	156	24	91	31	4.9	2.1	.86
7	1.9	10	3.7	e7.2	e8.6	e94	23	67	109	4.6	1.9	23
8	2.0	7.8	3.5	e6.4	e13	e48	21	66	101	4.6	3.8	5.1
9	1.7	5.2	3.5	e6.0	e21	e38	20	133	148	4.1	5.3	2.9
10	1.5	e4.0	e2.0	e5.6	e18	e30	19	98	70	3.6	2.5	2.3
11	1.4	33	1.9	e5.2	28	e51	18	314	53	3.3	1.9	2.0
12	1.2	26	1.9	e4.8	18	41	17	173	52	3.3	1.9	2.0
13	1.1	8.5	e1.8	e4.6	e13	40	17	106	80	3.7	2.6	2.8
14	17	7.4	e2.8	e4.4	e10	40	16	80	72	3.8	2.1	2.2
15	5.8	7.5	16	e4.2	e9.0	40	24	83	49	7.1	4.6	1.9
16	1.8	7.5	9.7	e4.0	e8.0	35	42	85	35	4.4	6.4	2.4
17	1.4	8.2	6.6	e14	e7.4	34	33	79	30	8.4	2.6	13
18	1.6	13	6.6	e25	e7.0	31	29	65	26	28	1.9	4.6
19	1.8	13	19	590	e8.0	150	28	55	33	15	1.6	3.1
20	1.9	11	26	121	126	316	28	46	23	6.2	1.4	2.3
21	3.8	11	18	66	65	141	24	41	18	4.5	1.4	2.1
22	2.1	9.7	12	50	53	97	22	36	16	5.2	1.4	2.1
23	e1.8	9.0	e10	70	53	74	136	31	14	4.1	1.3	2.8
24	e1.6	8.0	e8.8	276	55	62	100	30	25	3.3	1.2	2.6
25	e1.5	7.5	e7.8	102	42	56	63	32	24	3.7	1.0	2.1
26	e1.4	7.8	e7.0	68	68	46	51	25	15	3.4	.96	1.9
27	2.2	8.2	e6.4	133	192	40	40	33	12	3.1	.83	1.9
28	3.1	9.4	e5.8	69	193	38	35	39	11	2.7	.84	51
29	2.7	8.0	e5.4	e36	85	36	295	30	9.4	2.3	.98	17
30	2.1	e7.0	e5.0	e26	---	32	426	23	8.6	5.8	.94	8.2
31	e1.7	---	e4.8	e18	---	31	---	20	---	16	.85	---
TOTAL	120.01	268.3	225.9	1766.6	1169.4	2050	1690	2463	1209.0	191.9	70.00	166.27
MEAN	3.87	8.94	7.29	57.0	40.3	66.1	56.3	79.5	40.3	6.19	2.26	5.54
MAX	29	33	26	590	193	316	426	314	148	28	6.4	51
MIN	.41	2.3	1.8	4.0	7.0	30	16	20	8.6	2.3	.83	.78
CFSM	.14	.33	.27	2.10	1.48	2.43	2.07	2.92	1.48	.23	.08	.20
IN.	.16	.37	.31	2.42	1.60	2.80	2.31	3.37	1.65	.26	.10	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	MIN	(WY)
1937	6.85	56.4	.10	1964
1938	15.1	92.1	.42	1954
1939	28.8	138	.60	1964
1940	41.9	206	1.49	1977
1941	49.7	106	2.69	1954
1942	58.5	174	15.2	1969
1943	54.4	134	7.87	1971
1944	32.7	79.5	5.59	1986
1945	23.5	102	1.28	1988
1946	15.4	161	.57	1944
1947	7.64	73.9	.28	1962
1948	6.56	96.1	.14	1963

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1937 - 1996

	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1937 - 1996
ANNUAL TOTAL	7502.61	11390.38	
ANNUAL MEAN	20.6	31.1	28.0
HIGHEST ANNUAL MEAN			54.5
LOWEST ANNUAL MEAN			7.66
HIGHEST DAILY MEAN	459	590	2360
LOWEST DAILY MEAN	.41	.41	.00
ANNUAL SEVEN-DAY MINIMUM	.49	.83	.06
INSTANTANEOUS PEAK FLOW		1200	8720
INSTANTANEOUS PEAK STAGE		10.22	15.38
INSTANTANEOUS LOW FLOW		.36	.00
ANNUAL RUNOFF (CFSM)	.76	1.14	1.03
ANNUAL RUNOFF (INCHES)	10.26	15.58	13.99
10 PERCENT EXCEEDS	50	79	64
50 PERCENT EXCEEDS	8.4	9.5	10
90 PERCENT EXCEEDS	1.1	1.8	1.0

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

LOCATION.--Lat 40°14'54", long 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, and 2 mi downstream from confluence of Tuscarawas and Walhonding Rivers.

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 above sea level. Prior to Sept. 19, 1936, nonrecording gage and Sept. 20, 1936 to Sept. 30, 1977, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.--Records excellent except for period of estimated record, which is fair. Flow regulated by 13 flood-control reservoirs at points 19 mi to 88 mi upstream. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	793	1300	2710	e1600	16600	19200	6260	22000	11200	4090	3130	1080
2	772	1630	2690	e1800	15000	16900	6900	22300	8720	4090	2710	1050
3	795	2120	2700	e2200	e12000	13900	7060	21300	6790	3910	2350	1010
4	1090	2340	2630	e2600	e9800	10700	6590	20800	7300	3530	2040	1000
5	1930	2280	2570	e2250	e7000	9190	6440	20100	7790	3180	1820	991
6	6260	2010	2530	e2000	e5600	12600	6310	20600	7420	2890	1690	1010
7	6440	1910	2450	e1750	e4500	16800	5860	19800	8110	2680	1600	1800
8	4270	2240	2340	e1600	e4000	16800	5420	18600	13000	2540	1520	4880
9	2970	2510	2310	e1500	e5000	13900	5020	19100	17900	2560	2060	5000
10	2340	2410	2070	e1450	5690	10400	4740	19300	17700	2550	3330	3620
11	1950	2380	e2000	e1400	5290	8450	4500	21000	16300	2320	2530	2880
12	1700	7010	e1900	e1350	5050	7450	4250	23100	14600	2150	1990	2450
13	1530	8090	e1800	e1300	4460	7090	4040	24000	15300	2050	1900	2230
14	1640	7070	e2400	e1300	3990	6870	3990	23000	14700	2010	1950	2600
15	1990	5770	3430	e1250	3790	6820	3870	22000	13300	2090	1740	2190
16	2110	5270	3520	e1200	3510	6560	4790	22400	13100	2230	2120	1890
17	1820	5130	2980	e2200	3140	5840	6220	22100	11100	2500	1890	2020
18	1590	4820	2520	e8000	2990	5320	6440	21400	8900	2690	1790	2210
19	1500	4870	e2200	24500	2960	5410	5860	20900	8770	3150	1630	2180
20	1460	5110	e2100	24800	3900	15100	5410	20000	8970	3180	1480	2140
21	1520	4920	e2000	18100	9240	20100	5400	18900	8680	2980	1400	1870
22	1700	4710	e1900	18900	11800	21400	5290	17900	7480	2590	1360	1680
23	1660	4250	e1800	20700	10700	20800	6530	17300	6560	2300	1310	1600
24	1470	3900	e1700	22200	9550	17400	14000	16800	5900	2190	1410	1640
25	1370	3630	e1650	22600	8420	15300	17900	16300	7840	2110	1780	1720
26	1290	3310	e1600	21800	7670	13900	18400	15500	8390	2010	1560	1640
27	1270	3200	e1550	21500	10600	12600	16600	15200	7630	1880	1480	1500
28	1290	3150	e1500	21100	17200	10500	13600	15400	5760	1790	1330	2070
29	1360	2930	e1450	20400	18800	8560	14700	15400	4760	1710	1230	6470
30	1330	2750	e1400	19600	---	7610	21200	14500	4100	1750	1190	7770
31	1270	---	e1400	18300	---	6730	---	12900	---	2570	1130	---
TOTAL	60480	113020	67800	311250	228250	370200	243590	599900	298070	80270	56450	72191
MEAN	1951	3767	2187	10040	7871	11940	8120	19350	9936	2589	1821	2406
MAX	6											

MEAN	1707	3019	4663	6371	7934	9864	8902	6216	4559	3191	2148	1725
MAX	7981	12310	14860	30880	20990	21070	16400	19350	17480	16640	12430	9765
(WY)	1991	1986	1991	1937	1959	1945	1957	1996	1947	1969	1980	1979
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

ANNUAL TOTAL	1568707		2501471			
ANNUAL MEAN	4298		6835		5010	
HIGHEST ANNUAL MEAN					7545	1980
LOWEST ANNUAL MEAN					2082	1954
HIGHEST DAILY MEAN	21700	Jan 16	24800	Jan 20	77900	Jan 26 1937
LOWEST DAILY MEAN	772	Oct 2	772	Oct 2	420	Sep 13 1954
ANNUAL SEVEN-DAY MINIMUM	815	Sep 27	1040	Aug 31	452	Sep 26 1954
INSTANTANEOUS PEAK FLOW			27100	Jan 19	78700	Jan 26 1937
INSTANTANEOUS PEAK STAGE			16.40	Jan 19	21.98	Jan 26 1937
INSTANTANEOUS LOW FLOW			741	Oct 3	420	Sep 13 1954
10 PERCENT EXCEEDS	8570		18800		12900	
50 PERCENT EXCEEDS	3070		3830		2920	
90 PERCENT EXCEEDS	1100		1460		854	

MUSKINGUM RIVER BASIN

03144000 WAKATOMIKA CREEK NEAR FRAZEYSBURG, OH

LOCATION.--Lat 40°07'57", long 82°08'53", in NW 1/4 sec. 13, T.3 N., R.9 W., Muskingum County, Hydrologic Unit 05040004, on right bank 2.0 mi northwest of Frazeyburg, 2.0 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 above sea level. Prior to Oct. 31, 1936, nonrecording gage at same site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e5.8	21	35	e38	e150	393	160	1580	100	32	40	8.5
2	5.8	45	35	e50	e130	302	163	971	92	30	26	8.4
3	5.8	48	32	e105	e120	243	148	614	126	27	22	8.0
4	10	38	e31	e100	e110	231	141	555	215	25	20	8.2
5	16	30	e29	e76	e100	229	151	566	163	24	18	8.1
6	249	25	e28	e62	e90	866	138	885	138	22	17	11
7	69	34	e27	e56	e84	666	132	538	428	21	16	166
8	39	59	e26	e52	e100	e400	129	458	600	21	16	104
9	26	46	e25	e48	e140	e300	121	1050	702	20	22	44
10	21	40	e25	e45	174	e250	113	820	398	19	17	31
11	18	66	e25	e44	143	e220	106	1050	271	18	15	24
12	16	325	e29	e43	126	e210	101	1330	330	17	18	21
13	15	143	e35	e41	e110	201	97	653	297	16	22	19
14	16	104	58	e40	e100	192	92	431	210	16	18	17
15	28	83	80	e39	e92	193	86	393	167	24	16	16
16	25	68	59	e39	e88	176	205	727	146	30	40	17
17	18	60	50	e160	e82	164	187	1500	134	25	31	52
18	16	59	44	1660	e76	153	159	672	125	172	19	46
19	15	60	85	3460	e70	290	151	432	116	184	15	29
20	16	53	161	822	e110	1900	148	318	95	74	13	22
21	36	51	125	e500	e350	1070	156	253	77	46	15	19
22	40	48	e100	e300	e280	603	141	209	66	47	15	20
23	26	45	e80	221	e250	422	513	174	58	42	13	20
24	21	43	e66	1290	e240	344	1080	163	51	35	17	19
25	19	39	e56	711	200	306	504	163	66	41	14	18
26	18	38	e50	385	324	262	360	137	55	35	12	16
27	19	39	e47	686	1350	209	273	134	44	27	11	17
28	23	43	e45	429	1510	193	212	169	40	23	10	209
29	26	40	e43	291	689	187	1590	167	38	22	9.7	187
30	25	36	e40	231	---	169	3930	148	36	27	9.2	81
31	22	---	e39	e180	---	159	---	115	---	49	8.7	---
TOTAL	905.4	1829	1610	12204	7388	11503	11487	17375	5384	1211	555.6	1266.2
MEAN	29.2	61.0	51.9	394	255	371	383	560	179	39.1	17.9	42.2
MAX	249	325	161	3460	1510	1900	3930	1580	702	184	40	209
MIN	5.8	21	25	38	70	153	86	115	36	16	8.7	8.0
CFSM	.21	.44	.37	2.81	1.82	2.65	2.73	4.00	1.28	.28	.13	.30
IN.	.24	.49	.43	3.24	1.96	3.06	3.05	4.62	1.43	.32	.15	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1937 - 1996, BY WATER YEAR (WY)

	MEAN	37.5	87.0	154	222	257	311	301	192	113	82.1	59.1	38.2
MAX	155	396	786	1219	560	883	654	601	491	432	720	617	
(WY)	1987	1986	1991	1937	1990	1963	1940	1968	1937	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 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1937 - 1996

ANNUAL TOTAL	45209.8	72718.2	
ANNUAL MEAN	124	199	154
HIGHEST ANNUAL MEAN			270
LOWEST ANNUAL MEAN			51.9
HIGHEST DAILY MEAN	3600	Jan 16	8910
LOWEST DAILY MEAN	5.8	Oct 1	2.6
ANNUAL SEVEN-DAY MINIMUM	6.4	Sep 27	2.7
INSTANTANEOUS PEAK FLOW			4770
INSTANTANEOUS PEAK STAGE			8.38
INSTANTANEOUS LOW FLOW			5.8
ANNUAL RUNOFF (CFSM)	.88		1.42
ANNUAL RUNOFF (INCHES)	12.01		19.32
10 PERCENT EXCEEDS	266		501
50 PERCENT EXCEEDS	62		66
90 PERCENT EXCEEDS	13		16

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

MUSKINGUM RIVER BASIN

73

03145000 SOUTH FORK LICKING RIVER NEAR HEBRON, OH

LOCATION.--Lat 39°59'19", long 82°28'30", in NW 1/4 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, 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 good, 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 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 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	26	136	e100	e150	e160	101	1920	330	24	86	7.1
2	8.4	102	131	383	e130	e120	149	1100	293	21	62	7.0
3	17	107	127	294	e110	e100	111	514	124	17	29	7.0
4	47	60	124	e170	e100	94	99	503	644	16	25	7.3
5	115	41	121	e130	e90	159	260	759	344	15	22	7.3
6	521	33	116	e110	e84	1110	158	1140	244	14	18	11
7	133	53	114	e100	e78	560	136	653	851	14	16	23
8	67	98	e82	e92	e74	e200	116	554	1590	13	21	16
9	46	61	e74	e86	234	e110	92	2180	957	12	47	14
10	36	47	e70	e80	173	e100	81	2250	588	11	34	9.1
11	30	210	e64	e76	195	120	74	1770	313	11	24	8.9
12	25	527	e62	e72	156	141	70	1680	256	11	27	8.8
13	20	162	e60	e70	e120	141	60	875	451	14	20	8.2
14	21	115	e150	e70	e100	128	51	440	207	14	17	7.4
15	21	89	235	e70	e90	189	64	602	164	20	14	7.2
16	20	98	150	e90	e80	167	242	1590	162	14	14	15
17	20	177	124	516	e76	132	244	978	140	12	11	56
18	18	183	120	1520	e70	106	157	506	126	115	11	31
19	17	194	406	1460	e80	356	143	358	144	85	11	15
20	20	196	344	618	646	1480	285	302	152	36	11	11
21	27	226	210	351	605	963	275	228	106	22	11	9.1
22	26	241	e150	264	334	657	210	156	47	64	10	15
23	27	281	e120	460	303	546	709	137	40	46	14	15
24	24	274	e110	1490	306	601	949	130	37	44	15	14
25	24	264	e100	1060	231	551	375	123	39	311	11	11
26	22	257	e90	505	531	362	265	105	34	85	9.6	9.2
27	22	253	e84	1040	1390	129	224	116	31	43	9.2	9.5
28	24	239	e76	717	1650	111	194	164	27	32	8.3	268
29	25	230	e70	e300	609	100	1300	699	25	28	8.0	180
30	27	208	e66	e220	---	88	2120	854	23	94	7.8	67
31	30	---	e60	e180	---	82	---	409	---	139	7.4	---
TOTAL	1488.5	5052	3946	12694	8795	9863	9314	23795	8489	1397	631.3	875.1
MEAN	48.0	168	127	409	303	318	310	768	283	45.1	20.4	29.2
MAX	521	527	406	1520	1650	1480	2120	2250	1590	311	86	268
MIN	8.1	26	60	70	70	82	51	105	23	11	7.4	7.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

	MEAN	42.6	186	204	193	253	262	243	175	128	95.5	66.4	49.5
MAX	177	858	666	460	536	860	616	768	536	572	503	607	
(WY)	1976	1986	1991	1991	1990	1945	1970	1996	1990	1992	1979	1979	
MIN	4.79	3.50	7.77	12.7	32.7	27.2	25.6	4.07	8.42	4.92	3.48	4.70	
(WY)	1945	1945	1944	1944	1944	1941	1941	1941	1988	1944	1942	1991	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1940 - 1996

ANNUAL TOTAL	58001.5	86339.9	
ANNUAL MEAN	159	236	158
HIGHEST ANNUAL MEAN			273
LOWEST ANNUAL MEAN			56.9
HIGHEST DAILY MEAN	2080	2250	4500
LOWEST DAILY MEAN	8.1	7.0	.00
ANNUAL SEVEN-DAY MINIMUM	10	7.3	.87
INSTANTANEOUS PEAK FLOW		2500	5200
INSTANTANEOUS PEAK STAGE		10.65	12.10
INSTANTANEOUS LOW FLOW		6.9	.00
10 PERCENT EXCEEDS	349	612	427
50 PERCENT EXCEEDS	66	100	47
90 PERCENT EXCEEDS	17	12	7.9

03146500 LICKING RIVER NEAR NEWARK, OH

LOCATION.--Lat 40°03'33", long 82°20'23", in T.2 N., R.11 W., Licking County, Hydrologic Unit 05040006, on right bank at downstream side of Stadden Bridge, 1.0 mi downstream from Shawnee Run, 1.5 mi upstream from Equality Run, and 3.5 mi east of Newark.

DRAINAGE AREA. - - 537 mi

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 collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	125	144	308	e250	e600	1310	726	6320	809	164	243	82
2	126	234	299	e780	e500	975	862	4110	758	157	210	80
3	186	344	287	e600	e450	766	754	2500	725	149	180	81
4	208	287	282	e450	e400	608	719	2320	1970	143	168	80
5	379	221	275	e360	e370	788	1110	3150	1470	138	e150	77
6	2280	187	268	e320	e360	4210	909	3920	892	136	e140	94
7	805	215	259	e300	e350	e1500	799	2390	3470	129	e130	144
8	441	424	e220	e260	e400	e900	723	1960	4130	128	130	91
9	316	315	e140	e250	681	e680	650	6110	3140	128	196	85
10	252	253	e120	e230	531	e600	595	4720	2040	128	152	78
11	215	756	e110	e230	603	e660	555	5600	1340	128	131	72
12	195	2420	e100	e230	518	727	527	6060	1150	127	138	71
13	172	878	e150	e220	e380	733	509	2970	1350	127	129	72
14	177	591	302	e220	e350	714	479	1930	905	144	123	69
15	167	481	547	e220	e330	814	537	2660	757	132	118	66
16	165	396	423	e300	e310	765	1200	4970	670	127	118	86
17	158	438	337	2390	e300	661	1160	3560	622	134	114	174
18	150	452	323	6800	e290	571	797	2170	602	338	110	108
19	146	508	795	10700	307	1320	702	1560	628	733	107	83
20	165	467	871	3660	1760	6360	1040	1260	675	299	102	73
21	162	474	586	1700	2060	3410	1150	1050	510	161	102	70
22	155	459	e350	1080	e1000	2390	879	875	349	188	100	87
23	152	484	e270	1350	e860	1960	3620	785	305	167	100	73
24	151	473	e230	5960	e760	2060	5200	723	292	140	103	74
25	144	448	e210	e2000	e720	1890	2260	679	271	836	97	71
26	144	439	e200	e1300	e1100	1520	1560	630	249	328	92	69
27	144	434	e190	3830	e5800	976	1220	649	211	206	90	70
28	147	430	e170	2310	5680	862	981	941	192	187	89	654
29	147	405	e170	1380	2410	810	6460	1660	181	168	87	619
30	148	390	e160	e1000	- - -	744	12700	1660	171	209	85	228
31	147	- - -	e160	e700	- - -	687	- - -	1010	- - -	337	84	- - -
TOTAL	8469	14447	9112	51380	30180	42971	51383	80902	30834	6616	3918	3781
MEAN	273	482	294	1657	1041	1386	1713	2610	1028	213	126	126
MAX	2280	2420	871	10700	5800	6360	12700	6320	4130	836	243	654
MIN	125	144	100	220	290	571	479	630	171	127	84	60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

MEAN	170	436	670	857	1039	1182	1049	711	533	373	255	174
MAX	914	2402	2867	2926	2577	3454	2404	2610	2151	2115	2017	2207
(WY)	1987	1986	1991	1950	1990	1963	1940	1996	1989	1990	1979	1979
MIN	39.5	41.1	43.1	65.0	59.5	207	165	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 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1940 - 1996

ANNUAL TOTAL	250757		333993			
ANNUAL MEAN	687		913		618	
HIGHEST ANNUAL MEAN					1138	1990
LOWEST ANNUAL MEAN					156	1954
HIGHEST DAILY MEAN	11100	Jan 16	12700	Apr 30	25600	Jan 22 1959
LOWEST DAILY MEAN	100	Dec 12	66	Sep 15	28	Sep 27 1954
ANNUAL SEVEN-DAY MINIMUM	119	Jan 5	73	Sep 9	31	Sep 26 1954
INSTANTANEOUS PEAK FLOW			14200	Apr 30 a	45000	Jan 21 1959
INSTANTANEOUS PEAK STAGE			12.96	Apr 30	20.30	Jan 21 1959
INSTANTANEOUS LOW FLOW			66	Sep 15	28	Sep 27 1954
10 PERCENT EXCEEDS	1470		2310		1450	
50 PERCENT EXCEEDS	342		385		254	
90 PERCENT EXCEEDS	140		103		67	

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

MUSKINGUM RIVER BASIN

75

03150300 MUSKINGUM RIVER NEAR BEVERLY, OH

LOCATION.--Lat 39°34'50", long 81°40'17", Washington County, Hydrologic Unit 05040004, on right bank, 400 ft upstream from Olive Green Creek, 2.0 mi downstream from Meigs Creek and 2.5 mi northwest of Beverly, OH.

DRAINAGE AREA.--7,627 mi².

PERIOD OF RECORD.--April 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.92 ft above sea level. Water-quality sampling site previously located 0.8 mi upstream.

REMARKS.--Records good except for estimated daily discharges and those below 2,500 ft³/s, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	966	1750	3720	2860	29800	33000	11100	34600	21100	4840	4350	e1550
2	954	2000	3550	3660	28000	32100	11000	33600	19100	4720	4320	e1500
3	957	2130	3520	6500	25100	29000	11000	31600	17100	4620	3840	e1500
4	974	2570	3500	4910	21200	21900	11600	33200	17600	4410	3490	e1450
5	1180	2830	3510	e3900	18200	17400	11300	36300	19100	4020	3070	1370
6	2550	2780	3240	e3600	15200	25300	10700	40200	16400	3700	2760	1380
7	8530	2660	3190	e3300	13300	30800	10100	33600	16900	3260	2440	1740
8	8040	2450	3120	e3000	9480	29700	9320	33000	24700	2990	2270	2800
9	5070	2620	2910	e2800	9590	25300	8600	47900	39300	2760	3500	5180
10	3800	2960	2770	e2600	9660	21100	7730	36800	30600	2880	2990	4990
11	2910	3100	2190	e2800	9320	17400	7190	35100	29400	2710	3820	3940
12	2260	4120	1860	e3100	8600	15400	6850	35800	30200	2510	3170	3270
13	1990	10700	1950	e3200	7540	13600	6560	32800	25000	2370	2900	3010
14	2180	11400	2630	e3300	6830	12900	6270	33000	23000	2450	2830	2800
15	2450	8240	3860	e3400	6120	14000	6090	35100	19900	2580	2850	3010
16	2410	7000	5580	3650	5720	13900	7560	42400	18000	3390	2720	2820
17	2590	6540	5370	5580	5320	12900	9480	35300	16300	3040	2780	3220
18	2330	6520	4970	14200	5000	11900	10400	34000	13700	5190	2590	2870
19	1990	6300	7180	40900	4580	11800	10200	33100	12900	8120	2360	2770
20	1860	6370	7230	39600	6290	24000	9260	32200	12300	6470	2100	2710
21	1780	6820	6210	28600	11400	35800	8750	32300	12000	6120	1960	2780
22	1760	6410	5720	20800	16800	36500	8470	32000	10700	5900	1850	2510
23	1860	6130	4630	27800	17100	34800	9720	31100	9200	4950	1810	2260
24	1840	5610	4530	44400	16700	34900	15900	30500	8050	4100	1870	2070
25	1700	5330	4640	36100	15000	31000	24000	29900	7920	5150	1850	2000
26	1580	5070	4180	34400	14100	25500	25800	28600	9430	4750	2030	2000
27	1520	4490	3240	35200	21700	21700	23400	28200	9440	4120	1910	1950
28	1530	4430	2980	35300	35900	18700	20900	28500	8060	3570	1810	2460
29	1530	4360	2970	33600	34600	16100	22900	32900	6340	3720	e1700	4150
30	1580	4110	2920	32700	---	13500	38500	29500	5530	3810	e1650	7350
31	1760	---	2860	31700	---	12000	---	24700	---	5240	e1600	---
TOTAL	74431	147800	120730	517460	428150	693900	380650	1037800	509270	128460	81190	83410
MEAN	2401	4927	3895	16690	14760	22380	12690	33480	16980	4144	2619	2780
MAX	8530	11400	7230	44400	35900	36500	38500	47900	39300	8120	4350	7350
MIN	954	1750	1860	2600	4580	11800	6090	24700	5530	2370	1600	1370
MED	1860	4460	3510	5580	13300	21700	10100	33000	16600	4020	2590	2740
CFSM	.31	.65	.51	2.19	1.94	2.93	1.66	4.39	2.23	.54	.34	.36
IN.	.36	.72	.59	2.52	2.09	3.38	1.86	5.06	2.48	.63	.40	.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	1753	5604	6337	12970	14420	16730	14900	15240	8364	4155	3319	1980
MAX	2401	8783	9699	16690	20870	22380	22910	33480	16980	4955	5779	2780
(WY)	1996	1994	1994	1996	1994	1996	1994	1996	1996	1993	1995	1996
MIN	1275	3101	3895	8396	7624	10840	7778	5745	2900	3666	1865	1255
(WY)	1995	1995	1996	1994	1995	1995	1995	1994	1994	1994	1993	1995

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1993 - 1996
ANNUAL TOTAL	2561191	4203251	
ANNUAL MEAN	7017	11480	9053
HIGHEST ANNUAL MEAN			11480
LOWEST ANNUAL MEAN			6900
HIGHEST DAILY MEAN	34100	Jan 17	47900
LOWEST DAILY MEAN	954	Oct 2	954
ANNUAL SEVEN-DAY MINIMUM	997	Sep 28	1480
INSTANTANEOUS PEAK FLOW			55700
INSTANTANEOUS PEAK STAGE			13.12
INSTANTANEOUS LOW FLOW			954
ANNUAL RUNOFF (CFSM)	.92	1.51	1.19
ANNUAL RUNOFF (INCHES)	12.49	20.50	16.13
10 PERCENT EXCEEDS	14500	32700	23400
50 PERCENT EXCEEDS	4830	5720	4630
90 PERCENT EXCEEDS	1530	1950	1690

HOCKING RIVER BASIN

03157000 CLEAR CREEK NEAR ROCKBRIDGE, OH

LOCATION.--Lat 39°35'18", long 82°34'43", in NE 1/4 sec. 20, T.13 N., R.18 W., Hocking County, Hydrologic Unit 05030204, on left bank at upstream side of county road bridge, 400 ft downstream from unnamed right bank tributary, 2.0 mi upstream from mouth, and 3 mi west of Rockbridge.

DRAINAGE AREA.--89.0 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1305: 1940(M), 1943(M), 1945(M). WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 760.13 ft above sea level. Prior to May 2, 1940, nonrecording gage at same site and datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	e22	e28	e45	e96	e200	e140	495	e160	e47	48	17
2	14	e25	e26	e80	e84	e140	e180	408	e170	e40	39	17
3	15	e28	e25	e110	e76	e110	e150	289	e230	e35	34	17
4	21	e25	e24	e90	e72	e94	e130	730	e250	e32	31	18
5	37	e22	e24	e70	e70	e150	e130	748	e190	e30	29	19
6	73	e22	e22	e60	e66	e470	e120	538	179	e28	28	20
7	32	e25	e20	e56	e62	e400	e110	290	648	e27	27	30
8	24	e33	e19	e49	e60	e250	e100	260	542	e26	50	23
9	21	e27	e17	e45	e90	e150	e98	715	299	e25	77	20
10	19	e32	e16	e40	e100	e130	94	348	224	e23	37	19
11	19	e45	e16	e37	e100	e120	90	e300	194	e21	30	18
12	18	e70	e15	e34	e90	e110	87	e280	216	e22	28	18
13	18	e50	e15	e32	e74	e110	84	e260	237	e22	28	19
14	21	e45	e20	e30	e62	e100	80	e300	500	e22	27	20
15	23	e43	e30	e29	e56	e200	92	e400	575	e48	26	17
16	20	e40	e52	e29	e49	e240	180	e800	224	35	24	23
17	19	e39	e48	e200	e45	e180	153	e350	166	30	22	40
18	19	e40	e70	e500	e42	e160	129	e250	143	89	22	25
19	19	e39	e150	e1000	e40	e300	121	e200	146	68	21	21
20	20	e39	e200	e600	e120	e740	137	e180	151	46	21	20
21	26	e38	e120	e250	e190	e500	127	e140	109	38	20	19
22	24	e37	e80	e150	e150	e350	113	e130	e80	62	20	23
23	22	e35	e66	e120	e130	e260	238	e110	e70	47	20	21
24	e21	e34	e52	e600	e120	e290	248	e100	e62	40	23	19
25	e20	e32	e47	e840	e110	e250	182	e900	e56	46	22	19
26	e20	e32	e43	e300	e130	e180	164	e150	e52	42	20	20
27	e22	e31	e38	e400	e200	e150	140	e200	e47	34	19	21
28	e23	e31	e35	e350	e400	e130	124	e350	e45	32	19	111
29	e24	e30	e34	e250	e580	e120	777	e660	e42	34	20	68
30	e22	e29	e32	e190	---	e110	1240	e400	e40	69	18	38
31	e21	---	e30	e120	---	e100	---	e250	---	82	17	---
TOTAL	711	1040	1414	6706	3464	6794	5758	11531	6047	1242	867	780
MEAN	22.9	34.7	45.6	216	119	219	192	372	202	40.1	28.0	26.0
MAX	73	70	200	1000	580	740	1240	900	648	89	77	111
MIN	14	22	15	29	40	94	80	100	40	21	17	17
CFSM	.26	.39	.51	2.43	1.34	2.46	2.16	4.18	2.26	.45	.31	.29
IN.	.30	.43	.59	2.80	1.45	2.84	2.41	4.82	2.53	.52	.36	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 1996, BY WATER YEAR (WY)

	MEAN	29.1	53.8	88.2	117	145	171	157	125	74.3	55.2	42.6	29.9
MAX	126	327	351	324	321	585	365	554	287	280	292	213	
(WY)	1976	1986	1991	1949	1979	1945	1940	1968	1941	1948	1979	1979	
MIN	11.5	13.1	12.8	20.5	18.8	39.1	41.3	31.1	14.9	13.3	11.7	11.2	
(WY)	1964	1965	1964	1977	1954	1941	1941	1988	1988	1944	1988	1955	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1940 - 1996

ANNUAL TOTAL	31718	46354	
ANNUAL MEAN	86.9	127	90.4
HIGHEST ANNUAL MEAN			164
LOWEST ANNUAL MEAN			28.8
HIGHEST DAILY MEAN	1720	Jan 16	4690
LOWEST DAILY MEAN	14	Sep 29	14
ANNUAL SEVEN-DAY MINIMUM	14	Sep 27	17
INSTANTANEOUS PEAK FLOW			2020
INSTANTANEOUS PEAK STAGE			7.38
INSTANTANEOUS LOW FLOW			14
ANNUAL RUNOFF (CFSM)	.98	1.42	1.02
ANNUAL RUNOFF (INCHES)	13.26	19.37	13.80
10 PERCENT EXCEEDS	171	300	185
50 PERCENT EXCEEDS	44	50	44
90 PERCENT EXCEEDS	18	20	16

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

HOCKING RIVER BASIN

77

03157500 HOCKING RIVER AT ENTERPRISE, OH

LOCATION.--Lat 39°33'54", long 82°28'30", in NW 1/4 sec. 5, T.14 N., R.17 W., Hocking County, Hydrologic Unit 05030204, on right bank at upstream side of bridge at Enterprise, 4.0 mi downstream from Buck Run, and 4.3 mi upstream from Scott Creek.

DRAINAGE AREA.--459 mi².

PERIOD OF RECORD.--October 1930 to current year. Prior to May 1931 monthly discharge only, published in WSP 1305.

REVISED RECORDS.--WSP 873: 1938. WRD-OH-70-1: 1969. WSP 1907: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 723.58 ft above sea level. Prior to Oct. 24, 1933, nonrecording gage at same site and datum.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Flood flow affected by temporary retention in eight retarding basins, combined capacity, 8,710 acre-ft, constructed between 1955 and 1961 upstream from station. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1907, reached a stage of 22.0 ft, from floodmark; discharge, 36,000 ft³/s, from reports of U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	99	136	e160	e430	1190	772	3610	969	319	524	81
2	54	113	127	e350	e400	906	964	2300	791	264	376	79
3	58	130	117	e520	e360	705	773	1590	938	237	298	78
4	90	126	117	e400	e340	553	687	2280	1230	216	250	82
5	140	113	115	e350	e320	597	701	3550	1250	199	220	349
6	389	105	114	e280	e310	2850	632	2940	964	188	205	306
7	204	127	e100	e250	e300	2680	594	1920	2450	178	196	319
8	136	151	e88	e230	e350	1470	544	1620	2630	176	192	265
9	112	143	e82	e220	605	1060	511	3750	2420	167	323	177
10	102	129	e78	e200	484	763	475	3210	1930	157	245	87
11	95	165	e76	e180	514	714	451	3400	1490	145	193	74
12	88	331	e76	e170	434	698	425	3400	1890	141	176	69
13	85	250	e76	e150	355	660	402	2030	1390	148	186	74
14	101	239	e100	e140	e300	615	389	1450	1630	143	164	77
15	142	226	e150	e130	e270	1450	405	1780	3940	199	156	65
16	126	200	266	e200	e240	1420	800	4180	1540	194	142	84
17	104	182	237	1440	e220	1120	771	2720	1040	150	128	201
18	95	182	254	3190	e210	930	629	1820	800	734	119	140
19	92	185	860	5220	e200	1590	582	1340	1000	974	114	94
20	93	184	1010	e2500	787	4630	603	1060	933	441	113	79
21	121	178	535	e1000	1190	3210	567	852	677	298	133	73
22	111	173	e330	e600	889	2120	502	753	551	487	128	89
23	104	168	e270	536	799	1630	756	641	473	432	127	80
24	97	162	e250	4050	785	1710	1120	614	419	320	188	72
25	95	151	e220	2640	663	1510	821	564	406	821	234	70
26	92	147	e200	1510	654	1150	708	508	358	478	226	68
27	98	147	e180	2040	1770	905	630	828	319	341	143	77
28	106	146	e170	1610	3430	816	543	1670	295	264	95	323
29	110	141	e160	e1000	1880	767	2630	3430	276	230	91	354
30	109	137	e150	e600	---	682	5500	2710	262	372	102	170
31	103	---	e150	e500	---	629	---	1400	---	1070	85	---
TOTAL	3507	4930	6794	32366	19489	41730	25887	63920	35261	10483	5872	4156
MEAN	113	164	219	1044	672	1346	863	2062	1175	338	189	139
MAX	389	331	1010	5220	3430	4630	5500	4180	3940	1070	524	354
MIN	54	99	76	130	200	553	389	508	262	141	85	65
CFSM	.25	.36	.48	2.27	1.46	2.93	1.88	4.49	2.56	.74	.41	.30
IN.	.28	.40	.55	2.62	1.58	3.38	2.10	5.18	2.86	.85	.48	.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

	124	251	423	639	783	943	857	620	367	284	225	158
MEAN	124	251	423	639	783	943	857	620	367	284	225	158
MAX	670	1864	1844	3605	1899	2875	2228	2499	1445	1437	1686	1087
(WY)	1976	1986	1991	1937	1979	1945	1940	1968	1981	1958	1980	1979
MIN	33.4	41.1	40.5	100	58.0	181	184	95.3	68.1	61.0	39.9	30.4
(WY)	1954	1954	1964	1977	1954	1941	1941	1934	1936	1988	1932	1953

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1931 - 1996

ANNUAL TOTAL	159990	254395	
ANNUAL MEAN	438	695	
HIGHEST ANNUAL MEAN			470
LOWEST ANNUAL MEAN			860
HIGHEST DAILY MEAN	6200	Jan 16	21600
LOWEST DAILY MEAN	54	Oct 2	110
ANNUAL SEVEN-DAY MINIMUM	59	Sep 27	23
INSTANTANEOUS PEAK FLOW			27
INSTANTANEOUS PEAK STAGE			26000
INSTANTANEOUS LOW FLOW			12.44
ANNUAL RUNOFF (CFSM)	.95	1.51	21.31
ANNUAL RUNOFF (INCHES)	12.97	20.62	23
10 PERCENT EXCEEDS	919	1840	1.02
50 PERCENT EXCEEDS	228	319	13.92
90 PERCENT EXCEEDS	86	94	1060
			210
			58

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

HOCKING RIVER BASIN

03159500 HOCKING RIVER AT ATHENS, OH

LOCATION.--Lat 39°19'44", long 82°05'16", in T.9 N., R.14 W., Athens County, Hydrologic Unit 05030204, on right bank 0.8 mi east of business section of Athens, 1.4 mi downstream from Coats Run, and 3.0 mi downstream from Margaret Creek.

DRAINAGE AREA.--943 mi².

PERIOD OF RECORD.--May 1915 to current year.

REVISED RECORDS.--WSP 523: 1918-19(M). WSP 743: 1922(M). WSP 873: 1920, 1922, 1924-28, 1937. WSP 1113: 1932. WDR-OH-90-1: 1979(M), 1983(M), 1985(M), 1986(M).

GAGE.--Water-stage recorder. Datum of gage is 611.26 ft above sea level. Prior to Aug. 17, 1931, nonrecording gage, Aug. 18, 1931 to Jun. 19, 1970, at present site at datum 3.55 ft. higher. Jun. 19, 1970 to Sep. 30, 1971 and Oct. 1, 1976 to Mar. 31, 1993 water-stage recorder at site 5.3 mi downstream at datum 11.26 ft lower, constructed as "Below Athens" (03159510).

REMARKS.--Records good, except for periods of estimated record, which are poor. Water-quality data collected at this site. Some regulation by Burr Oak Reservoir, capacity 26,900 acre-ft, on East Branch Sunday Creek 29 mi upstream beginning 1952 (see station 0315800); by Hocking Lake, capacity 3,080 acre-ft, on Clear Fork 39.4 mi upstream beginning in 1949; and by temporary retention in 8 retarding basins, combined capacity, 8,710 acre-ft, constructed between 1955 and 1961 upstream from Lancaster (see station 03156400).

EXTREMES OUTSIDE PERIOD RECORD.--Flood in March 1907 reached a stage of about 27 ft, site and datum then in use, from flood marks; discharge 50,000 ft³/s, estimated by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85	144	199	e300	e1100	3350	1810	8410	2200	893	1590	159
2	83	149	197	e400	e900	2330	2820	6090	1640	741	1090	152
3	89	152	189	e1100	e800	1860	2240	3800	1710	620	800	148
4	89	174	182	e900	e700	1610	1930	4950	2360	556	624	146
5	123	179	180	e700	e660	1530	1690	8650	2800	511	557	145
6	225	166	177	e600	e600	4690	1500	7420	2170	487	477	e600
7	398	166	175	e500	e600	7310	1340	5130	3450	462	e450	e860
8	237	179	173	e450	e660	4490	1210	3760	6780	449	e400	e600
9	175	221	e160	e420	1250	2830	1120	4030	6310	449	e500	e400
10	147	197	e150	e380	1200	2090	1030	6350	9940	439	e700	249
11	133	208	e140	e350	1100	1870	950	4550	6250	401	e400	216
12	122	378	e140	e330	e1000	1820	1010	5680	5370	378	e330	171
13	117	509	e140	e300	e720	1660	884	4550	4170	388	e300	154
14	219	423	e130	e290	e660	1540	815	3030	3000	420	e280	161
15	271	405	e150	e280	e560	2140	822	2890	5510	735	e250	158
16	233	375	452	e270	e500	3210	1710	8130	5420	606	e240	206
17	194	333	771	e540	e470	2550	2170	8610	2750	463	e230	e300
18	158	311	674	e1500	e450	2400	1820	4800	2210	424	e220	e560
19	140	307	2120	e4500	e420	2820	1450	3190	3210	1360	e200	e300
20	132	302	3730	e9000	e400	7530	1340	2470	3470	1170	e190	227
21	133	285	1920	4420	3030	8970	1300	2120	1980	698	e190	260
22	143	271	1220	2190	2330	5860	1130	1660	1590	604	e200	184
23	145	260	819	2060	2010	3730	1370	1380	1400	868	e220	259
24	139	252	e540	7620	1760	3280	2570	1270	1210	773	e300	189
25	132	241	e450	10200	1570	3160	2280	1180	1080	923	e450	155
26	129	230	e400	6160	1390	2780	1820	1070	932	1180	e520	152
27	128	220	e350	3820	2160	2120	1490	1860	785	807	e350	156
28	134	220	e330	4490	6500	1850	1260	3430	733	618	e250	e400
29	143	220	e300	2920	6100	1960	1480	3710	691	516	198	e760
30	149	208	e290	2290	---	1850	6200	6460	650	1140	176	e700
31	152	---	e270	1600	---	1620	---	3740	---	2510	171	---
TOTAL	4897	7685	17118	70880	41600	96810	50561	134370	91771	22589	12853	9127
MEAN	158	256	552	2286	1434	3123	1685	4335	3059	729	415	304
MAX	398	509	3730	10200	6500	8970	6200	8650	9940	2510	1590	860
MIN	83	144	130	270	400	1530	815	1070	650	378	171	145

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

	MEAN	246	544	1002	1440	1736	2111	1830	1371	764	506	405	300
MAX	1539	3194	3830	7796	3928	5975	4268	5672	3143	2957	3054	2031	
(WY)	1976	1920	1924	1937	1951	1963	1940	1968	1928	1958	1980	1979	
MIN	36.1	46.4	64.5	75.5	91.6	262	385	174	77.8	52.2	39.6	44.8	
(WY)	1931	1954	1931	1931	1954	1931	1925	1934	1930	1930	1930	1930	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1916 - 1996	
ANNUAL TOTAL	332500		560261			
ANNUAL MEAN	911		1531		1018	
HIGHEST ANNUAL MEAN					1794	
LOWEST ANNUAL MEAN					233	
HIGHEST DAILY MEAN	10700	May 20	10200	Jan 25	31200	Mar 11 1964
LOWEST DAILY MEAN	83	Oct 2	83	Oct 2	10	Oct 11 1930
ANNUAL SEVEN-DAY MINIMUM	89	Sep 28	136	Oct 21	24	Oct 11 1930
INSTANTANEOUS PEAK FLOW			10800	Jun 10	32900	Mar 11 1964
INSTANTANEOUS PEAK STAGE			17.29	Jun 10	24.18	Mar 11 1964
INSTANTANEOUS LOW FLOW			83	Oct 2	10	Oct 11 1930
10 PERCENT EXCEEDS	1980		4440		2440	
50 PERCENT EXCEEDS	450		667		425	
90 PERCENT EXCEEDS	119		153		88	

e Estimated

SHADE RIVER BASIN

79

03159540 SHADE RIVER NEAR CHESTER, OH

LOCATION.--Lat 39°03'49", long 81°52'55", in NE 1/4 sec. 10, T.3N., R.12 W., Meigs County, Hydrologic Unit 05030202, on right bank at downstream side of bridge on Oak Hill Road, 200 ft upstream from Sugar Run, 2.8 mi southeast of Chester, and 8.5 mi northeast of Pomeroy.

DRAINAGE AREA.--156 mi², includes that of Sugar Run.

PERIOD OF RECORD.--Water years 1956, 1962-64 (occasional low-flow measurements), June 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 576.91 ft above sea level.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Water-quality and sediment data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	2.9	13	e40	e60	275	335	657	137	24	151	19
2	.73	2.9	13	e100	e50	208	594	274	117	26	71	18
3	.73	4.8	12	e200	e45	167	314	206	167	25	47	17
4	.73	17	10	e110	e38	122	229	1120	214	22	37	17
5	.85	17	8.6	e70	e35	139	214	3620	158	e15	30	e20
6	2.9	12	8.2	e60	32	551	185	1140	117	e13	26	e60
7	8.7	9.3	8.0	e50	33	1090	162	363	232	e11	24	e120
8	9.3	8.6	7.5	e45	147	460	144	451	273	e10	24	e70
9	8.0	8.3	7.1	e42	736	e220	131	1280	1450	e9.0	44	e40
10	6.7	8.2	3.6	e40	315	e180	119	512	1090	e8.0	32	e30
11	5.5	8.4	e2.8	e37	234	e160	109	427	618	e6.8	24	e25
12	4.9	131	e2.5	e35	163	e150	100	839	241	e6.4	e21	e20
13	4.6	93	e2.4	e33	119	e140	93	334	196	e8.0	e19	e18
14	101	51	e2.4	e32	140	e130	88	229	142	e10	e18	17
15	248	59	e2.3	e30	e120	1260	89	402	335	19	e17	17
16	55	54	28	e30	e80	1030	507	2220	167	161	e15	19
17	15	38	126	807	e70	335	395	1600	111	42	e14	595
18	7.5	30	348	1440	e64	247	222	357	84	23	e13	197
19	5.3	27	1260	e2400	e60	442	165	229	143	20	e13	76
20	3.6	27	1120	e1400	949	1950	144	172	252	34	e14	45
21	2.9	24	e160	e700	1080	1170	129	144	110	38	e18	34
22	2.9	19	e100	637	343	521	110	127	77	23	154	27
23	2.9	16	e80	391	239	384	160	107	68	21	93	23
24	2.8	71	e70	2920	197	409	338	121	74	21	225	20
25	2.9	37	e60	2490	153	321	186	118	55	24	360	17
26	2.5	24	e50	353	139	261	159	92	45	31	92	16
27	2.5	21	e45	407	426	189	167	406	38	28	49	15
28	2.6	19	e37	330	2010	204	134	993	32	22	36	131
29	2.7	15	e33	195	734	319	124	996	28	18	29	364
30	2.7	13	e30	150	---	256	524	356	25	35	24	129
31	2.8	---	e32	118	---	203	---	183	---	430	21	---
TOTAL	519.97	868.4	3682.4	15692	8811	13493	6370	20075	6796	1184.2	1755	2216
MEAN	16.8	28.9	119	506	304	435	212	648	227	38.2	56.6	73.9
MAX	248	131	1260	2920	2010	1950	594	3620	1450	430	360	595
MIN	.73	2.9	2.3	30	32	122	88	92	25	6.4	13	15
CFSM	.11	.19	.76	3.24	1.95	2.79	1.36	4.15	1.45	.24	.36	.47
IN.	.12	.21	.88	3.74	2.10	3.22	1.52	4.79	1.62	.28	.42	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

	MEAN	57.3	109	209	251	317	338	281	245	86.4	69.8	66.3	38.4
MAX	259	386	765	755	884	812	633	912	423	384	406	261	
(WY)	1976	1974	1991	1994	1994	1967	1972	1968	1981	1980	1980	1979	
MIN	.42	.99	20.2	24.0	40.7	53.4	48.6	33.2	2.37	2.40	.72	.38	
(WY)	1988	1988	1988	1977	1978	1969	1995	1986	1988	1987	1988	1987	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1965 - 1996

ANNUAL TOTAL	54362.07	81462.97	
ANNUAL MEAN	149	223	173
HIGHEST ANNUAL MEAN			272
LOWEST ANNUAL MEAN			45.4
HIGHEST DAILY MEAN	3690	May 19	6260
LOWEST DAILY MEAN	.70	Sep 9	.18
ANNUAL SEVEN-DAY MINIMUM	.70	Sep 9	.21
INSTANTANEOUS PEAK FLOW			8170
INSTANTANEOUS PEAK STAGE			27.39
INSTANTANEOUS LOW FLOW			.17
ANNUAL RUNOFF (CFSM)	.95	1.43	1.11
ANNUAL RUNOFF (INCHES)	12.96	19.43	15.08
10 PERCENT EXCEEDS	337	532	384
50 PERCENT EXCEEDS	37	70	57
90 PERCENT EXCEEDS	1.2	7.5	4.0

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

RACCOON CREEK BASIN

03202000 RACCOON CREEK AT ADAMSVILLE, OH

LOCATION.--Lat 38°51'32", long 82°21'43", in SE 1/4 sec. 26, T.6N., R.16W., Gallia County, Hydrologic Unit 05090101, on right bank downstream of Cora Road, approximately 1 mi south of State Route 588.

DRAINAGE AREA.--595 mi².

PERIOD OF RECORD.--June 1915 to December 1935, October 1938 to September 1985, October 1991 to current year.

REVISED RECORDS--WSP 873: 1916-18, 1920, 1922, 1924, 1926-27, 1931, 1933, 1935(M). WSP 1908: Drainage area. WSP 2108: 1968-70 (M).

GAGE.--Water-stage recorder. Datum of gage is 567.74 ft above sea level. Prior to July 8, 1984, water-stage recorder 1.7 mi upstream at datum 2.30 ft higher.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Sediment data collected at this site. REVISIONS.--The datum of gage is revised to 567.74 ft above sea level, superseding figures published in WRD-OH-1 for 1992-1995.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	99	151	e240	918	2920	1970	1650	1630	e290	686	67
2	19	104	146	e350	e700	2290	2490	1700	986	e250	630	60
3	20	133	140	e500	e600	1440	2500	1660	879	e210	342	54
4	54	176	133	e1000	e560	984	1900	2130	986	e190	226	51
5	62	159	125	e700	e520	830	1400	2620	1460	e170	174	49
6	112	143	e110	e660	e500	1120	1180	2700	1670	e160	144	47
7	170	133	e100	e450	e500	2520	1040	1720	1540	e160	123	50
8	134	129	e94	e400	570	2840	909	1740	1520	e150	109	51
9	106	123	e88	e370	1230	2580	810	1820	3090	e150	105	51
10	90	114	e82	e330	e1300	1810	735	1750	e3000	e150	107	90
11	66	129	e80	e300	e800	1210	671	e1400	e2200	e140	121	72
12	50	230	e76	e280	e640	1100	609	e1800	e1700	e130	129	63
13	41	341	e74	e270	e580	1030	559	e1300	e1400	e130	111	56
14	161	436	e72	e260	e500	970	523	e1000	e2000	e200	95	52
15	391	429	e70	e250	e450	1270	590	e1700	2590	e450	87	49
16	584	377	e100	e500	e430	2360	1070	e3000	1100	e380	87	85
17	460	332	e150	1430	e400	2520	1350	e2000	961	329	74	496
18	266	292	e500	2430	e370	1830	1350	e1500	729	233	68	485
19	173	265	e2400	3990	e350	1650	1120	e1200	581	163	65	424
20	132	248	2850	4150	e1400	3000	942	e1000	503	141	62	255
21	108	234	2540	4200	1790	3530	841	e740	770	124	58	147
22	97	218	2060	4150	2060	3710	750	e620	905	141	56	100
23	89	210	1280	3640	1780	3630	952	e560	702	140	56	76
24	83	319	783	e4000	1320	2850	1390	e500	554	124	76	63
25	76	244	597	e500	1070	1740	1410	e450	693	110	197	54
26	74	206	e400	e5200	1050	1430	1260	e440	568	161	292	48
27	71	185	e350	e5400	1240	1190	1030	e1500	421	161	244	43
28	76	171	e300	4770	2280	1090	871	e2100	339	137	156	67
29	90	160	e250	3560	2880	1190	804	2350	268	110	113	140
30	100	154	e210	1720	---	1280	1290	2530	224	92	90	194
31	99	---	e200	1190	---	1280	---	2290	---	536	76	---
TOTAL	4076	6493	16511	57190	28788	59194	34316	49470	35969	6012	4959	3539
MEAN	131	216	533	1845	993	1909	1144	1596	1199	194	160	118
MAX	584	436	2850	5400	2880	3710	2500	3000	3090	536	686	496
MIN	19	99	70	240	350	830	523	440	224	92	56	43
CFSM	.22	.37	.91	3.15	1.70	3.26	1.96	2.73	2.05	.33	.27	.20
IN.	.26	.41	1.05	3.64	1.83	3.76	2.18	3.15	2.29	.38	.32	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

	MEAN	122	295	656	940	1195	1474	1198	891	404	240	204	131
MAX	986	1812	2562	2739	2989	4165	3231	4200	2244	1752	1548	1252	
(WY)	1976	1920	1979	1950	1939	1963	1939	1968	1941	1958	1926	1979	
MIN	2.63	5.49	7.92	24.0	44.7	248	224	79.6	29.3	11.3	7.16	3.35	
(WY)	1931	1964	1964	1931	1954	1941	1971	1930	1930	1930	1922	1930	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1916 1996

ANNUAL TOTAL	231688	306517	
ANNUAL MEAN	635	837	
HIGHEST ANNUAL MEAN			1095 1916
LOWEST ANNUAL MEAN			186 1954
HIGHEST DAILY MEAN	5650	5400	19600 May 28 1968
LOWEST DAILY MEAN	16	19	1.1 Oct 17 1964
ANNUAL SEVEN-DAY MINIMUM	17	50	1.3 Oct 14 1964
INSTANTANEOUS PEAK FLOW		5400	19600 May 28 1968
INSTANTANEOUS PEAK STAGE		16.75	28.69 May 28 1968 c
INSTANTANEOUS LOW FLOW		19	1.1 Oct 17 1964
ANNUAL RUNOFF (CFSM)	1.09	1.43	1.10
ANNUAL RUNOFF (INCHES)	14.73	19.49	15.01
10 PERCENT EXCEEDS	1560	2310	1710
50 PERCENT EXCEEDS	270	426	240
90 PERCENT EXCEEDS	42	73	24

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

b Ice jam

c At site and datum then in use.

e Estimated

81

LOCATION.--Lat 40°25'10", long 83°11'50", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of Hoskins Bridge, 1.5 mi upstream from Ottawa Creek, 2.0 mi south of Prospect, and 2.5 mi downstream from Patton Run

PERIOD OF RECORD.--July 1925 to October 1932, October 1939 to current year. Published as "at Prospect" 1925-32.

Gage-height records collected in this vicinity since 1915 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 886.9 ft above sea level (levels by U.S. Army Corps of Engineers).

July 24, 1925, to Oct. 31, 1932, nonrecording gage at site 2.5 mi upstream at datum 4.8 ft higher. Oct. 16 to

Dec. 5, 1939, nonrecording gage at present site and datum.

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

collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 21.1 ft, discharge; 27,000 ft³/s.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	60	135	e100	e350	4410	452	4830	934	94	221	17
2	19	73	123	e100	e300	2590	672	5090	524	83	173	16
3	21	102	120	e98	e250	1070	732	3680	433	74	121	16
4	51	200	113	e96	e230	557	582	2160	455	68	91	16
5	87	311	103	e96	e210	456	448	1410	979	63	72	17
6	724	220	101	e94	e210	815	368	1830	1200	58	60	18
7	1020	170	95	e92	196	1210	321	2100	1140	54	49	17
8	886	222	83	e92	186	932	293	2030	1700	54	46	24
9	474	388	e74	e90	269	523	271	1760	2030	50	49	24
10	285	326	e70	e90	359	429	250	1770	1820	44	41	27
11	194	589	e68	e88	443	336	232	3040	1010	41	35	22
12	136	1460	e66	e88	425	303	219	3050	750	39	33	19
13	103	1880	e72	e90	357	304	212	2870	707	38	31	19
14	78	2050	78	e100	274	325	204	1830	579	36	30	17
15	67	1200	104	e130	241	383	195	1060	417	54	29	17
16	59	598	117	205	214	436	210	1350	332	68	48	18
17	53	429	131	740	181	428	241	1760	283	71	55	33
18	52	508	122	2830	163	373	258	1740	248	250	54	35
19	48	657	153	4960	148	406	253	1120	228	1060	42	27
20	44	668	175	4850	154	1410	298	665	223	1390	34	26
21	43	505	212	7080	213	2040	565	492	205	1440	26	24
22	39	395	220	6160	354	2400	624	401	180	667	23	22
23	38	326	186	4320	448	1790	1300	338	153	335	24	20
24	38	275	167	3780	521	1320	3050	315	136	245	37	17
25	37	239	149	3780	576	1260	4610	496	170	181	34	18
26	34	210	e140	3990	630	1330	4240	867	263	133	35	24
27	37	195	e130	3230	1680	1140	2560	810	215	104	34	32
28	43	186	e120	2080	3450	637	1220	1280	154	84	29	185
29	42	171	e120	1340	4750	466	1540	1730	123	71	25	496
30	38	151	e110	790	---	414	3540	1880	106	82	22	424
31	40	---	e110	495	---	388	---	1680	---	165	18	---
TOTAL	4849	14764	3767	52074	17782	30881	29960	55434	17697	7196	1621	1687
MEAN	156	492	122	1680	613	996	999	1788	590	232	52.3	56.2
MAX	1020	2050	220	7080	4750	4410	4610	5090	2030	1440	221	496
MIN	19	60	66	88	148	303	195	315	106	36	18	16
CFSM	.28	.87	.21	2.96	1.08	1.76	1.76	3.15	1.04	.41	.09	.10
IN.	.32	.97	.25	3.42	1.17	2.03	1.97	3.64	1.16	.47	.11	.11

MEAN	120	265	473	710	780	1010	883	496	393	272	122	98.1
MAX	1643	2023	2451	3305	2166	3008	2771	1788	1915	2049	778	1651
(WY)	1927	1973	1991	1950	1975	1978	1957	1996	1947	1992	1995	1926
MIN	10.9	13.8	14.9	15.1	30.8	135	97.0	78.3	32.5	19.4	11.7	7.98
(WY)	1945	1931	1964	1945	1964	1941	1946	1955	1988	1952	1932	1941

ANNUAL TOTAL	201499		237712			
ANNUAL MEAN	552		649		467	
HIGHEST ANNUAL MEAN					833	1927
LOWEST ANNUAL MEAN					127	1954
HIGHEST DAILY MEAN	4450	Aug 8	7080	Jan 21	10000	Mar 22 1927
LOWEST DAILY MEAN	19	Sep 11	16	Sep 2	4.5	Sep 14 1953
ANNUAL SEVEN-DAY MINIMUM	20	Sep 27	17	Sep 1	5.9	Sep 25 1941
INSTANTANEOUS PEAK FLOW			7260	Jan 20 a	10100	Mar 22 1927
INSTANTANEOUS PEAK STAGE			13.13	Jan 20	15.00	Mar 22 1927
INSTANTANEOUS LOW FLOW			16	Sep 2	3.5	Sep 13 1953
ANNUAL RUNOFF (CFSM)	.97		1.15		.82	
ANNUAL RUNOFF (INCHES)	13.22		15.60		11.18	
10 PERCENT EXCEEDS	1590		1830		1290	
50 PERCENT EXCEEDS	222		212		128	
90 PERCENT EXCEEDS	37		31		19	

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

SCIOTO RIVER BASIN

03219590 BOKES CREEK NEAR WARRENSBURG, OH

LOCATION.--Lat 40°19'20", long 83°10'30", Delaware County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on State Highway 257, 0.7 mi upstream from Moors Run, 1.2 mi north of Warrensburg, and 3.4 mi downstream from Fulton Creek..

DRAINAGE AREA.--83.2 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 870 ft above sea level from topographic map.

REMARKS.--Records fair, except those for periods of estimated record and those below 10 ft³/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.43	1.6	16	e18	63	204	130	1220	81	3.0	6.0	.02
2	.37	2.2	14	e17	68	101	e150	388	56	2.6	12	.02
3	.68	4.1	13	e16	41	e35	103	208	50	2.3	7.8	.01
4	1.3	3.7	13	e16	34	e50	73	231	42	2.1	5.7	.01
5	35	7.0	12	e15	e30	72	57	430	37	1.8	4.3	.00
6	236	8.3	11	e14	e27	105	48	577	41	1.6	3.2	.00
7	287	9.8	e10	e14	e33	e50	44	347	109	1.8	2.6	.09
8	108	10	e9.0	e14	39	e43	40	197	370	2.2	2.1	.08
9	59	8.6	e8.0	e13	52	e38	36	368	220	1.9	2.1	.04
10	36	26	e7.4	e13	75	e33	32	362	98	1.6	1.8	.04
11	20	108	e7.0	e13	e60	e37	29	1120	69	1.6	1.7	.01
12	12	376	e6.8	e12	e35	e43	27	1270	233	1.5	1.7	.00
13	8.3	276	e7.6	e12	e22	e50	25	304	182	1.5	1.8	.00
14	6.0	110	11	e15	e17	67	24	141	75	1.4	1.6	.00
15	4.4	77	13	e30	e15	71	25	177	46	1.6	1.5	.00
16	3.1	57	15	43	e14	68	32	568	32	1.7	1.7	.06
17	2.7	44	20	276	e12	57	48	396	25	4.8	1.9	.26
18	2.4	53	19	982	e11	53	49	198	20	97	1.9	.14
19	2.4	127	46	e2700	e10	112	42	110	17	691	1.6	.14
20	2.0	96	90	e600	e25	131	73	73	16	849	1.5	.07
21	1.7	66	105	e400	69	e130	259	55	14	140	1.4	.01
22	e1.5	50	103	e250	113	e110	117	43	12	69	1.4	.06
23	e1.4	41	78	207	115	e90	507	34	9.9	43	1.2	.01
24	e1.4	32	61	803	113	e80	1370	31	9.1	29	.54	.00
25	e1.3	28	41	815	109	e70	898	103	8.3	20	.46	.00
26	e1.3	24	33	307	103	e62	203	132	6.7	14	.32	.00
27	e1.3	22	e25	251	397	e56	125	126	6.4	9.8	.22	.33
28	e1.2	21	e23	221	913	e50	87	436	6.0	7.0	.16	8.9
29	e1.2	19	e21	142	473	e45	725	494	4.4	5.8	.11	100
30	e1.3	17	e20	81	---	e50	1700	507	3.7	5.1	.05	69
31	e1.4	---	e19	58	---	93	---	144	---	4.7	.04	---
TOTAL	842.08	1725.3	877.8	8368	3088	2256	7078	10790	1899.5	2019.4	70.40	179.30
MEAN	27.2	57.5	28.3	270	106	72.8	236	348	63.3	65.1	2.27	5.98
MAX	287	376	105	2700	913	204	1700	1270	370	849	12	100
MIN	.37	1.6	6.8	12	10	33	24	31	3.7	1.4	.04	.00
CFSM	.33	.69	.34	3.24	1.28	.87	2.84	4.18	.76	.78	.03	.07
IN.	.38	.77	.39	3.74	1.38	1.01	3.16	4.82	.85	.90	.03	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 1996, BY WATER YEAR (WY)

	MEAN	17.1	59.0	91.3	79.8	107	94.7	116	108	57.3	95.3	9.13	8.43
MAX	129	195	469	270	226	270	236	348	180	448	83.7	98.5	
(WY)	1987	1984	1991	1996	1990	1984	1996	1996	1996	1995	1992	1995	1986
MIN	.000	.000	.26	2.25	7.87	20.4	34.0	9.90	.81	1.27	.002	.000	
(WY)	1983	1992	1992	1992	1992	1983	1986	1988	1988	1991	1991	1982	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1982 - 1996

ANNUAL TOTAL	33044.13	39193.78	
ANNUAL MEAN	90.5	107	70.9
HIGHEST ANNUAL MEAN			107
LOWEST ANNUAL MEAN			28.7
HIGHEST DAILY MEAN	1540	2700	2700
LOWEST DAILY MEAN	.37	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.75	.01	.00
INSTANTANEOUS PEAK FLOW		3970	4420
INSTANTANEOUS PEAK STAGE		12.75	13.54
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (CFSM)	1.09	1.29	.85
ANNUAL RUNOFF (INCHES)	14.77	17.52	11.58
10 PERCENT EXCEEDS	256	276	154
50 PERCENT EXCEEDS	27	25	16
90 PERCENT EXCEEDS	1.7	.52	.00

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

SCIOTO RIVER BASIN

83

03220000 MILL CREEK NEAR BELLEPOINT, OH

LOCATION.--Lat 40°14'54", long 83°10'26", Delaware County, Hydrologic Unit 05060001, on left bank at upstream side of county road bridge, 1.2 mi west of Bellepoint, 1.5 mi upstream from mouth, and 2.3 mi downstream from Blues Creek.
DRAINAGE AREA.--178 mi².
PERIOD OF RECORD.--October 1942 to current year. Monthly discharge only for some periods, published in WSP 1305.
REVISED RECORDS.--WSP 1908: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 865.14 ft above sea level (levels by students of The Ohio State University, City of Columbus bench mark). Prior to Jan. 1, 1948, nonrecording gage at same site and datum.
REMARKS.--Records fair, except for periods of estimated record, which are poor. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.
EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 18.0 ft occurred in March 1913.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	8.3	29	e39	e80	267	808	1380	122	21	22	7.0
2	4.9	12	28	e37	e70	161	746	623	96	19	19	6.1
3	e10	17	28	e36	e66	116	313	356	110	18	17	6.3
4	18	11	26	e34	e62	91	188	710	124	17	15	5.9
5	136	14	25	e33	e60	105	144	1230	101	16	13	6.5
6	742	10	24	e32	e60	574	119	1270	119	15	12	7.1
7	334	12	24	e31	e60	508	122	535	1190	15	12	7.5
8	98	19	23	e31	90	206	118	598	1140	15	17	7.2
9	42	17	21	e30	125	122	97	1510	409	14	59	7.1
10	22	23	e20	e29	170	102	81	813	205	15	20	6.7
11	14	322	e20	e29	165	79	72	3220	142	15	13	6.7
12	11	953	e19	e28	152	73	66	3030	1230	15	11	7.3
13	9.3	288	e21	e27	e80	82	62	535	494	16	10	7.0
14	8.7	136	31	e50	e64	102	61	267	176	15	9.8	6.9
15	7.9	98	48	e100	e50	134	63	704	107	21	9.6	6.8
16	7.7	73	50	118	e43	134	114	1380	79	40	9.5	7.5
17	7.0	59	51	870	e38	104	191	604	64	33	9.2	25
18	7.0	60	43	3520	e33	84	138	350	55	685	8.9	15
19	7.2	148	110	e6500	e30	370	113	191	51	1280	9.0	9.9
20	7.2	109	208	e2000	146	1550	418	125	50	426	8.5	9.3
21	6.9	77	173	e800	305	704	661	100	46	115	7.9	8.0
22	7.2	62	128	e450	327	447	223	86	43	78	8.6	7.6
23	7.6	53	e90	e700	268	324	2160	71	49	61	8.3	8.5
24	7.1	44	e80	2420	265	410	2710	68	53	46	8.2	7.7
25	7.1	40	e72	1320	230	423	840	101	44	37	18	6.8
26	7.5	36	e64	388	203	288	316	156	33	28	15	7.3
27	7.8	34	e58	565	1120	144	202	170	29	24	9.4	8.5
28	8.2	34	e54	391	1910	104	139	850	27	20	8.5	258
29	8.8	33	e50	194	884	94	2510	1130	25	18	7.9	307
30	8.4	31	e45	114	---	88	4190	750	23	18	7.6	93
31	8.5	---	e41	e90	---	90	---	219	---	18	7.2	---
TOTAL	1584.9	2833.3	1704	21006	7156	8080	17985	23132	6436	3174	411.1	881.2
MEAN	51.1	94.4	55.0	678	247	261	599	746	215	102	13.3	29.4
MAX	742	953	208	6500	1910	1550	4190	3220	1230	1280	59	307
MIN	4.9	8.3	19	27	30	73	61	68	23	14	7.2	5.9
CFSM	.29	.53	.31	3.81	1.39	1.46	3.37	4.19	1.21	.58	.07	.17
IN.	.33	.59	.36	4.39	1.50	1.69	3.76	4.83	1.35	.66	.09	.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1996, BY WATER YEAR (WY)

	MEAN	26.8	99.8	170	259	285	334	293	177	137	81.8	40.2	24.8
	MAX	449	553	1130	1227	768	963	874	746	684	769	332	303
	(WY)	1987	1973	1991	1950	1975	1978	1972	1996	1947	1992	1979	1979
	MIN	.90	1.99	2.17	3.82	8.09	36.1	29.6	10.5	5.19	1.33	1.75	1.00
	(WY)	1954	1964	1964	1977	1964	1983	1971	1955	1988	1944	1965	1944

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR				FOR 1996 WATER YEAR				WATER YEARS 1944 - 1996			
ANNUAL TOTAL	66537.9				94383.5							
ANNUAL MEAN	182				258				160			
HIGHEST ANNUAL MEAN									258			
LOWEST ANNUAL MEAN									51.4			
HIGHEST DAILY MEAN	2940				6500				12600			
LOWEST DAILY MEAN	4.9				4.9				.00			
ANNUAL SEVEN-DAY MINIMUM	6.1				6.6				.13			
INSTANTANEOUS PEAK FLOW					7400				20300			
INSTANTANEOUS PEAK STAGE					10.18				13.85			
INSTANTANEOUS LOW FLOW					4.9				.00			
ANNUAL RUNOFF (CFSM)	1.02				1.45				.90			
ANNUAL RUNOFF (INCHES)	13.91				19.73				12.22			
10 PERCENT EXCEEDS	504				706				360			
50 PERCENT EXCEEDS	48				59				28			
90 PERCENT EXCEEDS	10				7.9				3.9			

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

SCIOTO RIVER BASIN

03221000 SCIOTO RIVER BELOW O'SHAUGHNESSY DAM, NEAR DUBLIN, OH

LOCATION.--Lat 40°08'36", long 83°07'14", Delaware County, Hydrologic Unit 05060001, on left bank, 0.2 mi north of county line, 0.8 mi downstream from O'Shaughnessy Dam, and 3.0 mi north of Dublin.

DRAINAGE AREA.--980 mi².

PERIOD OF RECORD.--April 1921 to current year.

REVISED RECORDS.--WSP 803: 1924-35. WSP 1725: 1924. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 775.00 ft above sea level. Prior to Aug. 26, 1921, nonrecording gage at site 0.8 mi upstream at same datum. Aug. 26, 1921, to Oct. 13, 1924, nonrecording gage at site 100 ft downstream at same datum.

REMARKS.--Records good, except for periods of estimated record, which are fair. Flow regulated since 1924 by O'Shaughnessy Reservoir 0.8 mi upstream (see station 03220500). Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913 reached a stage of 24.6 ft, discharge; 74,500 ft³/s at Griggs Dam, 9 mi downstream from gage, computed by C.E. Sherman, The Ohio State University.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	92	286	303	664	7220	731	9160	1690	195	305	80
2	19	143	242	e450	618	5550	1420	7220	1000	175	333	124
3	28	168	234	600	527	3750	1970	5380	980	192	263	105
4	17	188	225	647	489	1840	1430	4340	977	112	196	94
5	159	382	206	e610	437	996	1130	4480	1170	117	153	84
6	1640	382	185	e510	430	861	877	5020	1570	250	128	62
7	1960	348	183	e450	396	1870	758	3960	3350	228	108	35
8	1360	314	163	411	413	2280	701	3730	4750	173	115	33
9	853	415	153	e380	513	1610	659	5330	3310	136	165	35
10	558	535	99	e350	665	940	603	4170	2740	111	118	32
11	402	959	e105	e330	815	783	553	9740	1780	84	95	96
12	303	3070	e115	e340	791	671	495	10300	3290	77	80	158
13	227	2740	e125	e330	636	618	476	5090	1930	72	81	156
14	198	2600	e140	e320	585	626	435	3210	1180	60	80	140
15	149	1860	e165	e330	498	670	451	2780	851	54	72	109
16	128	1010	e190	360	443	772	525	4590	687	44	70	51
17	108	721	e235	1580	374	832	619	3730	588	56	70	26
18	106	709	e290	8630	326	797	626	3050	523	957	72	25
19	104	1010	e380	18100	343	720	603	2030	481	3540	137	26
20	105	1070	501	e11500	535	1210	858	1280	458	3440	229	26
21	98	849	602	e8600	730	4950	1710	960	414	2040	169	27
22	85	687	490	e6500	913	4210	1280	779	395	1250	58	28
23	82	596	448	6060	1030	3860	4960	682	340	690	58	54
24	84	505	393	9280	1100	2990	8820	640	327	502	54	117
25	78	440	363	7400	1100	2440	7480	839	327	405	51	90
26	78	396	e310	5410	1180	2280	5660	1360	362	318	51	98
27	83	366	e280	5090	4460	2110	3870	1420	406	237	52	62
28	88	362	e255	3590	7940	1750	2130	3260	343	189	51	52
29	93	332	e230	2250	e7800	1140	6440	4470	266	160	47	219
30	89	296	e220	1390	---	849	12200	4200	235	155	46	761
31	91	---	e240	896	---	748	---	2630	---	184	46	---
TOTAL	9391	23545	8053	102997	36751	61943	70470	119830	36720	16203	3553	3005
MEAN	303	785	260	3322	1267	1998	2349	3865	1224	523	115	100
MAX	1960	3070	602	18100	7940	7220	12200	10300	4750	3540	333	761
MIN	17	92	99	303	326	618	435	640	235	44	46	25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

	183	436	808	1294	1415	1795	1527	889	678	443	235	153
MEAN	183	436	808	1294	1415	1795	1527	889	678	443	235	153
MAX	2626	3426	4794	6397	4072	5231	4706	3865	3407	3599	1584	2285
(WY)	1927	1973	1991	1937	1975	1963	1957	1996	1947	1992	1995	1926
MIN	28.2	15.1	13.0	29.3	30.9	249	152	46.4	57.8	37.2	29.4	25.6
(WY)	1922	1954	1953	1992	1964	1941	1946	1925	1955	1921	1921	1965

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1921 - 1996

ANNUAL TOTAL	388164	492461	
ANNUAL MEAN	1063	1346	819
HIGHEST ANNUAL MEAN			1458
LOWEST ANNUAL MEAN			190
HIGHEST DAILY MEAN	8250	18100	42900
LOWEST DAILY MEAN	17	17	1.40
ANNUAL SEVEN-DAY MINIMUM	30	30	1.1
INSTANTANEOUS PEAK FLOW		19900	42900
INSTANTANEOUS PEAK STAGE		13.83	22.04
INSTANTANEOUS LOW FLOW		17	14
10 PERCENT EXCEEDS	3110	4200	2250
50 PERCENT EXCEEDS	421	450	202
90 PERCENT EXCEEDS	58	72	41

SCIOTO RIVER BASIN

85

03223000 OLENTANGY RIVER AT CLARIDON, OH

LOCATION.--Lat 40°34'58", long 82°59'20", in NW 1/4 sec. 26, T.5 S., R.16 E., Marion County, Hydrologic Unit 05060001, on left bank 900 ft downstream from bridge on State Highway 95, 0.5 mi east of Claridon, 0.8 mi downstream from Otter Creek, and 1.4 mi upstream from Beaver Run.

DRAINAGE AREA.--157 mi².

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1235: 1947, 1948(P). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 961.72 ft above sea level. (Levels by U.S. Army Corps of Engineers.) Prior to Aug. 18, 1969, water-stage recorder at site 1,000 ft upstream at same datum.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Small diversion at gage for irrigation of golf course. Water-quality and sediment data collected at this site. Water year 1986 stream flow records published in water year 1987 data report. U.S. Army Corps of Engineers satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	42	40	e34	e140	525	342	1880	111	25	49	4.8
2	7.0	83	38	e33	e100	240	834	1240	90	23	34	4.8
3	6.8	127	34	e32	e70	167	521	485	84	22	23	4.6
4	12	127	32	e31	e60	124	219	336	284	20	16	4.5
5	43	83	30	e30	e56	184	168	475	279	18	12	4.2
6	261	54	e27	e30	e52	792	146	752	195	17	10	3.8
7	224	58	e25	e29	e50	684	122	486	344	15	8.9	4.5
8	86	126	e23	e28	76	235	103	266	1340	14	8.2	5.5
9	45	128	e21	e27	147	178	90	322	1300	13	14	8.4
10	29	84	e20	e27	158	115	82	628	716	12	7.6	13
11	20	554	19	e26	e130	93	77	972	253	11	6.2	11
12	e17	1280	17	e26	e110	100	72	1230	201	11	5.8	11
13	e14	977	18	e25	e90	114	69	706	283	11	5.6	8.3
14	e13	376	25	e30	e74	131	68	278	185	10	5.2	7.1
15	e12	189	47	e45	e68	167	70	238	114	12	4.8	6.5
16	e13	134	61	e60	e62	158	117	301	86	14	4.6	5.7
17	14	102	48	784	e58	127	195	756	70	17	4.5	8.1
18	15	222	40	2750	e54	104	172	726	62	47	4.3	8.9
19	14	251	68	3840	e52	140	125	284	57	76	4.3	11
20	13	185	97	1950	107	1100	181	167	50	40	4.2	9.7
21	e13	133	e66	1090	459	988	286	131	46	22	4.2	7.9
22	e13	96	e60	377	454	488	168	119	40	17	4.3	8.5
23	14	78	e52	400	309	307	808	99	36	14	5.0	7.5
24	17	64	e50	1350	300	442	2050	87	36	13	7.0	9.7
25	18	57	e47	1470	231	526	1640	140	83	11	8.0	10
26	17	56	e45	848	266	373	547	130	59	10	6.4	8.7
27	16	55	e43	727	1090	189	294	158	39	9.2	6.0	11
28	18	52	e40	654	1880	143	205	577	33	8.7	5.6	163
29	19	45	e38	290	1560	128	672	466	30	8.9	5.2	367
30	20	40	e36	184	---	116	1840	353	27	35	5.0	118
31	23	---	e35	162	---	109	---	166	---	110	4.9	---
TOTAL	1054.3	5858	1242	17389	8263	9287	12283	14954	6533	686.8	293.8	856.7
MEAN	34.0	195	40.1	561	285	300	409	482	218	22.2	9.48	28.6
MAX	261	1280	97	3840	1880	1100	2050	1880	1340	110	49	367
MIN	6.8	40	17	25	50	93	68	87	27	8.7	4.2	3.8
CFSM	.22	1.24	.26	3.57	1.81	1.91	2.61	3.07	1.39	.14	.06	.18
IN.	.25	1.39	.29	4.12	1.96	2.20	2.91	3.54	1.55	.16	.07	.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 1996, BY WATER YEAR (WY)

	MEAN	30.1	108	171	257	282	315	267	165	134	93.9	46.0	29.7
MAX	295	526	741	1145	625	964	745	482	854	1011	580	241	
(WY)	1991	1973	1991	1950	1982	1963	1957	1996	1947	1987	1995	1981	
MIN	.019	2.44	2.29	9.01	8.02	55.7	43.3	17.8	5.80	5.27	1.35	.70	
(WY)	1954	1964	1964	1977	1964	1983	1971	1955	1962	1962	1952	1953	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1947 - 1996

ANNUAL TOTAL	74244.6	78700.6	
ANNUAL MEAN	203	215	
HIGHEST ANNUAL MEAN			157
LOWEST ANNUAL MEAN			237
HIGHEST DAILY MEAN	3550	Aug 6	1947
LOWEST DAILY MEAN	6.8	Oct 3	1954
ANNUAL SEVEN-DAY MINIMUM	7.8	Sep 27	1959
INSTANTANEOUS PEAK FLOW			11900
INSTANTANEOUS PEAK STAGE			.00
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	1.30		1.00
ANNUAL RUNOFF (INCHES)	17.59		13.62
10 PERCENT EXCEEDS	547		394
50 PERCENT EXCEEDS	60		43
90 PERCENT EXCEEDS	15		4.4

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

SCIOTO RIVER BASIN

03225500 OLENTANGY RIVER NEAR DELAWARE, OH

LOCATION.--Lat 40°21'18", long 83°04'02", in NE 1/4 T.5 N., R.19 W., Delaware County, Hydrologic Unit 05060001, on left bank 500 ft upstream from highway bridge, 1,000 ft downstream from Delaware Dam, 1300 ft upstream from Norfolk and Western Railway bridge, and 4.0 mi north of Delaware.

DRAINAGE AREA.--393 mi².

PERIOD OF RECORD.--October 1923 to September 1934, April 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 878.00 ft above sea level (levels by U.S. Army Corps of Engineers). Prior to Oct. 1, 1950, water-stage recorder at this site 500 ft downstream at datum 1.72 ft lower. Oct. 1, 1950 to Sept. 30, 1985, at datum 78.42 ft lower.

REMARKS.--No estimated daily discharges. Records good. Flow completely regulated by Delaware Lake since 1951. Water-quality data collected at this site. Water-temperature data collected at this site. U.S. Army Corps of Engineers Satellite Telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,100 ft³/s Mar. 21, 1927, gage-height, 16.9 ft, site and datum then in use; minimum daily, 0.1 ft³/s Sept. 14-29, 1934.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	49	57	4100	4050	41	67	268	61	148	23
2	19	36	53	144	2670	3160	42	174	268	51	166	19
3	19	262	53	360	959	1080	43	1270	268	51	129	19
4	19	393	53	474	931	667	91	2100	349	38	54	19
5	31	393	97	269	321	510	377	486	584	25	42	20
6	327	185	125	297	29	1350	400	1480	418	19	36	20
7	404	49	105	195	100	1800	397	2800	680	19	37	20
8	400	50	51	36	194	859	206	3170	1070	19	37	18
9	397	69	27	72	256	273	116	199	2000	19	38	17
10	280	116	27	137	234	273	116	1200	2790	19	38	17
11	119	156	27	166	238	161	116	1060	1390	21	37	16
12	117	795	111	118	344	107	116	614	906	24	37	15
13	60	1680	60	71	349	133	116	3170	769	24	37	16
14	28	1820	31	70	229	245	116	4230	513	24	37	20
15	28	1440	36	70	166	381	217	2140	423	43	38	20
16	23	780	95	225	147	367	263	981	193	187	38	20
17	14	339	95	671	127	362	501	1750	85	197	37	21
18	15	606	107	852	126	287	398	3700	20	134	37	22
19	15	1050	163	162	125	276	220	4210	20	690	37	22
20	15	783	288	81	129	899	282	4150	20	697	36	24
21	341	166	231	62	628	1820	270	3180	28	181	31	25
22	354	247	108	59	945	1800	884	1490	472	62	41	25
23	352	298	108	78	776	1750	860	762	266	59	41	25
24	16	298	106	142	628	1390	981	385	101	62	39	26
25	16	293	106	932	620	901	1690	396	55	56	39	26
26	21	293	106	4270	526	809	2620	387	84	41	39	26
27	19	176	128	4250	1410	530	3160	405	122	31	39	26
28	16	133	158	4210	965	329	3000	567	122	31	39	50
29	17	193	100	4140	2010	187	498	1100	113	31	34	149
30	20	117	54	4180	---	39	141	1630	84	32	31	828
31	20	---	54	4130	---	39	---	891	---	95	31	---
TOTAL	3542	13236	2912	30980	20282	26834	18278	50144	14481	3043	1500	1594
MEAN	114	441	93.9	999	699	866	609	1618	483	98.2	48.4	53.1
MAX	404	1820	288	4270	4100	4050	3160	4230	2790	697	166	828
MIN	14	20	27	36	29	39	41	67	20	19	31	15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 1996, BY WATER YEAR (WY)

	MEAN	78.6	287	434	482	658	767	553	407	294	250	122	69.4
MAX	560	1442	1683	1790	2073	2087	1537	1618	1247	1723	1259	538	
(WY)	1987	1973	1991	1952	1959	1963	1964	1996	1981	1987	1995	1979	
MIN	10.8	6.53	7.81	20.5	18.4	117	16.3	33.1	8.19	12.6	18.2	13.9	
(WY)	1965	1992	1992	1954	1964	1983	1971	1962	1962	1988	1988	1967	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1951 1996

ANNUAL TOTAL	187063.3	186826	
ANNUAL MEAN	513	510	365
HIGHEST ANNUAL MEAN			609
LOWEST ANNUAL MEAN			137
HIGHEST DAILY MEAN	4500	Aug 12	5940
LOWEST DAILY MEAN	8.4	Apr 7	1.0
ANNUAL SEVEN-DAY MINIMUM	11	Apr 3	3.4
INSTANTANEOUS PEAK FLOW			6000
INSTANTANEOUS PEAK STAGE			88.13
INSTANTANEOUS LOW FLOW			1.0
10 PERCENT EXCEEDS	1680	1480	1020
50 PERCENT EXCEEDS	185	133	94
90 PERCENT EXCEEDS	20	20	19

SCIOTO RIVER BASIN

87

03227500 SCIOTO RIVER AT COLUMBUS, OH

LOCATION.--Lat 39°54'34", long 83°00'33", Franklin County, Hydrologic Unit 05060001, on right bank at sewage-treatment plant of city of Columbus, 0.4 mi downstream from bridge on Frank Road, 2.8 mi upstream from Scioto Big Run, and 5 mi downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi².

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft above sea level. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Flow regulated by Griggs Reservoir 10.4 mi upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi upstream (see station 03220500), and Delaware Lake 35 mi upstream from station. Records include sewage return flow from Frank Road Treatment Plant. Shadeville Treatment Plant flow enters downstream. Water supply for city of Columbus is obtained from Scioto River downstream from Griggs Dam and Big Walnut Creek downstream from Central College. For statement on diversions from Big Walnut Creek, see REMARKS for station 03229500. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 25.9 ft; discharge, 138,000 ft³/s, estimated by Franklin County Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	92	120	548	e500	4970	9600	2220	11200	2480	360	434	149
2	89	277	421	e600	4680	8060	2860	7960	1670	256	556	149
3	421	178	402	e1000	1900	4480	2030	6310	1570	256	542	155
4	614	394	380	e1200	e1000	2080	1780	6690	2780	264	464	217
5	862	491	357	e1000	e800	2000	1720	7010	1860	233	348	224
6	1790	491	387	e800	e660	3410	1680	6650	2200	189	301	210
7	2650	481	435	e700	621	4720	1540	6590	3420	186	280	231
8	1980	293	e350	e640	667	3790	1410	7370	7890	173	357	225
9	1410	245	e300	e600	927	1830	1140	10200	4930	145	550	220
10	996	335	e270	e560	994	1390	1000	5630	5490	157	340	222
11	642	1710	e260	e500	1180	1240	872	12300	4620	137	278	196
12	407	3270	e250	e490	1240	1010	622	13500	4050	139	284	176
13	337	4310	e300	e480	1220	948	852	8340	3650	161	298	177
14	388	4360	550	e470	1100	1020	788	7960	1960	160	262	170
15	250	3920	439	e450	878	1360	926	7620	1650	242	259	161
16	220	2340	348	e500	746	1470	1200	6810	1330	197	251	355
17	205	1710	388	e1500	647	1420	1100	5460	965	302	232	1160
18	198	1090	509	9440	570	1320	1430	6370	808	3390	206	289
19	196	1890	1050	21300	574	1900	1220	6660	1090	3660	201	212
20	205	2330	1210	13900	969	6460	1330	5730	589	4750	250	196
21	229	1560	1100	9720	1150	6590	1940	5200	532	2980	307	212
22	455	1100	941	7880	1960	5830	2070	3030	508	2170	262	272
23	489	1030	755	6840	2160	5170	7280	1950	904	1150	204	218
24	478	951	e600	11300	2030	4510	10700	1340	736	1030	247	212
25	206	855	e540	8770	1990	3840	9760	1210	480	896	201	203
26	175	804	e500	8930	2070	3210	7920	1510	252	595	196	189
27	211	778	e470	10000	6270	3080	7460	2130	299	462	196	237
28	206	648	e450	8500	10700	1970	5760	3280	458	382	181	2410
29	168	568	e430	6850	8050	1600	10300	5480	444	367	173	629
30	152	623	e410	5930	---	1190	15700	5840	416	901	164	1030
31	132	---	e400	5320	---	1070	---	4080	---	614	153	---
TOTAL	16853	39152	15750	146670	62723	97568	106610	191410	60031	26904	8977	10706
MEAN	544	1305	508	4731	2163	3147	3554	6175	2001	868	290	357
MAX	2650	4360	1210	21300	10700	9600	15700	13500	7890	4750	556	2410
MIN	89	120	250	450	570	948	622	1210	252	137	153	149

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

	MEAN	369	856	1468	2171	2389	3036	2494	1577	1237	832	481	342
MAX	4633	5490	6978	10510	5993	8373	6865	6175	5866	5804	3287	3883	
(WY)	1927	1973	1991	1937	1975	1963	1964	1996	1947	1992	1995	1926	
MIN	60.5	71.7	71.1	96.1	110	493	322	132	97.6	85.5	82.0	66.4	
(WY)	1922	1923	1935	1945	1934	1941	1946	1934	1925	1921	1930	1924	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1921 - 1996

ANNUAL TOTAL	682875	783354	
ANNUAL MEAN	1871	2140	1433
HIGHEST ANNUAL MEAN			2514
LOWEST ANNUAL MEAN			305
HIGHEST DAILY MEAN	14600	21300	48200
LOWEST DAILY MEAN	89	89	47
ANNUAL SEVEN-DAY MINIMUM	94	153	53
INSTANTANEOUS PEAK FLOW		23000	68200
INSTANTANEOUS PEAK STAGE		20.98	27.22
INSTANTANEOUS LOW FLOW		89	47
10 PERCENT EXCEEDS	5450	6670	3940
50 PERCENT EXCEEDS	872	858	466
90 PERCENT EXCEEDS	197	200	117

SCIOTO RIVER BASIN

03228300 BIG WALNUT CREEK AT SUNBURY, OH

LOCATION.--Lat 40°14'10", long 82°51'05", Delaware County, Hydrologic Unit 05060001, on left bank 200 ft downstream from bridge on State Highway 37, 0.1 mi downstream from Rattlesnake Creek, 0.6 mi east of Sunbury, and 0.9 mi upstream from Prairie Run.

DRAINAGE AREA.--101 mi².

PERIOD OF RECORD.--October 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 945 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 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	10	20	e35	e30	153	115	579	60	5.6	18	.00
2	1.0	38	20	e100	e20	114	91	316	53	4.6	8.5	.00
3	1.8	64	18	e350	e15	81	72	186	163	3.9	5.6	.00
4	92	46	17	e300	e11	82	65	507	748	3.2	3.4	.00
5	233	30	17	e250	e10	241	124	679	408	2.8	2.4	.00
6	730	21	18	e230	e11	1060	93	680	146	2.4	.82	.00
7	134	36	16	e210	e25	400	75	235	851	2.1	.22	.00
8	61	76	e13	e200	e50	149	63	259	1260	1.9	.41	.00
9	37	48	e12	e170	98	102	54	1050	299	1.7	32	.00
10	25	36	e11	e150	91	78	48	391	165	1.5	40	.00
11	17	770	10	e140	97	72	43	2300	131	1.2	15	.00
12	13	821	11	e130	15	67	40	1330	844	1.0	7.6	.00
13	10	210	13	e120	e12	75	37	322	316	1.5	5.5	.00
14	8.8	137	31	e110	e11	80	35	183	121	1.7	3.5	.00
15	8.9	104	87	e150	e10	90	48	427	77	2.0	2.8	.00
16	9.4	78	58	e200	e9.4	80	213	624	54	.89	2.7	.22
17	8.2	63	50	e1500	e9.0	65	171	423	40	.66	18	.87
18	7.2	106	37	e2200	e9.0	57	104	198	42	179	7.5	.74
19	5.9	131	87	e2000	e10	312	82	127	210	184	4.2	.65
20	4.2	88	116	386	14	1240	167	92	56	49	2.6	.24
21	4.1	69	e100	211	18	369	167	74	35	20	1.8	.28
22	5.2	56	e60	136	14	229	107	72	25	13	1.4	.65
23	4.8	47	e50	245	29	190	2040	54	18	9.7	1.1	.55
24	4.2	40	e45	1770	18	257	1200	53	14	6.8	.89	.40
25	5.1	35	e38	476	7.5	195	311	109	14	5.4	.70	.31
26	6.1	33	e35	210	41	138	180	74	15	4.2	.44	.20
27	6.8	33	e30	708	968	92	124	137	9.8	3.2	.24	.47
28	8.1	30	e28	250	1360	79	94	380	7.3	2.6	.11	.57
29	9.4	24	e27	145	323	73	1960	251	6.3	2.1	.04	103
30	9.5	21	e25	e70	---	65	2090	149	7.1	2.5	.00	32
31	9.6	---	e25	e45	---	64	---	84	---	3.1	.00	---
TOTAL	1481.3	3301	1125	13197	3335.9	6349	10013	12345	6195.5	523.25	187.47	197.58
MEAN	47.8	110	36.3	426	115	205	334	398	207	16.9	6.05	6.59
MAX	730	821	116	2200	1360	1240	2090	2300	1260	184	40	103
MIN	1.0	10	10	35	7.5	57	35	53	6.3	.66	.00	.00
CFSM	.47	1.09	.36	4.21	1.14	2.03	3.30	3.94	2.04	.17	.06	.07
IN.	.55	1.22	.41	4.86	1.23	2.34	3.69	4.55	2.28	.19	.07	.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1996, BY WATER YEAR (WY)

MEAN	18.8	91.7	132	214	172	181	207	169	145	125	31.5	10.5
MAX	81.2	256	585	426	424	354	334	398	338	348	167	56.4
(WY)	1991	1993	1991	1996	1990	1993	1996	1996	1989	1992	1995	1992
MIN	.002	.051	.72	16.4	46.0	46.0	114	21.8	2.88	.15	.007	.006
(WY)	1992	1992	1992	1992	1992	1990	1992	1991	1991	1991	1991	1991

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1989 - 1996

ANNUAL TOTAL	48487.14	58251.00	
ANNUAL MEAN	133	159	124
HIGHEST ANNUAL MEAN			159
LOWEST ANNUAL MEAN			67.4
HIGHEST DAILY MEAN	2210	2300	3340
LOWEST DAILY MEAN	.00	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.05	.00	.00
INSTANTANEOUS PEAK FLOW		4520	5690
INSTANTANEOUS PEAK STAGE		10.17	11.86
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (CFSM)	1.32	1.58	1.23
ANNUAL RUNOFF (INCHES)	17.86	21.45	16.75
10 PERCENT EXCEEDS	394	372	304
50 PERCENT EXCEEDS	38	40	32
90 PERCENT EXCEEDS	3.6	.80	.38

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

89

e Estimated

SCIOTO RIVER BASIN

03228805 ALUM CREEK AT AFRICA, OH

LOCATION.--Lat 40°10'56", long 82°57'42", in SE 1/4 sec. 1, T.3 N., R.18 W., Delaware County, Hydrologic Unit 05060001, on right bank 400 ft upstream of bridge on Lewis Center Road, 1,200 ft downstream from outlet of Alum Creek Dam, 0.3 mi west of Africa, 2.8 mi upstream from Westerville Reservoir outlet, and 4.2 mi northwest of Westerville.

DRAINAGE AREA.--122 mi².

PERIOD OF RECORD.--Water year 1962 (occasional low-flow measurements) June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 822.00 ft above sea level. (Levels by U.S. Army Corps of Engineers.) July 9, 1974, to Sept. 30, 1985, at datum 22.00 ft lower. Oct. 17, 1973, to July 9, 1974, nonrecording gage at bridge 400 ft downstream at datum 22.00 ft lower. Prior to Oct. 17, 1973, water-stage recorder 600 ft downstream at datum 4.63 ft lower.

REMARKS.--Records fair. Flow regulated by Alum Creek Lake since August 1973. Water-quality and sediment data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREME FOR PERIOD OF RECORD.--Maximum discharge, 6,160 ft³/s Mar. 10, 1964, gage height 13.95 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 5, 1963 reached a stage of 14.2 ft, from floodmarks; discharge, 6,460 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	52	18	72	1580	839	10	14	43	22	18	13
2	16	110	18	73	1020	733	10	450	110	18	18	13
3	17	153	18	e90	e250	740	10	1100	130	15	17	13
4	16	156	18	e100	e200	737	11	923	272	14	17	13
5	18	158	18	e100	e100	637	11	98	477	14	17	13
6	158	156	17	e100	e45	527	10	595	473	15	17	13
7	310	156	17	e100	33	527	10	1000	482	20	17	13
8	310	159	19	e100	33	473	9.8	970	224	20	17	13
9	305	141	19	e100	33	345	9.5	24	529	20	17	14
10	176	95	20	103	33	345	8.4	443	1110	20	17	14
11	22	96	20	85	33	175	5.7	488	1090	15	16	14
12	19	96	20	51	29	20	9.2	26	621	11	16	15
13	19	328	20	31	25	21	10	764	327	11	16	15
14	108	713	20	31	25	21	8.6	1750	107	11	16	15
15	309	713	20	32	25	20	8.9	996	18	13	16	15
16	153	601	20	32	25	20	9.5	26	18	14	15	16
17	33	247	20	374	26	20	9.5	631	17	15	13	17
18	17	130	20	739	26	20	9.1	1740	26	19	13	16
19	14	130	e23	343	27	22	8.6	1690	23	15	13	16
20	13	144	e25	20	29	407	9.9	1630	23	16	14	15
21	14	165	e19	19	48	763	8.4	1590	23	15	16	15
22	14	170	17	19	90	616	10	843	22	15	16	15
23	13	171	17	23	138	307	25	136	22	15	16	15
24	13	146	17	25	137	304	69	50	22	17	17	16
25	12	97	17	21	136	303	209	77	22	17	16	16
26	45	97	18	20	291	296	533	171	22	17	16	16
27	15	95	52	465	526	242	744	319	22	17	14	16
28	23	96	72	1620	334	147	739	440	22	17	13	23
29	23	95	72	1540	435	86	298	477	21	17	13	18
30	25	75	72	1570	---	10	19	476	21	18	16	17
31	31	---	72	1630	---	10	---	239	---	18	14	---
TOTAL	2277	5741	835	9628	5732	9733	2843.1	20176	6339	501	487	453
MEAN	73.5	191	26.9	311	198	314	94.8	651	211	16.2	15.7	15.1
MAX	310	713	72	1630	1580	839	744	1750	1110	22	18	23
MIN	12	52	17	19	25	10	5.7	14	17	11	13	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

	MEAN	55.7	127	149	136	188	175	108	124	90.9	77.9	43.8	60.6
MAX	309	375	460	437	464	514	358	651	293	364	570	618	
(WY)	1987	1980	1991	1993	1990	1979	1979	1996	1990	1987	1980	1980	
MIN	3.85	5.39	6.15	1.50	5.48	5.02	3.46	3.32	3.61	3.05	3.31	3.53	
(WY)	1974	1989	1976	1976	1981	1987	1981	1976	1976	1976	1981	1981	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1974 - 1996

ANNUAL TOTAL	54053.1	64745.1	
ANNUAL MEAN	148	177	111
HIGHEST ANNUAL MEAN			243
LOWEST ANNUAL MEAN			8.54
HIGHEST DAILY MEAN	1670	1750	1980
LOWEST DAILY MEAN	9.5	5.7	.00
ANNUAL SEVEN-DAY MINIMUM	10	8.6	1.5
INSTANTANEOUS PEAK FLOW		1830	2310
INSTANTANEOUS PEAK STAGE		5.43	27.74
INSTANTANEOUS LOW FLOW		5.7	.00
10 PERCENT EXCEEDS	452	552	319
50 PERCENT EXCEEDS	27	22	17
90 PERCENT EXCEEDS	13	13	5.4

SCIOTO RIVER BASIN

91

03229000 ALUM CREEK AT COLUMBUS, OH

LOCATION.--Lat 39°56'42", long 82°56'28", in NW 1/4 sec. 24, T.5 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on left bank 0.2 mi downstream from Livingston Avenue bridge in Columbus, and 6 mi upstream from mouth.
 DRAINAGE AREA.--189 mi².
 PERIOD OF RECORD.--July 1923 to December 1935, January 1938 to current year.
 REVISED RECORDS.--WSP 758: 1933. WSP 1305: 1928(M). WSP 1908: Drainage area.
 GAGE.--Water-stage recorder. Datum of gage is 733.69 ft above sea level.
 REMARKS.--Records fair, except for periods of estimated record, which are poor. Flow regulated by Alum Creek Lake 19 mi upstream, since Aug. 1973. Water-quality and sediment data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.
 EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft³/s Jan. 22, 1959, gage height, 19.59 ft (from high-water mark in well), from rating curve extended above 17,000 ft³/s on basis of contracted-opening measurement of peak flow; no flow Sept. 21-29, 1959.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	45	52	e100	1570	907	299	347	67	29	60	13
2	14	214	39	e120	1400	745	119	246	124	27	27	13
3	14	196	33	e140	e270	729	61	1200	289	25	25	14
4	243	186	30	e140	e200	718	102	1560	576	23	26	16
5	158	185	28	e130	e150	835	140	694	559	21	22	20
6	151	184	27	e120	e80	904	63	632	524	19	22	17
7	369	317	25	e110	51	639	62	1180	1020	17	21	81
8	347	203	24	e110	58	524	47	1340	902	16	166	43
9	337	186	23	e100	63	338	45	1150	273	16	79	24
10	310	111	21	e90	53	320	43	278	1190	16	28	50
11	67	592	21	e80	53	260	42	1800	1190	15	22	27
12	39	266	19	e70	53	51	39	395	963	15	47	18
13	33	208	19	e60	53	47	37	300	413	15	45	18
14	70	747	102	e50	53	46	36	1690	195	16	24	16
15	294	737	52	e60	53	62	138	2190	67	27	20	15
16	281	710	44	67	53	48	153	526	57	49	21	178
17	50	300	39	825	52	44	76	252	50	40	19	424
18	43	173	59	1370	51	41	48	1700	141	1030	18	55
19	36	137	232	1900	51	275	49	1700	485	148	16	30
20	43	138	85	160	265	744	143	1650	78	76	15	21
21	55	178	53	77	141	881	62	1610	56	70	16	65
22	41	175	47	53	129	774	68	1310	51	130	14	130
23	37	171	44	285	187	338	1250	212	46	77	15	40
24	34	165	41	934	198	337	398	92	45	134	37	26
25	31	94	38	204	172	327	247	73	59	95	19	21
26	29	90	35	93	339	294	413	115	50	74	17	20
27	81	90	34	334	1510	271	771	378	41	64	15	43
28	46	92	68	1510	1020	141	782	429	37	56	14	1070
29	43	90	e60	1600	249	133	2350	793	33	55	15	124
30	44	87	e70	1540	---	52	1290	508	31	332	16	46
31	41	---	e80	1630	---	127	---	416	---	105	14	---
TOTAL	3395	7067	1544	14062	8577	11952	9373	26766	9612	2832	915	2678
MEAN	110	236	49.8	454	296	386	312	863	320	91.4	29.5	89.3
MAX	369	747	232	1900	1570	907	2350	2190	1190	1030	166	1070
MIN	14	45	19	50	51	41	36	73	31	15	14	13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	102	200	238	227	302	295	228	220	185	159	107	111											
MAX	536	637	780	556	784	662	550	863	602	532	808	738											
(WY)	1987	1986	1991	1993	1990	1984	1979	1996	1990	1990	1980	1980											
MIN	15.7	25.8	32.8	27.2	24.9	38.5	29.9	28.7	18.8	11.4	11.2	14.8											
(WY)	1988	1976	1988	1981	1992	1983	1976	1976	1988	1982	1982	1985											

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1974 - 1996

	1995	1996	1974-1996
ANNUAL TOTAL	88970	98773	
ANNUAL MEAN	244	270	197
HIGHEST ANNUAL MEAN			359
LOWEST ANNUAL MEAN			66.3
HIGHEST DAILY MEAN	2150	2350	6840
LOWEST DAILY MEAN	10	13	1.5
ANNUAL SEVEN-DAY MINIMUM	11	14	2.4
INSTANTANEOUS PEAK FLOW		3670	8600
INSTANTANEOUS PEAK STAGE		8.19	12.50
INSTANTANEOUS LOW FLOW		13	1.5
10 PERCENT EXCEEDS	751	887	550
50 PERCENT EXCEEDS	85	77	64
90 PERCENT EXCEEDS	19	19	15

SCIOTO RIVER BASIN

03229500 BIG WALNUT CREEK AT REES, OH

LOCATION.--Lat 39°51'24", long 82°57'26", in NE 1/4 sec. 26, T.4 N., R.22 W., Franklin County, Hydrologic Unit 05060001, on right bank at downstream side of bridge on Reese Road, 0.5 mi southwest of Rees, 4.2 mi downstream from Alum Creek, and 10.5 mi upstream from mouth.

DRAINAGE AREA.--544 mi².

PERIOD OF RECORD.--August 1921 to December 1935, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1053: 1929, 1933(M), 1945. WSP 1305: 1923(M), 1925-26(M).

GAGE.--Water-stage recorder. Datum of gage is 698.20 ft above sea level. Aug. 18, 1921, to Oct. 23, 1927, nonrecording gage at site 0.3 mi upstream at datum 2.00 ft higher prior to Oct. 1, 1924, at present datum thereafter.

REMARKS.--Record good. Flow regulated by Hoover Reservoir 26 mi upstream (see station 03228400) and Alum Creek Lake 30 mi upstream since August 1973. Beginning June 15, 1956, diversion at Morse Road Treatment Plant, 21 mi upstream from station, for municipal water supply for the city of Columbus. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 59,800 ft³/s Jan. 22, 1959, gage height, 22.03 ft (from highwater mark in well), from rating curve extended above 13,000 ft³/s on basis of contracted-opening measurement of peak flow; minimum, 5 ft³/s Sept. 4, 5, 10-12, 1925; minimum daily since 1956, 9.4 ft³/s Sept. 13, 1964.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	105	142	321	e1000	1520	1120	4310	289	147	254	61
2	56	363	89	698	e700	1090	740	2040	358	117	148	52
3	408	329	84	641	e460	e980	377	1830	649	115	121	53
4	771	339	85	e330	e290	e920	369	2100	2290	117	113	65
5	1200	318	86	e290	e290	1080	831	2890	1500	100	97	76
6	1340	317	82	e260	e290	3760	701	2540	1040	98	89	66
7	536	488	81	e230	e290	2340	475	2030	2890	88	86	142
8	447	369	77	e210	e270	1200	342	1850	4190	86	96	131
9	411	271	e68	e200	e240	672	285	5240	1360	97	620	81
10	384	216	e62	e190	e220	e520	251	2070	1710	102	155	98
11	210	1020	e74	e180	e210	e450	228	3610	1520	92	101	86
12	130	1110	e74	e170	e210	326	215	4880	1840	83	88	69
13	101	416	75	e160	e200	303	190	2580	1340	77	116	59
14	138	874	281	e155	e200	289	185	1880	686	81	97	55
15	304	891	279	e150	e190	457	324	3210	355	115	88	51
16	361	867	157	e230	e190	332	829	3420	296	146	87	114
17	158	476	120	514	e200	269	564	1540	213	109	78	900
18	101	341	148	3030	e200	248	337	2160	324	1990	69	172
19	80	279	673	3990	e210	745	440	1920	964	727	64	94
20	82	257	568	4910	e240	3900	680	1790	556	234	64	72
21	214	291	295	3120	e700	3100	711	1760	280	136	63	67
22	175	289	e170	728	e900	1640	425	1490	205	480	77	295
23	160	271	e140	546	e760	1110	3150	457	179	232	68	122
24	115	261	e130	2840	780	1030	4510	401	175	142	100	78
25	75	208	e120	4280	656	1090	3010	383	226	560	80	78
26	82	179	e110	1840	841	703	1160	373	168	204	67	62
27	141	176	e108	1050	4230	789	1080	698	155	130	62	78
28	146	189	e107	2500	5440	443	1030	673	141	103	70	2460
29	123	179	e110	2190	2010	382	5420	1850	129	96	67	579
30	117	174	e120	1880	---	287	7850	1060	133	250	68	194
31	96	---	e160	e1700	---	250	---	722	---	901	63	---
TOTAL	8718	11863	4875	39533	22417	32225	37829	63757	26161	7955	3416	6510
MEAN	281	395	157	1275	773	1040	1261	2057	872	257	110	217
MAX	1340	1110	673	4910	5440	3900	7850	5240	4190	1990	620	2460
MIN	56	105	62	150	190	248	185	373	129	77	62	51
(+)	113	94.9	97.5	99	87.9	96.5	102	110	118	135	136	114

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

	MEAN	218	419	531	573	733	788	684	562	472	396	289	240
MAX	951	1398	2110	1458	1747	1688	1467	2057	1501	1313	1566	1814	
(WY)	1987	1986	1991	1993	1990	1984	1979	1996	1989	1990	1980	1979	
MIN	57.4	47.8	111	115	110	121	130	63.3	64.0	84.7	52.8	57.3	
(WY)	1995	1992	1988	1977	1992	1983	1976	1976	1988	1991	1993	1985	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1974 - 1996

ANNUAL TOTAL	208859	265259	538 #	
ANNUAL MEAN	572	725	740	1979
HIGHEST ANNUAL MEAN			221	1992
LOWEST ANNUAL MEAN			14000	Sep 15 1979
HIGHEST DAILY MEAN	8590	Aug 6	7850	Apr 30
LOWEST DAILY MEAN	31	Jan 7	51	Sep 15
ANNUAL SEVEN-DAY MINIMUM	33	Jan 3	61	Aug 29
INSTANTANEOUS PEAK FLOW			8510	Apr 30
INSTANTANEOUS PEAK STAGE			12.60	Apr 30
INSTANTANEOUS LOW FLOW			43	Dec 10
10 PERCENT EXCEEDS	1440	2030	1240	
50 PERCENT EXCEEDS	230	275	189	
90 PERCENT EXCEEDS	80	78	57	

e Estimated

(+) Average diversion by City of Columbus Municipal Water Supply

Adjusted for diversion.

SCIOTO RIVER BASIN

93

03230310 LITTLE DARBY CREEK AT WEST JEFFERSON, OH

LOCATION.--Lat 39°57'04", long 83°16'10", Madison County, Hydrologic Unit 05060001, at bridge on Middle Pike, 0.4 mi north of West Jefferson, and 7.2 mi upstream from Big Darby Creek.
DRAINAGE AREA.--162 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 785 ft above sea level. Prior to 1992, low-flow partial-record site.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	27	44	e64	e170	484	383	2130	190	60	98	11
2	18	30	45	e80	e150	338	664	1060	171	56	65	9.8
3	25	35	42	e130	e130	e200	421	731	201	53	51	9.6
4	46	38	40	e115	e110	e170	308	729	398	50	43	10
5	131	33	38	e100	e100	e150	250	1230	296	46	37	9.9
6	598	30	38	e85	e95	467	213	1080	223	43	34	9.8
7	394	36	37	e70	e90	572	206	745	468	42	31	9.9
8	217	40	e33	e60	e92	e280	214	743	1560	40	44	9.3
9	143	45	e32	e56	e110	e180	198	2700	857	38	58	10
10	102	40	e30	e54	e150	e150	170	1900	989	34	36	11
11	78	111	e29	e50	191	e135	151	1290	910	35	30	11
12	64	423	e28	e47	161	162	140	2450	672	32	27	11
13	55	267	e27	e45	e105	174	130	1420	716	30	27	13
14	52	185	41	e42	e92	183	121	727	391	31	25	11
15	49	145	54	e41	e80	215	117	773	304	36	23	9.4
16	44	116	57	e40	e72	195	134	1250	238	37	21	13
17	39	97	e40	e200	e66	166	147	975	194	34	21	32
18	36	88	e45	e1350	e64	146	143	704	190	735	19	29
19	34	85	144	3220	e62	231	137	482	177	641	18	18
20	32	80	e210	e1500	e90	888	197	360	153	288	17	14
21	32	79	e150	e850	165	721	396	295	130	171	17	12
22	33	73	e110	585	195	472	245	241	117	141	15	13
23	34	67	e95	570	217	355	707	202	106	115	15	13
24	30	62	e85	1310	260	346	1660	183	98	98	16	13
25	29	55	e75	1490	228	338	1070	163	93	105	15	12
26	28	54	e64	761	202	256	636	148	82	77	14	11
27	30	56	e56	696	636	193	425	165	75	59	13	12
28	31	57	e50	565	1420	173	321	242	71	49	12	127
29	32	49	e43	370	1030	165	1540	427	66	46	12	141
30	30	44	e46	293	---	146	3360	399	63	107	12	61
31	28	---	e50	e210	---	139	---	244	---	191	11	---
TOTAL	2511	2547	1878	15049	6533	8790	14804	26188	10199	3520	877	676.7
MEAN	81.0	84.9	60.6	485	225	284	493	845	340	114	28.3	22.6
MAX	598	423	210	3220	1420	888	3360	2700	1560	735	98	141
MIN	17	27	27	40	62	135	117	148	63	30	11	9.3
CFSM	.50	.52	.37	3.00	1.39	1.75	3.05	5.21	2.10	.70	.17	.14
IN.	.58	.58	.43	3.46	1.50	2.02	3.40	6.01	2.34	.81	.20	.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	30.1	158	105	345	188	292	313	374	214	267	101	16.6
MAX	81.0	312	258	485	273	503	493	845	340	701	335	22.6
(WY)	1996	1994	1994	1996	1994	1993	1996	1996	1996	1993	1995	1996
MIN	4.67	8.59	22.7	160	91.7	190	196	86.4	89.2	70.3	12.4	7.83
(WY)	1995	1995	1995	1995	1995	1994	1995	1993	1993	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1993 - 1996

ANNUAL TOTAL	67108.2	93572.7	201
ANNUAL MEAN	184	256	256
HIGHEST ANNUAL MEAN			1996
LOWEST ANNUAL MEAN			1994
HIGHEST DAILY MEAN	1560	3360	3360
LOWEST DAILY MEAN	7.6	9.3	3.8
ANNUAL SEVEN-DAY MINIMUM	8.5	9.8	4.1
INSTANTANEOUS PEAK FLOW		3800	3800
INSTANTANEOUS PEAK STAGE		13.00	13.00
INSTANTANEOUS LOW FLOW		9.3	3.8
ANNUAL RUNOFF (CFSM)	1.13	1.58	1.24
ANNUAL RUNOFF (INCHES)	15.41	21.49	16.84
10 PERCENT EXCEEDS	481	723	517
50 PERCENT EXCEEDS	93	96	80
90 PERCENT EXCEEDS	21	17	10

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

SCIOTO RIVER BASIN

03230310 LITTLE DARBY CREEK AT WEST JEFFERSON, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 19, 1992, to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: November 12, 1992, to current year.

INSTRUMENTATION.--Refrigerated water-quality pumping sampler since November 12, 1992.

REMARKS.--Suspended-sediment samples were collected by pumping sampler. Pumped samples were collected every 1-ft rise and 2-ft drop in stage. Sediment samples also were collected by a local observer, on an approximate once daily basis, from May 22, 1995, to April 17, 1996. Technician collected suspended-sediment samples intermittently after April 17, 1996. Suspended-sediment loads were calculated using the mean-interval method (Porterfield, George, 1972, Computation of Fluvial-Sediment Discharge: U.S. Geological Survey, Techniques of Water-Resources Investigations, book 3, chap. C3, 66 p.). For days with unsteady concentration, discharge, or both, the day was subdivided into quarter-hour intervals and the daily load was calculated by summing the loads for these quarter-hour intervals. This required interpolation between measured and estimated concentrations.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 708 mg/L, May 9, 1996; minimum daily mean, 3 mg/L, Feb. 14, 20, 21, 1995.

SEDIMENT LOADS: Maximum daily, 5,180 tons, May 9, 1996; minimum daily, 0.22 ton, Sep. 25, 1994.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 708 mg/L, May 9; minimum daily mean, 5 mg/L, Dec. 4.

SEDIMENT LOADS: Maximum daily, 5,180 tons, May 9; minimum daily, 0.51 ton, Dec. 4.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SAM- PLING METHOD, CODES* (82398)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDIMENT PARTICLE SIZE <.0625MM SILTCLAY (PERCENT) (80250)
OCT 26...	1015	10	28.3	677	10.0	10.0	8	--
MAY 20...	1235	10	358	540	31.5	20.0	71	64.0
JUL 24...	0955	10	91.5	650	25.5	21.0	51	--

* 10 - STREAM CROSS-SECTION SAMPLE OBTAINED BY EQUAL-WIDTH-INCREMENT (EWI) SAMPLING METHOD.

SCIOTO RIVER BASIN

95

03230310 LITTLE DARBY CREEK AT WEST JEFFERSON, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	17	22	1.0	27	42	3.1	44	11	1.3
2	18	12	.58	30	44	3.6	45	8	.95
3	25	11	.82	35	35	3.3	42	9	.98
4	46	27	3.4	38	21	2.2	40	5	.51
5	131	42	24	33	21	1.9	38	6	.63
6	598	86	131	30	16	1.3	38	24	2.4
7	394	26	29	36	9	.90	37	73	7.4
8	217	19	11	40	8	.91	e33	73	6.5
9	143	23	8.9	45	10	1.2	e32	77	6.7
10	102	30	8.2	40	8	.91	e30	73	5.9
11	78	36	7.6	111	16	6.7	e29	81	6.4
12	64	37	6.3	423	49	57	e28	92	7.0
13	55	35	5.2	267	12	8.7	e27	104	7.6
14	52	35	4.9	185	18	8.9	41	117	13
15	49	36	4.7	145	26	10	54	134	20
16	44	34	4.0	116	28	8.9	57	140	21
17	39	32	3.4	97	22	5.9	e40	140	15
18	36	37	3.6	88	11	2.5	e45	114	14
19	34	32	2.9	85	12	2.7	144	64	23
20	32	25	2.2	80	13	2.9	e210	37	21
21	32	20	1.7	79	14	3.0	e150	26	10
22	33	27	2.4	73	12	2.4	e110	19	5.8
23	34	37	3.3	67	11	2.0	e95	28	7.2
24	30	34	2.8	62	6	1.1	e85	32	7.4
25	29	29	2.3	55	13	2.0	e75	32	6.4
26	28	20	1.5	54	11	1.7	e64	30	5.2
27	30	36	2.9	56	9	1.4	e56	29	4.4
28	31	32	2.7	57	6	.91	e50	28	3.7
29	32	35	3.0	49	7	.93	e43	26	3.1
30	30	32	2.5	44	7	.81	e46	25	3.1
31	28	35	2.6	---	---	---	e50	24	3.3
TOTAL	2511	---	290.40	2547	---	149.77	1878	---	240.87

e Estimated

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	e64	24	4.1	e170	23	11	484	96	128
2	e80	30	6.5	e150	22	8.8	338	53	49
3	e130	38	13	e130	20	7.2	e200	31	17
4	e115	37	11	e110	19	5.7	e170	17	7.9
5	e100	34	9.3	e100	18	4.8	e150	13	5.1
6	e85	32	7.3	e95	17	4.3	467	42	61
7	e70	29	5.5	e90	16	3.8	572	53	85
8	e60	27	4.4	e92	14	3.6	e280	32	24
9	e56	25	3.8	e110	16	4.9	e180	27	13
10	e54	23	3.4	e150	22	8.9	e150	25	10
11	e50	21	2.9	191	28	14	e135	23	8.2
12	e47	20	2.5	161	25	11	162	23	10
13	e45	18	2.2	e105	20	5.8	174	25	12
14	e42	17	1.9	e92	19	4.6	183	24	12
15	e41	16	1.7	e80	17	3.7	215	18	11
16	e40	15	1.6	e72	16	3.1	195	21	11
17	e200	44	24	e66	15	2.6	166	22	10
18	e1350	238	866	e64	14	2.3	146	21	8.3
19	3220	501	4440	e62	12	2.1	231	50	44
20	e1500	193	781	e90	16	3.8	888	125	298
21	e850	59	136	165	23	10	721	71	143
22	585	22	36	195	22	12	472	53	68
23	570	27	44	217	23	14	355	46	44
24	1310	129	472	260	32	23	346	39	37
25	1490	116	478	228	26	16	338	34	31
26	761	62	130	202	22	12	256	30	20
27	696	64	121	636	186	396	193	26	13
28	565	49	75	1420	386	1470	173	22	10
29	370	39	39	1030	189	555	165	19	8.7
30	293	31	25	---	---	---	146	17	6.7
31	e210	26	14	---	---	---	139	15	5.7
TOTAL	15049	---	7762.1	6533	---	2624.0	8790	---	1211.6

e Estimated

SCIOTO RIVER BASIN

03230310 LITTLE DARBY CREEK AT WEST JEFFERSON, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	383	74	94	2130	204	1220	190	36	18
2	664	129	237	1060	106	310	171	30	14
3	421	50	58	731	74	148	201	37	24
4	308	31	26	729	88	181	398	158	170
5	250	20	14	1230	148	492	296	94	77
6	213	15	8.5	1080	97	285	223	47	28
7	206	14	7.7	745	65	132	468	93	149
8	214	13	7.6	743	118	306	1560	417	1810
9	198	13	6.9	2700	708	5180	857	189	462
10	170	11	4.9	1900	255	1370	989	270	753
11	151	11	4.5	1290	196	722	910	191	498
12	140	19	7.0	2450	295	1960	672	153	284
13	130	23	8.2	1420	122	503	716	191	383
14	121	21	6.9	727	72	141	391	140	148
15	117	18	5.7	773	118	291	304	126	104
16	134	15	5.6	1250	179	607	238	114	73
17	147	13	5.3	975	128	341	194	100	53
18	143	12	4.7	704	86	166	190	78	41
19	137	11	4.2	482	58	77	177	75	36
20	197	15	8.2	360	58	56	153	73	30
21	396	25	27	295	60	47	130	72	25
22	245	17	11	241	54	35	117	71	22
23	707	110	308	202	48	26	106	70	20
24	1660	241	1090	183	43	21	98	69	18
25	1070	89	273	163	38	17	93	67	17
26	636	58	99.7	148	34	14	82	66	15
27	425	44	51	165	36	17	75	65	13
28	321	34	30	242	51	34	71	64	12
29	1540	344	1760	427	168	204	66	63	11
30	3360	409	3740	399	123	143	63	62	11
31	---	---	---	244	48	32	---	---	---
TOTAL	14804	---	7914.6	26188	---	15078	10199	---	5319

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	60	61	9.9	98	58	16	11	23	.66
2	56	60	9.0	65	47	8.3	9.8	24	.62
3	53	58	8.3	51	42	5.9	9.6	24	.62
4	50	48	6.5	43	38	4.5	10	24	.66
5	46	39	4.9	37	34	3.5	9.9	24	.65
6	43	32	3.7	34	31	2.9	9.8	25	.65
7	42	26	2.9	31	28	2.3	9.9	25	.67
8	40	23	2.5	44	40	5.7	9.3	25	.64
9	38	34	3.5	58	48	7.8	10	26	.72
10	34	52	4.8	36	33	3.2	11	26	.80
11	35	50	4.8	30	24	1.9	11	27	.80
12	32	45	3.9	27	19	1.4	11	27	.83
13	30	40	3.3	27	18	1.3	13	28	.95
14	31	36	3.0	25	18	1.3	11	29	.83
15	36	32	3.1	23	19	1.2	9.4	29	.74
16	37	29	2.9	21	19	1.1	13	34	1.3
17	34	26	2.4	21	19	1.1	32	55	4.8
18	735	182	417	19	19	1.0	29	49	3.9
19	641	125	223	18	20	.97	18	36	1.8
20	288	84	66	17	20	.92	14	33	1.2
21	171	61	28	17	20	.92	12	32	1.0
22	141	49	19	15	20	.85	13	31	1.1
23	115	39	12	15	21	.83	13	30	1.1
24	98	40	11	16	21	.92	13	29	.99
25	105	51	15	15	21	.85	12	28	.87
26	77	45	9.2	14	22	.83	11	26	.79
27	59	40	6.4	13	22	.77	12	26	.85
28	49	37	4.9	12	22	.74	127	88	34
29	46	33	4.1	12	22	.71	141	69	27
30	107	57	24	12	23	.72	61	44	7.4
31	191	105	57	11	23	.71	---	---	---
TOTAL	3520	---	976.0	877	---	81.14	676.7	---	98.94
YEAR	93572.7		41746.72						

SCIOTO RIVER BASIN

97

03230450 HELLBRANCH RUN NEAR HARRISBURG, OH

LOCATION.--Lat 39°49'50", long 83°09'36", Franklin County, Hydrologic Unit 05060001, on right side of abandoned bridge, 500 ft upstream of Lambert Road, 1.0 mi upstream of mouth, and 1.5 mi north-northeast of Harrisburg.
DRAINAGE AREA.--37.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1992 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 785 ft above mean sea level (from topographic map).

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

REVISIONS.--The peak discharges and annual maximum, daily discharges (ft³/s), and monthly and yearly discharges for water years 1993-1995 have been revised as shown in the following tables. They supersede figures published in WRD-OH-1 for 1993-1995.

Peak discharges and annual maximum (*):

WATER YEAR	DATE	TIME	DISCHARGE (ft ³ /s)	GAGE HEIGHT (ft)
1993	Jan. 5, 1993	0200	604	7.71
1993	Mar. 4, 1993	1730	804	8.39
1993	Apr. 25, 1993	2145	722	8.12
1993	Jul. 2, 1993	0045	*1160	*9.43
1994	Jan. 26, 1994	0100	*1140	*9.37
1994	Jan. 28, 1994	1430	962	8.87
1994	Apr. 10, 1994	1246	722	8.12
1995	May 18, 1995	1600	571	7.59
1995	Aug. 6, 1995	0230	*1040	*9.08

Daily discharges:

Jan. 5, 1993	450	Jan. 27, 1994	324
Mar. 4	620	28	855
5	539	29	476
Apr. 25	203	Apr. 10	424
26	512	May 18, 1995	e450
Jul. 1	238	Aug. 5	264
2	677	6	810
Jan. 26, 1994	889		

Monthly and yearly discharges:

MONTH	TOTAL	MEAN	MAX	MIN	CFSM	IN.
January 1993	3136	101	450	18	2.73	3.15
March	3365	109	620	24	2.93	3.38
April	2466	82.2	512	22	2.22	2.48
July	2546.4	82.1	677	3.4	2.22	2.56
Water Year 1993	15318.08	42.0	677	.00	1.13	15.40
January 1994	3022.3	97.5	889	1.0	2.63	3.04
April	2246	74.9	424	10	2.02	2.26
Calendar Year 1993	15063.85	41.3	677	.00	1.12	15.15
Water Year 1994	10447.68	28.6	889	.00	.77	10.50
May 1995	2613	84.3	450	16	2.28	2.63
August	2028.4	65.4	810	1.5	1.77	2.04
Calendar Year 1994	8999.37	24.7	889	.00	.67	9.05
Water Year 1995	11842.18	32.4	810	.00	.88	11.91

e Estimated

SCIOTO RIVER BASIN

03230450 HELLBRANCH RUN NEAR HARRISBURG, OH--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	2.0	5.7	e23	e35	60	e550	e420	58	7.2	48	.12
2	.20	9.9	5.3	82	e30	46	280	203	46	6.5	27	.09
3	1.3	11	4.8	68	e26	e29	169	e140	51	5.9	18	.07
4	21	6.1	4.4	e40	e23	e26	120	e250	140	5.2	13	.08
5	94	4.0	4.1	e32	e21	e27	118	e350	83	4.7	9.3	.06
6	171	3.4	e3.5	e26	e20	e130	79	e200	57	3.9	7.2	.06
7	60	12	e3.1	e22	e19	e90	69	e160	e200	3.7	5.9	.06
8	31	17	e2.8	e20	e18	e58	59	e600	e270	3.4	17	.03
9	19	8.3	e2.6	e18	e21	e41	46	e400	119	3.1	15	.04
10	13	6.3	e2.5	e16	25	e30	37	e260	80	2.5	7.3	.02
11	9.3	137	e2.4	e14	32	e26	32	e400	e160	2.0	5.0	.02
12	6.9	123	e2.2	e13	23	35	28	e250	e190	1.6	4.2	.01
13	5.2	61	e2.1	e12	e19	39	26	e140	82	1.4	3.7	.01
14	5.5	42	e9.0	e11	e16	37	22	e100	e250	1.4	3.1	.01
15	6.5	30	17	e10	e13	90	27	e240	e150	3.8	2.6	.00
16	5.1	22	11	e9.5	e12	62	64	e300	73	5.4	2.3	.23
17	3.8	17	8.3	e300	e11	42	47	175	49	2.8	1.9	14
18	3.1	17	21	e650	e11	33	35	114	39	e350	1.5	5.0
19	2.6	15	150	e1000	e10	e270	33	79	58	e260	1.3	1.5
20	3.0	14	101	e400	e50	e400	56	58	37	86	1.1	.66
21	3.8	13	55	147	69	205	46	50	27	46	.85	.39
22	5.0	12	35	104	65	149	32	42	22	62	.63	.54
23	3.8	10	26	171	63	110	350	34	18	34	.48	.99
24	2.8	8.6	21	438	68	100	327	33	15	23	.55	1.0
25	2.1	7.6	18	215	47	77	162	29	16	71	.64	.48
26	2.0	7.7	e15	130	47	52	100	27	13	31	.78	.16
27	2.4	8.3	e13	187	e200	38	62	e80	11	18	.52	.13
28	3.4	7.8	e11	106	e300	35	45	e140	9.6	13	.38	67
29	4.0	5.8	e10	71	98	33	e950	e300	8.9	11	.33	28
30	2.9	5.2	e8.5	e45	---	28	e750	e150	8.1	82	.18	10
31	2.3	---	e9.0	e40	---	45	---	86	---	110	.13	---
TOTAL	496.19	644.0	584.3	4420.5	1392	2443	4721	5810	2340.6	1261.5	199.87	130.76
MEAN	16.0	21.5	18.8	143	48.0	78.8	157	187	78.0	40.7	6.45	4.36
MAX	171	137	150	1000	300	400	950	600	270	350	48	67
MIN	.19	2.0	2.1	9.5	10	26	22	27	8.1	1.4	.13	.00
CFSM	.43	.58	.51	3.85	1.30	2.13	4.25	5.07	2.11	1.10	.17	.12
IN.	.50	.65	.59	4.44	1.40	2.46	4.75	5.84	2.35	1.27	.20	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
MEAN	4.26	23.2	18.0	99.9	39.0	66.3	87.2	75.5	34.7	40.9	18.4	1.44
MAX	16.0	46.2	30.5	143	49.5	109	157	187	78.0	82.1	65.4	4.36
(WY)	1996	1993	1994	1996	1994	1993	1996	1996	1996	1993	1995	1996
MIN	.000	1.34	5.86	58.2	23.6	37.0	34.2	13.7	8.44	8.24	.76	.30
(WY)	1995	1995	1995	1995	1995	1994	1995	1994	1994	1994	1993	1993

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1993 - 1996

ANNUAL TOTAL	13344.78	24443.72	
ANNUAL MEAN	36.6	66.8	42.5
HIGHEST ANNUAL MEAN			66.8
LOWEST ANNUAL MEAN			28.6
HIGHEST DAILY MEAN	810	1000	1000
LOWEST DAILY MEAN	.19	.00	.00
ANNUAL SEVEN-DAY MINIMUM	.25	.02	.00
INSTANTANEOUS PEAK FLOW		1300	1300
INSTANTANEOUS PEAK STAGE		9.80	9.80
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (CFSM)	.99	1.81	1.15
ANNUAL RUNOFF (INCHES)	13.42	24.58	15.60
10 PERCENT EXCEEDS	89	188	105
50 PERCENT EXCEEDS	15	21	13
90 PERCENT EXCEEDS	.96	1.0	.10

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

03230450 HELLBRANCH RUN NEAR HARRISBURG, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 4, 1992, to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: October 1, 1992, to current year.

INSTRUMENTATION.--Refrigerated water-quality pumping sampler since October 1, 1992.

REMARKS.--Water-quality samples were collected by equal-width-increment (EWI) sampling method, approximately once per month from January through September. Suspended-sediment samples and seasonal-event water-quality samples were collected by pumping sampler. Pumped samples were collected every 0.5-ft rise and 1-ft drop in stage. Sediment samples also were collected by a local observer on an approximate once daily basis. Suspended-sediment loads were calculated using the mean-interval method (Porterfield, George, 1972, Computation of Fluvial-Sediment Discharge: U.S. Geological Survey, Techniques of Water-Resources Investigations, book 3, chap. C3, 66 p.). For days with unsteady concentration, discharge, or both, the day was subdivided into quarter-hour intervals and the daily load was calculated by summing the loads for these quarter-hour intervals. This required interpolation between measured and estimated concentrations.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 601 mg/L, Jan. 26, 1994; minimum daily mean, 1 mg/L, Oct. 11, Nov. 3, 4, 1995, and Aug. 7, 1996.

SEDIMENT LOADS: Maximum daily, 2,250 tons, Jan. 26, 1994; minimum daily, 0.00 ton, on many days during 1993, 1994, and 1995 and on several days during 1996.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 473 mg/L, Jul. 18; minimum daily mean, 1 mg/L, Oct. 11, Nov. 3, 4, and Aug. 7.

SEDIMENT LOADS: Maximum daily, 904 tons, Apr. 29; minimum daily, 0.00 ton, on several days during the year.

REVISIONS.--The instantaneous water discharges for water years 1993 and 1994, along with the daily, monthly, and yearly discharges of suspended sediment, in tons, for water years 1993-1995, have been revised. These revisions are shown in the following tables. They supersede figures published in WRD-OH-1 for 1993-1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1992 TO SEPTEMBER 1993

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	PHOS- PHORUS + ORTHO TOTAL (MG/L AS P) (00665)	PHOS- PHORUS HYDRO. + ORTHO TOTAL (MG/L AS P) (00678)	ALA- CHLOR TOTAL (UG/L) (77825)
JAN							
05...	0045	582	4.00	0.14	0.490	0.22	<0.01
APR							
25...	1945	579	1.30	0.16	1.80	0.48	<0.06
25...	2145	722	1.20	0.16	0.920	0.41	<0.05
DATE	TIME	ATRA- ZINE TOTAL RECOV- ERABLE (UG/L)	CYANA- ZINE TOTAL RECOV- ERABLE (UG/L)	ENDRIN TOTAL RECOV- ERABLE (UG/L)	LIN- DANE TOTAL RECOV- ERABLE (UG/L)	METOLA- OXY- CHLOR TOTAL RECOV- ERABLE (UG/L)	SIMA- ZINE TOTAL RECOV- ERABLE (UG/L)
JAN							
05...	0.24	<0.30	<0.010	<0.01	<0.010	<0.410	<0.20
APR							
25...	<0.16	<0.43	<0.005	<0.01	<0.012	<0.378	<0.18
25...	<0.15	<0.41	<0.004	<0.01	<0.011	<0.367	<0.17

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

a - Data analysis was done by the City of Columbus Water Quality Assurance Laboratory.
Detection limits are based on daily instrument performance.

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	PHOS- PHORUS + ORTHO TOTAL (MG/L AS P) (00665)	PHOS- PHORUS HYDRO. + ORTHO TOTAL (MG/L AS P) (00678)	ALA- CHLOR TOTAL RECOVER (UG/L) (77825)	ATRA- ZINE TOTAL RECOV- ERABLE (UG/L) a	CYANA- ZINE TOTAL RECOV- ERABLE (UG/L) a	METOLA- CHLOR WATER WHOLE TOT.REC (UG/L) (82612)	SIMA- ZINE TOTAL RECOV- ERABLE (UG/L) a
JAN											
26...	1730	872	3.5	0.13	0.39	0.23	<0.11	0.18	0.33	<0.21	<0.14
28...	0300	733	2.6	0.07	0.50	0.28	<0.22	<0.14	<0.26	<0.26	<0.16
28...	0615	891	2.0	0.16	0.51	0.31	<0.10	<0.11	<0.19	<0.26	<0.12
28...	1100	928	1.7	0.11	0.49	0.31	<0.11	<0.12	<0.10	<0.28	<0.11
APR											
10...	1000	521	2.8	0.08	0.78	0.32	--	--	--	--	--
10...	1330	698	2.5	0.18	0.89	0.41	--	--	--	--	--

SCIOTO RIVER BASIN

03230450 HELLBURCH RUN NEAR HARRISBURG, OH--Continued

Daily suspended-sediment discharges:

DATE	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	DATE	MEAN DISCHARGE (FT ³ /S)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
Jan. 5, 1993	450	428	595	Jan. 26, 1994	889	601	1610
Mar. 4	620	452	800	Jan. 27	324	89	91
Mar. 5	539	178	292	Jan. 28	855	263	616
Apr. 25	203	306	402	Jan. 29	476	100	140
Apr. 26	512	343	519	Apr. 10	424	454	690
Jul. 1	238	297	358	May 18, 1995	e450	260	316
Jul. 2	677	459	1040	Aug. 5	264	253	486
				Aug. 6	810	499	1250

Monthly and yearly suspended-sediment discharges:

MONTH	TOTAL MEAN DISCHARGE (FT ³ /S)	TOTAL SEDIMENT DISCHARGE (TONS)
January 1993	3136	1441.13
March	3365	1397.09
April	2466	1279.48
July	2546.4	2029.93
Water Year 1993	15318.08	6938.52
January 1994	3022.3	2541.54
April	2246	1041.55
Water Year 1994	10447.68	4176.93
May 1995	2613	827.05
August	2028.4	1802.05
Water Year 1995	11842.18	4976.23

e Estimated

SCIOTO RIVER BASIN

101

03230450 HELLBRANCH RUN NEAR HARRISBURG, OH--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SAM- PLING METHOD, CODES* (82398)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
OCT										
26...	1240	10	2.02	874	--	15.0	9.0	--	--	--
JAN										
12...	1130	10	13#	862	7.8	--	0.0	14.0	52	96
22...	1130	50	103	--	--	--	--	--	32	46
23...	2045	50	219	--	--	--	--	--	29	49
23...	2330	50	347	--	--	--	--	--	27	46
24...	0330	50	488	--	--	--	--	--	24	33
25...	1045	50	212	--	--	--	--	--	26	33
30...	1020	50	45#	--	--	--	--	--	41	52
MAR										
04...	1040	10	26#	718	8.0	1.0	0.0	14.2	45	58
APR										
09...	1115	10	45.6	640	8.1	3.0	6.0	16.5	45	53
23...	0945	50	128	--	--	--	--	--	35	53
23...	1045	50	255	--	--	--	--	--	27	46
23...	1145	50	407	--	--	--	--	--	22	35
23...	1315	50	560	--	--	--	--	--	14	26
24...	1145	50	288	--	--	--	--	--	23	25
MAY										
20...	0955	10	58.9	407	--	27.0	19.5	--	--	--
JUN										
05...	1151	10	81.3	555	7.9	20.0	15.0	9.4	27	32
JUL										
08...	1130	10	3.54	824	7.9	28.0	21.0	--	34	80
23...	1310	10	32.5	562	--	26.0	20.0	--	--	--
AUG										
01...	1210	10	46.9	548	7.9	24.0	20.0	8.4	3.8	31
SEP										
10...	1141	10	0.030	808	7.9	21.5	20.5	8.0	50	75
DATE		SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	RESIDUE TOTAL AT 105 DEG. C, SUS- PENDED (MG/L) (00530)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (MG/L AS P) (00625)	PHOS- PHORUS ORTHOPHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS ORTHOPHOS- PHORUS TOTAL (MG/L AS P) (00671)	SEDIMENT PARTICLE SIZE <.0625MM SILTCLAY (PERCENT) (80250)
OCT										
26...	--	--	--	--	--	--	--	--	1	--
JAN										
12...	5.1	<2	0.02	3.38	0.09	0.29	<0.025	<0.010	--	--
22...	7.1	46	0.03	4.59	0.11	0.79	0.202	0.057	--	--
23...	6.3	84	0.03	3.81	0.16	1.2	0.256	0.060	--	--
23...	6.2	292	0.04	3.36	0.13	2.0	0.459	0.067	--	--
24...	5.9	223	0.03	3.05	0.08	1.7	0.471	0.102	--	--
25...	6.4	69	0.03	4.03	0.09	0.97	0.275	0.066	--	--
30...	7.2	45	0.02	4.06	0.11	0.53	0.135	0.016	--	--
MAR										
04...	5.3	5	<0.02	3.88	0.10	0.45	0.054	<0.010	--	--
APR										
09...	4.4	10	0.02	4.32	0.06	0.21	0.032	<0.010	--	--
23...	1.8	612	0.04	4.02	0.03	3.6	0.643	<0.010	--	--
23...	2.4	668	0.04	3.44	<0.03	4.5	0.772	0.010	--	--
23...	3.2	1020	0.05	2.62	<0.03	5.1	1.08	0.015	--	--
23...	4.1	662	0.06	2.35	<0.03	4.1	0.917	0.024	--	--
24...	6.4	417	0.06	4.45	<0.03	2.3	0.594	0.061	--	--
MAY										
20...	--	--	--	--	--	--	--	--	16	75.3
JUN										
05...	7.4	35	0.08	4.68	0.07	0.61	0.130	0.029	--	--
JUL										
08...	2.8	2	<0.02	1.70	<0.03	0.34	0.040	0.027	--	--
23...	--	--	--	--	--	--	--	--	11	--
AUG										
01...	8.0	22	0.03	2.94	<0.03	0.59	0.118	0.031	--	--
SEP										
10...	4.6	2	<0.02	<0.18	<0.03	0.11	<0.025	<0.010	--	--

* 10 - STREAM CROSS-SECTION SAMPLE OBTAINED BY EQUAL-WIDTH-INCREMENT (EWI) SAMPLING METHOD.

50 - POINT SAMPLE OBTAINED FROM REFRIGERATED-PUMPING SAMPLER.

ESTIMATED DAILY DISCHARGE, INSTANTANEOUS DISCHARGE IS NOT AVAILABLE.

SCIOTO RIVER BASIN

03230450 HELLBRANCH RUN NEAR HARRISBURG, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
OCTOBER			NOVEMBER			DECEMBER			
1	.19	18	.01	2.0	2	.01	5.7	63	.97
2	.20	12	.01	9.9	2	.05	5.3	16	.23
3	1.3	6	.02	11	1	.04	4.8	49	.63
4	21	5	.26	6.1	1	.02	4.4	102	1.2
5	94	104	69	4.0	3	.03	4.1	117	1.3
6	171	100	62	3.4	3	.03	e3.5	29	.28
7	60	16	2.7	12	6	.25	e3.1	10	.08
8	31	5	.47	17	5	.23	e2.8	9	.07
9	19	2	.12	8.3	5	.10	e2.6	9	.06
10	13	2	.06	6.3	6	.11	e2.5	8	.06
11	9.3	1	.03	137	83	52	e2.4	8	.05
12	6.9	4	.07	123	46	18	e2.2	8	.05
13	5.2	3	.04	61	13	2.2	e2.1	8	.04
14	5.5	2	.03	42	7	.77	e9.0	20	.49
15	6.5	2	.03	30	6	.46	17	27	1.2
16	5.1	3	.04	22	8	.48	11	18	.54
17	3.8	4	.05	17	12	.56	8.3	14	.31
18	3.1	6	.05	17	11	.51	21	19	1.3
19	2.6	5	.04	15	10	.42	150	65	28
20	3.0	3	.02	14	11	.41	101	22	6.6
21	3.8	3	.03	13	12	.42	55	25	3.6
22	5.0	4	.05	12	10	.33	35	37	3.6
23	3.8	6	.06	10	7	.18	26	39	2.7
24	2.8	4	.03	8.6	8	.18	21	45	2.5
25	2.1	4	.02	7.6	9	.18	18	55	2.6
26	2.0	3	.02	7.7	16	.34	e15	40	1.6
27	2.4	6	.04	8.3	48	1.1	e13	33	1.1
28	3.4	5	.05	7.8	43	.91	e11	30	.88
29	4.0	6	.07	5.8	47	.73	e10	27	.73
30	2.9	6	.05	5.2	36	.51	e8.5	24	.56
31	2.3	4	.03	---	---	---	e9.0	22	.54
TOTAL	496.19	---	135.50	644.0	---	81.56	584.3	---	63.87

e Estimated

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JANUARY			FEBRUARY			MARCH			
1	e23	20	1.2	e35	77	7.3	60	16	2.6
2	82	19	4.1	e30	76	6.1	46	9	1.1
3	68	31	5.5	e26	74	5.2	e29	8	.61
4	e40	31	3.3	e23	73	4.5	e26	16	1.1
5	e32	25	2.2	e21	72	4.1	e27	23	1.7
6	e26	23	1.6	e20	70	3.8	e130	29	10
7	e22	21	1.3	e19	69	3.5	e90	25	6.1
8	e20	19	1.0	e18	67	3.3	e58	17	2.7
9	e18	18	.86	e21	66	3.8	e41	15	1.6
10	e16	16	.70	25	65	4.4	e30	13	1.1
11	e14	15	.57	32	64	5.5	e26	12	.87
12	e13	14	.48	23	62	3.8	35	14	1.3
13	e12	13	.41	e19	53	2.7	39	8	.87
14	e11	12	.34	e16	20	.88	37	9	.88
15	e10	11	.29	e13	28	.97	90	52	14
16	e9.5	10	.25	e12	38	1.2	62	15	2.7
17	e300	257	209	e11	29	.87	42	7	.80
18	e650	271	475	e11	19	.56	33	7	.63
19	e1000	251	678	e10	12	.32	e270	282	205
20	e400	80	86	e50	34	4.5	e400	236	255
21	147	34	14	69	22	4.2	205	65	37
22	104	23	6.4	65	12	2.2	149	34	14
23	171	63	35	63	7	1.1	110	23	6.9
24	438	154	188	68	6	1.1	100	16	4.5
25	215	63	38	47	4	.58	77	13	2.6
26	130	30	11	47	11	1.5	52	8	1.2
27	187	54	29	e200	269	145	38	7	.78
28	106	26	7.7	e300	121	98	35	8	.76
29	71	18	3.4	98	33	9.1	33	7	.63
30	e45	61	7.4	---	---	---	28	6	.44
31	e40	79	8.5	---	---	---	45	14	5.9
TOTAL	4420.5	---	1820.50	1392	---	330.08	2443	---	585.37

e Estimated

LOCATION.--Lat 39°42'02", long 83°06'37", Pickaway County, Hydrologic Unit 05060001, on right bank at upstream side of State Highway 316, 0.4 mi northeast of Darbyville, 0.4 mi upstream from Lizzard Run, and 3.0 mi downstream from Greenbrier Creek.

DRAINAGE AREA.--534 mi².

PERIOD OF RECORD.--October 1921 to December 1935, January 1938 to current year. Prior to October 1959, published as Darby Creek at Darbyville.
REVISED RECORDS.--WSP 1083: 1922(M), 1924(M), 1927(M), 1933(M), 1938(M). WSP 1305: 1928-31(M), 1934(M), 1945(M). WSP 1505: 1932(M). WSP 1908: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 713.69 ft above sea level. Prior to Mar. 17, 1940, nonrecording gage at same site and datum.
REMARKS.--Records good, except for estimated records, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	101	144	e230	610	e1560	1760	9630	746	182	373	44
2	56	115	145	455	e450	e1000	2870	3470	604	174	239	44
3	64	127	141	628	e350	e660	1710	2080	569	166	185	44
4	101	120	139	e470	e320	e580	1250	1960	1240	154	157	44
5	228	137	132	e400	e290	e540	1130	3750	1130	143	135	43
6	1220	128	130	e300	e270	e1410	897	3780	804	137	123	40
7	1450	130	126	e230	e250	e1800	797	2550	1470	132	115	39
8	745	149	123	e200	e260	e900	749	2250	3470	131	122	38
9	473	143	e110	e180	e400	e680	681	6090	2750	123	319	40
10	334	163	e100	e170	e520	e540	576	6760	1620	116	175	40
11	252	390	e96	e160	603	e500	491	3660	1960	112	131	38
12	206	1360	e92	e150	622	535	436	6490	1790	107	113	37
13	175	1230	e90	e145	e380	573	404	6340	2130	102	105	38
14	163	712	e115	e140	e340	606	383	2070	1490	99	100	39
15	155	530	163	e135	e280	966	379	1980	1320	105	91	38
16	143	420	175	e130	e250	846	519	3530	841	109	88	40
17	135	331	175	e900	e230	656	536	2900	648	119	80	66
18	127	288	196	3320	e220	544	555	2120	547	1230	79	98
19	120	270	649	e10600	e210	1040	472	1460	684	2210	72	86
20	116	297	e750	e7000	402	3090	575	1110	605	1300	67	91
21	114	294	e640	e3810	669	2750	1290	911	459	644	67	64
22	113	267	e450	e1760	825	1740	951	761	375	578	63	55
23	105	227	e360	1660	846	1360	1820	630	329	403	60	50
24	111	208	e300	e4000	931	1260	4920	592	298	322	61	48
25	111	186	e260	e5190	888	1290	4270	516	284	498	59	44
26	104	177	e220	e2500	724	1100	1790	477	260	317	55	41
27	101	173	e180	e2300	1740	783	1270	670	243	222	79	44
28	106	178	e160	e1800	e4500	631	993	1010	219	183	68	227
29	107	166	e140	e1310	e2850	577	3470	2880	218	162	59	512
30	107	154	e155	e1090	---	511	8980	2210	196	196	51	381
31	104	---	e170	818	---	464	---	1100	---	696	46	---
TOTAL	7503	9171	6826	52181	21230	31492	46924	85737	29299	11172	3537	2453
MEAN	242	306	220	1683	732	1016	1564	2766	977	360	114	81.8
MAX	1450	1360	750	10600	4500	3090	8980	9630	3470	2210	373	512
MIN	56	101	90	130	210	464	379	477	196	99	46	37
CFSM	.45	.57	.41	3.15	1.37	1.90	2.93	5.18	1.83	.67	.21	.15
IN.	.52	.64	.48	3.64	1.48	2.19	3.27	5.97	2.04	.78	.25	.11

MEAN	108	265	470	718	785	945	833	583	425	257	158	95.5
MAX	1223	1745	2287	2808	2146	2758	2190	2766	1917	1868	1216	1652
(WY)	1927	1986	1991	1959	1975	1963	1957	1996	1958	1993	1980	1979
MIN	3.91	13.6	18.5	23.4	37.2	84.0	133	42.6	14.9	9.08	9.82	6.43
(WY)	1964	1954	1964	1945	1934	1931	1925	1934	1934	1934	1930	1964

ANNUAL TOTAL	207974		307525			
ANNUAL MEAN	570		840		469	
HIGHEST ANNUAL MEAN					840	1996
LOWEST ANNUAL MEAN					79.1	1934
HIGHEST DAILY MEAN	4960	Aug 7	10600	Jan 19	38400	Jan 22 1959
LOWEST DAILY MEAN	34	Jan 10	37	Sep 12	1.4	Sep 17 1932
ANNUAL SEVEN-DAY MINIMUM	37	Jan 4	39	Sep 7	2.0	Oct 7 1963
INSTANTANEOUS PEAK FLOW			13000	Jan 19 a e	49000	Jan 22 1959
INSTANTANEOUS PEAK STAGE			unknown	Jan 19	17.94	Jan 22 1959
INSTANTANEOUS LOW FLOW			37	Sep 12	1.4	Sep 17 1932
ANNUAL RUNOFF (CFSM)	1.07		1.57		.88	
ANNUAL RUNOFF (INCHES)	14.49		21.42		11.92	
10 PERCENT EXCEEDS	1440		2120		1130	
50 PERCENT EXCEEDS	297		319		155	
90 PERCENT EXCEEDS	81		67		25	

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

SCIOTO RIVER BASIN

105

03230500 BIG DARBY CREEK AT DARBYVILLE, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1965-1977, 1988, May 6, 1992, to current year.

PERIOD OF DAILY RECORD.--

SUSPENDED-SEDIMENT DISCHARGE: November 12, 1992, to current year.

REMARKS.--Suspended-sediment samples were collected by pumping sampler. Pumped samples were collected every 1-ft rise and 2-ft drop in stage. Sediment samples also were collected by a local observer on an approximate once daily basis. Suspended-sediment loads were calculated using the mean-interval method (Porterfield, George, 1972, Computation of Fluvial-Sediment Discharge: U.S. Geological Survey, Techniques of Water-Resources Investigations, book 3, chap. C3, 66 p.). For days with unsteady concentration, discharge, or both, the day was subdivided into quarter-hour intervals and the daily load was calculated by summing the loads for these quarter-hour intervals. This required interpolation between measured and estimated concentrations.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 736 mg/L, Feb. 28, 1996; minimum daily mean, 1 mg/L, Oct. 25-27, 1995.

SEDIMENT LOADS: Maximum daily, 13,500 tons, Apr. 30, 1996; minimum daily, 0.25 ton, Oct. 11, 1993.

EXTREMES FOR CURRENT YEAR.--

SEDIMENT CONCENTRATIONS: Maximum daily mean, 736 mg/L, Feb. 28; minimum daily mean, 1 mg/L, Oct. 25-27.

SEDIMENT LOADS: Maximum daily, 13,500 tons, Apr. 30; minimum daily, 0.30 ton, Oct. 26.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	SAM- PLING METHOD, CODES* (82398)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDIMENT PARTICLE SIZE <.0625MM SILTCLAY (PERCENT) (80250)
OCT 26...	1425	10	105	766	18.0	11.0	1	--
MAY 21...	1235	10	908	588	24.0	20.5	49	56.9
JUL 23...	1050	10	396	587	21.0	20.0	37	--

* 10 - STREAM CROSS-SECTION SAMPLE OBTAINED BY EQUAL-WIDTH-INCREMENT (EWI) SAMPLING METHOD.

SCIOTO RIVER BASIN

107

03230500 BIG DARBY CREEK AT DARBYVILLE, OH--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
APRIL			MAY			JUNE			
1	1760	182	1020	9630	336	9140	746	112	227
2	2870	221	1740	3470	147	1440	604	77	126
3	1710	97	463	2080	86	488	569	54	83
4	1250	60	204	1960	92	506	1240	130	446
5	1130	36	112	3750	274	2900	1130	114	355
6	897	22	53	3780	207	2180	804	67	146
7	797	15	33	2550	152	1100	1470	213	924
8	749	10	21	2250	111	708	3470	338	3410
9	681	10	18	6090	582	9940	2750	218	1780
10	576	10	16	6760	378	7190	1620	117	519
11	491	11	14	3660	185	1850	1960	314	1670
12	436	12	14	6490	420	7510	1790	246	1300
13	404	11	12	6340	234	4460	2130	330	1980
14	383	10	10	2070	89	504	1490	339	1700
15	379	12	13	1980	115	706	1320	238	968
16	519	25	35	3530	192	1830	841	125	286
17	536	17	25	2900	160	1240	648	90	158
18	555	26	40	2120	203	1160	547	67	99
19	472	22	28	1460	186	735	684	93	173
20	575	42	72	1110	157	474	605	143	246
21	1290	88	323	911	72	178	459	67	82
22	951	83	216	761	57	117	375	64	65
23	1820	262	1930	630	69	117	329	55	49
24	4920	427	5610	592	75	120	298	60	48
25	4270	197	2440	516	72	101	284	66	51
26	1790	87	429	477	64	82	260	45	31
27	1270	46	161	670	185	445	243	28	18
28	993	33	90	1010	179	507	219	24	14
29	3470	502	5570	2880	620	5480	218	27	16
30	8980	556	13500	2210	283	1720	196	31	16
31	---	---	---	1100	165	500	---	---	---
TOTAL	46924	---	34212	85737	---	65428	29299	---	16986

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
JULY			AUGUST			SEPTEMBER			
1	182	36	18	373	135	138	44	41	5.0
2	174	37	17	239	94	61	44	74	8.7
3	166	39	17	185	80	40	44	74	8.8
4	154	42	17	157	73	31	44	80	9.4
5	143	45	17	135	67	24	43	78	9.0
6	137	46	17	123	61	20	40	78	8.3
7	132	45	16	115	56	17	39	73	7.7
8	131	44	16	122	57	20	38	61	6.3
9	123	42	14	319	139	126	40	67	7.2
10	116	34	11	175	115	54	40	68	7.3
11	112	28	8.4	131	108	38	38	66	6.8
12	107	23	6.6	113	102	31	37	57	5.7
13	102	24	6.6	105	99	28	38	54	5.5
14	99	22	5.8	100	92	25	39	57	6.0
15	105	19	5.3	91	77	19	38	54	5.6
16	109	17	4.9	88	62	15	40	51	5.6
17	119	19	6.3	80	96	21	66	58	10
18	1230	216	1250	79	106	23	98	57	15
19	2210	188	1130	72	90	17	86	55	13
20	1300	159	575	67	79	14	91	53	13
21	644	150	260	67	66	12	64	43	7.3
22	578	163	256	63	64	11	55	27	4.1
23	403	84	90	60	68	11	50	44	6.0
24	322	124	108	61	86	14	48	58	7.5
25	498	168	232	59	93	15	44	52	6.1
26	317	134	116	55	91	13	41	57	6.3
27	222	111	67	79	90	19	44	55	6.6
28	183	93	46	68	95	18	227	158	121
29	162	78	34	59	84	13	512	143	198
30	196	89	60	51	75	10	381	79	86
31	696	177	332	46	54	6.8	---	---	---
TOTAL	11172	---	4759.9	3537	---	904.8	2453	---	612.8
YEAR	307525		176655.96						

SCIOTO RIVER BASIN

03230800 DEER CREEK AT MT. STERLING, OH

LOCATION.--Lat 39°42'54", long 83°15'26", Madison County, Hydrologic Unit 05060002, on left bank at downstream side of bridge on State Highway 56, 0.2 mi downstream from unnamed right bank tributary, 0.6 mi southeast of Mount Sterling, and 4.9 mi upstream from Duffs Fork.

DRAINAGE AREA.--228 mi².

PERIOD OF RECORD.--October 1966 to September 1981; October 1995 to September 1996.

REVISED RECORDS.--WDR OH-75-1: 1968(M).

GAGE.--Water-stage recorder. Datum of gage is 836.25 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	45	70	e100	e160	e300	795	2300	301	47	380	23
2	17	64	69	e300	e130	e230	1280	1110	231	43	196	22
3	24	105	64	e250	e120	e180	722	744	225	40	131	24
4	68	100	63	e200	e100	e160	508	968	988	36	99	28
5	204	89	59	e150	e94	192	532	2180	817	33	81	32
6	1150	84	56	e100	e86	759	427	2490	410	31	71	56
7	562	105	e45	e90	e80	890	359	1060	922	30	63	69
8	287	145	e40	e80	e76	449	300	1700	1640	30	61	64
9	172	108	e37	e74	e70	295	251	4360	882	29	140	62
10	124	95	e35	e70	e150	231	213	2280	897	27	98	66
11	97	411	e33	e66	275	214	190	1950	688	24	76	59
12	81	791	e32	e62	207	252	172	2120	575	23	64	56
13	71	393	e40	e58	e140	273	163	916	336	23	58	53
14	69	278	61	e56	e120	276	145	605	240	23	52	51
15	68	222	74	e54	e100	774	145	753	296	25	47	56
16	60	178	60	e52	e94	671	192	1700	199	30	45	63
17	55	151	52	e350	e90	426	181	1100	152	24	42	103
18	50	146	87	2710	e86	313	160	722	137	255	39	74
19	49	138	705	7640	e96	741	156	514	310	595	36	52
20	50	127	706	e4500	223	2550	237	390	210	194	33	42
21	54	124	396	e2000	422	1310	359	319	131	94	32	42
22	53	113	255	e800	348	895	256	278	106	147	31	49
23	48	103	191	e660	358	654	1240	229	91	95	29	46
24	46	95	158	2670	434	645	3130	258	80	66	35	40
25	46	86	e120	1600	342	552	1110	245	92	550	35	36
26	45	86	e100	790	310	414	661	214	72	281	29	33
27	51	88	e86	996	950	298	442	365	61	111	27	32
28	56	87	e74	686	1190	251	323	854	58	69	26	203
29	56	74	e68	466	612	228	3260	2520	53	55	26	218
30	49	69	e54	360	---	212	5660	1760	49	88	24	92
31	45	---	e50	e230	---	204	---	501	---	874	24	---
MEAN	123	157	127	910	257	511	786	1210	375	129	68.7	61.5
MAX	1150	791	706	7640	1190	2550	5660	4360	1640	874	380	218
MIN	17	45	32	52	70	160	145	214	49	23	24	22
CFSM	.54	.69	.56	3.99	1.13	2.24	3.45	5.31	1.64	.56	.30	.27
IN.	.62	.77	.64	4.60	1.22	2.58	3.85	6.12	1.84	.65	.35	.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 1996, BY WATER YEAR (WY)

	MEAN	60.9	174	284	322	363	452	392	371	241	124	118	82.1
MAX	180	743	641	910	910	1239	786	1210	648	480	531	779	779
(WY)	1980	1973	1978	1996	1975	1978	1996	1996	1973	1973	1979	1979	1979
MIN	12.8	35.3	15.7	10.0	111	113	58.5	29.2	23.9	12.9	14.9	11.7	11.7
(WY)	1968	1979	1977	1977	1978	1969	1976	1976	1977	1977	1977	1968	1968

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1967 - 1996

ANNUAL MEAN	394	248	
HIGHEST ANNUAL MEAN	394	1996	
LOWEST ANNUAL MEAN	82.7	1977	
HIGHEST DAILY MEAN	7640	Jan 19	9400
LOWEST DAILY MEAN	17	Oct 1	5.4
ANNUAL SEVEN-DAY MINIMUM	24	Aug 28	7.1
INSTANTANEOUS PEAK FLOW	9280	Jan 19 a	19500
INSTANTANEOUS PEAK STAGE	11.49	Jan 19	80.93
INSTANTANEOUS LOW FLOW	17	Oct 1	.00
ANNUAL RUNOFF (CFSM)	1.73		1.09
ANNUAL RUNOFF (INCHES)	23.54		14.78
10 PERCENT EXCEEDS	918		569
50 PERCENT EXCEEDS	125		100
90 PERCENT EXCEEDS	35		19

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

e Estimated

b Site and datum then in use

SCIOTO RIVER BASIN

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03230900 DEER CREEK NEAR PANCOASTBURG, OH

LOCATION.--Lat 39°37'14", long 83°12'47", Pickaway County, Hydrologic Unit 05060002, on left bank 200 ft downstream from bridge on Crownover Mill Road, 1,200 ft downstream from Deer Creek Dam, and 2.8 mi east of Pancoastburg.

DRAINAGE AREA.--277 mi².

PERIOD OF RECORD.--Water years 1964-66 (occasional low-flow measurements and annual maximums), July 1966 to current year.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 768.00 ft above sea level, U.S. Army Corps of Engineers benchmark.

Oct. 23, 1963, to June 30, 1966, crest-stage gage at site 200 ft upstream at datum 8.16 ft lower. July 1, 1966, to Sept. 30, 1983, at datum 68.00 ft lower.

REMARKS.--No estimated daily discharge. Records good. Flow completely regulated by Deer Creek Lake (capacity 26,440 acre-ft) since April 1, 1968. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,500 ft³/s (estimated) Mar. 10, 1964; gage height, 12.93 ft, present datum.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	196	105	66	2880	475	72	10	2160	91	489	17
2	20	213	96	242	2820	317	168	122	2140	91	252	17
3	21	212	96	446	2700	315	89	1150	2030	91	181	17
4	49	210	75	400	2570	344	91	523	1500	91	153	17
5	156	210	67	250	2220	391	93	43	1910	90	84	17
6	564	297	67	208	1020	606	93	380	2150	89	52	17
7	624	373	51	207	215	986	95	1000	929	80	52	43
8	538	291	35	143	204	783	95	1220	485	66	52	69
9	311	253	30	100	296	387	96	611	839	56	98	58
10	148	251	30	156	301	385	96	9.3	1900	197	150	58
11	128	248	30	157	300	437	66	287	1790	106	117	58
12	128	251	30	163	351	433	22	695	1600	18	87	58
13	196	659	37	178	379	375	22	328	1950	18	73	49
14	225	766	63	149	330	374	23	1090	1890	18	52	44
15	223	727	69	132	203	520	23	2020	1730	33	52	38
16	223	471	47	132	125	673	36	1090	2130	40	52	23
17	226	270	47	325	101	671	61	1050	2160	40	52	50
18	224	231	75	652	101	552	84	2200	2160	51	46	63
19	223	230	328	15	101	486	134	2190	2170	594	35	64
20	223	308	927	8.0	250	1620	154	2170	1890	886	98	64
21	223	343	931	8.4	687	2330	154	2160	2150	494	168	64
22	223	341	319	8.3	553	2160	402	2170	1420	69	16	63
23	159	336	252	8.1	409	1150	516	2170	331	85	16	64
24	128	291	139	262	369	730	900	2160	246	86	16	34
25	120	226	139	583	370	727	970	2150	175	471	16	19
26	144	221	139	10	420	541	1640	2160	157	434	17	20
27	166	292	139	537	901	358	1770	1700	108	181	17	35
28	166	278	139	2040	1360	313	1730	915	87	170	17	140
29	165	223	104	2550	1220	184	401	181	89	146	17	186
30	164	139	66	2840	---	70	10	1020	89	127	17	177
31	163	---	66	2880	---	71	---	2160	---	473	17	---
TOTAL	6291	9357	4738	15855.8	23756	19764	10106	37134.3	40365	5482	2561	1643
MEAN	203	312	153	511	819	638	337	1198	1345	177	82.6	54.8
MAX	624	766	931	2880	2880	2330	1770	2200	2170	886	489	186
MIN	20	139	30	8.0	101	70	10	9.3	87	18	16	17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 1996, BY WATER YEAR (WY)

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
MEAN	137	285	345	318	431	436	269	323	304	163	110	76.7																	
MAX	538	1152	1108	903	1133	1262	764	1198	1345	713	754	856																	
(WY)	1980	1973	1974	1991	1982	1979	1973	1996	1996	1990	1980	1979																	
MIN	12.3	37.7	27.0	20.4	37.4	59.1	9.83	7.75	7.69	9.98	11.8	6.31																	
(WY)	1969	1978	1988	1977	1992	1983	1971	1976	1976	1988	1988	1968																	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1968 - 1996

ANNUAL TOTAL	96291.1	177053.1	
ANNUAL MEAN	264	484	265
HIGHEST ANNUAL MEAN			484
LOWEST ANNUAL MEAN			102
HIGHEST DAILY MEAN	1710	May 23	2930
LOWEST DAILY MEAN	7.0	Apr 14	.00
ANNUAL SEVEN-DAY MINIMUM	7.6	Apr 14	2.4
INSTANTANEOUS PEAK FLOW			3000
INSTANTANEOUS PEAK STAGE			7.06
INSTANTANEOUS LOW FLOW			.00
10 PERCENT EXCEEDS	718	1820	716
50 PERCENT EXCEEDS	156	191	116
90 PERCENT EXCEEDS	19	23	13

SCIOTO RIVER BASIN

03231500 SCIOTO RIVER AT CHILLICOTHE, OH

LOCATION.--Lat 39°20'29", long 82°58'16", Ross County, Hydrologic Unit 05060002, on right bank at north end of Chillicothe, 1,400 ft downstream from Bridge Street bridge, 7.4 mi upstream from Paint Creek, and 15.4 mi downstream from Deer Creek.

WATER-DISCHARGE RECORDS

DRAINAGE AREA.--3,849 mi².

PERIOD OF RECORD.--December 1913 to September 1914 (gage heights and discharge measurements only). October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected in this vicinity since 1907 are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 803: 1929(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 594.05 ft above sea level. Prior to Sept. 30, 1914, nonrecording gage at site 1,300 ft upstream at different datum. Apr. 1, 1921, to Aug. 6, 1930, nonrecording gage, at site 1,400 ft upstream at present datum. Aug. 7, 1930, to Sept. 30, 1969, water-stage recorder 900 ft upstream at same datum.

REMARKS.--Records good, except for period of estimated record, which is fair. Flow regulated by 6 reservoirs 36 mi to 91 mi upstream from station. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 39.8 ft; discharge, 260,000 ft³/s (estimated by Franklin County Conservancy District).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	560	825	1410	1470	12400	20400	4660	34300	10500	1760	3710	632
2	536	864	1280	2420	e10000	15200	9920	36800	7540	1690	2290	597
3	546	1400	1080	4380	e9000	12600	8310	24500	6550	1490	1930	595
4	1260	1300	1030	3720	e7000	7720	5530	19500	7460	1380	1750	602
5	2300	1480	962	3370	e4500	5270	5410	20800	10900	1340	1540	668
6	5510	1600	915	2780	e3800	7940	5370	21500	9040	1280	1310	715
7	6830	1770	913	2600	e2700	15200	4720	20400	11000	1180	1150	700
8	5570	2040	941	2340	2490	12900	4180	17300	17300	1150	1110	713
9	4240	1630	886	2170	2770	7970	3780	19000	20300	1080	1640	882
10	3170	1400	741	2080	3240	4930	3290	25700	16200	1010	2110	758
11	2500	1520	736	2210	3250	4290	2990	27800	14100	969	1480	752
12	1910	5300	724	1850	3410	4160	2640	25200	13400	913	1220	744
13	1480	7210	723	1860	3310	3740	2280	30100	13600	893	1110	684
14	1400	7240	781	1760	3050	3600	2400	26400	12100	890	1120	636
15	1460	7160	1390	1720	2850	4490	2270	18800	12000	935	1020	612
16	1400	6230	1470	1880	2390	6180	3160	20900	8170	1020	964	651
17	1400	4200	1180	4130	2100	4940	3990	21600	6460	1070	939	1040
18	1210	3210	1200	14200	1910	4400	3520	17200	5680	1350	890	2470
19	1080	2540	2820	22400	1810	4810	3500	15800	5500	9290	846	1190
20	1010	3290	6380	28300	2090	14500	3330	14800	6920	8440	794	868
21	1010	3630	5000	33500	5410	21300	4240	13300	5700	7260	794	764
22	1160	2860	3480	24100	5230	19600	5180	12000	4840	4700	878	746
23	1400	2450	2550	14200	5500	14600	5880	9100	3620	4380	883	1010
24	1330	2310	2160	18900	5670	11400	16300	6960	3100	2770	818	842
25	1260	2080	1890	23400	5380	10100	22700	5960	2840	2680	820	701
26	904	1900	1700	23800	4930	8650	21500	5620	2450	3880	827	631
27	860	1790	1590	17900	7000	6770	15900	7220	2020	2310	725	613
28	938	1830	1450	18700	18400	6050	13200	10200	1870	1790	717	1190
29	1010	1640	1410	18100	23900	4600	15000	13100	1920	1570	694	6940
30	906	1480	1300	15300	---	3950	25400	18700	1850	1610	687	2750
31	891	---	1360	13400	---	3300	---	15700	---	3540	673	---
TOTAL	57041	84179	51452	328940	165490	275560	230550	576260	244930	75620	37439	32696
MEAN	1840	2806	1660	10610	5707	8889	7685	18590	8164	2439	1208	1090
MAX	6830	7240	6380	33500	23900	21300	25400	36800	20300	9290	3710	6940
MIN	536	825	723	1470	1810	3300	2270	5620	1850	890	673	595

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

	966	2050	3493	5303	5817	7174	6079	4195	3156	2139	1425	988
MEAN	966	2050	3493	5303	5817	7174	6079	4195	3156	2139	1425	988
MAX	8068	12130	14120	30110	13700	19450	14640	18590	10750	9507	8263	10180
(WY)	1927	1973	1991	1937	1951	1963	1957	1996	1947	1992	1980	1979
MIN	192	210	222	312	386	1041	1136	440	378	303	214	207
(WY)	1954	1935	1935	1931	1934	1931	1941	1934	1925	1930	1930	1953

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1921 - 1996

ANNUAL TOTAL	1600326	2160157	
ANNUAL MEAN	4384	5902	3554
HIGHEST ANNUAL MEAN			6217
LOWEST ANNUAL MEAN			883
HIGHEST DAILY MEAN	23100	Aug 7	127000
LOWEST DAILY MEAN	420	Jan 9	166
ANNUAL SEVEN-DAY MINIMUM	446	Jan 4	174
INSTANTANEOUS PEAK FLOW			144000
INSTANTANEOUS PEAK STAGE			32.50
INSTANTANEOUS LOW FLOW			166
10 PERCENT EXCEEDS	11300	17500	9180
50 PERCENT EXCEEDS	2460	2760	1480
90 PERCENT EXCEEDS	824	819	368

SCIOTO RIVER BASIN

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03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-51, 1965-1981, November 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1965 to October 1981, November 1985 to current year.

pH: June 1971 to October 1981, November 1985 to current year.

WATER TEMPERATURES: October 1950 to September 1951, October 1953 to October 1981, November 1985 to current year.

DISSOLVED OXYGEN: May 1965 to October 1981, November 1985 to current year.

INSTRUMENTATION.--Water-quality monitor. Electronic data logger replaced digital recorder since July 12, 1991. Set for 1-hour interval.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,210 microsiemens Jan. 13, 1976; minimum, 150 microsiemens June 29, 1972.

pH: Maximum, 9.3 units Aug. 24-26, 1981, May 1, 1988, and Oct. 1, 2, 1995; minimum, 6.3 units Mar. 6, 1979.

WATER TEMPERATURES: Maximum, 32.5°C July 17, Aug. 18, 1988; minimum 0.0°C on many days during winters.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days during 1978 thru 1995; minimum, 0.0 mg/L April 27, Aug. 12, Sept. 22, 1966.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,030 microsiemens Jan. 5; minimum, 175 microsiemens May 10.

pH: Maximum recorded, 9.3 units Oct. 12; minimum recorded, 7.3 units Jul. 19.

WATER TEMPERATURES: Maximum, 27.5°C Jul. 2 and Aug. 7, 24; minimum, 0.5°C on several days during winter.

DISSOLVED OXYGEN: Maximum, >18.8 mg/L Jun. 29; minimum, 5.3 mg/L Sep. 7.

SCIOTO RIVER BASIN

03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	748	647	718	719	684	704	693	646	669	878	856	869
2	730	581	690	693	667	683	715	668	698	880	843	865
3	712	682	696	761	668	716	731	703	715	914	845	867
4	777	711	739	780	760	774	742	712	728	926	885	902
5	790	585	703	770	696	735	779	739	766	1030	926	982
6	585	396	512	696	651	676	813	771	802	1030	924	953
7	454	396	422	666	622	642	826	792	808	935	905	925
8	506	454	485	661	627	649	834	805	818	937	885	921
9	539	492	521	671	640	654	857	809	822	942	905	925
10	585	532	562	641	546	596	905	857	883	914	872	894
11	594	562	575	664	553	594	903	869	886	901	882	893
12	608	567	586	724	549	661	874	822	848	907	887	893
13	627	578	601	587	524	552	846	823	834	918	889	906
14	659	598	626	627	585	602	839	772	800	896	855	877
15	687	659	674	638	627	633	829	787	813	931	865	896
16	727	680	705	644	619	635	921	805	841	957	928	943
17	755	684	718	676	589	609	995	921	967	968	724	857
18	716	649	685	596	581	588	1010	939	987	806	650	738
19	679	630	654	623	596	604	939	732	877	656	547	568
20	689	633	658	660	592	634	732	687	708	599	431	540
21	737	689	726	614	590	603	701	636	672	431	327	368
22	759	708	733	617	584	603	789	701	747	389	353	378
23	761	717	740	643	606	621	831	778	814	404	386	397
24	742	702	715	678	643	659	849	823	834	408	349	374
25	722	698	711	698	668	682	858	849	855	440	389	413
26	748	706	724	700	629	670	862	850	857	411	391	401
27	735	707	725	636	612	625	879	848	862	435	374	410
28	723	709	713	672	613	648	882	872	876	470	428	446
29	748	723	740	697	672	686	899	862	883	432	394	415
30	771	740	756	727	686	703	897	861	881	450	405	431
31	753	718	737	---	---	---	899	876	887	479	450	466
MONTH	790	396	663	780	524	648	1010	636	821	1030	327	700

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	497	476	487	503	443	476	673	623	650	281	247	266
2	505	484	492	467	395	434	641	481	532	273	235	255
3	532	504	519	459	405	436	560	484	519	310	247	283
4	599	532	574	517	449	484	604	506	548	344	210	291
5	653	599	622	488	471	478	674	604	658	322	256	299
6	650	586	613	508	476	496	666	619	644	322	277	300
7	639	547	621	503	465	481	697	647	674	370	296	342
8	664	639	651	578	493	536	698	654	678	381	335	367
9	701	664	690	634	578	613	692	657	678	350	201	309
10	723	647	690	671	613	642	696	629	669	205	175	192
11	707	648	684	682	615	649	694	603	650	478	189	267
12	740	706	729	680	603	642	631	580	609	353	293	330
13	737	694	719	672	612	638	634	590	615	317	249	290
14	694	668	677	653	614	633	719	634	693	317	251	293
15	726	674	700	647	579	620	717	655	692	419	314	368
16	771	726	749	638	587	609	709	681	700	368	274	315
17	800	771	788	668	608	644	701	567	651	319	274	295
18	810	781	796	694	655	676	628	536	584	364	319	352
19	806	776	792	679	492	642	583	547	570	360	315	340
20	778	733	753	492	450	469	605	571	587	331	316	323
21	735	661	692	531	481	494	612	533	582	363	325	348
22	662	615	629	578	531	556	575	525	552	385	350	369
23	732	627	685	617	516	571	572	539	554	411	363	392
24	641	564	609	539	442	496	564	354	459	450	399	432
25	608	577	592	504	453	468	383	312	356	469	449	458
26	607	588	601	563	504	540	379	309	335	493	455	480
27	596	511	569	621	563	589	418	364	391	494	414	473
28	516	401	441	611	580	604	404	379	395	508	371	453
29	508	432	484	624	603	609	410	233	343	513	363	461
30	---	---	---	661	595	627	251	224	239	424	345	392
31	---	---	---	641	606	625	---	---	---	478	424	452
MONTH	810	401	643	694	395	564	719	224	560	513	175	348

SCIOTO RIVER BASIN

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03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	492	443	471	713	685	706	625	482	528	799	788	795
2	504	466	491	722	709	716	545	483	510	810	797	805
3	515	489	504	729	710	719	610	545	573	811	801	807
4	554	504	532	719	711	715	645	610	630	807	802	804
5	539	406	465	723	714	719	654	622	633	821	807	815
6	466	415	452	734	723	730	653	638	648	826	803	819
7	475	400	449	737	725	732	671	652	662	808	797	804
8	403	379	390	741	725	733	689	665	673	809	795	799
9	405	383	394	735	720	728	704	676	692	853	809	837
10	463	405	448	746	724	739	747	654	696	847	834	839
11	469	451	459	758	742	752	654	578	614	852	837	848
12	519	432	448	764	751	758	635	578	600	837	811	826
13	472	392	436	768	753	763	676	632	657	816	807	812
14	441	380	413	778	765	773	709	676	696	808	793	801
15	422	361	396	787	749	778	742	709	731	793	786	789
16	474	398	446	800	787	794	748	732	740	795	742	781
17	530	468	491	821	795	812	743	734	738	790	731	780
18	511	483	495	820	778	805	755	737	746	825	685	770
19	530	511	522	813	382	493	757	738	745	685	613	636
20	551	427	496	504	382	448	784	734	744	631	614	622
21	484	446	471	582	504	547	785	748	766	652	631	642
22	506	478	497	605	582	598	788	768	779	689	652	671
23	594	497	562	604	545	570	781	768	774	747	689	715
24	618	585	603	563	544	554	787	748	778	780	747	767
25	625	601	607	605	563	584	789	774	780	778	761	775
26	674	625	650	620	510	567	789	776	782	761	736	743
27	813	596	652	559	510	527	812	783	795	736	714	725
28	699	601	657	603	559	583	833	810	823	720	630	686
29	832	658	689	638	603	623	810	771	791	729	385	486
30	716	640	693	703	638	659	776	764	770	478	411	439
31	---	---	---	688	617	657	793	776	788	---	---	---
MONTH	832	361	509	821	382	674	833	482	706	853	385	748
YEAR	1030	175	632									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	9.3	9.0	9.1	8.2	8.1	8.1	8.2	8.2	8.2	8.3	8.2	8.2
2	9.3	8.9	9.1	8.2	8.0	8.1	8.2	8.2	8.2	8.3	8.2	8.2
3	8.9	8.7	8.8	8.1	8.0	8.1	8.2	8.1	8.1	8.2	8.1	8.2
4	8.9	8.4	8.8	8.1	8.0	8.0	8.2	8.1	8.1	8.2	8.1	8.2
5	8.4	7.8	8.0	8.1	8.0	8.1	8.2	8.1	8.2	8.2	8.2	8.2
6	7.8	7.6	7.7	8.1	8.0	8.1	8.2	8.1	8.1	8.3	8.2	8.3
7	7.8	7.6	7.7	8.1	8.1	8.1	8.2	8.1	8.2	8.3	8.2	8.3
8	7.9	7.8	7.9	8.1	8.0	8.1	8.2	8.2	8.2	8.3	8.2	8.3
9	8.0	7.9	7.9	8.2	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2
10	8.0	8.0	8.0	8.2	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.2
11	8.0	8.0	8.0	8.2	8.1	8.1	8.3	8.2	8.2	8.3	8.2	8.2
12	8.1	8.0	8.0	8.1	7.9	8.0	8.2	8.1	8.2	8.3	8.2	8.2
13	8.1	8.0	8.0	8.1	7.9	8.0	8.2	8.1	8.2	8.3	8.2	8.3
14	8.0	8.0	8.0	8.1	8.1	8.1	8.3	8.1	8.2	8.3	8.2	8.3
15	8.1	8.0	8.0	8.2	8.1	8.2	8.2	8.2	8.2	8.3	8.2	8.3
16	8.1	8.0	8.0	8.2	8.2	8.2	8.2	8.1	8.2	8.3	8.2	8.3
17	8.1	8.0	8.1	8.4	8.2	8.2	8.2	8.1	8.1	8.3	8.1	8.2
18	8.1	8.0	8.1	8.2	8.1	8.1	8.2	8.1	8.1	8.1	7.9	8.0
19	8.1	8.0	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.9	7.9	7.9
20	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.0	8.0	7.9	7.8	7.8
21	8.1	8.1	8.1	8.1	8.1	8.1	8.2	8.1	8.2	7.9	7.8	7.8
22	8.2	8.1	8.1	8.2	8.1	8.1	8.2	8.2	8.2	7.9	7.8	7.8
23	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	7.9	7.8	7.9
24	8.2	8.1	8.1	8.2	8.1	8.2	8.2	8.2	8.2	7.9	7.8	7.9
25	8.2	8.1	8.1	8.2	8.1	8.2	8.2	8.2	8.2	7.9	7.8	7.8
26	8.2	8.1	8.2	8.2	8.1	8.2	8.2	8.2	8.2	7.9	7.9	7.9
27	8.2	8.1	8.1	8.2	8.2	8.2	8.3	8.2	8.2	7.9	7.9	7.9
28	8.2	8.1	8.1	8.2	8.2	8.2	8.3	8.2	8.2	7.9	7.9	7.9
29	8.2	8.1	8.1	8.2	8.1	8.1	8.3	8.2	8.3	7.9	7.9	7.9
30	8.2	8.1	8.1	8.2	8.1	8.2	8.3	8.2	8.3	7.9	7.9	7.9
31	8.1	8.1	8.1	---	---	---	8.3	8.2	8.2	7.9	7.9	7.9
MONTH	9.3	7.6	8.2	8.4	7.9	8.1	8.3	8.0	8.2	8.3	7.8	8.1

SCIOTO RIVER BASIN

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03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	19.5	17.5	18.5	14.0	12.5	13.0	7.0	6.0	6.5	4.0	3.0	3.5
2	19.5	16.5	18.5	15.0	14.0	14.5	7.0	6.0	6.5	4.0	4.0	4.0
3	19.0	18.5	18.5	15.0	13.0	14.0	7.5	6.5	7.0	4.0	1.5	2.5
4	18.5	18.0	18.0	13.0	11.0	12.0	7.5	6.5	7.0	1.5	1.5	1.5
5	18.0	18.0	18.0	11.0	9.0	9.5	7.0	6.5	6.5	1.5	1.5	1.5
6	18.5	17.5	18.0	9.0	8.0	8.5	6.5	5.5	6.0	1.5	1.0	1.5
7	18.0	17.5	17.5	9.0	9.0	9.0	5.5	4.5	5.0	1.0	1.0	1.0
8	17.5	16.5	17.0	9.0	8.0	8.5	4.5	4.0	4.0	1.0	1.0	1.0
9	17.0	16.0	16.5	8.0	7.0	7.5	4.0	2.5	3.5	1.0	1.0	1.0
10	17.0	16.0	16.5	8.5	6.5	7.5	2.5	.5	1.5	1.0	1.0	1.0
11	17.5	16.5	17.0	9.0	7.5	8.5	1.5	.5	1.0	1.0	1.0	1.0
12	18.0	16.5	17.0	8.0	6.5	7.5	1.5	1.0	1.0	1.0	1.0	1.0
13	18.0	16.5	17.5	7.0	6.5	6.5	1.5	1.0	1.0	1.5	1.0	1.5
14	18.0	16.5	17.5	6.5	6.0	6.5	4.0	1.5	3.0	3.0	1.5	2.5
15	16.5	15.5	16.0	6.0	5.5	6.0	5.0	4.0	4.5	3.0	3.0	3.0
16	15.5	14.0	14.5	6.0	5.5	5.5	5.5	5.0	5.5	3.5	2.5	3.0
17	14.5	13.0	14.0	5.5	5.0	5.5	5.5	4.0	4.5	4.0	3.5	3.5
18	14.5	13.0	14.0	6.5	5.5	6.0	4.5	4.0	4.0	4.0	3.0	3.5
19	15.5	14.0	15.0	7.0	6.0	6.5	4.0	3.0	4.0	4.0	2.5	3.5
20	15.5	14.5	15.0	7.5	6.5	7.0	3.0	2.0	2.5	2.5	1.0	1.5
21	14.5	13.0	13.5	7.0	6.0	6.5	2.0	1.5	2.0	1.5	1.0	1.0
22	13.5	12.5	13.0	6.0	5.5	5.5	2.0	1.5	2.0	1.5	1.0	1.5
23	14.0	12.5	13.5	6.0	5.5	6.0	2.0	1.5	2.0	2.5	1.5	2.0
24	14.5	14.0	14.0	6.0	5.0	5.5	1.5	1.5	1.5	3.0	2.5	3.0
25	14.0	13.0	13.5	5.5	4.5	5.0	2.0	1.5	2.0	2.5	1.5	2.0
26	13.5	12.0	13.0	6.0	4.5	5.0	2.0	1.5	1.5	2.5	1.5	1.5
27	13.0	12.5	13.0	7.5	6.0	6.5	2.0	1.5	1.5	2.5	2.5	2.5
28	13.0	12.5	13.0	7.5	7.0	7.0	1.5	1.5	1.5	2.5	1.5	2.0
29	12.5	12.0	12.5	7.0	6.0	6.5	1.5	1.0	1.5	2.0	1.5	2.0
30	12.5	12.0	12.5	6.0	5.0	5.5	2.0	1.0	1.5	2.0	2.0	2.0
31	12.5	12.0	12.5	---	---	---	3.0	2.0	2.5	2.0	1.5	1.5
MONTH	19.5	12.0	15.5	15.0	4.5	7.5	7.5	.5	3.5	4.0	1.0	2.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	1.5	1.0	1.0	4.0	3.0	3.5	10.0	7.5	9.0	13.0	12.5	12.5
2	1.0	.5	.5	4.0	3.5	4.0	7.5	6.5	7.5	13.5	12.0	12.5
3	.5	.5	.5	4.0	3.0	3.5	9.0	7.0	8.0	14.5	13.5	14.0
4	.5	.5	.5	3.0	2.0	2.5	10.0	9.0	9.5	15.5	14.5	15.0
5	.5	.5	.5	4.5	3.0	3.5	9.5	8.0	8.5	15.5	14.5	15.0
6	1.5	.5	1.0	5.0	4.5	4.5	8.0	7.5	8.0	14.5	14.0	14.5
7	2.0	1.0	1.5	4.5	2.5	3.5	8.0	7.0	7.5	14.5	14.0	14.5
8	3.5	2.0	2.5	2.5	1.5	2.0	7.5	7.0	7.0	14.5	14.0	14.5
9	4.0	3.5	3.5	2.0	1.0	1.5	7.0	6.5	7.0	17.0	14.5	15.5
10	5.0	3.0	4.0	3.0	1.0	2.0	8.5	6.5	7.5	18.5	17.0	18.0
11	4.5	3.5	4.0	4.0	2.5	3.0	10.5	8.0	9.0	18.5	16.0	18.0
12	3.5	2.5	3.0	5.5	3.5	4.5	13.0	10.0	11.5	16.0	14.5	15.0
13	2.5	1.5	2.0	6.5	5.0	5.5	13.5	12.5	13.0	14.5	13.5	14.0
14	3.0	2.0	2.5	8.5	6.5	7.5	13.5	12.5	12.5	14.0	13.5	14.0
15	3.0	2.5	2.5	9.5	8.5	9.0	12.5	11.5	11.5	14.5	14.0	14.0
16	2.5	2.5	2.5	9.0	8.5	9.0	11.5	10.5	11.0	14.5	14.0	14.0
17	2.5	1.5	2.0	8.5	8.5	8.5	11.5	9.5	10.5	16.5	14.5	15.0
18	2.5	1.5	2.0	8.5	8.0	8.5	13.0	10.5	11.5	18.5	16.5	17.5
19	3.0	2.0	2.5	8.0	7.0	7.5	15.0	13.0	13.5	19.5	18.0	18.5
20	4.5	3.0	3.5	7.0	5.0	6.0	16.0	15.0	15.5	20.0	18.5	19.0
21	4.5	3.5	4.0	5.0	4.5	4.5	17.0	15.5	16.0	20.0	19.0	19.0
22	4.5	3.5	4.0	4.5	4.0	4.5	16.5	15.5	16.0	19.0	18.5	18.5
23	5.5	4.5	5.0	5.5	4.5	5.0	16.0	13.5	15.0	19.5	18.0	19.0
24	6.0	5.5	5.5	7.0	5.5	6.0	13.5	12.0	12.5	19.0	18.0	18.5
25	6.0	5.5	5.5	8.0	7.0	7.5	13.0	12.0	12.5	18.5	17.5	18.0
26	6.0	5.5	5.5	8.0	7.5	7.5	13.0	12.5	12.5	18.5	17.0	17.5
27	7.5	6.0	6.5	7.5	6.5	7.0	12.5	12.0	12.0	17.0	16.0	16.5
28	7.5	6.0	7.0	7.0	6.5	6.5	12.5	12.5	12.5	16.0	15.5	16.0
29	6.0	3.5	4.5	7.5	6.5	7.0	13.5	12.5	13.0	16.5	16.0	16.0
30	---	---	---	9.0	7.0	8.0	13.5	13.0	13.5	17.0	15.5	16.0
31	---	---	---	10.0	8.5	9.0	---	---	---	17.5	16.0	16.5
MONTH	7.5	.5	3.0	10.0	1.0	5.5	17.0	6.5	11.0	20.0	12.0	16.0

SCIOTO RIVER BASIN

03231500 SCIOTO RIVER AT CHILLICOTHE, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.0	16.5	17.5	27.0	25.5	26.0	23.5	21.5	22.5	25.0	23.5	24.0
2	18.0	17.0	17.5	27.5	25.5	26.5	24.0	22.0	23.0	25.0	23.0	24.0
3	18.5	17.0	17.5	27.0	24.5	25.5	24.5	22.5	23.5	24.0	23.0	23.5
4	18.5	17.5	18.0	24.5	22.5	23.5	25.5	23.0	24.0	24.5	22.5	23.5
5	18.0	17.5	17.5	24.5	22.0	23.0	26.0	24.0	25.0	25.0	23.0	24.0
6	18.5	17.0	17.5	25.0	22.5	23.5	26.5	25.0	25.5	24.5	23.0	24.0
7	18.5	18.0	18.0	25.0	23.0	24.0	27.5	25.5	26.5	25.0	22.5	23.5
8	18.5	18.0	18.5	25.5	24.0	25.0	27.0	26.5	26.5	25.5	23.5	24.5
9	19.5	18.5	19.0	25.0	24.0	24.5	26.5	25.0	26.0	25.5	24.0	24.5
10	20.0	19.0	19.5	25.0	23.0	24.0	26.0	24.0	25.0	25.0	23.5	24.0
11	20.0	19.5	19.5	24.5	22.0	23.5	25.0	23.5	24.0	25.0	23.0	24.0
12	19.5	19.0	19.0	25.0	23.0	24.0	24.0	22.5	23.0	24.0	22.5	23.0
13	20.5	19.0	19.5	25.5	24.0	24.5	24.0	22.0	23.0	22.5	20.0	21.5
14	21.0	20.0	20.5	26.5	24.0	25.0	25.0	22.5	24.0	20.5	19.0	20.0
15	21.0	19.5	20.5	26.0	25.0	25.5	25.0	23.5	24.5	20.5	19.0	19.5
16	22.5	20.5	21.5	26.0	24.0	25.0	25.5	23.5	24.5	20.0	18.5	19.5
17	23.0	21.5	22.0	27.0	24.5	25.5	25.0	23.5	24.5	19.5	18.5	19.0
18	22.5	22.0	22.0	26.5	25.5	26.0	26.0	24.0	24.5	20.0	18.5	19.5
19	23.0	21.5	22.0	26.0	24.0	25.0	26.0	24.0	25.0	20.0	18.0	19.0
20	23.5	22.5	23.0	25.5	24.0	24.5	26.5	24.5	25.5	20.0	18.5	19.0
21	24.0	22.0	23.0	25.0	24.0	24.0	27.0	25.0	26.0	20.0	18.5	19.5
22	24.5	23.0	23.5	24.0	23.0	23.5	27.0	25.5	26.0	20.0	19.0	19.5
23	25.0	23.0	24.0	23.5	22.0	23.0	27.5	26.0	26.5	20.0	18.5	19.5
24	25.0	24.0	24.5	24.0	22.5	23.0	27.0	25.5	26.5	20.0	19.0	19.5
25	24.5	23.5	24.0	24.0	22.5	23.0	27.0	24.5	25.5	19.5	18.0	18.5
26	24.0	22.0	23.0	24.0	22.5	23.5	26.0	24.0	25.0	19.0	18.0	18.5
27	24.0	22.0	23.0	24.5	22.5	23.5	25.5	24.5	25.0	19.0	18.5	19.0
28	24.5	22.5	23.5	24.5	22.5	23.5	26.0	24.0	25.0	19.0	18.0	18.5
29	26.0	23.5	24.5	24.0	23.0	23.5	26.0	24.0	25.0	18.5	17.0	17.5
30	26.5	24.5	25.5	23.5	22.5	23.0	26.0	23.5	24.5	18.0	16.5	17.5
31	---	---	---	23.5	22.0	22.5	25.5	23.0	24.5	---	---	---
MONTH	26.5	16.5	21.0	27.5	22.0	24.0	27.5	21.5	25.0	25.5	16.5	21.0
YEAR	27.5	.5	13.0									

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	11.1	9.9	10.3	11.5	11.4	11.4	13.3	12.7	13.0
2	---	---	---	10.1	9.0	9.5	11.4	11.1	11.3	12.8	11.9	12.3
3	---	---	---	9.3	8.7	9.0	11.3	10.8	11.0	12.5	11.9	12.3
4	---	---	---	9.9	8.8	9.3	11.2	10.6	10.9	13.1	12.4	12.7
5	9.3	6.8	7.7	10.5	9.4	10.0	11.4	10.9	11.1	13.4	13.1	13.2
6	7.0	6.2	6.6	11.2	10.0	10.5	11.6	10.9	11.2	13.7	13.3	13.5
7	7.7	6.5	7.1	11.1	10.3	10.5	12.1	11.2	11.6	13.7	11.9	13.5
8	8.4	7.7	8.0	10.7	10.1	10.4	12.4	11.7	12.0	13.7	13.2	13.6
9	8.7	8.4	8.5	11.7	10.4	11.0	12.4	11.8	12.1	13.6	13.2	13.4
10	8.8	8.5	8.7	11.6	11.2	11.4	13.1	12.1	12.5	13.4	13.0	13.2
11	9.0	8.5	8.7	11.2	7.9	10.5	13.6	12.1	12.8	13.4	12.9	13.2
12	9.1	8.5	8.8	10.5	9.4	10.0	13.6	12.6	12.9	13.4	12.9	13.2
13	9.1	8.4	8.7	11.1	9.6	10.4	13.3	12.4	12.7	13.3	12.9	13.1
14	8.8	8.1	8.3	11.5	11.0	11.2	13.3	12.2	12.5	13.3	12.7	13.1
15	9.1	8.0	8.5	11.8	11.5	11.6	12.4	11.5	11.9	13.3	12.5	13.0
16	9.5	8.6	9.0	11.9	11.8	11.8	11.6	11.1	11.5	13.4	12.6	13.1
17	9.9	9.0	9.4	12.0	11.7	11.8	12.2	11.2	11.7	13.2	12.2	12.4
18	10.0	9.3	9.7	11.7	10.5	11.5	12.1	11.6	11.8	12.3	11.9	12.1
19	9.9	9.2	9.6	11.3	10.6	11.1	11.7	11.3	11.4	12.1	11.7	11.9
20	9.8	9.1	9.4	11.3	11.1	11.1	12.1	11.4	11.7	12.9	11.9	12.4
21	9.7	9.0	9.4	11.4	11.3	11.3	12.6	12.1	12.4	13.2	12.9	13.1
22	10.6	9.3	9.9	11.7	11.4	11.5	12.7	12.5	12.6	13.2	13.1	13.2
23	10.6	9.6	10.2	11.6	11.4	11.5	12.9	12.5	12.7	13.1	12.7	12.9
24	10.5	9.4	9.9	11.6	11.4	11.5	12.9	12.7	12.8	12.7	12.3	12.5
25	10.6	9.5	10.1	11.7	11.6	11.7	13.0	12.5	12.8	12.9	12.3	12.6
26	10.7	9.9	10.3	11.9	11.7	11.8	13.0	12.6	12.9	13.1	12.7	13.0
27	10.4	9.6	10.0	11.7	11.1	11.4	13.0	12.6	12.9	12.8	12.6	12.7
28	10.3	9.4	9.8	11.1	10.9	11.0	13.5	12.8	13.1	13.1	12.6	12.8
29	10.6	9.5	10.1	11.1	10.9	11.0	13.6	13.0	13.4	13.3	13.1	13.2
30	10.7	9.9	10.3	11.6	11.1	11.3	13.7	13.1	13.4	13.2	12.9	13.0
31	10.8	9.8	10.2	---	---	---	13.5	13.0	13.2	13.2	12.9	13.1
MONTH	10.8	6.2	9.1	12.0	7.9	10.9	13.7	10.6	12.2	13.7	11.7	12.9

SCIOTO RIVER BASIN

03232000 PAINT CREEK NEAR GREENFIELD, OH

LOCATION.--Lat 39°22'45", long 83°22'32", Fayette County, Hydrologic Unit 05060003, on right bank at upstream side of bridge on State Highway 753, 0.6 mi upstream from Stone Run, 2 mi north of Greenfield, and 3.0 mi downstream from Indian Creek.

DRAINAGE AREA.--249 mi².

PERIOD OF RECORD.--August 1926 to November 1935, October 1939 to September 1956; water years 1962-66 (occasional low-flow measurements), water years 1963-66 (annual maximums); October 1966 to September 1981; water years 1993-1995 (stage only); October 1995 to September 30, 1996.

REVISED RECORDS.--WSP 743: 1926(M). WSP 758: 1926-33. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 844.27 ft above sea level. Prior to Feb. 14, 1940, nonrecording gage, Feb. 14, 1940, to June 3, 1955, water-stage recorder, June 4, 1955, to Sept. 30, 1956, nonrecording gage, at same site at datum 1.00 ft higher.

REMARKS.--Records good, except for July 26 to August 30 and for periods of estimated record, which are fair. Sediment data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	25	59	137	e190	559	838	3860	547	302	144	5.2
2	3.4	28	60	335	e150	389	1510	1890	396	162	120	4.1
3	3.6	37	57	489	e130	290	1020	1060	351	119	82	3.2
4	34	63	53	e250	e110	225	645	2780	795	96	65	3.7
5	85	50	51	e200	e100	234	520	3470	919	82	53	2.9
6	488	50	49	e150	e90	1060	484	2360	675	72	45	2.9
7	568	52	46	e120	e82	1270	393	1670	2480	66	36	3.6
8	387	63	43	e100	e78	752	326	1870	2300	80	30	2.9
9	228	87	e40	e84	e70	436	286	2430	1370	65	35	2.8
10	158	83	e35	e80	e100	319	245	1610	842	67	29	2.7
11	120	97	e40	e74	e200	277	216	3180	703	54	38	2.7
12	90	467	e50	e70	269	309	198	2850	1000	51	32	2.7
13	72	461	e60	e66	188	341	184	1570	617	50	25	3.1
14	62	309	73	e62	197	333	170	816	432	47	25	3.6
15	56	238	68	e60	e150	840	166	743	458	64	21	2.9
16	54	191	128	164	e110	810	209	1560	348	54	19	3.1
17	48	157	122	1620	e100	591	201	1020	273	44	17	15
18	41	143	182	2480	e96	425	180	715	239	58	15	21
19	36	137	1140	4250	e92	1070	185	515	268	63	13	7.0
20	33	126	1330	3880	e160	2350	258	398	486	72	11	4.2
21	34	121	788	1920	435	2090	330	329	375	63	9.8	3.5
22	33	113	483	920	449	1400	306	269	256	62	8.5	3.9
23	34	102	332	1070	430	982	925	229	231	87	7.2	13
24	34	93	254	2900	424	860	1790	256	303	75	6.0	11
25	31	82	e170	2460	373	715	1500	257	502	63	36	6.0
26	29	76	e130	1390	337	529	858	227	243	137	22	5.1
27	30	76	e100	1350	497	385	513	1180	180	202	15	4.5
28	31	76	e88	986	1720	322	375	1580	151	109	13	352
29	31	72	e76	e450	1050	352	3120	1590	132	81	11	135
30	34	64	e68	e350	---	364	5210	1710	120	75	8.8	90
31	30	---	e60	e250	---	339	---	1020	---	112	6.7	---
TOTAL	2922.0	3739	6235	28717	8377	21218	23161	45014	17992	2734	999.0	723.3
MEAN	94.3	125	201	926	289	684	772	1452	600	88.2	32.2	24.1
MAX	568	467	1330	4250	1720	2350	5210	3860	2480	302	144	352
MIN	3.4	25	35	60	70	225	166	227	120	44	6.0	2.7
CFSM	.38	.50	.81	3.72	1.16	2.75	3.10	5.83	2.41	.35	.13	.10
IN.	.44	.56	.93	4.29	1.25	3.17	3.46	6.72	2.69	.41	.15	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1996, BY WATER YEAR (WY)

	MEAN	50.9	115	246	390	423	494	394	329	209	103	73.7	63.7
	MAX	606	827	784	1510	1078	1712	1190	1731	791	519	633	830
	(WY)	1927	1973	1951	1949	1951	1945	1940	1968	1981	1973	1980	1979
	MIN	.59	1.11	2.09	5.06	8.06	28.9	57.3	20.6	7.42	.82	.47	.16
	(WY)	1931	1954	1954	1931	1954	1931	1941	1934	1934	1930	1930	1953

SUMMARY STATISTICS

FOR 1996 WATER YEAR

WATER YEARS 1927 - 1996

ANNUAL TOTAL	161831.3		
ANNUAL MEAN	442		240
HIGHEST ANNUAL MEAN			442
LOWEST ANNUAL MEAN			56.1
HIGHEST DAILY MEAN	5210	Apr 30	14400
LOWEST DAILY MEAN	2.7	Sep 10	.00
ANNUAL SEVEN-DAY MINIMUM	2.9	Sep 6	.04
INSTANTANEOUS PEAK FLOW	5740	Apr 30 a	21700
INSTANTANEOUS PEAK STAGE	9.96	Apr 30	14.28
INSTANTANEOUS LOW FLOW	2.7	Sep 10	.00
ANNUAL RUNOFF (CFSM)	1.78		.96
ANNUAL RUNOFF (INCHES)	24.18		13.10
10 PERCENT EXCEEDS	1360		599
50 PERCENT EXCEEDS	140		78
90 PERCENT EXCEEDS	13		4.3

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

SCIOTO RIVER BASIN

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03232500 ROCKY FORK NEAR BARRETTS MILLS, OH

LOCATION.--Lat 39°13'06", long 83°23'08", Highland County, Hydrologic Unit 05060003, on left bank at downstream side of highway bridge, 1.1 mi north of Barretts Mills, 2 mi east of Rainsboro, 2.8 mi upstream from mouth, and 6 mi downstream from Rocky Fork Lake.

DRAINAGE AREA.--140 mi².

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 770.8 ft above sea level (levels by U.S. Army Corps of Engineers.)

Prior to Feb. 15, 1940, nonrecording gage at same site and datum.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Flow regulated by Rocky Fork Lake 6 mi upstream, since 1952, capacity, 34,100 acre-ft. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.56 ft Mar. 6, 1945.

REVISIONS.--The maximum discharge for the water year 1995 has been revised to 3,700 ft³/s, May 18, 1995, gage height 9.01 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.5	10	e9.0	42	e60	151	1360	1010	267	80	39	e12
2	2.6	12	e9.0	79	e50	207	783	479	249	71	33	e12
3	2.7	13	e8.0	50	e45	94	423	347	276	58	28	e11
4	2.9	31	e7.0	109	e40	89	384	2020	724	48	25	e11
5	13	27	e6.6	66	35	161	340	3040	396	40	23	e10
6	e35	7.7	e6.4	35	34	802	297	1530	377	36	22	e10
7	e50	8.4	e6.4	e19	39	161	251	398	1260	42	21	e9.8
8	e50	9.2	e5.6	e17	81	77	226	162	767	46	20	e9.6
9	e45	11	e4.5	e15	171	93	182	295	315	51	20	e9.2
10	e25	12	e4.0	e14	174	81	164	303	348	e56	18	e9.0
11	e14	21	e3.7	e13	53	103	145	1260	383	e35	17	e9.2
12	12	19	e3.5	e13	e90	111	137	1370	1820	e30	19	e9.4
13	13	19	e3.4	e12	e100	138	129	283	865	e27	18	e10
14	65	25	e3.5	e12	108	144	126	281	333	e26	17	e12
15	7.3	28	e5.0	e15	104	782	143	671	417	e25	16	e18
16	7.1	25	35	e70	84	524	215	2690	180	e26	16	e30
17	8.1	24	35	843	127	319	217	1200	188	e27	16	e43
18	9.4	28	105	968	60	279	199	434	152	e25	e14	e21
19	9.6	29	449	352	70	898	202	223	225	e25	e14	e18
20	11	29	245	93	261	1950	241	220	194	e24	e13	e20
21	84	30	207	98	395	627	245	208	e190	e23	e12	e22
22	69	24	142	31	255	391	218	196	e150	e23	e12	e26
23	6.2	18	58	512	135	293	1070	185	e130	e22	e14	e24
24	6.5	7.3	76	2020	146	434	1160	221	e110	e21	22	e22
25	7.5	e13	85	509	132	408	504	269	139	e21	16	e20
26	8.1	e12	37	450	156	300	274	272	116	e20	15	e19
27	9.8	e12	45	385	255	173	240	1610	103	20	15	e18
28	10	e12	31	243	979	235	254	1690	91	19	e14	359
29	10	e12	34	252	146	249	2200	1090	82	21	e13	342
30	10	e11	23	e90	---	263	2540	332	78	41	e13	223
31	10	---	34	e70	---	236	---	297	---	51	e12	---
TOTAL	616.3	539.6	1726.6	7497	4385	10773	14869	24586	10925	1080	567	1369.2
MEAN	19.9	18.0	55.7	242	151	348	496	793	364	34.8	18.3	45.6
MAX	84	31	449	2020	979	1950	2540	3040	1820	80	39	359
MIN	2.5	7.3	3.4	12	34	77	126	162	78	19	12	9.0

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

	MEAN	263	105	169	184	246	290	264	213	105	77.0	59.2	63.3
MAX	263	514	631	535	663	1024	627	810	365	379	307	542	
(WY)	1991	1973	1991	1952	1956	1963	1970	1968	1957	1954	1958	1965	
MIN	1.95	3.97	6.16	13.4	11.3	17.2	24.2	33.2	6.22	3.69	4.95	1.88	
(WY)	1965	1964	1954	1977	1954	1983	1971	1976	1988	1964	1986	1964	

SUMMARY STATISTICS FOR 1995 CALENDAR YEAR FOR 1996 WATER YEAR WATER YEARS 1952 - 1996

ANNUAL TOTAL	50130.9	78933.7	153
ANNUAL MEAN	137	216	259
HIGHEST ANNUAL MEAN			56.5
LOWEST ANNUAL MEAN			1979
HIGHEST DAILY MEAN	2820	May 18	3040
LOWEST DAILY MEAN	2.5	Oct 1	2.5
ANNUAL SEVEN-DAY MINIMUM	3.9	Dec 9	3.9
INSTANTANEOUS PEAK FLOW			4760
INSTANTANEOUS PEAK STAGE			10.23
INSTANTANEOUS LOW FLOW			2.5
10 PERCENT EXCEEDS	356		486
50 PERCENT EXCEEDS	34		50
90 PERCENT EXCEEDS	7.2		9.6
			13400
			15.56
			.40
			350
			61
			8.6

SCIOTO RIVER BASIN

03234000 PAINT CREEK NEAR BOURNEVILLE, OH

LOCATION.--Lat 39°15'49", long 83°10'01", Ross County, Hydrologic Unit 05060003, on upstream side of left abutment of highway bridge, 0.2 mi downstream from Sulfur Lick, 1.2 mi southwest of Bourneville, and 1.2 mi upstream from Upper Twin Creek.

DRAINAGE AREA.--807 mi².

PERIOD OF RECORD.--October 1921 to January 1937, January 1938 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as "at Bainbridge" October 1921 to September 1923 and as "near Bainbridge" January 1938 to May 1939.

REVISED RECORDS.--WRD Ohio 1972: 1971.

GAGE.--Water-stage recorder. Datum of gage is 665.56 ft above sea level. See WSP 1725 for history of changes prior to May 3, 1939.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Flow regulated by Paint Creek Lake 17 mi upstream since 1971, capacity 145,000 acre-ft and Rocky Fork Lake 23 mi upstream since 1952, capacity, 34,100 acre-ft. Water-quality and sediment data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,900 ft³/s Mar. 10, 1964, gage height, 20.50 ft, from rating curve extended above 30,000 ft³/s on basis of contracted-opening measurement at gage height 20.08 ft; minimum daily, 5 ft³/s Oct. 29, 1965.

REVISIONS.--The maximum discharges for some water years have been revised as shown in the following table. They supersede figures published in WRD-OH-1 for 1993-1995.

Peak discharges:

WATER YEAR	DATE	DISCHARGE (ft ³ /s)	GAGE HEIGHT (ft)
1993	Feb. 23, 1993	6460	9.56
1994	Apr. 10, 1994	13100	13.69
1995	May 14, 1995	10800	12.76

Revised daily discharges, in cubic feet per second, for periods in February and March 1993 are given below. These figures supersede those published in WRD-OH-1 for 1993.

Daily discharges:

Feb. 22	4670	Mar. 7	1600
23	6300	8	3360
24	5440	9	4200
25	3480	10	5030
Mar. 4	2640	11	4980
5	5250	12	4970
6	2500		

Monthly and yearly discharges:

MONTH	TOTAL	MEAN	MAX	MIN
February 1993	44158	1577	6300	411
March 1993	77674	2506	5250	578
Calendar Year	371564	1018	6300	24
Water Year	354462	971	6300	37

SCIOTO RIVER BASIN

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03234000 PAINT CREEK NEAR BOURNEVILLE, OH--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	139	194	367	6140	e3500	2420	1910	4980	562	253	56
2	64	128	188	578	5260	e2500	3340	1100	4940	928	239	56
3	59	130	178	1770	e2500	e1500	3410	1500	4970	765	230	55
4	67	418	143	1800	e2300	e1000	2200	4870	5490	353	224	54
5	113	531	138	913	e1000	e800	2390	4640	5230	327	204	52
6	686	313	137	855	598	e1200	1630	2970	4920	312	98	53
7	1130	110	136	741	623	e3800	1570	3640	5150	301	84	52
8	1140	112	132	355	642	e3000	1460	4680	3850	298	85	52
9	954	198	105	e340	1080	e2600	1300	4360	1330	399	83	52
10	579	252	95	e310	1090	e1800	1070	2210	2240	450	84	53
11	501	282	e88	e300	1010	e1000	910	2160	5020	257	188	51
12	277	360	e80	e280	1410	e540	870	5790	5400	240	145	51
13	127	794	e74	e270	1570	472	852	4360	4320	240	139	52
14	433	1180	e70	e260	737	684	849	3150	5200	230	132	51
15	534	1190	e100	e350	716	967	783	5230	5950	249	81	49
16	265	1150	223	e500	685	840	871	5970	4820	234	69	61
17	177	855	247	2620	562	788	934	4340	3790	224	68	99
18	165	552	480	4330	521	1220	987	5250	1490	230	65	65
19	129	497	2220	4420	474	2480	968	4960	1130	e270	63	54
20	134	384	4450	1400	730	5850	1050	4930	1550	e260	61	51
21	273	405	4290	572	1380	5610	1060	4940	2200	e230	60	49
22	223	437	1900	323	1900	5090	1210	4870	995	e240	60	53
23	203	295	820	695	1680	4340	2400	4840	1070	e250	59	52
24	154	e280	773	5040	1450	3160	3400	4830	1240	e250	74	49
25	160	e260	755	4300	1410	3020	1500	4840	1300	195	72	48
26	205	e260	689	4330	1190	2400	2060	4900	1220	191	62	48
27	209	e260	551	5100	961	1630	3880	6240	1180	185	60	51
28	210	e250	353	6690	769	866	3770	5830	1030	205	58	304
29	208	e250	223	6350	e1200	822	4800	4210	674	423	58	436
30	209	e250	223	6230	---	1300	3970	1840	405	405	57	319
31	208	---	240	6160	---	1280	---	4050	---	284	56	---
TOTAL	9882	12522	20295	68549	41588	66059	57914	129410	93084	9987	3271	2528
MEAN	319	417	655	2211	1434	2131	1930	4175	3103	322	106	84.3
MAX	1140	1190	4450	6690	6140	5850	4800	6240	5950	928	253	436
MIN	59	110	70	260	474	472	783	1100	405	185	56	48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

	MEAN	326	707	1109	1192	1455	1692	1465	1359	783	420	297	257
MAX	1446	2628	3159	2744	2982	4070	3087	4175	3103	1490	1827	2838	
(WY)	1991	1986	1991	1991	1990	1975	1989	1996	1996	1980	1980	1979	
MIN	40.0	75.0	41.9	37.8	211	213	151	95.7	59.9	55.0	40.7	34.6	
(WY)	1988	1992	1988	1977	1987	1983	1976	1976	1988	1988	1991	1983	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR				FOR 1996 WATER YEAR				WATER YEARS 1971 - 1996			
ANNUAL TOTAL	371720				515089							
ANNUAL MEAN	1018				1407				919			
HIGHEST ANNUAL MEAN									1407			
LOWEST ANNUAL MEAN									325			
HIGHEST DAILY MEAN	8000				Mar 9				10100			
LOWEST DAILY MEAN	35				Sep 6				24			
ANNUAL SEVEN-DAY MINIMUM	38				Sep 2				25			
INSTANTANEOUS PEAK FLOW					8410				20300			
INSTANTANEOUS PEAK STAGE					11.12				16.08			
INSTANTANEOUS LOW FLOW					48				24			
10 PERCENT EXCEEDS	3030				4830				2570			
50 PERCENT EXCEEDS	444				578				393			
90 PERCENT EXCEEDS	78				63				61			

e Estimated

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03234300 PAINT CREEK AT CHILLICOTHE, OH

LOCATION.--Lat 39°19'14", long 82°58'42", Ross County, Hydrologic Unit 05060003, on left bank at downstream side of bridge on State Highway 772, 4.3 mi downstream from North Fork Paint Creek and 3.8 mi upstream from mouth.
DRAINAGE AREA.--1,136 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1985 to current year.

REVISED RECORDS.--WDR-OH-88-1: 1986(M), 1987(M).

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated records, which are poor. Flow regulated by Paint Creek Lake, 35 mi upstream, capacity 145,000 acre-ft, and Rocky Fork Lake 41 mi upstream, capacity 34,100 acre-ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	208	369	e800	7170	3850	4690	4830	6000	678	468	55
2	103	157	298	e1500	6850	3560	5680	3420	5920	1060	394	54
3	81	144	281	e3000	3340	2500	5160	2320	5960	1030	352	53
4	82	134	242	e2000	3050	1550	3440	10100	6870	608	342	53
5	149	539	212	e1400	2760	1260	3470	12600	6650	519	333	53
6	808	651	203	e1300	1140	3680	2540	5560	6050	483	236	54
7	1360	252	197	e1000	996	5140	2360	5080	9020	458	149	51
8	1260	214	e170	e660	1010	3940	2210	6610	8080	447	138	48
9	1200	236	e150	e600	1400	2880	1950	7650	2880	453	164	47
10	797	323	e140	e560	1480	2670	1660	4270	2610	670	141	45
11	738	393	e120	e540	1400	2440	1410	5010	6270	451	199	45
12	516	573	e120	e500	1510	1550	1340	8540	7900	375	241	43
13	324	789	e110	e470	2220	1770	1290	6860	5650	364	212	42
14	238	1190	e110	e580	1130	1880	1260	3750	6570	359	194	42
15	630	1220	e120	e700	1040	3650	1230	6560	8870	380	154	40
16	621	1200	e450	1770	1000	4630	1560	9810	6280	366	102	55
17	299	986	e600	4400	850	3580	1480	5830	5460	341	88	135
18	271	740	e1000	7130	851	2850	1480	6730	2340	352	83	92
19	247	682	e5000	10900	754	4470	1430	6200	1680	352	82	65
20	223	567	e9000	3610	1190	10900	1650	6040	1940	331	77	53
21	248	542	e8000	1950	1970	8500	1770	5990	3030	306	74	46
22	415	591	e2500	1140	2520	7160	1660	5840	1720	316	73	46
23	279	507	e1300	1710	2410	5960	3680	5760	1490	322	69	46
24	195	466	e1200	11100	2060	5020	6130	5830	1140	336	80	43
25	179	458	e1100	6850	1930	4420	2840	5790	1450	332	86	40
26	208	452	e1100	5450	1840	3570	2220	5830	1600	304	81	39
27	229	447	e800	6850	1960	2610	4760	8980	1450	304	72	39
28	236	442	e500	8490	5630	1560	4550	9660	1350	286	66	399
29	237	435	e450	7800	4870	1660	9740	7750	1030	472	63	894
30	235	423	e450	7460	---	1790	10400	3380	715	636	61	534
31	233	---	e500	7290	---	1970	---	4780	---	572	59	---
TOTAL	12757	15961	36792	109510	66331	112970	95040	197360	127975	14263	4933	3251
MEAN	412	532	1187	3533	2287	3644	3168	6366	4266	460	159	108
MAX	1360	1220	9000	11100	7170	10900	10400	12600	9020	1060	468	894
MIN	81	134	110	470	754	1260	1230	2320	715	286	59	39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 1996, BY WATER YEAR (WY)

	MEAN	373	841	1305	1754	2248	2238	2180	2431	1169	614	321	149
MAX	2106	3368	5202	3533	3781	3644	4375	6366	4266	1687	1156	463	
(WY)	1991	1986	1991	1996	1994	1996	1994	1996	1996	1990	1990	1990	
MIN	48.2	90.7	62.8	298	310	458	376	239	94.4	83.7	61.5	67.3	
(WY)	1988	1988	1988	1988	1987	1987	1986	1988	1988	1988	1986	1993	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1986 - 1996

ANNUAL TOTAL	517283	797143	
ANNUAL MEAN	1417	2178	1297
HIGHEST ANNUAL MEAN			2178
LOWEST ANNUAL MEAN			483
HIGHEST DAILY MEAN	12100	May 14	25300
LOWEST DAILY MEAN	60	Sep 27	39
ANNUAL SEVEN-DAY MINIMUM	64	Sep 21	43
INSTANTANEOUS PEAK FLOW			21100
INSTANTANEOUS PEAK STAGE			21.31
INSTANTANEOUS LOW FLOW			39
10 PERCENT EXCEEDS	3810	6560	3700
50 PERCENT EXCEEDS	738	1000	517
90 PERCENT EXCEEDS	118	81	73

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03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years October 1985 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: October 1985 to current year.

pH: October 1985 to current year.

WATER TEMPERATURES: October 1985 to current year.

DISSOLVED OXYGEN: October 1985 to current year.

INSTRUMENTATION.--Water-quality monitor since Oct. 1985. Electronic data logger replaced digital recorder since March 19, 1991. Set for 1-hour intervals.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 980 microsiemens Dec. 9, 11, 1989; minimum, 110 microsiemens Oct. 17, 1989.

pH: Maximum, 9.0 units May 24, 1986; minimum, 7.1 units July 26, 1992.

WATER TEMPERATURES: Maximum, 31.5°C July 17, Aug. 18, 1988; minimum 0.0°C on many days during winters.

DISSOLVED OXYGEN: Maximum, 19.2 mg/L Feb. 11, 13, 1987; minimum recorded, 3.8 mg/L Aug. 16, 1986.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 660 microsiemens Dec. 13; minimum, 215 microsiemens Jan. 24.

pH: Maximum, 8.6 units Oct. 31 and Nov. 1, 3-4, 6, 8; minimum 7.3 units Jun. 8-11.

WATER TEMPERATURE: Maximum, 28.5°C Aug. 23; minimum, 0.0°C on several days during winter.

DISSOLVED OXYGEN: Maximum, 17.3 mg/L Dec. 10; minimum, 4.8 mg/L Aug. 24.

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03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	493	479	486	510	498	506	628	616	624	631	615	621
2	492	483	486	519	505	514	630	622	627	636	585	617
3	504	479	498	525	512	520	630	624	627	585	544	564
4	516	501	510	536	522	530	628	616	622	606	585	599
5	522	448	486	536	515	522	626	618	623	591	573	585
6	560	403	509	530	500	509	628	619	624	592	578	584
7	430	401	417	546	518	532	624	611	619	605	588	595
8	441	430	436	562	546	556	617	604	610	626	598	611
9	447	441	443	583	562	575	619	606	613	630	596	622
10	458	447	455	579	544	559	637	610	625	615	589	595
11	461	457	459	561	525	537	651	636	644	606	590	601
12	474	461	468	596	542	571	648	643	645	621	594	610
13	494	474	486	585	516	535	660	632	644	623	619	621
14	518	494	507	534	517	527	632	603	618	640	615	623
15	520	482	496	561	534	551	618	595	611	629	624	627
16	504	469	478	554	548	550	622	592	602	627	582	603
17	500	487	497	561	554	559	594	585	590	602	336	431
18	507	496	502	574	560	568	603	551	593	459	383	432
19	502	491	497	585	574	580	555	471	520	383	260	287
20	504	480	497	---	---	---	536	499	516	287	262	279
21	509	500	504	---	---	---	505	452	465	461	279	343
22	502	477	486	582	572	578	480	458	465	513	461	485
23	513	494	503	590	579	586	501	480	491	531	339	474
24	499	482	490	595	584	589	542	501	521	339	215	241
25	500	484	494	591	584	588	564	542	551	346	248	315
26	493	484	487	598	590	594	580	564	574	363	345	353
27	499	493	496	613	597	609	607	578	588	366	325	347
28	500	492	497	611	606	608	620	596	606	345	328	338
29	503	496	500	612	608	609	630	615	620	357	345	353
30	505	498	502	617	611	614	637	626	632	356	346	351
31	509	499	505	---	---	---	638	625	630	349	340	343
MONTH	560	401	486	617	498	560	660	452	592	640	215	485

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	360	341	350	496	481	488	537	305	427	358	276	319
2	411	360	382	490	460	471	403	298	342	403	358	378
3	449	411	436	489	460	476	506	403	473	433	400	418
4	469	449	459	520	489	502	499	487	493	---	---	---
5	484	469	478	535	518	526	494	458	471	---	---	---
6	501	484	491	518	367	432	475	467	472	---	---	---
7	532	443	493	480	369	439	468	463	466	350	339	347
8	---	---	---	479	457	466	483	465	474	355	297	334
9	572	537	568	480	465	472	489	482	485	329	299	310
10	537	513	523	490	476	482	502	484	491	364	329	340
11	534	520	530	505	484	497	503	493	496	400	264	343
12	547	517	528	530	505	522	500	494	497	312	262	291
13	541	520	527	527	513	520	508	499	502	329	311	315
14	562	541	554	549	527	538	512	497	504	361	321	344
15	557	551	553	547	407	480	520	498	510	321	299	313
16	551	548	550	507	417	475	502	464	478	299	259	273
17	563	549	555	527	504	515	470	459	465	---	---	---
18	563	552	558	511	496	502	491	467	477	---	---	---
19	572	538	553	509	294	435	492	487	490	---	---	---
20	578	491	544	408	286	324	497	466	481	---	---	---
21	499	445	484	410	351	381	479	463	468	---	---	---
22	534	445	502	364	351	357	487	477	482	---	---	---
23	565	534	552	404	364	386	497	348	439	---	---	---
24	556	545	549	424	398	410	412	355	378	---	---	---
25	551	541	546	460	424	443	434	411	423	---	---	---
26	554	542	551	483	460	472	460	418	442	---	---	---
27	542	477	524	503	482	492	479	418	464	---	---	---
28	477	345	372	537	503	525	456	438	445	---	---	---
29	506	429	482	520	478	503	438	230	331	---	---	---
30	---	---	---	508	485	500	276	231	249	413	344	386
31	---	---	---	551	482	530	---	---	---	398	380	386
MONTH	578	341	507	551	286	470	537	230	454	433	259	340

SCIOTO RIVER BASIN

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03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	395	381	388	583	570	579	553	535	549	569	564	567
2	395	390	393	570	525	541	536	529	532	566	560	563
3	399	389	394	532	528	530	543	536	539	566	556	560
4	398	382	391	569	529	553	544	538	542	575	562	570
5	405	390	395	579	569	575	547	538	543	579	572	576
6	434	405	423	574	571	572	554	540	548	597	566	575
7	425	293	361	575	568	573	575	554	567	577	565	571
8	391	307	358	574	566	572	591	574	585	575	570	573
9	433	391	410	576	568	572	598	590	594	574	562	568
10	441	427	436	571	541	551	595	585	591	566	558	563
11	428	348	375	568	544	558	588	563	576	569	560	565
12	366	333	350	582	568	578	566	540	554	564	552	557
13	398	364	383	585	563	575	546	539	542	564	545	551
14	424	387	409	578	565	573	561	546	557	557	542	549
15	---	---	---	570	530	561	564	560	562	556	544	549
16	---	---	---	580	560	569	574	562	568	551	476	518
17	---	---	---	579	571	576	576	571	573	517	476	508
18	494	470	477	580	552	568	579	569	573	531	517	526
19	512	494	507	577	567	573	577	568	570	527	510	517
20	521	430	497	586	572	574	578	568	574	512	504	509
21	451	428	440	583	575	579	---	---	---	521	505	512
22	513	451	486	568	566	567	---	---	---	529	512	521
23	510	455	490	574	566	571	613	583	600	537	524	529
24	516	500	509	583	561	578	585	550	567	531	525	529
25	542	413	472	590	563	572	576	559	566	539	518	524
26	502	480	491	570	564	567	566	556	562	521	515	518
27	510	501	506	587	569	576	566	561	564	524	514	520
28	524	508	513	575	571	573	571	560	566	533	419	480
29	543	524	535	576	536	563	571	560	568	469	358	385
30	581	543	566	538	520	533	575	564	569	373	354	365
31	---	---	---	564	520	544	573	565	570	---	---	---
MONTH	581	293	443	590	520	566	613	529	565	597	354	531
YEAR	660	215	507									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.3	8.1	8.2	8.6	8.1	8.4	8.5	8.2	8.4	8.1	8.1	8.1
2	8.3	8.1	8.2	8.5	8.1	8.3	8.5	8.2	8.4	8.1	8.1	8.1
3	8.2	8.1	8.2	8.6	8.1	8.3	8.4	8.1	8.3	8.2	8.1	8.1
4	8.2	8.0	8.1	8.6	8.2	8.4	8.5	8.1	8.3	8.2	8.1	8.1
5	8.2	8.1	8.1	8.5	8.3	8.4	8.4	8.1	8.3	8.1	8.1	8.1
6	8.1	8.0	8.0	8.6	8.3	8.4	8.5	8.2	8.3	8.1	8.1	8.1
7	8.1	8.0	8.0	8.4	8.2	8.3	8.5	8.3	8.4	8.2	8.1	8.1
8	8.2	8.1	8.1	8.6	8.2	8.4	8.5	8.2	8.4	8.1	8.1	8.1
9	8.2	8.1	8.1	8.5	8.2	8.4	8.5	8.2	8.4	8.1	8.0	8.1
10	8.2	8.1	8.1	8.5	8.2	8.3	8.5	8.3	8.4	8.1	8.0	8.1
11	8.1	8.0	8.1	8.2	8.1	8.2	8.4	8.3	8.3	8.1	8.0	8.1
12	8.2	8.0	8.1	8.3	8.1	8.2	8.3	8.2	8.3	8.1	8.1	8.1
13	8.3	8.0	8.1	8.3	8.2	8.2	8.3	8.1	8.2	8.1	8.1	8.1
14	8.2	8.0	8.1	8.2	8.1	8.2	8.4	8.1	8.2	8.2	8.1	8.1
15	8.3	8.0	8.2	8.3	8.2	8.2	8.3	8.2	8.2	8.2	8.1	8.2
16	8.3	8.1	8.2	8.3	8.2	8.3	8.3	8.1	8.2	8.2	8.2	8.2
17	8.4	8.2	8.3	8.4	8.2	8.3	8.5	8.2	8.3	8.2	7.9	8.0
18	8.4	8.2	8.3	8.3	8.2	8.2	8.4	8.1	8.2	8.0	7.9	8.0
19	8.5	8.1	8.3	8.3	8.1	8.2	8.1	8.0	8.1	7.9	7.8	7.8
20	8.4	8.1	8.3	---	---	---	8.2	8.0	8.1	7.9	7.9	7.9
21	8.4	8.1	8.3	---	---	---	8.0	7.9	8.0	8.0	7.8	7.9
22	8.5	8.2	8.3	8.4	8.2	8.3	8.0	7.9	8.0	8.0	7.9	8.0
23	8.5	8.2	8.3	8.3	8.2	8.3	8.0	8.0	8.0	7.9	7.8	7.9
24	8.5	8.1	8.3	8.4	8.1	8.3	8.0	8.0	8.0	7.8	7.7	7.8
25	8.5	8.1	8.3	8.4	8.2	8.3	8.1	8.0	8.1	7.8	7.8	7.8
26	8.5	8.2	8.3	8.5	8.2	8.3	8.1	8.1	8.1	7.8	7.7	7.8
27	8.4	8.2	8.3	8.3	8.1	8.2	8.1	8.1	8.1	7.7	7.7	7.7
28	8.5	8.1	8.3	8.3	8.1	8.2	8.1	8.1	8.1	7.7	7.7	7.7
29	8.5	8.2	8.4	8.4	8.2	8.3	8.1	8.0	8.1	7.7	7.6	7.7
30	8.5	8.2	8.3	8.5	8.2	8.3	8.1	8.0	8.1	7.7	7.7	7.7
31	8.6	8.2	8.4	---	---	---	8.1	8.1	8.1	7.7	7.7	7.7
MONTH	8.6	8.0	8.2	8.6	8.1	8.3	8.5	7.9	8.2	8.2	7.6	8.0

SCIOTO RIVER BASIN

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03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.0	17.5	18.5	14.5	12.0	13.0	6.5	4.0	5.0	4.5	3.0	4.0
2	20.5	18.0	19.0	16.0	14.5	15.0	6.5	4.5	5.5	4.5	3.0	4.0
3	19.5	18.0	18.5	15.5	12.0	14.0	7.0	4.5	6.0	3.0	1.0	2.0
4	18.5	18.0	18.0	12.0	8.5	10.0	6.5	5.0	6.0	3.0	1.0	2.0
5	18.0	17.5	18.0	8.5	7.0	8.0	5.5	4.5	5.0	3.5	2.0	3.0
6	18.5	17.5	18.0	9.0	7.0	8.0	5.0	3.0	4.0	4.0	2.0	3.0
7	18.5	17.5	18.0	9.5	8.5	9.0	5.0	2.5	3.5	3.5	.0	1.5
8	18.5	16.5	17.5	9.0	6.5	8.0	2.5	1.0	1.5	.0	.0	.0
9	18.5	16.5	17.5	6.5	5.0	5.5	2.0	.0	1.5	.0	.0	.0
10	18.5	16.5	17.5	8.0	5.0	6.5	.0	.0	.0	.0	.0	.0
11	18.5	17.0	17.5	9.0	7.0	8.0	.0	.0	.0	.0	.0	.0
12	19.0	16.5	17.5	7.0	5.0	6.0	.0	.0	.0	.0	.0	.0
13	19.0	16.0	17.5	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0
14	18.5	16.5	17.5	6.0	5.5	6.0	2.0	.0	1.0	.5	.0	.0
15	16.5	14.5	15.5	5.5	5.0	5.5	3.0	1.5	2.0	.0	.0	.0
16	15.0	13.0	14.0	5.5	5.0	5.0	4.0	3.0	3.5	1.5	.0	.5
17	14.5	11.5	13.0	5.5	5.0	5.0	3.0	1.5	2.5	3.5	.5	2.5
18	15.0	11.5	13.5	6.5	5.5	6.0	3.0	2.0	2.5	6.0	3.0	4.5
19	16.5	13.0	14.5	7.0	6.0	6.5	3.0	2.0	2.5	6.0	.5	4.0
20	15.5	13.5	14.5	---	---	---	2.0	1.0	1.5	.5	.0	.0
21	13.5	12.0	12.5	---	---	---	1.5	1.0	1.5	2.0	.0	.5
22	13.5	11.0	12.0	5.0	4.0	4.5	1.5	1.0	1.5	2.5	1.0	2.0
23	14.5	11.0	13.0	5.5	4.0	5.0	2.0	1.0	1.5	4.5	2.5	3.5
24	15.0	12.5	13.5	5.0	3.5	4.0	2.0	1.5	1.5	5.0	2.0	4.0
25	14.0	12.0	13.0	4.0	3.0	3.5	2.0	1.5	2.0	4.5	1.5	2.5
26	12.5	10.5	11.5	5.0	3.0	4.0	2.0	1.5	1.5	5.5	1.5	2.5
27	13.0	11.5	12.5	8.0	5.0	6.0	2.5	2.0	2.0	7.0	2.5	4.5
28	13.0	12.0	12.5	8.0	6.0	7.0	3.5	2.0	2.5	4.0	2.0	3.0
29	13.5	11.5	12.5	6.0	4.5	5.5	4.5	2.0	3.0	5.5	2.0	4.0
30	12.0	11.0	11.5	4.5	3.0	4.0	4.0	.5	2.0	5.0	2.5	3.5
31	12.5	11.5	12.0	---	---	---	3.0	1.5	2.5	3.0	.0	1.5
MONTH	20.5	10.5	15.5	16.0	3.0	7.0	7.0	.0	2.5	7.0	.0	2.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	2.5	.0	1.5	6.5	5.5	6.0	11.5	6.0	9.0	13.0	11.5	12.0
2	2.0	.0	.5	6.0	5.0	6.0	13.0	5.5	9.5	14.5	11.5	13.0
3	2.0	1.0	1.0	5.0	3.5	4.5	16.0	10.5	12.5	17.0	14.0	15.5
4	2.5	.0	1.5	5.5	3.0	4.5	15.5	10.5	12.5	17.0	14.5	15.5
5	.0	.0	.0	8.0	5.0	6.5	12.5	9.0	10.0	16.5	15.0	15.5
6	.0	.0	.0	8.0	6.5	7.5	11.5	9.5	10.5	17.5	16.0	17.0
7	.5	.0	.0	7.5	5.5	6.0	12.0	9.0	10.0	17.0	13.5	15.0
8	---	---	---	7.0	5.5	6.0	12.0	9.5	10.5	15.5	13.5	14.5
9	3.5	2.5	3.0	7.0	5.0	6.0	11.0	7.5	9.0	18.0	15.0	16.5
10	5.0	1.5	3.0	9.5	4.0	6.5	9.5	7.0	8.5	19.0	17.5	18.0
11	5.0	3.5	4.5	12.5	5.0	8.0	12.0	8.0	10.0	19.5	15.5	18.0
12	3.5	1.5	2.5	---	---	---	15.0	11.5	13.0	15.5	14.0	14.5
13	3.5	1.5	2.5	---	---	---	14.5	14.0	14.5	15.5	14.0	14.5
14	3.5	2.0	3.0	---	---	---	14.0	11.0	12.0	15.5	13.0	14.5
15	3.0	2.5	3.0	---	---	---	11.0	10.0	10.5	15.5	14.0	14.5
16	2.5	1.5	2.0	---	---	---	11.0	9.5	10.0	16.0	14.0	15.0
17	1.5	.5	1.0	---	---	---	12.0	8.0	10.0	---	---	---
18	2.5	1.0	1.5	8.5	7.5	8.0	14.5	10.5	12.5	---	---	---
19	3.0	1.5	2.5	8.5	6.5	7.0	17.0	13.5	15.0	---	---	---
20	4.0	3.0	3.5	6.5	5.5	6.0	17.0	15.5	16.5	---	---	---
21	4.5	3.5	4.0	7.0	5.5	6.5	17.5	14.5	16.0	---	---	---
22	4.5	4.0	4.5	7.5	6.0	7.0	17.0	15.5	16.0	---	---	---
23	5.5	4.0	4.5	11.0	6.5	8.0	16.5	12.0	14.5	---	---	---
24	8.0	5.5	6.5	---	---	---	14.5	11.0	12.5	---	---	---
25	7.5	6.5	7.0	---	---	---	15.0	13.5	14.5	---	---	---
26	8.5	7.5	8.0	8.0	7.0	7.5	15.0	14.0	14.5	---	---	---
27	14.5	8.0	10.5	8.0	6.0	7.0	14.5	13.0	13.5	---	---	---
28	14.0	6.5	9.0	8.0	7.0	7.5	14.5	13.5	13.5	---	---	---
29	6.5	6.0	6.5	8.5	7.5	8.0	15.0	12.0	13.0	---	---	---
30	---	---	---	11.5	7.5	9.5	15.5	12.0	14.0	17.5	15.5	16.0
31	---	---	---	17.0	11.0	13.5	---	---	---	17.5	15.5	16.5
MONTH	14.5	.0	3.5	17.0	3.0	7.0	17.5	5.5	12.5	19.5	11.5	15.5

SCIOTO RIVER BASIN

03234300 PAINT CREEK AT CHILLICOTHE, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.0	16.0	17.0	26.5	24.0	25.0	24.5	21.5	23.0	26.0	21.5	23.5
2	17.5	16.5	17.0	26.5	24.5	25.5	24.5	21.5	23.0	25.5	21.5	23.5
3	18.5	16.5	17.5	25.5	22.5	24.0	25.5	22.0	24.0	24.0	22.0	23.0
4	18.5	17.0	18.0	23.5	20.5	22.0	26.5	22.5	24.5	25.0	22.0	23.5
5	19.0	17.0	18.0	24.0	20.0	22.0	27.0	23.0	25.0	26.5	22.5	24.5
6	19.0	17.5	18.5	25.0	21.0	23.0	28.0	24.5	26.0	25.0	23.0	24.0
7	19.0	18.5	18.5	25.5	22.5	24.0	28.0	26.0	27.0	27.0	22.0	24.0
8	20.5	18.5	19.5	26.0	23.5	24.5	27.5	26.5	27.0	26.5	22.5	24.5
9	23.5	19.5	21.5	26.0	23.5	24.5	26.5	24.0	25.5	26.5	23.5	25.0
10	25.0	20.0	22.5	25.0	22.0	23.5	25.0	22.5	24.0	25.5	22.5	24.0
11	22.0	19.0	20.0	24.5	21.0	23.0	24.5	22.5	23.5	26.0	21.0	23.5
12	20.0	18.5	19.5	25.5	21.5	23.5	23.5	22.0	22.5	24.5	21.5	22.5
13	22.5	20.0	21.0	26.0	23.0	24.5	24.5	21.0	22.5	21.5	19.0	20.0
14	22.0	19.5	20.5	27.0	23.5	25.0	26.0	22.0	24.0	22.5	16.5	19.0
15	---	---	---	26.5	24.0	25.0	25.5	23.0	24.5	22.5	16.5	19.5
16	---	---	---	26.0	23.0	24.5	26.0	23.5	24.5	20.0	18.0	18.5
17	---	---	---	27.5	23.5	25.5	25.0	22.5	23.5	19.0	17.5	18.0
18	21.0	20.5	21.0	26.5	25.0	26.0	26.5	22.5	24.5	20.0	17.5	18.5
19	22.5	20.0	21.0	27.0	24.5	25.5	26.5	23.0	25.0	21.0	16.5	18.5
20	23.5	21.0	22.5	26.5	23.5	25.0	27.0	23.5	25.5	22.0	16.5	19.0
21	23.5	21.5	22.5	25.0	22.0	23.5	---	---	---	21.0	17.5	19.0
22	24.0	22.5	23.0	22.5	21.0	21.5	---	---	---	22.0	18.0	20.0
23	24.0	22.0	23.0	24.0	20.5	22.0	28.5	25.0	26.5	21.5	16.5	19.0
24	24.5	22.5	23.5	25.0	21.5	23.5	27.5	24.5	26.0	20.5	18.5	19.5
25	23.5	22.0	23.0	24.0	22.5	23.5	26.5	22.5	24.5	21.5	15.5	18.0
26	23.0	20.5	22.0	24.5	21.5	23.0	26.5	22.0	24.5	20.0	15.5	17.5
27	24.0	21.0	22.5	25.0	21.5	23.0	26.0	22.5	24.5	20.0	18.5	19.5
28	25.0	22.0	23.5	24.5	21.5	23.0	26.0	22.0	24.0	19.5	16.5	18.0
29	25.5	23.0	24.0	24.0	22.0	23.0	26.0	22.5	24.0	17.5	15.5	16.5
30	26.0	23.5	25.0	23.5	22.0	22.5	26.0	21.5	23.5	18.5	15.5	17.0
31	---	---	---	24.5	22.5	23.0	26.0	21.0	23.5	---	---	---
MONTH	26.0	16.0	21.0	27.5	20.0	24.0	28.5	21.0	24.5	27.0	15.5	20.5
YEAR	28.5	.0	13.0									

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	11.4	7.7	9.1	12.6	8.8	10.4	16.1	11.8	13.5	12.4	12.1	12.2
2	11.1	7.5	8.9	11.5	8.0	9.3	16.4	11.8	13.6	12.2	11.8	12.0
3	8.9	7.4	8.1	13.4	7.7	10.1	14.3	11.7	12.8	12.7	11.9	12.2
4	9.7	7.3	8.2	13.7	8.9	11.0	16.6	11.3	13.4	12.7	11.7	12.3
5	8.2	7.6	7.9	12.2	10.1	11.0	15.4	11.7	13.3	11.9	10.9	11.6
6	7.9	7.5	7.7	12.4	10.1	11.0	16.5	12.0	14.0	11.8	10.6	11.1
7	8.4	7.6	8.0	10.2	8.6	9.5	17.2	13.4	14.7	13.6	11.0	12.4
8	9.2	8.1	8.5	---	---	---	16.8	13.0	14.7	13.2	13.0	13.1
9	9.5	8.1	8.6	15.5	12.9	13.7	17.2	12.9	14.7	13.1	12.9	13.0
10	9.7	8.2	8.8	15.6	11.9	13.2	17.3	14.0	15.4	13.4	12.8	13.1
11	9.8	8.0	8.7	11.9	11.0	11.4	17.0	14.5	15.6	13.5	13.3	13.4
12	10.0	8.2	8.9	13.7	11.1	12.4	15.8	13.8	14.7	13.3	13.1	13.2
13	10.6	8.3	9.0	12.6	12.0	12.2	14.5	13.1	13.8	13.2	13.1	13.1
14	8.7	7.7	8.3	12.4	11.6	12.0	16.1	12.7	14.0	13.1	13.0	13.1
15	10.3	8.2	9.1	13.1	11.9	12.4	15.1	12.8	13.8	13.6	13.0	13.3
16	11.0	9.0	9.7	13.1	12.1	12.5	14.8	11.9	13.3	13.6	13.1	13.4
17	12.0	9.3	10.3	13.7	12.2	12.8	15.7	12.7	13.9	13.3	12.2	12.8
18	12.4	9.4	10.6	12.6	11.8	12.2	13.6	12.5	13.0	13.2	11.3	12.3
19	12.5	9.0	10.3	14.0	11.7	12.5	12.5	12.3	12.4	12.3	9.5	11.2
20	10.6	8.5	9.5	12.8	11.8	12.4	13.5	12.5	13.1	---	---	---
21	11.1	8.8	9.8	---	---	---	13.4	13.2	13.3	---	---	---
22	11.9	9.5	10.4	14.3	12.2	12.9	13.5	13.1	13.3	13.0	12.6	12.9
23	12.1	9.3	10.3	13.3	11.7	12.4	13.1	12.9	13.0	12.6	12.1	12.4
24	11.9	8.8	10.0	14.8	11.7	13.0	13.0	12.9	12.9	12.6	8.5	11.3
25	12.4	8.8	10.2	14.7	12.2	13.2	12.9	12.7	12.8	9.9	8.7	9.5
26	11.9	9.2	10.2	15.1	12.1	13.3	13.0	12.7	12.8	9.3	8.7	9.0
27	11.0	9.0	9.8	12.4	10.8	11.8	12.8	12.6	12.7	9.7	8.0	9.2
28	11.4	8.6	9.7	13.0	10.5	11.5	12.8	12.5	12.7	10.2	8.8	9.3
29	12.4	8.8	10.3	14.0	11.2	12.3	12.7	12.1	12.5	11.7	8.5	9.5
30	12.3	9.1	10.4	15.6	11.8	13.3	13.4	12.4	12.9	12.8	9.2	11.1
31	12.7	9.1	10.5	---	---	---	13.0	12.4	12.7	11.0	9.3	10.1
MONTH	12.7	7.3	9.3	15.6	7.7	12.0	17.3	11.3	13.5	13.6	8.0	11.8

SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH

LOCATION.--Lat 39°12'44", long 82°51'50", in sec. 6, T.7 N., R.20 W., Ross County, Hydrologic Unit 05060002, on left bank at downstream side of highway bridge, 0.8 mi downstream from Walnut Creek, 1.2 mi north of Higby, 3 mi northwest of Richmondale and 5.0 mi upstream from Salt Creek.

DRAINAGE AREA.--5,131 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 893: 1937(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 567.28 ft above sea level. Prior to Nov. 7, 1930, nonrecording gage at same site and datum.

REMARKS.--Records fair, except periods of estimated records, which are poor. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--A stage of 31.6 ft occurred Mar. 26, 1913.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	1200	1820	2660	19000	25100	9000	38400	16500	2610	4250	970
2	1390	1160	1650	3630	18000	18700	15200	41200	13500	2780	2850	928
3	1370	1500	1460	6810	14100	15500	13500	31300	12300	2670	2410	914
4	1710	1550	1370	e6000	10300	10100	9410	27900	13800	2280	2220	912
5	3280	1870	1300	e4800	9210	7250	8640	37500	17300	2110	2030	948
6	5320	2180	1250	e4300	7110	10900	8260	27800	14900	2040	1780	1010
7	7880	1950	1220	e3700	4920	19400	7350	26000	18900	1950	1540	1020
8	6720	2180	1250	e3300	4270	17200	6730	23700	25100	1920	1450	990
9	5280	1920	1210	e3000	4650	11500	6100	26300	23300	1870	1680	1130
10	3900	1750	1060	e2800	5250	8140	5460	28400	19000	1930	2500	1060
11	3090	1850	960	e2700	5210	7210	4950	31300	19400	1800	1880	1030
12	2490	4880	1030	e2500	5360	6320	4590	33700	20900	1670	1660	1030
13	1890	7790	1020	e2400	5850	6030	4160	35300	18500	1680	1480	985
14	1750	8340	1040	e2300	4880	5900	4240	32300	18000	1720	1470	937
15	2030	8300	1440	e3000	4530	8110	4140	25300	20500	1820	1370	909
16	2030	7660	1910	3480	4090	10900	5070	30400	14400	1870	1260	977
17	1790	5470	1680	7470	3690	8850	5990	28400	11900	1930	1220	1100
18	1630	4090	1770	19700	3490	7630	5500	24200	8160	1910	1180	2660
19	1470	3220	4940	32000	3290	8770	5450	21700	7160	8440	1150	1570
20	1390	3650	11500	32300	3890	23500	5470	20500	8460	8110	1100	1160
21	1370	4150	10600	34800	7110	28300	6290	18900	8350	7460	1080	1060
22	1620	3540	7020	29400	7980	27100	7010	17600	6640	5160	1140	1030
23	1760	2980	4550	17200	7990	20900	8620	14900	5110	4890	1170	1190
24	1720	2760	3930	30100	7860	16700	19800	12900	4640	3370	1140	1160
25	1620	2560	3600	31400	7540	14400	24400	11900	4800	2950	1100	1020
26	1370	2350	3370	30000	7090	12400	23800	11500	4080	4220	1130	943
27	1300	2220	3130	25600	8220	9670	20600	15100	3510	2900	1050	924
28	1330	2220	2860	26400	21900	8180	17300	20500	3300	2340	1030	1260
29	1450	2100	2660	26000	27300	7070	21300	19800	3090	2190	1020	6770
30	1320	1910	2530	22800	---	6220	33600	22300	2770	2290	1020	3510
31	1260	---	2540	20500	---	5790	---	20300	---	3610	998	---
TOTAL	73960	99300	87670	443050	244080	393740	321930	777300	368270	94490	48358	41107
MEAN	2386	3310	2828	14290	8417	12700	10730	25070	12280	3048	1560	1370
MAX	7880	8340	11500	34800	27300	28300	33600	41200	25100	8440	4250	6770
MIN	1260	1160	960	2300	3290	5790	4140	11500	2770	1670	998	909

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

	MEAN	1192	2424	4254	6762	7809	9688	8425	6038	4077	2862	1969	1356
MAX	6524	15460	17190	39500	18620	28220	19600	25070	12670	11430	10070	13230	
(WY)	1991	1973	1991	1937	1951	1963	1957	1996	1981	1992	1980	1979	
MIN	263	304	349	433	518	1375	1485	809	718	518	457	301	
(WY)	1931	1935	1935	1931	1954	1941	1941	1941	1934	1944	1936	1953	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1931 - 1996

ANNUAL TOTAL	2120403	2993255	
ANNUAL MEAN	5809	8178	4722
HIGHEST ANNUAL MEAN			8178
LOWEST ANNUAL MEAN			1364
HIGHEST DAILY MEAN	27800	Jan 16	127000
LOWEST DAILY MEAN	610	Jan 8	244
ANNUAL SEVEN-DAY MINIMUM	689	Jan 3	255
INSTANTANEOUS PEAK FLOW			177000
INSTANTANEOUS PEAK STAGE			18.40
INSTANTANEOUS LOW FLOW			909
10 PERCENT EXCEEDS	15500	23600	244
50 PERCENT EXCEEDS	3350	4140	12100
90 PERCENT EXCEEDS	996	1140	2060
			526

SCIOTO RIVER BASIN

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 to 1993, 1996.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: March 1967 to September 1993, October 1995 to September 1996.

pH: March 1967 to September 1993, October 1995 to September 1996.

WATER TEMPERATURES: March 1967 to September 1993, October 1995 to September 1996.

DISSOLVED OXYGEN: March 1967 to September 1993, October 1995 to September 1996.

INSTRUMENTATION.--Water-quality monitor since March 1967. Digital recorder set for 1-hour interval punch since May 1972. Electronic data logger since April 30, 1991, set for 1-hour interval.

REMARKS.--Samples were collected quarterly as part of the National Stream Quality Accounting Network. Interruptions in the water-quality record were due to malfunction of the instrument. Daily sediment data collected 1954-1974, 1979-1982.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,070 microsiemens Sept. 29, 1984; minimum, 113 microsiemens Sept. 16, 1975.

pH: Maximum, 9.3 units July 21, 1982, July 19, Aug. 21, 1984; minimum, 5.9 units Mar. 8, 1980.

WATER TEMPERATURES: Maximum, 34.0°C June 29, 1966; minimum, 0.0°C on many days during winter.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days from 1982 to 1989; minimum, 0.0 mg/L on many days during 1968, Sept. 13, 1969.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 916 microsiemens Jan. 6; minimum, 240 microsiemens May 5.

pH: Maximum, 8.9 units Oct. 2 and Aug. 5; minimum 7.2 units Jul. 24.

WATER TEMPERATURE: Maximum, 28.5°C Aug. 7; minimum, 0.0°C on many days during winter.

DISSOLVED OXYGEN: Maximum, 18.8 mg/L Jul. 17; minimum, 5.2 mg/L Sept. 2.

SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	732	519	671	770	755	762	721	706	712	861	840	854
2	693	659	674	763	754	760	740	721	732	842	714	821
3	---	---	---	770	759	763	758	740	751	736	628	676
4	794	782	787	791	761	779	769	757	765	765	734	749
5	822	784	808	809	729	764	781	769	774	896	756	830
6	---	---	---	732	662	694	799	781	792	916	869	898
7	---	---	---	705	673	693	805	798	803	874	859	866
8	---	---	---	699	681	685	815	803	809	906	867	884
9	---	---	---	740	682	696	818	807	813	913	901	907
10	---	---	---	704	646	679	830	812	818	901	858	875
11	---	---	---	657	647	655	861	830	848	879	856	868
12	638	615	624	683	617	662	859	848	852	871	856	861
13	672	626	644	617	523	550	865	852	858	860	853	858
14	705	672	683	587	566	580	871	865	869	854	838	845
15	690	641	661	619	585	603	874	861	866	841	810	826
16	688	641	668	622	611	618	861	771	818	839	813	830
17	714	688	708	611	599	607	900	786	838	---	---	---
18	720	704	711	609	599	603	904	777	882	779	573	678
19	713	702	708	630	609	621	789	483	658	744	467	515
20	702	694	699	653	630	642	624	555	607	522	458	498
21	723	700	710	652	617	631	610	571	583	458	366	393
22	733	699	718	617	606	609	649	576	611	412	369	387
23	754	705	736	641	613	626	733	649	701	424	377	415
24	773	747	761	666	641	657	741	728	733	377	259	298
25	817	735	750	676	666	672	769	741	758	392	328	375
26	735	722	728	684	676	681	778	763	772	404	386	393
27	731	724	727	688	683	686	793	768	780	411	393	405
28	753	731	745	691	683	688	812	793	805	416	394	407
29	750	738	742	695	685	689	841	809	828	410	405	407
30	771	750	762	706	695	702	856	840	849	417	410	414
31	779	769	775	---	---	---	863	837	848	430	417	424
MONTH	822	519	717	809	523	669	904	483	778	916	259	649

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	428	424	427	465	451	457	616	365	470	326	288	312
2	450	428	438	459	427	446	474	430	454	330	313	320
3	478	450	467	427	415	419	534	474	512	395	330	358
4	530	478	499	476	422	448	572	534	551	407	241	333
5	569	530	551	520	476	500	599	568	580	342	240	280
6	612	569	592	519	384	427	603	587	594	348	335	343
7	656	612	629	447	420	432	614	586	601	396	340	370
8	684	656	673	464	434	446	620	614	617	409	385	400
9	690	681	685	512	464	494	625	617	620	385	343	362
10	690	667	678	539	512	525	641	624	633	343	287	303
11	697	675	683	566	539	556	655	641	650	331	293	311
12	709	692	700	603	566	585	664	652	657	329	321	325
13	708	658	679	604	591	596	663	655	658	327	293	309
14	683	658	676	621	604	612	677	662	666	330	291	301
15	682	668	673	616	492	534	691	627	676	352	330	343
16	683	673	678	552	500	532	627	578	595	335	281	297
17	706	683	697	576	551	561	625	609	617	352	294	318
18	722	705	712	590	574	584	613	592	600	404	352	376
19	728	722	726	593	315	497	610	589	602	410	387	398
20	726	586	669	386	315	345	614	541	585	392	383	386
21	644	587	630	421	386	410	606	562	590	401	392	396
22	632	592	605	461	421	447	611	598	606	410	401	405
23	683	601	647	494	461	482	604	498	563	420	405	414
24	673	626	649	469	456	460	518	453	487	428	418	423
25	627	622	624	487	457	469	464	443	453	468	428	448
26	631	622	628	525	487	508	459	427	435	469	453	462
27	622	583	605	559	525	545	462	442	457	463	331	414
28	584	391	446	582	559	574	471	457	467	435	332	375
29	469	423	455	581	519	545	471	336	420	461	428	447
30	---	---	---	593	553	572	336	279	296	418	340	373
31	---	---	---	617	571	593	---	---	---	451	418	440
MONTH	728	391	615	621	315	503	691	279	557	469	240	366

SCIOTO RIVER BASIN

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	464	446	455	678	634	655	669	545	614	851	834	845
2	464	459	463	682	666	672	559	532	542	858	845	852
3	471	456	464	684	669	676	599	559	580	870	854	865
4	474	438	453	711	671	689	644	598	623	866	861	864
5	452	417	434	721	707	715	657	640	648	862	850	857
6	454	419	439	725	712	719	665	649	659	877	862	870
7	449	361	396	733	720	727	692	664	679	876	856	869
8	389	351	367	742	724	732	703	692	696	859	844	855
9	403	389	397	737	727	733	705	689	699	860	843	848
10	458	400	431	732	701	719	721	697	712	889	860	879
11	460	420	438	733	711	723	710	662	684	890	873	882
12	420	391	405	753	733	747	664	619	631	897	887	893
13	422	402	415	753	731	745	671	626	653	887	875	879
14	430	365	411	747	705	733	720	671	700	877	872	875
15	365	322	339	726	640	711	749	720	738	876	873	875
16	362	354	356	737	694	713	795	749	765	873	827	851
17	377	362	369	771	695	730	---	---	---	828	786	801
18	---	---	---	778	751	766	---	---	---	851	786	828
19	---	---	---	778	425	609	---	---	---	843	707	758
20	588	511	572	508	417	445	---	---	---	707	683	689
21	511	491	502	570	508	535	---	---	---	709	690	701
22	555	510	537	612	570	594	---	---	---	727	708	721
23	603	550	566	612	579	604	826	805	817	752	726	739
24	620	603	613	591	575	583	811	788	801	785	752	765
25	624	545	583	604	589	596	808	794	802	822	785	812
26	612	563	599	622	584	610	816	801	807	822	811	819
27	628	605	619	584	554	562	839	815	824	811	789	797
28	618	603	612	612	564	588	869	837	851	789	647	742
29	635	603	620	664	612	641	882	855	871	701	407	561
30	646	621	635	653	560	641	868	829	850	466	410	438
31	---	---	---	689	612	660	836	821	829	---	---	---
MONTH	646	322	482	778	417	664	882	532	723	897	407	801
YEAR	916	240	624									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.8	8.6	8.7	8.1	8.1	8.1	8.2	8.2	8.2	8.1	8.1	8.1
2	8.9	8.4	8.7	8.1	8.0	8.1	8.2	8.1	8.2	8.2	8.1	8.1
3	8.8	8.4	8.5	8.2	8.0	8.1	8.2	8.1	8.1	8.2	8.1	8.1
4	8.5	8.2	8.4	8.1	8.0	8.1	8.1	8.1	8.1	8.2	8.2	8.2
5	8.5	7.8	8.0	8.2	8.0	8.1	8.1	8.1	8.1	8.2	8.2	8.2
6	---	---	---	8.2	8.1	8.2	8.2	8.1	8.1	8.2	8.2	8.2
7	---	---	---	8.2	8.0	8.1	8.2	8.1	8.2	8.2	8.2	8.2
8	---	---	---	8.2	8.0	8.1	8.2	8.2	8.2	8.2	8.1	8.2
9	---	---	---	8.2	8.1	8.1	8.2	8.2	8.2	8.2	8.1	8.1
10	---	---	---	8.3	8.1	8.2	8.2	8.2	8.2	8.2	8.1	8.1
11	---	---	---	8.2	8.1	8.1	8.2	8.2	8.2	8.2	8.1	8.2
12	8.4	7.9	8.1	8.1	8.0	8.1	8.2	8.1	8.2	8.2	8.1	8.1
13	8.3	8.1	8.2	8.1	7.9	8.0	8.1	8.1	8.1	8.2	8.1	8.1
14	8.3	8.1	8.1	8.2	8.1	8.1	8.1	8.0	8.1	8.2	8.1	8.1
15	8.1	7.9	8.0	8.2	8.2	8.2	8.2	8.1	8.1	8.2	8.1	8.2
16	8.0	7.7	7.9	8.3	8.2	8.2	8.2	8.1	8.1	8.2	8.2	8.2
17	7.7	7.6	7.6	8.2	8.2	8.2	8.2	8.1	8.2	8.2	7.9	8.0
18	8.0	7.8	7.8	8.2	8.1	8.2	8.2	8.1	8.1	7.9	7.8	7.9
19	8.1	7.6	7.9	8.1	8.1	8.1	8.1	8.0	8.1	7.9	7.8	7.8
20	---	---	---	8.1	8.1	8.1	8.1	8.1	8.1	7.9	7.9	7.9
21	---	---	---	8.1	8.1	8.1	8.1	8.1	8.1	7.9	7.8	7.9
22	---	---	---	8.1	8.1	8.1	8.1	8.1	8.1	7.9	7.8	7.8
23	8.2	8.1	8.2	8.1	8.1	8.1	8.2	8.1	8.1	7.9	7.8	7.8
24	8.2	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.2	7.9	7.7	7.8
25	8.2	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.2	7.9	7.9	7.9
26	8.2	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.2	7.9	7.9	7.9
27	8.2	8.0	8.1	8.2	8.1	8.1	8.2	8.1	8.2	7.9	7.9	7.9
28	8.2	8.0	8.1	8.1	8.1	8.1	8.2	8.1	8.2	7.9	7.9	7.9
29	8.2	8.1	8.2	8.2	8.1	8.1	8.2	8.1	8.2	7.9	7.9	7.9
30	8.2	8.1	8.1	8.2	8.1	8.1	8.2	8.1	8.2	7.9	7.9	7.9
31	8.1	8.0	8.1	---	---	---	8.2	8.1	8.1	8.0	7.9	8.0
MONTH	8.9	7.6	8.1	8.3	7.9	8.1	8.2	8.0	8.2	8.2	7.7	8.0

SCIOTO RIVER BASIN

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03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER			NOVEMBER			DECEMBER			JANUARY			
1	20.0	15.5	18.5	14.0	12.5	13.5	7.0	5.5	6.0	3.5	2.5	3.0
2	20.0	16.0	18.5	15.5	14.0	15.0	7.0	5.5	6.5	3.5	3.0	3.5
3	19.5	19.0	19.0	15.5	12.5	14.0	7.5	6.0	6.5	3.0	.5	1.5
4	19.0	18.5	19.0	12.5	10.5	11.5	7.5	6.0	7.0	.5	.0	.5
5	19.0	18.0	18.5	10.5	9.0	9.5	6.5	6.0	6.5	.5	.0	.5
6	---	---	---	9.0	8.0	8.5	6.0	5.0	5.0	.5	.0	.0
7	---	---	---	9.0	8.5	9.0	5.5	4.0	5.0	.5	.0	.0
8	---	---	---	8.5	7.0	8.0	4.0	3.0	3.5	.0	.0	.0
9	---	---	---	7.5	6.0	7.0	4.0	2.0	3.5	.5	.0	.0
10	---	---	---	8.5	6.0	7.5	2.0	.5	1.0	1.0	.5	.5
11	---	---	---	8.5	7.0	8.0	1.0	.0	.5	.5	.0	.0
12	18.5	17.0	17.5	7.0	6.0	6.5	1.0	.5	1.0	.5	.0	.0
13	19.0	16.5	18.0	6.5	6.0	6.0	1.5	1.0	1.0	1.0	.0	.5
14	18.5	17.0	18.0	6.0	5.0	5.5	4.0	1.5	3.0	3.0	1.0	2.0
15	17.0	15.5	16.0	5.5	5.0	5.0	4.5	3.5	4.0	2.5	1.5	2.0
16	15.5	14.0	15.0	5.0	5.0	5.0	5.0	4.5	5.0	2.5	1.5	2.0
17	14.5	13.0	13.5	5.0	4.5	5.0	4.5	4.0	4.5	3.0	1.5	2.5
18	15.5	13.0	14.0	6.0	5.0	5.5	4.5	4.0	4.0	3.5	3.0	3.0
19	16.5	14.0	15.0	7.0	5.5	6.0	4.0	2.0	3.5	4.0	2.0	3.5
20	15.5	14.5	15.0	7.0	5.5	6.5	2.0	1.5	1.5	2.0	.5	1.0
21	14.5	13.0	13.5	7.0	5.0	6.0	1.5	1.0	1.0	.5	.0	.5
22	14.0	12.0	13.0	5.5	4.5	5.0	1.0	.5	1.0	1.0	.0	.5
23	14.5	12.5	13.5	5.5	5.0	5.0	1.0	.5	1.0	2.0	1.0	1.5
24	15.0	13.5	14.0	5.5	4.5	5.0	1.0	.5	1.0	3.0	2.0	2.5
25	14.5	13.0	13.5	4.5	4.0	4.5	1.0	.5	1.0	2.0	1.0	1.5
26	13.5	12.0	12.5	5.5	4.0	4.5	1.0	.5	1.0	1.5	.5	1.0
27	13.5	12.5	13.0	7.0	5.0	6.0	1.0	.5	.5	2.5	1.5	2.0
28	13.5	12.5	13.0	7.0	6.5	6.5	1.0	.0	.5	2.0	1.0	1.5
29	13.5	12.0	12.5	6.5	5.5	6.0	1.5	.0	.5	1.5	1.0	1.5
30	12.5	12.0	12.0	5.5	4.5	5.5	1.5	.0	1.0	1.5	1.0	1.5
31	13.0	12.0	12.5	---	---	---	2.5	1.5	2.0	1.0	.5	1.0
MONTH	20.0	12.0	15.0	15.5	4.0	7.0	7.5	.0	3.0	4.0	.0	1.5

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.5	.0	.5	4.5	3.0	4.0	11.0	7.0	8.5	12.5	12.0	12.0
2	.0	.0	.0	5.0	4.0	4.5	8.0	6.5	7.0	13.0	11.5	12.5
3	.0	.0	.0	4.5	3.0	3.5	10.5	7.5	9.0	14.5	13.0	13.5
4	.0	.0	.0	3.5	2.0	3.0	11.5	10.0	10.5	15.5	14.5	15.0
5	.0	.0	.0	5.0	3.0	4.0	10.5	8.5	9.5	15.5	14.5	15.0
6	.5	.0	.0	5.0	4.5	5.0	9.0	8.0	8.5	15.0	14.0	14.5
7	2.0	.5	1.0	4.5	2.5	3.5	8.5	7.5	8.0	14.5	14.0	14.5
8	3.5	2.0	3.0	2.5	1.5	2.0	8.5	7.5	8.0	14.5	14.0	14.0
9	4.5	3.5	4.0	1.5	1.0	1.0	8.0	7.0	7.5	16.5	14.5	15.5
10	5.5	3.0	4.0	3.0	.5	1.5	10.0	7.0	8.5	19.0	16.5	18.0
11	5.5	4.0	4.5	4.5	1.5	3.0	12.0	8.5	10.0	19.0	16.5	18.5
12	4.0	2.5	3.0	6.0	3.0	4.5	15.5	11.5	13.0	16.5	14.5	15.0
13	2.5	1.5	2.0	7.0	4.5	5.5	15.5	14.5	15.0	14.5	13.5	14.0
14	3.0	2.0	2.5	9.0	6.5	7.5	15.0	13.5	14.0	14.5	13.0	13.5
15	3.0	2.5	3.0	9.5	8.5	9.0	13.5	12.5	12.5	14.0	13.5	14.0
16	3.0	2.0	2.5	9.0	8.0	8.5	12.5	10.5	11.0	14.5	13.5	14.0
17	2.0	1.5	2.0	9.0	8.5	8.5	13.0	10.0	11.0	15.5	13.5	14.0
18	3.0	1.5	2.0	9.0	8.0	8.5	14.5	11.0	12.5	18.0	13.5	14.5
19	3.5	2.0	3.0	8.5	6.5	7.5	17.0	14.0	15.0	18.0	15.0	16.0
20	4.5	3.5	4.0	6.5	4.5	5.5	17.5	16.0	17.0	17.0	16.0	16.5
21	5.0	4.0	4.5	4.5	4.0	4.0	19.0	16.0	17.5	19.0	17.0	18.0
22	4.5	4.0	4.5	4.0	3.5	4.0	18.0	17.0	17.5	18.5	16.0	17.5
23	6.0	4.5	5.0	5.0	3.5	4.0	17.5	14.0	16.0	16.5	15.0	16.0
24	7.5	5.5	6.5	7.0	4.5	5.5	14.0	12.5	13.0	18.0	16.0	17.0
25	6.5	6.0	6.5	8.5	7.0	7.5	13.5	12.5	13.0	18.5	16.5	17.5
26	7.0	6.5	6.5	8.5	7.0	7.5	13.5	12.5	13.0	18.5	17.0	17.5
27	9.0	7.0	7.5	8.0	6.0	7.0	13.5	12.0	12.5	17.0	15.5	16.5
28	9.0	7.0	8.0	7.0	6.5	7.0	13.0	12.5	13.0	17.0	15.5	16.0
29	7.0	4.0	5.0	7.5	7.0	7.5	13.5	12.5	13.0	17.0	16.5	17.0
30	---	---	---	10.0	7.0	8.5	14.0	12.5	13.5	17.5	15.5	16.5
31	---	---	---	11.0	9.5	10.0	---	---	---	18.0	16.0	17.0
MONTH	9.0	.0	3.5	11.0	.5	5.5	19.0	6.5	12.0	19.0	11.5	15.5

SCIOTO RIVER BASIN

03234500 SCIOTO RIVER AT HIGBY, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.5	16.5	17.5	27.5	25.0	26.0	24.0	22.0	23.0	26.0	23.5	24.5
2	18.0	17.5	17.5	27.5	25.5	26.5	24.5	22.0	23.0	25.5	23.5	24.5
3	19.5	17.0	17.5	27.0	24.5	25.0	25.5	22.5	24.0	24.5	23.5	24.0
4	19.0	17.5	18.0	25.0	22.0	23.5	26.5	23.5	24.5	24.0	22.5	23.5
5	19.0	16.5	17.5	25.0	22.0	23.5	26.5	24.0	25.5	26.0	23.0	24.5
6	19.5	16.0	18.0	25.5	22.0	24.0	27.5	25.0	26.5	25.0	23.5	24.0
7	19.5	18.0	18.5	25.5	23.5	24.5	28.5	26.0	27.0	25.0	22.5	23.5
8	19.0	17.0	18.0	26.0	24.0	25.0	28.0	26.5	27.0	25.5	23.5	24.5
9	19.5	17.0	18.5	26.0	24.0	25.0	27.0	25.0	26.0	25.5	24.0	25.0
10	20.5	17.5	19.0	25.0	23.0	24.0	26.5	24.5	25.5	25.5	24.0	24.5
11	20.0	18.0	19.5	25.0	22.0	23.5	26.0	24.0	25.0	25.5	23.0	24.0
12	20.0	19.0	19.5	26.0	23.0	24.5	25.0	23.0	23.5	24.5	23.0	23.5
13	20.5	18.5	19.5	26.0	24.0	25.0	25.0	22.0	23.5	23.0	20.5	21.5
14	20.5	18.0	19.0	27.0	24.5	25.5	26.0	23.0	24.5	21.5	19.0	20.0
15	21.5	19.5	20.5	26.5	25.0	26.0	25.5	24.0	24.5	21.0	19.0	20.0
16	22.5	20.5	21.5	26.5	24.5	25.5	26.0	24.0	25.0	20.5	19.0	19.5
17	23.0	21.0	22.0	27.5	24.5	26.0	---	---	---	20.0	18.5	19.0
18	22.5	21.5	22.0	27.0	26.0	26.5	---	---	---	20.5	18.5	19.5
19	23.0	21.5	22.0	26.5	25.0	25.5	---	---	---	21.0	18.5	19.5
20	24.0	22.5	23.0	26.0	24.0	25.0	---	---	---	21.0	18.5	19.5
21	24.0	22.5	23.0	25.0	24.0	24.5	---	---	---	20.5	19.0	20.0
22	25.0	23.0	24.0	24.0	23.5	23.5	---	---	---	20.5	19.0	20.0
23	25.0	23.0	24.0	24.5	22.5	23.5	27.5	25.5	26.5	20.5	18.5	19.5
24	25.0	23.5	24.5	24.5	22.5	23.5	27.5	25.5	26.5	20.0	19.5	20.0
25	24.5	23.0	24.0	24.0	23.0	23.5	27.0	24.5	26.0	20.5	18.0	19.0
26	24.5	22.0	23.0	25.0	22.5	23.5	27.0	24.5	25.5	19.5	18.0	19.0
27	24.5	21.5	23.0	25.0	22.5	23.5	26.0	24.5	25.0	19.5	19.0	19.0
28	25.0	22.5	23.5	25.0	22.5	24.0	26.0	24.0	25.0	19.5	17.5	18.5
29	26.0	23.5	24.5	24.5	23.0	23.5	26.5	24.0	25.0	18.5	17.0	17.5
30	27.0	24.0	25.5	23.5	22.5	23.0	26.0	23.5	25.0	18.5	16.5	17.5
31	---	---	---	24.0	22.5	23.5	26.0	23.0	24.5	---	---	---
MONTH	27.0	16.0	21.0	27.5	22.0	24.5	28.5	22.0	25.0	26.0	16.5	21.5
YEAR	28.5	.0	12.5									

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996												
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	10.3	9.3	9.9	12.1	11.6	11.8	13.6	13.0	13.3
2	---	---	---	9.8	8.8	9.2	11.9	11.5	11.8	13.6	12.9	13.1
3	---	---	---	10.2	8.3	9.2	11.8	11.1	11.4	13.6	13.1	13.4
4	14.5	10.0	12.4	10.5	8.9	9.7	11.7	10.9	11.3	14.0	13.6	13.8
5	12.8	7.5	8.6	11.2	9.7	10.5	11.7	11.2	11.4	14.4	13.9	14.1
6	---	---	---	11.5	10.2	10.9	12.1	11.4	11.7	14.7	14.1	14.3
7	---	---	---	11.2	10.0	10.3	12.7	11.8	12.3	14.6	14.3	14.4
8	---	---	---	11.2	10.1	10.6	13.0	12.4	12.7	14.5	14.2	14.4
9	---	---	---	12.0	10.6	11.2	13.5	12.3	13.0	14.5	13.8	14.0
10	---	---	---	12.0	11.1	11.7	13.8	13.0	13.4	14.6	13.7	14.2
11	---	---	---	11.7	10.3	10.8	13.9	13.1	13.5	14.6	14.1	14.3
12	8.9	8.4	8.6	11.3	10.2	10.8	13.8	13.3	13.5	14.3	13.8	14.0
13	9.1	8.2	8.5	10.8	9.8	10.2	13.5	12.7	13.1	14.3	13.7	13.9
14	8.4	7.7	7.9	11.7	10.8	11.3	13.3	12.4	12.9	14.3	13.6	13.9
15	9.0	7.7	8.3	12.1	11.7	11.9	13.1	12.4	12.8	14.6	13.6	14.1
16	9.6	8.6	9.1	12.2	11.8	12.0	13.0	12.0	12.6	14.6	14.1	14.3
17	9.4	9.0	9.3	12.2	11.7	12.1	13.6	12.2	13.0	14.4	12.7	13.3
18	12.6	8.8	10.1	11.7	11.4	11.5	13.3	12.4	12.7	12.7	12.0	12.4
19	10.1	8.9	9.5	11.7	11.4	11.5	12.7	12.3	12.5	12.6	12.1	12.3
20	9.7	8.6	9.1	11.6	11.4	11.5	13.3	12.6	12.9	13.0	12.6	12.7
21	9.2	8.4	8.9	11.8	11.4	11.5	13.8	13.3	13.5	13.4	13.0	13.2
22	10.5	8.9	9.6	12.0	11.7	11.8	13.8	13.7	13.8	13.6	13.3	13.4
23	10.8	9.3	10.2	11.9	11.6	11.7	13.7	13.5	13.6	13.4	13.1	13.2
24	10.6	9.1	9.9	12.1	11.7	11.9	13.8	13.5	13.6	13.1	12.8	12.9
25	11.1	9.1	10.1	12.2	11.9	12.1	13.8	13.4	13.6	13.2	12.9	13.1
26	10.9	9.5	10.2	12.2	11.9	12.0	13.9	13.6	13.7	13.4	13.2	13.3
27	10.4	8.9	9.6	12.1	11.1	11.5	14.1	13.5	13.8	13.2	13.0	13.1
28	10.1	8.8	9.4	11.4	11.1	11.2	14.1	13.5	13.8	13.5	13.2	13.4
29	10.9	9.2	10.1	11.6	11.1	11.4	14.3	13.8	14.0	13.6	13.4	13.5
30	10.7	9.5	10.1	12.1	11.5	11.8	14.3	13.9	14.0	13.6	13.5	13.5
31	10.4	9.4	10.0	---	---	---	14.1	13.5	13.6	13.8	13.6	13.7
MONTH	14.5	7.5	9.5	12.2	8.3	11.1	14.3	10.9	12.9	14.7	12.0	13.6

SCIOTO RIVER BASIN

RESERVOIRS IN SCIOTO RIVER BASIN

- 03220500 O'SHAUGHNESSY RESERVOIR NEAR DUBLIN.--Lat 40°09'14", long 83°07'33", Delaware County, Hydrologic Unit 0506001, in gate house of dam on Scioto River, 4.0 mi north of Dublin.
DRAINAGE AREA.--979 mi².
PERIOD OF RECORD.--October 1924 to current year.
GAGE.--water-stage recorder. Monthend contents only for some periods published in WSP 1305. Datum of gage is sea level (levels by city of Columbus). Prior to Dec. 2, 1940, nonrecording gage at same site and datum.
REMARKS.--Reservoir is formed by concrete dam; dam completed and storage begun in 1924. Usable capacity, 14,500 acre-ft, between elevations 789.5 ft (sill of outlet gate) and 845 ft (crest of spillway), based on survey made in 1942. Flashboards installed May 8, 1945, additional capacity, 2,480 acre-ft, between elevations 845 ft (crest of spillway) and 847.9 ft (crest of flashboards). Dead storage below elevation 789.5 ft, 55 acre-ft. Figures given herein represent usable contents. Water used for municipal supply of city of Columbus and recreational purposes. Reservoir also used for power generation since July 1987. Capacity table computed from data furnished by city of Columbus.
EXTREMES FOR PERIOD OF RECORD.-- Maximum contents, 24,240 acre-ft Jan. 22, 1959, elevation, 854.40 ft; minimum, 43 acre-ft Feb. 11, 1945, elevation, 791.97 ft.
EXTREMES FOR CURRENT YEAR.--Maximum contents, 21,280 acre-ft Jan. 19, elevation, 851.95 ft; minimum, 15,380 acre-ft Sept. 16, elevation, 846.11 ft.
- 03221500 GRIGGS RESERVOIR NEAR COLUMBUS.--Lat 40°00'54", long 83°05'38", Franklin County, Hydrologic Unit 05060001, on left abutment of dam on Scioto River, 6.2 mi northwest of State Capitol building in Columbus, and 6.5 mi upstream from Olentangy River.
DRAINAGE AREA.--1,044 mi².
PERIOD OF RECORD.--January 1921 to current year.
GAGE.--Water-stage recorder. Monthend contents only for some periods, published in WSP 1305. Daily readings have been obtained by city of Columbus, Division of Water, since 1908. Datum of gage is 680.38 ft above sea level (levels by city of Columbus). Prior to Oct. 4, 1940, nonrecording gage at same site and datum.
REMARKS.--Reservoir formed by concrete dam; dam completed and storage begun in 1905. Usable capacity, 3,700 acre-ft between elevations 735.4 ft (lowest outlets) and 753.4 ft (crest of spillway), based on survey made in 1935. Flashboards installed July 28, 1945, additional capacity, 750 acre-ft, between elevations 753.4 ft (crest of spillway) and 755.6 ft (crest of flashboards). Dead storage below elevation 735.4 ft, 239 acre-ft. Figures given herein represent usable contents. Water is used for municipal supply of city of Columbus and recreational purposes. Capacity table computed from data furnished by city of Columbus.
EXTREMES FOR PERIOD OF RECORD.-- Maximum contents, 7,490 acre-ft Jan. 22, 1959, elevation, 763.91 ft; minimum, 38 acre-ft Jan. 24, 1945, elevation, 735.78 ft.
EXTREMES FOR CURRENT YEAR.--Data not determined because of missing records due to dam repairs.
- 03228400 HOOVER RESERVOIR AT CENTRAL COLLEGE.--Lat 40°06'30", long 82°52'59", in T.2 N., R.17 W., Franklin County, Hydrologic Unit 05060001, in gate house of dam on Big Walnut Creek, 0.5 mi northeast of Central College, and 12 mi northeast of Columbus.
DRAINAGE AREA.--190 mi².
PERIOD OF RECORD.--March 1955 to current year.
REVISED RECORDS.--WRD OH-78-1: 1975 (M).
GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Sept. 10, 1956, nonrecording gage at same site and datum.
REMARKS.--Reservoir formed by earthfill dam with concrete spillway; dam completed in 1954 and storage begun in March 1955. Usable capacity, 60,130 acre-ft between elevations 830.0 ft (lowest outlet) and 890.0 ft (crest of spillway). Additional flood-control storage above elevation 890.0 ft by bascule gates installed in May 1970, 25,750 acre-ft. Dead storage below elevation 830.0 ft, 214 acre-ft. Figures given herein represent usable contents. Reservoir is used for municipal supply of city of Columbus and for recreational purposes. Outflow is controlled mostly by operation of valves in tunnel through dam, but above spillway level bascule gates can be used. Capacity table computed from data furnished by city of Columbus.
EXTREMES FOR PERIOD OF RECORD: Maximum contents, 83,260 acre-ft, Feb. 24, 1975, elevation, 897.26 ft; minimum, 19,010 acre-ft Mar. 1, 1964, elevation, 868.58 ft.
EXTREMES FOR CURRENT YEAR: Data not determined due to missing records.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

Date	03220500 O'SHAUGHNESSY RESERVOIR			03221500 GRIGGS RESERVOIR			03228400 HOOVER RESERVOIR		
	Elevation (feet)	Contents (acre- feet)	Change in contents (acre- feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre- feet)	Elevation (feet)	Contents (acre- feet)	Change in contents (acre- feet)
Sept. 30	848.26	17,320		748.80	2,240		889.28	58,190	
Oct. 31	848.60	17,660	+340	748.72	2,220	-20	888.08	55,000	-3,190
Nov. 30	848.71	17,770	+110	753.80	3,830	+1,610	889.54	58,890	+3,890
Dec. 31	848.70	17,760	-10	753.18	3,620	-210	888.86	57,070	-1,820
Calendar year 1995			+600			-420			+26,290
Jan. 31	848.90	17,960	+200	755.19	4,310	+690	893.94	71,690	+14,620
Feb. 28	850.05	19,150	+1,190	757.02	4,940	+630	893.99	71,850	+160
Mar. 31	848.91	17,970	-1,180	756.85	4,880	-60	893.97	71,790	-60
Apr. 30	850.85	20,030	+2,060	758.18	5,370	+490	894.09	72,190	+400
May. 31	849.33	18,400	-1,630	756.18	4,640	-730	893.66	70,790	-1,400
June 30	848.67	17,730	-670	755.04	4,255	-400	892.95	68,510	-2,280
July 31	848.70	17,760	+30	756.29	4,680	+425	890.73	62,120	-6,390
Aug. 31	847.16	16,290	-1,470	754.80	4,170	-510	887.04	52,290	-9,830
Sept. 30	848.69	17,750	+1,460	756.74	4,820	+650	885.22	47,650	-4,640
Water year 1996			+430			+2,565			-10,540

UPPER TWIN CREEK BASIN

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03237280 UPPER TWIN CREEK AT MCGAW, OH Hydrologic Benchmark Station

LOCATION.--Lat 38°38'37", long 83°12'57", Scioto County, Hydrologic Unit 05090201, on right bank, 0.3 mi downstream from Brown Run, 0.3 mi upstream from Tucker Run, 0.7 mi upstream from bridge on U.S. Highway 52 at McGaw, 2.7 mi northeast of Buena Vista, and 3.2 mi upstream from mouth.
DRAINAGE AREA.--12.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 538.41 ft above sea level (revised). Ohio Department of Highways benchmark. Prior to July 21, 1972, at site 0.7 mi downstream at datum 18.41 ft lower. July 21, 1972, to September 30, 1984, at same site at datum 5.00 ft higher.

REMARKS.--Records poor. Periods of no flow occur most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 3, 1960, reached a stage of 11.62 ft; discharge, 7,230 ft³/s, on basis of contracted-opening and flow-over-road measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	1.1	1.0	e1.5	e8.4	28	526	35	e10	e.27	13	.06
2	.23	1.1	.93	9.8	e6.6	22	107	30	e7.0	e.20	4.7	.04
3	.23	1.1	.84	51	e5.4	16	48	141	e11	.00	2.5	.05
4	.19	.93	.74	20	e4.4	12	32	343	e19	.00	1.6	.03
5	3.2	.82	.66	12	e3.8	13	25	127	e11	.00	1.2	.03
6	3.7	.70	.57	8.4	e3.4	79	21	106	e8.4	.00	.87	.02
7	1.7	.71	.50	e6.0	e3.3	111	17	52	e90	.00	.71	.02
8	1.0	.77	.43	e4.8	e3.2	47	14	118	e52	.00	.56	.02
9	.67	.74	.38	e3.8	35	29	11	73	e35	.00	.51	.02
10	.46	.66	e.25	e3.2	27	22	9.2	39	e14	.00	.44	.02
11	.32	1.1	e.16	e2.8	23	21	7.9	71	e25	.00	.36	.02
12	.26	3.4	e.09	e2.6	17	21	7.1	60	e56	.00	.33	.01
13	.23	3.1	.09	e2.5	14	19	6.6	33	e15	.00	.27	.01
14	.35	3.1	.11	e2.5	14	16	5.9	21	e4.6	.00	.23	.01
15	.71	2.7	.15	21	11	50	11	e850	e13	2.2	.20	.00
16	.88	2.2	.49	19	9.5	47	28	e300	e2.0	.69	.18	.11
17	.79	1.7	1.1	125	e6.0	31	27	e80	e2.5	.12	.13	5.1
18	.66	1.4	51	90	e5.6	23	22	e20	e3.0	.02	.10	2.0
19	.52	1.2	123	164	e5.2	56	21	e14	e2.3	3.9	.08	1.2
20	.49	.99	36	36	33	100	25	e10	e2.1	6.5	.06	.72
21	.45	.84	15	20	31	56	25	e6.6	e3.0	1.4	.08	.36
22	.45	.80	8.8	14	33	42	21	e4.0	e4.5	.66	.08	.20
23	.39	.99	5.8	110	35	47	47	e6.0	e7.6	.17	e.06	.13
24	.38	2.6	4.2	427	26	63	46	e13	e4.0	.05	.11	.09
25	.36	2.3	3.3	60	20	53	34	e23	e4.2	.01	.19	.06
26	.28	2.1	e1.7	35	33	33	30	e12	e2.2	.00	.50	.05
27	.39	1.9	e1.5	77	53	25	22	e120	e1.3	.00	.42	.07
28	1.1	1.7	e1.2	41	115	25	18	e80	e.90	.00	.29	.35
29	2.5	1.4	e.98	29	42	53	18	e50	e.60	.00	.19	1.9
30	1.8	1.2	e.90	20	---	44	35	e30	e.42	.12	.11	1.1
31	1.4	---	e.88	15	---	33	---	e17	---	137	.08	---
TOTAL	26.31	45.35	262.75	1433.9	626.8	1237	1267.7	2884.6	411.62	153.31	30.14	13.80
MEAN	.85	1.51	8.48	46.3	21.6	39.9	42.3	93.1	13.7	4.95	.97	.46
MAX	3.7	3.4	123	427	115	111	526	850	90	137	13	5.1
MIN	.19	.66	.09	1.5	3.2	12	5.9	4.0	.42	.00	.06	.00
CFSM	.07	.12	.69	3.79	1.77	3.27	3.46	7.63	1.12	.41	.08	.04
IN.	.08	.14	.80	4.37	1.91	3.77	3.87	8.80	1.26	.47	.09	.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1996, BY WATER YEAR (WY)

MEAN	2.51	6.29	16.7	17.6	23.6	30.0	29.6	21.5	6.58	3.87	3.30	3.13
MAX	16.8	29.0	81.6	46.3	60.9	90.7	66.7	93.1	35.3	30.8	38.0	32.5
(WY)	1990	1986	1979	1996	1975	1964	1965	1996	1979	1986	1979	1979
MIN	.000	.000	.000	.44	4.42	4.39	4.41	1.63	.043	.071	.009	.010
(WY)	1964	1964	1964	1981	1978	1969	1971	1991	1988	1964	1993	1983

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1963 - 1996

ANNUAL TOTAL	3703.23	8393.28	
ANNUAL MEAN	10.1	22.9	13.7
HIGHEST ANNUAL MEAN			31.9
LOWEST ANNUAL MEAN			5.15
HIGHEST DAILY MEAN	246	850	850
LOWEST DAILY MEAN	.01 Sep 9	.00 Jul 3	.00 Jul 3
ANNUAL SEVEN-DAY MINIMUM	.01 Sep 8	.00 Jul 3	.00 Sep 21
INSTANTANEOUS PEAK FLOW		3250	3500
INSTANTANEOUS PEAK STAGE		8.83	10.20
INSTANTANEOUS LOW FLOW		.00	.00
ANNUAL RUNOFF (CFSM)	.83	1.88	1.12
ANNUAL RUNOFF (INCHES)	11.29	25.59	15.25
10 PERCENT EXCEEDS	28	52	31
50 PERCENT EXCEEDS	1.2	3.1	3.1
90 PERCENT EXCEEDS	.09	.06	.08

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

UPPER TWIN CREEK BASIN

03237280 UPPER TWIN CREEK AT MCGAW, OH--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

		DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	TUR- BID- ITY (NTU) (00076)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
NOV 27...	1130	1.8	118	5.5	17.0	7.5	0.40	11.1	96	23	75
FEB 21...	1100	32	70	6.8	9.5	4.0	2.3	12.5	98	K11	113
DATE	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR- BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA- LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
NOV 27...	42	7.1	5.8	3.2	1.8	23	0	18	25	2.7	<0.10
FEB 21...	26	4.2	3.8	2.1	1.5	16	0	14	19	1.5	<0.10
DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L AS N) (70300)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)
NOV 27...	8.3	67	--	--	--	--	--	--	<10	18	<3
FEB 21...	9.1	54	0.470	0.020	<0.20	<0.010	<0.010	<0.010	20	15	<3
DATE	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	SEDI- MENT, SUS- PENDE (MG/L) (80154)	
NOV 27...	22	<4	<1	<10	<1	<1	<1.0	50	<6	5	
FEB 21...	29	<4	1	<10	<1	<1	<1.0	31	<6	3	

K Results based on colony count outside the ideal range

OHIO BRUSH CREEK BASIN

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03237500 OHIO BRUSH CREEK NEAR WEST UNION, OH

LOCATION.--Lat 38°48'13", long 83°25'16", Adams County, Hydrologic Unit 05090201, on right bank at downstream side of bridge on State Highway 348, 0.3 mi downstream from Cedar Run, 7.0 mi east of West Union, and 7.1 mi upstream from Beasley Fork.

DRAINAGE AREA.--387 mi².

PERIOD OF RECORD.--August 1926 to November 1935, September 1940 to current year.

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 510.6 ft above sea level. Prior to Nov. 22, 1940, nonrecording gage at same site and datum.

REMARKS.--Records fair, except for periods of estimated records, which are poor. Water-quality and sediment data collected at this site.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	55	13	e37	221	628	7150	1250	414	70	150	9.4
2	13	59	11	227	e170	467	2970	832	327	97	71	6.4
3	13	57	11	1940	e150	366	1180	1250	387	81	41	5.5
4	14	58	14	501	e120	276	743	5820	907	60	28	5.3
5	26	61	16	275	e90	270	562	6470	616	49	22	4.7
6	198	62	19	189	e78	1920	445	1630	388	41	17	4.6
7	106	72	21	e150	e80	1410	376	973	4410	36	14	4.6
8	62	73	21	e130	258	761	312	1750	2490	36	12	4.4
9	33	70	21	e110	1560	e400	273	1690	1670	34	86	4.1
10	22	71	20	e100	617	e340	240	e791	1260	47	90	4.1
11	17	87	18	e90	577	e300	213	e2410	657	40	38	4.1
12	15	244	e16	e84	392	e270	194	e2060	e2680	31	30	3.7
13	15	153	e15	e78	250	e260	180	e820	761	26	89	4.1
14	22	101	e15	e76	e180	e250	182	e1500	220	28	55	4.1
15	27	95	e14	e72	e160	1510	278	e3500	652	56	28	3.8
16	28	73	e20	e150	e140	1250	992	e10000	163	59	19	4.9
17	27	54	160	4160	e120	644	577	e4000	192	48	14	9.9
18	26	43	1430	2000	e100	494	359	e900	250	34	11	19
19	26	38	4140	6390	e94	2230	293	e580	189	83	8.4	44
20	27	39	1770	999	1650	4710	522	e370	163	200	7.0	26
21	28	40	446	490	1240	2130	654	e270	250	77	6.4	16
22	28	33	243	310	675	1420	371	e200	277	172	6.3	12
23	29	28	167	2730	526	1260	1720	e250	616	154	5.5	8.3
24	31	23	e120	14100	410	1070	1710	e600	335	79	5.3	6.7
25	32	19	e90	1910	291	795	711	1180	347	48	5.2	5.7
26	32	18	e70	842	1010	613	485	556	194	35	4.6	5.5
27	36	17	e54	2900	2050	441	376	5720	131	28	13	5.3
28	46	15	e46	1080	3810	383	287	5610	105	22	232	2710
29	50	14	e42	583	1100	826	1840	4240	89	20	85	794
30	54	13	e39	428	---	650	3280	1260	77	70	29	240
31	54	---	e38	314	---	485	---	633	---	87	15	---
TOTAL	1150	1785	9120	43445	18119	28829	29475	69115	21217	1948	1237.7	3980.2
MEAN	37.1	59.5	294	1401	625	930	982	2230	707	62.8	39.9	133
MAX	198	244	4140	14100	3810	4710	7150	10000	4410	200	232	2710
MIN	13	13	11	37	78	250	180	200	77	20	4.6	3.7
CFSM	.10	.15	.76	3.62	1.61	2.40	2.54	5.76	1.83	.16	.10	.34
IN.	.11	.17	.88	4.18	1.74	2.77	2.83	6.64	2.04	.19	.12	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 1996, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)
1927	98.3	263	531	746	823
1928	651	1447	2252	2637	1989
1929	1976	1986	1991	1950	1951
1930	.13	.28	2.28	12.1	24.9
1931	1954	1954	1954	1977	1954
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SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1927 - 1996
ANNUAL TOTAL	158076.4	229420.9	
ANNUAL MEAN	433	627	454
HIGHEST ANNUAL MEAN			951
LOWEST ANNUAL MEAN			158
HIGHEST DAILY MEAN	9000	14100	40500
LOWEST DAILY MEAN	1.4	3.7	.00
ANNUAL SEVEN-DAY MINIMUM	1.5	4.0	.00
INSTANTANEOUS PEAK FLOW		21300	59200
INSTANTANEOUS PEAK STAGE		19.39	27.91
INSTANTANEOUS LOW FLOW		3.7	.00
ANNUAL RUNOFF (CFSM)	1.12	1.62	1.17
ANNUAL RUNOFF (INCHES)	15.19	22.05	15.94
10 PERCENT EXCEEDS	1070	1710	1000
50 PERCENT EXCEEDS	72	120	108
90 PERCENT EXCEEDS	9.0	13	5.2

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

WHITEOAK CREEK BASIN

03238500 WHITEOAK CREEK NEAR GEORGETOWN, OH

LOCATION.--Lat 38°51'29", long 83°55'43", Brown County, Hydrologic Unit 05090201, on left bank 150 ft upstream from diversion dam for Georgetown water treatment plant, 0.7 mi upstream from Town Run, 1.4 mi southwest of Georgetown, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--218 mi².

PERIOD OF RECORD.--October 1923 to November 1935, October 1939 to current year.

REVISED RECORDS.--WSP 728: 1924-31. WSP 758: 1933. WSP 1908: Drainage area. WRD OH-74-1: 1973 (P)

GAGE.--Water-stage recorder. Datum of gage is 604.20 ft above sea level. Prior to Oct. 12, 1972, nonrecording gage at a site 1.0 mi downstream at datum 35.24 ft lower. See WSP 2108 for history of changes prior to Dec. 8, 1940.

REMARKS.--Records good, except for periods of estimated record and those below 30 ft³/s, which are poor. Water-quality and sediment data collected at this site. Satellite telemeter at this station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	23	16	e11	e40	185	7570	812	113	43	56	17
2	6.6	24	16	346	e31	132	3000	451	88	106	24	17
3	6.1	29	16	1700	e26	113	471	599	97	53	14	25
4	8.8	20	16	314	e24	82	264	3150	847	39	9.4	22
5	108	21	16	e130	e21	79	216	3320	310	31	8.1	6.8
6	1760	21	14	e70	e19	2250	189	498	153	25	6.8	.22
7	154	23	13	e42	e18	716	148	262	4330	19	6.0	.00
8	59	23	e8.0	e30	e60	242	126	325	1270	15	6.0	.00
9	35	21	e5.6	e26	916	e140	110	993	4110	8.6	11	.00
10	23	21	e4.5	e23	341	e110	98	304	811	14	69	.00
11	16	29	e4.0	e22	261	e100	86	3430	880	7.9	30	.00
12	13	277	e3.6	e21	182	e88	79	2000	3130	8.3	22	.00
13	13	116	e3.4	e20	104	e78	72	294	625	7.5	19	.00
14	13	70	e3.3	e20	e58	e70	71	163	437	5.9	6.1	.00
15	11	65	e10	e19	e45	1360	82	4130	580	6.8	14	.00
16	10	50	35	e80	e38	747	230	13000	154	5.2	7.2	.00
17	9.5	38	144	4410	e33	242	228	1200	96	4.5	5.8	6.4
18	9.5	35	1070	2010	e29	192	153	310	255	4.6	9.6	11
19	9.5	e32	4080	5620	e26	2410	121	188	636	6.0	8.1	20
20	11	e28	2320	489	1100	4940	167	125	253	65	7.1	15
21	13	e27	271	e150	970	1360	305	94	115	21	5.6	8.6
22	13	e25	e100	e96	382	1060	160	71	80	5.7	12	9.1
23	13	e24	e64	1970	249	766	3320	50	248	9.2	3.6	7.4
24	13	23	e35	9070	188	491	2010	46	175	8.3	6.1	6.1
25	14	23	e28	1430	131	288	343	584	84	5.6	1.6	5.5
26	16	23	e22	331	350	227	212	227	45	1.4	.00	5.1
27	18	21	e18	1730	1060	146	163	4560	33	.06	.00	5.6
28	23	19	e16	469	3450	119	123	5110	30	.44	.00	4840
29	22	17	e15	202	444	165	5320	4050	34	7.2	.33	1270
30	21	16	e13	148	---	190	6630	508	38	4.4	30	137
31	23	---	e12	108	---	147	---	186	---	61	21	---
TOTAL	2472.0	1184	8392.4	31107	10596	19235	32067	51040	20057	599.60	419.43	6434.82
MEAN	79.7	39.5	271	1003	365	620	1069	1646	669	19.3	13.5	214
MAX	1760	277	4080	9070	3450	4940	7570	13000	4330	106	69	4840
MIN	6.1	16	3.3	11	18	70	71	46	30	.06	.00	.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 1996, BY WATER YEAR (WY)

MEAN	63.6	164	294	438	487	553	439	293	148	96.8	89.1	82.3
MAX	580	1103	1427	1487	1281	1822	1133	1646	669	598	531	1220
(WY)	1984	1986	1991	1950	1955	1963	1973	1996	1996	1980	1926	1979
MIN	.071	.17	1.64	1.67	12.2	41.5	31.6	10.9	4.55	1.02	1.28	.17
(WY)	1941	1931	1964	1977	1934	1941	1971	1934	1988	1930	1993	1985

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1925 - 1996

ANNUAL TOTAL	96232.9	183604.25	
ANNUAL MEAN	264	502	261
HIGHEST ANNUAL MEAN			583
LOWEST ANNUAL MEAN			82.4
HIGHEST DAILY MEAN	7080	13000	19400
LOWEST DAILY MEAN	2.2	.00	.00
ANNUAL SEVEN-DAY MINIMUM	2.4	.00	.00
INSTANTANEOUS PEAK FLOW		14800	22400
INSTANTANEOUS PEAK STAGE		8.66	20.87
INSTANTANEOUS LOW FLOW		.00	.00
10 PERCENT EXCEEDS	537	1300	536
50 PERCENT EXCEEDS	34	42	43
90 PERCENT EXCEEDS	5.9	5.8	2.5

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

03240000 LITTLE MIAMI RIVER NEAR OLDTOWN, OH

LOCATION.--Lat 39°44'54", long 83°55'53", in sec. 34, R.7, T.4, Greene County, Hydrologic Unit 05090202, on right bank at downstream side of bridge on U.S. Highway 68, 0.8 mi downstream from Conner Branch, 0.9 mi upstream from Massies Creek, 1.3 mi northeast of Oldtown, and at mile 82.25.

DRAINAGE AREA.--129 mi².

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.56 ft above sea level.

REMARKS.--Records good except for periods of estimated daily discharges, which are fair. Water-quality and sediment data collected at this site.

REVISIONS.--The peak discharge and annual maximum (*) for water years 1991, 1993, and 1994 have been revised to 1,880 ft³/s, Dec. 19, 1990, gage height, 7.38 ft.; *1,620 ft³/s, Mar. 5, 1993, gage height, *6.87 ft.; and *2,320 ft³/s, Jan. 28, 1994, gage height, *8.14 ft. These revisions supersede figures published in reports for 1991, 1993, and 1994.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	40	49	75	e170	215	368	1030	283	111	133	31
2	22	46	48	147	e160	e160	499	601	264	107	104	30
3	27	55	47	e120	e150	e130	348	447	500	103	91	29
4	37	55	46	e88	e140	e120	281	831	982	99	81	29
5	130	50	45	e70	e135	e120	302	1210	562	95	74	28
6	303	47	44	e56	e130	391	258	1050	378	91	70	28
7	153	60	43	e53	e120	388	238	564	809	89	67	27
8	102	73	41	e50	e120	240	214	937	1390	157	64	27
9	80	64	e38	e48	177	186	192	1730	665	137	73	31
10	68	58	e37	e46	152	153	174	789	725	107	63	30
11	60	141	e36	e45	162	e140	161	1290	493	93	59	27
12	55	232	e35	e43	138	e130	152	1160	388	88	57	26
13	53	141	e34	e42	116	e125	147	528	313	85	56	25
14	55	111	e33	e41	120	e120	139	393	275	81	54	25
15	52	94	e32	e40	109	271	146	442	295	101	52	24
16	49	83	e31	e40	100	285	168	649	247	88	51	30
17	47	75	e30	482	95	214	154	551	216	80	48	44
18	46	74	e45	959	93	178	143	406	205	181	47	36
19	44	71	e150	2020	90	280	143	325	208	199	44	29
20	45	68	e170	733	108	791	291	279	189	133	42	26
21	46	67	e140	369	158	479	289	269	173	105	42	27
22	45	64	e94	284	150	374	212	249	162	107	41	33
23	43	61	e80	384	156	314	669	222	152	97	42	29
24	42	58	e66	1060	178	347	1040	231	150	90	49	27
25	40	54	e62	604	163	318	466	217	152	231	47	26
26	40	55	e58	377	162	241	357	205	136	150	40	26
27	43	55	e54	417	275	198	274	362	129	110	37	40
28	44	54	e52	325	518	184	242	457	124	95	36	167
29	44	50	e50	256	317	218	2370	1270	120	90	35	120
30	41	48	e48	216	---	201	2950	701	115	97	34	70
31	40	---	e47	184	---	185	---	362	---	206	32	---
TOTAL	1918	2204	1785	9674	4662	7696	13387	19757	10800	3603	1765	1147
MEAN	61.9	73.5	57.6	312	161	248	446	637	360	116	56.9	38.2
MAX	303	232	170	2020	518	791	2950	1730	1390	231	133	167
MIN	22	40	30	40	90	120	139	205	115	80	32	24
CFSM	.48	.57	.45	2.42	1.25	1.92	3.46	4.94	2.79	.90	.44	.30
IN.	.55	.64	.51	2.79	1.34	2.22	3.86	5.70	3.11	1.04	.51	.33

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

	MEAN	35.7	71.6	110	142	183	215	200	173	126	88.3	64.7	38.4
	MAX	163	315	513	497	485	655	446	637	469	406	413	378
	(WY)	1991	1986	1991	1959	1975	1963	1996	1996	1981	1990	1980	1979
	MIN	9.46	11.0	11.3	10.4	20.9	35.1	54.9	35.2	22.1	10.6	11.3	9.09
	(WY)	1954	1954	1954	1977	1954	1954	1971	1954	1988	1954	1955	1964

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1952 - 1996

ANNUAL TOTAL	43091	78398	
ANNUAL MEAN	118	214	121
HIGHEST ANNUAL MEAN			228
LOWEST ANNUAL MEAN			28.6
HIGHEST DAILY MEAN	1430	May 19	6140
LOWEST DAILY MEAN	20	Jan 10	3.5
ANNUAL SEVEN-DAY MINIMUM	22	Jan 4	7.4
INSTANTANEOUS PEAK FLOW			4260
INSTANTANEOUS PEAK STAGE			9.57
INSTANTANEOUS LOW FLOW			22
ANNUAL RUNOFF (CFSM)	.92	1.66	1.93
ANNUAL RUNOFF (INCHES)	12.43	22.61	12.69
10 PERCENT EXCEEDS	249	485	257
50 PERCENT EXCEEDS	75	111	62
90 PERCENT EXCEEDS	32	36	17

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

LITTLE MIAMI RIVER BASIN

03241500 MASSIES CREEK AT WILBERFORCE, OH

LOCATION.--Lat 39°43'22", long 83°52'58", Greene County, Hydrologic Unit 05090202, on left bank at bridge on Wilberforce-Clifton Road, 0.5 mi northwest of Wilberforce, 0.6 mi downstream from unnamed right bank tributary, and 1.7 mi upstream from Clark Run.

DRAINAGE AREA.--63.2 mi².

PERIOD OF RECORD.--September 1952 to current year. Prior to October 1962, published as Massie Creek at Wilberforce. REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 865.15 ft above sea level. Aug. 4, 1972, to Sept. 30, 1979, at site 150 ft downstream at same datum.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Water-quality and sediment data collected at this site. Satellite telemeter at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.8	e16	e19	e35	e86	e90	343	562	151	41	38	7.8
2	e8.8	e19	e19	e52	e76	e56	376	330	141	40	31	7.5
3	e11	e22	e19	e44	e70	e45	226	247	174	38	28	7.4
4	e17	e21	e18	e35	e68	e40	181	564	467	36	25	7.4
5	e50	e20	e17	e30	e66	e40	212	735	362	33	23	7.1
6	e120	e19	e17	e24	e66	197	165	591	215	33	21	6.6
7	e78	e25	e16	e22	e66	237	133	312	360	32	19	6.4
8	e40	e28	e16	e20	e66	e80	111	552	476	37	21	5.9
9	e30	e24	e15	e19	97	e68	95	563	267	34	37	8.2
10	e26	e30	e15	e18	78	e58	83	332	393	30	24	7.3
11	e23	e60	e14	e17	89	e54	76	640	264	27	20	6.3
12	e22	e92	e14	e17	68	e50	72	551	206	27	17	5.7
13	e21	e60	e14	e16	58	e49	67	260	153	27	15	5.4
14	e22	e43	e13	e16	55	e48	60	197	125	26	13	5.4
15	e21	e36	e13	e15	47	150	63	228	115	31	12	5.2
16	e20	e33	e12	e15	e39	161	73	274	92	27	11	8.2
17	e19	e30	e14	e200	e33	112	66	217	79	25	11	11
18	e18	e29	e21	e450	e32	86	61	175	76	31	10	8.0
19	e18	e28	e40	e850	e30	195	65	142	162	30	9.7	6.7
20	e18	e27	e68	e315	e40	533	200	118	110	25	8.8	6.1
21	e18	e26	e54	e150	91	308	186	103	84	23	8.7	6.4
22	e18	e25	e40	e170	90	236	121	90	72	30	8.6	11
23	e17	e23	e31	301	100	203	544	82	63	29	9.6	8.1
24	e16	e23	e27	726	104	234	674	80	57	28	25	6.6
25	e16	e22	e25	405	85	208	301	75	59	66	25	6.0
26	e16	e22	e23	238	87	136	213	72	49	55	14	7.1
27	e17	e22	e22	295	194	102	153	129	44	38	9.9	18
28	e18	e21	e21	201	309	93	132	225	44	31	9.2	109
29	e17	e20	e20	149	180	116	1310	686	44	29	9.0	72
30	e16	e19	e20	116	---	124	1250	556	43	36	8.2	38
31	e16	---	e20	90	---	108	---	224	---	50	7.8	---
TOTAL	776.6	885	697	5051	2470	4217	7612	9912	4947	1045	529.5	421.8
MEAN	25.1	29.5	22.5	163	85.2	136	254	320	165	33.7	17.1	14.1
MAX	120	92	68	850	309	533	1310	735	476	66	38	109
MIN	8.8	16	12	15	30	40	60	72	43	23	7.8	5.2
CFSM	.40	.47	.36	2.58	1.35	2.15	4.01	5.06	2.61	.53	.27	.22
IN.	.46	.52	.41	2.97	1.45	2.48	4.48	5.83	2.91	.62	.31	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 1996, BY WATER YEAR (WY)

	MEAN	15.6	42.0	63.9	79.3	102	120	109	93.9	61.1	41.0	28.1	15.1
MAX	99.7	248	290	273	236	372	254	335	253	199	196	186	
(WY)	1991	1986	1991	1959	1975	1963	1996	1968	1981	1990	1958	1979	
MIN	1.55	1.95	2.35	4.59	6.41	13.1	19.8	12.8	6.90	1.75	1.49	1.05	
(WY)	1954	1954	1954	1977	1954	1954	1971	1954	1988	1954	1953	1953	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1952 - 1996

ANNUAL TOTAL	21299.6	38563.9	
ANNUAL MEAN	58.4	105	64.1
HIGHEST ANNUAL MEAN			113
LOWEST ANNUAL MEAN			8.68
HIGHEST DAILY MEAN	725	1310	3620
LOWEST DAILY MEAN	7.6	5.2	.30
ANNUAL SEVEN-DAY MINIMUM	8.7	6.2	.33
INSTANTANEOUS PEAK FLOW		1730	7300
INSTANTANEOUS PEAK STAGE		8.15	11.25
INSTANTANEOUS LOW FLOW		5.2	.30
ANNUAL RUNOFF (CFSM)	.92	1.67	1.01
ANNUAL RUNOFF (INCHES)	12.54	22.70	13.78
10 PERCENT EXCEEDS	126	269	146
50 PERCENT EXCEEDS	32	39	28
90 PERCENT EXCEEDS	15	10	4.7

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

LITTLE MIAMI RIVER BASIN

145

03245500 LITTLE MIAMI RIVER AT MILFORD, OH

LOCATION.--Lat 39°10'17", long 84°17'53", Clermont County, Hydrologic Unit 05090202, on right bank 500 ft downstream from Wooster Pike Bridge on U.S. Highway 50 in Milford, 1.2 mi upstream from East Fork, 6.4 mi downstream from North Branch Creek, and at mile 12.9.

DRAINAGE AREA.--1,203 mi².

PERIOD OF RECORD.--July 1915 to September 1917, October 1917 to May 1920 (gage heights only), March 1925 to September 1936, October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305, published as "at Miamiville" 1915-20.

REVISED RECORDS.--WSP 728: 1931. WSP 743: 1932. WSP 873: 1925-36. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 494.35 ft above sea level. June 22, 1915, to May 14, 1920, nonrecording gage at site 4 mi upstream at different datum. Mar. 11, 1925, to Aug. 16, 1928, nonrecording gage at bridge 500 ft upstream at datum 5.72 ft higher. Aug. 17, 1928, to Sept. 30, 1977, water-stage recorder at same site at datum 5.00 ft higher.

REMARKS.--Records good, except for periods of estimated discharge, which are fair. Some regulation since 1948 by Cowan Lake, capacity 12,000 acre-ft, 45 mi upstream on Cowan Creek, tributary to Todd Fork, and Caesar Creek Lake capacity 242,200 acre-ft 41.3 mi upstream on Caesar Creek. U.S. Army Corps of Engineers satellite telemeter at station. Water-quality and sediment data collected at this site.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 30.5 ft, present datum, from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	191	368	341	e500	2660	2970	12900	10100	2160	712	764	226
2	190	454	340	2340	2550	2320	7220	6460	2110	614	582	221
3	243	540	349	2480	1590	1300	4510	5590	2710	575	493	219
4	311	517	362	1380	e740	964	3610	18000	4570	549	455	216
5	2050	408	339	1130	e580	919	3350	11600	4950	528	418	212
6	4330	356	325	907	e540	5320	2780	7540	4180	512	389	211
7	3060	443	309	677	e520	4710	2360	6630	11300	506	372	205
8	964	449	276	e500	e600	3680	1710	9650	9030	1580	394	200
9	594	430	260	e480	1670	2560	1230	8140	12700	752	999	434
10	792	419	e150	e460	1320	1450	1080	7090	6800	608	488	238
11	750	1470	e140	e430	1690	1000	960	26400	5230	519	383	237
12	535	2800	e130	e410	1510	973	870	8810	5250	478	351	216
13	419	1760	e130	e440	896	963	822	7060	3680	455	327	207
14	430	1330	e120	e480	728	978	951	5350	2230	447	312	202
15	370	906	e120	e560	696	3360	1090	11900	2520	630	302	196
16	344	818	e140	e760	699	3480	1880	12800	2410	646	330	492
17	316	677	e250	9700	651	2930	1560	4590	1570	494	296	594
18	297	748	2680	8880	622	1650	1060	4310	2250	617	284	452
19	280	740	7880	14700	631	7950	1270	3670	3410	961	269	292
20	285	622	4750	6850	1030	10800	4430	3470	5500	711	258	248
21	282	544	3300	5450	1570	6800	3220	4200	3510	565	261	240
22	290	513	2750	2380	1380	5630	1890	4170	2660	645	260	365
23	286	495	1760	5690	1400	5860	8350	4500	1310	627	262	342
24	289	469	1180	13700	2040	4520	7840	4430	1060	513	542	259
25	326	459	e860	6800	1490	4240	6500	3240	974	496	606	221
26	338	442	e680	4940	1400	3190	4100	3030	1030	622	358	218
27	379	391	e560	5150	2080	2020	3910	8400	926	574	298	688
28	378	385	e440	4770	6310	1640	2910	7490	877	490	278	4810
29	410	373	e350	4450	3900	1980	26400	7130	758	515	272	2030
30	379	354	e300	4190	---	2370	20300	6140	731	1320	249	962
31	368	---	e290	3800	---	2050	---	3520	---	873	237	---
TOTAL	20476	20680	31861	115384	43493	100577	141063	235410	108396	20134	12089	15653
MEAN	661	689	1028	3722	1500	3244	4702	7594	3613	649	390	522
MAX	4330	2800	7880	14700	6310	10800	26400	26400	12700	1580	999	4810
MIN	190	354	120	410	520	919	822	3030	731	447	237	196
CFSM	.55	.57	.85	3.09	1.25	2.70	3.91	6.31	3.00	.54	.32	.43
IN.	.63	.64	.99	3.57	1.34	3.11	4.36	7.28	3.35	.62	.37	.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 1996, BY WATER YEAR (WY)

	MEAN	353	804	1292	1905	2113	2445	2135	1668	985	702	477	364
MAX	2775	4189	5494	7131	4951	8212	5396	7594	4686	3542	3014	3711	
(WY)	1927	1986	1991	1949	1950	1945	1940	1996	1973	1958	1926	1979	
MIN	47.0	60.2	73.4	88.6	145	218	369	138	117	78.0	77.6	43.0	
(WY)	1954	1954	1935	1977	1954	1941	1941	1934	1925	1930	1930	1953	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1916 - 1996	
ANNUAL TOTAL	475351		865216		1271	
ANNUAL MEAN	1302		2364		2364	
HIGHEST ANNUAL MEAN					301	
LOWEST ANNUAL MEAN					301	
HIGHEST DAILY MEAN	20600	May 18	26400	Apr 29	72400	Jan 22 1959
LOWEST DAILY MEAN	120	Dec 14	120	Dec 14	27	Sep 18 1954
ANNUAL SEVEN-DAY MINIMUM	133	Dec 10	133	Dec 10	37	Sep 12 1964
INSTANTANEOUS PEAK FLOW			39900	May 11 a	84100	Jan 22 1959
INSTANTANEOUS PEAK STAGE			19.38	May 11	27.30	Jan 22 1959
INSTANTANEOUS LOW FLOW			120	Dec 14	27	Sep 18 1954
ANNUAL RUNOFF (CFSM)	1.08		1.97		1.06	
ANNUAL RUNOFF (INCHES)	14.70		26.75		14.36	
10 PERCENT EXCEEDS	3270		6540		2990	
50 PERCENT EXCEEDS	594		820		492	
90 PERCENT EXCEEDS	236		262		112	

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

LITTLE MIAMI RIVER BASIN

03247500 EAST FORK LITTLE MIAMI RIVER AT PERINTOWN, OH

LOCATION.---Lat 39°08'14", long 84°14'17", Clermont County, Hydrologic Unit 05090202, on right bank at upstream wingwall of highway bridge at Perintown, 0.2 mi downstream from Sugarcamp Run, 5 mi upstream from mouth, and at mile 6.4.

DRAINAGE AREA.---476 mi².

PERIOD OF RECORD.---May 1915 to September 1917, October 1917 to May 1920 (gage heights only), January 1925 to current year.

GAGE.---Water-stage recorder. Datum of gage is 507.03 ft above sea level. Prior to Feb. 6, 1940, nonrecording gage at same site and datum.

REMARKS.---Records fair. Occasional regulation by Stonelick Lake 14 mi upstream. Surface area at spillway level, 171 acres. Flow regulated by William H. Harsha Reservoir, formerly East Fork Lake, since 1977. Water-quality data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

EXTREMES FOR PERIOD OF RECORD.---Maximum discharge, 42,400 ft³/s Mar. 10, 1964, gage height, 23.84 ft; minimum daily, 0.4 ft³/s July 24, 1930, Sept. 11, 12, 23, 1939; minimum gage height, -0.18 ft Oct. 3-7, 1917. Maximum discharge since start of construction of East Fork Dam, 23,200 ft³/s Aug. 30, 1974, gage height, 19.52 ft, result of failure of cofferdam.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	84	52	148	3980	1870	5160	3430	3820	191	56	43
2	35	101	43	632	3940	1820	3490	3810	2980	155	54	42
3	52	104	41	692	3460	1450	3950	3430	3140	151	54	42
4	66	91	41	643	2310	630	3830	4300	3070	141	52	42
5	1130	87	40	840	1650	432	e2500	2220	1660	95	51	42
6	653	85	40	792	858	1270	e1000	3430	1590	73	50	43
7	437	97	40	757	381	1050	e400	3510	4910	72	51	43
8	384	97	39	672	373	1610	e220	3040	4490	81	79	42
9	366	89	39	460	640	1610	e160	2930	4320	70	126	49
10	418	87	37	304	543	1070	e135	3690	2790	65	57	48
11	565	368	38	239	548	447	112	4970	4030	63	51	44
12	562	288	38	252	570	453	104	3190	4130	64	51	51
13	415	337	39	149	537	443	106	3940	4040	62	49	42
14	89	410	42	194	503	435	129	3840	3660	62	48	43
15	84	380	46	405	375	1260	164	9750	1930	84	47	42
16	84	330	198	743	180	728	225	3910	362	66	48	186
17	82	212	104	3440	171	680	180	1230	303	62	46	129
18	82	221	1670	2740	193	617	136	1940	312	64	46	74
19	83	217	3390	3000	139	3790	164	1860	320	121	45	64
20	84	135	2080	2320	687	3190	787	2300	371	87	44	57
21	84	129	3290	2240	747	3760	302	2960	467	69	45	62
22	83	127	2910	343	799	4230	240	4090	456	88	45	78
23	67	126	2270	2600	941	4100	2720	4090	456	68	45	65
24	66	120	1960	3600	906	3530	2540	4060	396	62	51	89
25	65	102	1530	639	815	2680	3020	4140	209	80	46	128
26	64	101	409	747	627	1970	2700	3870	128	65	44	138
27	71	102	397	2420	1230	1080	1650	5620	142	59	45	163
28	75	101	338	3070	2310	538	1020	1940	140	55	44	777
29	72	83	198	3630	1720	560	7810	3580	137	56	44	864
30	81	80	175	4120	---	492	3830	4190	120	65	43	1390
31	84	---	93	4050	---	1170	---	4100	---	60	43	---
TOTAL	6518	4891	21627	46881	32133	48965	48784	113360	54879	2556	1600	4922
MEAN	210	163	698	1512	1108	1580	1626	3657	1829	82.5	51.6	164
MAX	1130	410	3390	4120	3980	4230	7810	9750	4910	191	126	1390
MIN	35	80	37	148	139	432	104	1230	120	55	43	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 1996, BY WATER YEAR (WY)

	MEAN	258	427	707	787	1013	1067	944	1005	416	250	198	223
MAX	980	1446	2108	1637	2162	1623	1738	3657	1829	947	1220	1869	
(WY)	1984	1986	1991	1991	1990	1979	1989	1996	1996	1980	1979	1979	
MIN	18.5	49.3	54.1	15.3	168	138	73.5	48.4	35.6	32.4	38.6	30.1	
(WY)	1983	1988	1977	1977	1987	1983	1986	1988	1988	1984	1987	1983	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1977 - 1996

ANNUAL TOTAL	226693	387116	
ANNUAL MEAN	621	1058	606
HIGHEST ANNUAL MEAN			1058
LOWEST ANNUAL MEAN			266
HIGHEST DAILY MEAN	4630	May 14	10800
LOWEST DAILY MEAN	35	Sep 12	14
ANNUAL SEVEN-DAY MINIMUM	36	Sep 26	14
INSTANTANEOUS PEAK FLOW		19500	29000
INSTANTANEOUS PEAK STAGE		17.95	21.00
INSTANTANEOUS LOW FLOW		35	14
10 PERCENT EXCEEDS	2140	3670	2030
50 PERCENT EXCEEDS	166	270	158
90 PERCENT EXCEEDS	40	45	37

MILL CREEK BASIN

147

03259000 MILL CREEK AT CARTHAGE, OH

LOCATION.--Lat 39°12'07", long 84°28'16", in SW 1/4 sec. 1, R.1, T.3, Hamilton County, Hydrologic Unit 05090203, on right bank at Anthony Wayne Avenue Bridge in Carthage, 1.0 mi downstream from West Fork Mill Creek, and 11.0 mi upstream from mouth.

DRAINAGE AREA.--115 mi².

PERIOD OF RECORD.--November 1946 to current year.

REVISED RECORDS.--WDR-OH-95-1: 1993 (M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 507.00 ft above Ohio River datum. Prior to Oct. 1, 1954, at same site at datum 512.00 ft above Ohio River Datum. Oct. 1, 1954, to Sept. 30, 1977, at site 100 ft downstream at datum 512.00 ft above Ohio River Datum. Oct. 1, 1977, to Oct. 16, 1984, at site 100 ft upstream at present datum.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Some interbasin transfers of water between Mill Creek and Great Miami River basins by industrial and municipal operations. Flow regulated by West Fork Mill Creek Reservoir, 6.9 mi upstream, beginning 1953. Water-quality data collected at this site. Because of interbasin transfers and regulation, statistics are not published.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,030 ft³/s Sept. 14, 1979, gage height, 21.82 ft present datum, from rating curve extended above 4,000 ft³/s on basis of slope-area measurement of peak flow; no flow many days in 1947-48.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,240 ft³/s May 15, gage height, 17.28 ft; minimum daily, 16.0 ft³/s Dec. 12.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	e32	e28	173	e48	106	1720	757	103	106	80	25
2	22	e130	e27	251	e38	99	734	928	166	65	61	24
3	73	e90	e27	168	e36	74	584	707	235	46	46	28
4	77	42	e26	e96	e34	56	201	2250	199	58	51	29
5	1310	34	e26	e70	e32	164	180	814	114	38	41	27
6	455	27	e25	e56	e29	547	136	488	202	40	32	30
7	174	136	e24	e47	e28	373	103	401	786	108	31	30
8	50	66	23	e44	e60	150	79	484	399	270	146	27
9	43	41	22	e42	123	115	71	565	847	144	119	319
10	34	31	18	e40	105	87	79	619	773	68	70	76
11	e25	564	e17	e38	99	78	74	3070	577	63	47	37
12	e50	186	e16	e38	69	75	53	953	471	52	49	76
13	116	e90	e20	e37	46	69	58	896	196	53	32	61
14	90	e56	60	e50	e39	68	66	427	135	50	29	41
15	35	e48	98	162	e38	357	196	2750	151	467	29	38
16	28	e40	332	232	e36	189	208	2830	95	153	74	378
17	26	e41	55	1070	e35	133	103	913	85	63	38	204
18	25	e56	752	733	e34	91	77	942	424	296	34	104
19	26	e37	1350	1430	e40	1700	165	709	234	207	26	67
20	71	e36	544	643	177	1400	743	353	380	118	25	52
21	43	e35	505	143	102	962	362	296	127	135	25	98
22	26	e34	235	122	103	507	190	263	117	175	24	173
23	26	e32	104	1150	91	295	1320	175	160	106	29	62
24	31	e30	78	1550	52	195	704	258	121	75	271	64
25	28	e29	e45	759	44	168	436	380	135	76	71	51
26	26	e31	e38	239	151	109	185	561	87	65	60	41
27	e70	e35	e35	210	429	105	128	1160	66	41	52	804
28	e45	e47	e32	121	535	83	339	585	50	43	32	1200
29	e34	e30	e30	99	131	200	3790	502	45	153	31	311
30	e28	e28	e29	72	---	91	1430	240	100	144	29	153
31	e25	---	e35	62	---	200	---	161	---	160	27	---
TOTAL	3132	2114	4656	9947	2784	8846	14514	26437	7580	3638	1711	4630
MEAN	101	70.5	150	321	96.0	285	484	853	253	117	55.2	154
MAX	1310	564	1350	1550	535	1700	3790	3070	847	467	271	1200
MIN	20	27	16	37	28	56	53	161	45	38	24	24
CAL YR 1995	TOTAL 50864 MEAN 139 MAX 3170 MIN 16											
WTR YR 1996	TOTAL 89989 MEAN 246 MAX 3790 MIN 16											

GREAT MIAMI RIVER BASIN

03260706 BOKENGEHALAS CREEK AT DE GRAFF, OH

LOCATION.--Lat 40°18'40", long 83°54'45", sec. 6, R.13, T.3, Logan County, Hydrologic Unit 05080001, at De Graff on right bank 100 ft downstream from bridge on Co. Rd. 11 and 1.1 mi upstream from mouth.

DRAINAGE AREA.--40.4 mi².

PERIOD OF RECORD.--June 1, 1992, to current year (discontinued). October 1957 to May 31, 1992, at site 2.9 mi upstream published as "near De Graff," (station 03260700) are not equivalent because of difference in drainage areas.

GAGE.--Water-stage recorder. Datum of gage is 977.382 ft above sea level.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Diurnal fluctuation caused by municipal plants in Bellefontaine, 12.7 mi upstream and De Graff, 0.25 mi upstream. Since storage capacity is small, daily flows are not affected appreciably.

COOPERATION.--Discharge measurements furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	18	22	23	e50	68	105	202	66	29	28	11
2	9.7	26	21	35	e40	57	105	158	67	27	25	11
3	20	22	20	e22	e35	48	72	122	65	26	24	12
4	21	19	20	e20	e30	42	60	165	67	23	22	12
5	60	17	20	e19	e26	52	55	191	65	21	20	12
6	123	17	19	e18	e30	90	50	236	61	20	19	12
7	46	e25	18	e17	e35	70	51	134	113	21	19	12
8	30	28	e17	e17	46	51	48	121	160	21	18	14
9	24	23	e17	e17	52	47	44	163	90	20	18	30
10	22	22	e16	e17	46	39	41	116	99	19	17	17
11	20	175	e16	e17	51	40	39	317	77	22	16	14
12	19	131	e15	e16	42	40	37	202	222	22	17	13
13	18	71	17	e16	37	40	38	122	113	17	17	13
14	17	53	22	e16	37	42	38	99	86	17	16	12
15	16	44	20	e16	35	46	41	127	76	32	16	12
16	16	38	18	e25	33	43	53	173	68	19	15	18
17	16	34	17	e350	31	40	48	238	61	20	15	30
18	16	58	18	e500	31	38	42	130	62	113	14	17
19	16	46	23	e250	30	56	39	99	59	79	14	16
20	17	39	e29	e150	36	126	121	82	54	44	14	15
21	18	35	e23	e120	41	93	84	75	47	38	14	15
22	16	32	20	e110	42	76	64	67	49	39	14	21
23	15	29	19	e300	43	66	289	64	42	30	16	16
24	15	27	18	e400	46	90	317	78	41	27	16	16
25	15	25	e17	e200	42	157	135	100	41	25	13	15
26	15	25	e17	e100	44	83	105	72	36	23	13	18
27	16	25	e17	e60	128	59	80	135	36	22	13	27
28	17	24	e16	e50	203	53	68	161	35	21	13	122
29	16	22	e16	e120	100	52	332	185	36	23	13	43
30	16	22	e16	e90	---	48	468	113	35	63	13	28
31	17	---	e17	e70	---	45	---	83	---	36	12	---
TOTAL	712.3	1172	581	3181	1442	1897	3069	4330	2129	959	514	624
MEAN	23.0	39.1	18.7	103	49.7	61.2	102	140	71.0	30.9	16.6	20.8
MAX	123	175	29	500	203	157	468	317	222	113	28	122
MIN	9.6	17	15	16	26	38	37	64	35	17	12	11
MED	17	26	18	35	41	52	57	127	63	23	16	15
CFSM	.57	.97	.46	2.54	1.23	1.51	2.53	3.46	1.76	.77	.41	.51
IN.	.66	1.08	.53	2.93	1.33	1.75	2.83	3.99	1.96	.88	.47	.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 1996, BY WATER YEAR (WY)

	1993	1994	1995	1996
MEAN	14.9	53.4	30.8	63.3
MAX	23.0	85.5	60.1	103
(WY)	1996	1993	1994	1995
MIN	5.94	7.60	9.40	17.2
(WY)	1995	1995	1995	1995

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1993 - 1996

ANNUAL TOTAL	15369.9	20610.3	
ANNUAL MEAN	42.1	56.3	45.9
HIGHEST ANNUAL MEAN			56.3
LOWEST ANNUAL MEAN			35.2
HIGHEST DAILY MEAN	465	May 19	550
LOWEST DAILY MEAN	6.0	Jan 9	5.0
ANNUAL SEVEN-DAY MINIMUM	6.3	Jan 3	5.3
INSTANTANEOUS PEAK FLOW			670
INSTANTANEOUS PEAK STAGE			5.58
INSTANTANEOUS LOW FLOW			5.0
ANNUAL RUNOFF (CFSM)	1.04	1.39	1.14
ANNUAL RUNOFF (INCHES)	14.15	18.98	15.45
10 PERCENT EXCEEDS	91	124	100
50 PERCENT EXCEEDS	23	33	27
90 PERCENT EXCEEDS	13	15	8.7

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

GREAT MIAMI RIVER BASIN

149

03261500 GREAT MIAMI RIVER AT SIDNEY, OH

LOCATION.--Lat 40°17'13", long 84°09'00", Shelby County, Hydrologic Unit 05080001, on right bank 50 ft upstream from North Street Bridge in Sidney, and 0.5 mi downstream from Tawawa Creek.

DRAINAGE AREA.--541 mi².

PERIOD OF RECORD.--February 1914 to current year. Prior to October 1962, published as Miami River at Sidney.

REVISED RECORDS.--WSP 1305: 1914(M), 1922(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 924.70 ft above sea level. Prior to Sept. 18, 1919, nonrecording gage at site 50 ft downstream at datum 1.76 ft higher. September 18, 1919 to August, 1925, nonrecording gage at site 50 ft downstream at present datum.

REMARKS.--Records good, except those for periods of estimated record, which are poor. Water supply for city of Sidney is pumped from the Great Miami River 1,200 ft upstream and from wells adjacent to Great Miami River upstream from station. The pumpage averaged 5.09 ft³/s in 1996 and is returned as sewage 1.2 mi downstream from the station. Some regulation by Indian Lake, 28 mi upstream, capacity, 45,900 acre-ft; water diverted into Miami and Erie Canal at Port Jefferson, 2.8 mi upstream, prior to 1926; amount of diversion not published. Sediment data collected at this site.

COOPERATION.--Gage-height tapes, and 10 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 19.6 ft, present datum; discharge, 44,000 ft³/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	127	180	e150	439	1860	1110	4350	971	188	160	59
2	66	231	192	382	e360	1310	1510	3270	692	171	148	57
3	81	547	175	e310	e320	862	872	2470	614	165	136	58
4	143	593	162	e240	e290	549	654	2530	941	204	134	56
5	471	355	160	e210	e270	544	632	2800	1180	156	127	55
6	2420	232	161	e190	e250	1220	517	3010	951	140	113	54
7	1880	327	161	e160	e240	1160	461	2340	1240	136	105	55
8	1290	728	137	e140	e280	691	408	1940	1830	142	99	68
9	729	534	e115	e130	e330	515	395	2610	1300	140	101	90
10	413	329	e90	e125	433	455	360	2180	1590	130	108	99
11	293	2270	e100	e120	484	383	330	3580	1190	124	89	73
12	233	2940	e105	e115	413	378	270	3270	1780	113	88	64
13	200	2250	119	e115	311	391	269	2100	1220	110	82	60
14	176	1650	140	e110	305	428	318	1450	805	108	79	60
15	168	1240	164	e110	277	490	289	1260	650	136	76	60
16	159	872	156	e190	247	499	336	1960	549	146	74	83
17	141	551	140	2440	232	434	397	2380	465	122	75	135
18	124	683	138	6110	220	373	306	2010	401	529	75	118
19	113	781	193	6820	225	433	289	1470	364	1610	72	87
20	118	613	320	5500	226	1490	890	1010	328	1490	70	70
21	128	508	299	4050	278	1700	1210	746	322	1070	72	76
22	126	453	239	2810	369	1360	779	659	281	753	68	96
23	115	341	206	2440	458	1040	3080	538	287	493	79	96
24	108	331	187	4290	544	1380	4460	511	263	344	89	85
25	106	272	e170	3480	513	1850	3410	1200	390	263	83	72
26	109	239	e160	2470	471	1430	2520	1360	314	225	74	68
27	103	236	e150	2030	1970	1020	1890	1340	228	199	68	81
28	111	234	e135	1540	3640	752	1390	2000	207	177	64	396
29	118	236	e130	1120	2720	610	3850	2430	196	162	62	344
30	129	195	e120	766	---	552	5440	2120	190	181	62	191
31	122	---	e110	563	---	487	---	1430	---	182	61	---
TOTAL	10561	20898	5014	49226	17115	26646	38642	62324	21739	10109	2793	2966
MEAN	341	697	162	1588	590	860	1288	2010	725	326	90.1	98.9
MAX	2420	2940	320	6820	3640	1860	5440	4350	1830	1610	160	396
MIN	66	127	90	110	220	373	269	511	190	108	61	54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

MEAN	155	322	494	737	770	963	881	546	423	309	174	132
MAX	1717	1876	2373	3846	2186	2507	2500	2010	2073	2181	1173	2365
(WY)	1927	1973	1991	1930	1950	1927	1957	1996	1958	1992	1973	1926
MIN	21.9	36.3	41.3	42.1	49.5	106	164	70.6	36.1	24.6	28.5	21.2
(WY)	1964	1935	1935	1977	1964	1941	1946	1934	1988	1934	1963	1963

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1926 - 1996

ANNUAL TOTAL	221165	268033	
ANNUAL MEAN	606	732	491
HIGHEST ANNUAL MEAN			963
LOWEST ANNUAL MEAN			141
HIGHEST DAILY MEAN	7790	6820	17400
LOWEST DAILY MEAN	44	54	8.0
ANNUAL SEVEN-DAY MINIMUM	48	56	15
INSTANTANEOUS PEAK FLOW		7320	20700
INSTANTANEOUS PEAK STAGE		10.68	15.91
INSTANTANEOUS LOW FLOW		54	1.5
10 PERCENT EXCEEDS	1780	2110	1250
50 PERCENT EXCEEDS	272	296	180
90 PERCENT EXCEEDS	95	81	44

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

GREAT MIAMI RIVER BASIN

03261950 LORAMIE CREEK NEAR NEWPORT, OH

LOCATION.--Lat 40°18'25", long 84°23'02", in SE 1/4 sec, 24, T.11 N., R.4 E., Shelby County, Hydrologic Unit 05080001, right bank at downstream side of bridge on Cardo Roman Road, 1.1 mi northwest of Newport, 3 mi south of Fort Loramie, 3 mi downstream from Mile Creek, and at mile 16.5.

DRAINAGE AREA.--152 mi².

PERIOD OF RECORD.--October 1964 to current year.

REVISED RECORDS.--WRD Ohio 1971: 1966(M). WDR Ohio 1985-1: 1984 (M).

GAGE.--Water-stage recorder. Datum of gage is 926.57 ft above sea level. October 1, 1964, to September 30, 1980, water-stage recorder at same site at datum 0.43 ft higher.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Some regulation by Lake Loramie 5 mi upstream, capacity, 13,000 acre-ft. Sediment data collected at this site.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 17.0 ft and flood of Jan. 21, 1959, a stage of 14.2 ft, from flood profile furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	13	26	63	e45	252	498	1590	84	14	16	6.0
2	2.8	119	31	181	e30	152	347	843	75	12	8.1	6.0
3	6.6	248	25	219	e25	96	213	457	97	10	5.6	5.6
4	23	198	25	e100	e21	89	162	680	189	7.5	4.2	5.6
5	197	109	21	e35	e19	91	131	841	118	5.7	3.5	5.8
6	1060	83	13	e25	e17	139	110	1140	95	5.0	3.4	6.2
7	518	218	e9.0	e18	e17	114	99	629	128	4.6	3.2	5.9
8	214	274	e8.0	e14	e16	101	91	445	154	5.8	3.2	5.9
9	96	149	e7.6	e11	e16	80	85	777	227	5.1	3.4	9.2
10	55	87	e7.4	e9.2	e40	74	81	514	754	4.0	3.0	6.0
11	31	648	e7.0	e8.0	88	72	79	973	405	3.6	3.0	3.2
12	22	983	e7.6	e7.4	59	69	64	599	301	3.4	3.0	3.2
13	18	490	e9.0	e7.0	43	27	28	281	180	3.4	2.9	4.0
14	20	280	e12	e6.6	47	26	23	170	124	3.3	3.2	4.5
15	15	175	15	e6.2	39	37	21	194	203	9.6	3.2	4.7
16	13	119	8.4	e20	41	48	26	316	102	8.8	3.6	7.9
17	11	95	5.9	885	e43	46	18	379	69	5.3	4.3	19
18	12	253	6.2	3020	e50	48	15	265	32	147	4.3	6.1
19	11	215	12	4260	e56	78	20	173	45	315	4.2	3.8
20	64	160	e22	2480	63	188	140	120	31	179	4.3	2.7
21	124	119	e18	921	70	339	206	97	23	84	4.3	2.8
22	17	91	e15	434	82	313	188	77	20	62	4.3	10
23	9.4	77	e13	591	70	248	1250	70	17	46	4.4	4.6
24	8.9	59	e12	1500	91	537	1960	76	23	30	6.1	3.3
25	9.7	48	e11	1140	77	1310	1110	225	105	21	5.9	3.6
26	7.3	47	e10	530	109	798	577	206	70	15	4.5	3.2
27	15	47	e9.4	378	611	341	314	276	44	10	4.3	3.9
28	13	43	e9.0	e250	1140	200	210	541	31	7.5	4.3	27
29	7.5	37	e8.8	e100	610	160	1580	319	23	23	4.9	17
30	6.8	30	e12	e80	---	134	2500	175	15	14	6.1	6.8
31	7.7	---	e20	e60	---	122	---	111	---	29	6.6	---
TOTAL	2618.2	5514	416.3	17359.4	3635	6329	12146	13559	3784	1093.6	145.3	203.5
MEAN	84.5	184	13.4	560	125	204	405	437	126	35.3	4.69	6.78
MAX	1060	983	31	4260	1140	1310	2500	1590	754	315	16	27
MIN	2.5	13	5.9	6.2	16	26	15	70	15	3.3	2.9	2.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 1996, BY WATER YEAR (WY)

	MEAN	37.0	117	182	168	217	277	243	135	102	110	45.2	25.0
MAX	360	656	802	560	613	826	700	437	561	830	322	186	
(WY)	1987	1973	1991	1996	1975	1978	1972	1996	1981	1992	1995	1972	
MIN	.75	1.32	1.63	.63	14.1	38.9	23.1	7.14	1.47	.51	.22	.53	
(WY)	1965	1981	1977	1977	1978	1981	1971	1988	1988	1965	1965	1966	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1965 - 1996

ANNUAL TOTAL	58647.1	66803.3	
ANNUAL MEAN	161	183	
HIGHEST ANNUAL MEAN			138
LOWEST ANNUAL MEAN			249
HIGHEST DAILY MEAN	2360	Aug 9	39.6
LOWEST DAILY MEAN	2.2	Sep 12	5100
ANNUAL SEVEN-DAY MINIMUM	2.6	Sep 26	.10
INSTANTANEOUS PEAK FLOW			.13
INSTANTANEOUS PEAK STAGE			6500
INSTANTANEOUS LOW FLOW			14.31
10 PERCENT EXCEEDS	499		.10
50 PERCENT EXCEEDS	43		357
90 PERCENT EXCEEDS	5.0		23
			1.5

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

GREAT MIAMI RIVER BASIN

151

03262000 LORAMIE CREEK AT LOCKINGTON, OH

LOCATION.--Lat 40°12'35", long 84°14'32", in NE 1/4 sec. 30, T.7 N., R.6 E., Shelby County, Hydrologic Unit 05080001, on left bank at downstream side of county road bridge, 1,300 ft downstream from Lockington Dam, 0.5 mi northwest of Lockington, and at mile 1.9.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--October 1915 to current year.

REVISED RECORDS.--WSP 923: 1916. WSP 1908: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 800.03 ft above sea level. Prior to July 3, 1924, nonrecording gage at same site at datum 75.96 ft higher. July 3, 1924, to Aug. 17, 1926, nonrecording gage, and Aug. 18 to Sept. 30, 1926, water-stage recorder, at same site at datum 74.96 ft higher.

REMARKS.--Records good, except for periods of estimated record, which are poor. Slight regulation by Lake Loramie 18 mi upstream, capacity, 13,000 acre-ft. Flood flow regulated by Lockington retarding basin beginning in 1921.

COOPERATION.--Gage-height tapes and 6 discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft³/s May 7, 1916, gage height, 86.4 ft, present datum, from rating curve extended above 5,400 ft³/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 91.6 ft, present datum; discharge, 25,600 ft³/s, at site upstream from Turtle Creek, drainage area, 211 mi², computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	46	52	e40	e60	381	781	2850	153	41	45	12
2	25	241	51	e70	e50	256	601	1150	137	38	31	7.2
3	21	476	49	e160	e40	168	347	638	130	41	26	14
4	36	406	46	e210	e33	167	258	1130	305	31	25	14
5	273	263	41	e110	e31	163	216	1350	218	30	22	13
6	1530	210	35	e66	e30	423	192	1590	179	34	20	12
7	663	525	31	e45	e32	314	173	851	257	30	20	8.1
8	269	583	e30	e35	e40	212	156	635	255	29	19	12
9	159	313	e34	e30	e60	209	143	1270	284	26	18	11
10	121	205	e40	e25	e100	209	136	746	1030	28	18	18
11	93	1590	e56	e23	155	194	129	2030	679	25	17	18
12	74	1360	e48	e21	111	142	126	963	837	23	18	7.4
13	60	607	e40	e20	85	122	85	469	324	22	17	6.7
14	58	325	e35	e19	102	123	71	305	266	22	15	12
15	59	220	e30	e19	100	148	66	447	435	29	14	12
16	53	160	e26	e19	88	130	78	589	198	30	13	20
17	49	134	e23	e1000	e80	116	73	592	152	23	17	30
18	46	339	e22	3850	e74	103	60	426	106	486	17	26
19	46	279	21	4920	e80	161	73	299	94	482	16	18
20	47	205	48	4620	92	534	385	225	89	242	14	13
21	235	157	e40	2340	119	619	330	191	71	129	14	8.4
22	108	127	e35	580	143	529	257	163	63	128	14	24
23	61	111	e30	722	167	429	2340	143	56	95	13	32
24	53	99	e28	2850	201	904	3080	143	47	66	19	32
25	52	80	e26	1640	165	1760	1610	226	125	51	16	20
26	50	77	e24	e600	173	1020	797	274	115	41	16	9.8
27	46	78	e22	e300	1200	463	479	448	80	35	14	16
28	58	67	e21	e200	1900	297	325	707	65	31	12	54
29	59	57	e20	e130	849	245	2790	463	50	29	15	53
30	47	52	e19	e100	---	218	3710	281	52	41	12	37
31	47	---	e25	e80	---	195	---	193	---	34	11	---
TOTAL	4515	9392	1048	24844	6360	10954	19867	21787	6852	2392	558	570.6
MEAN	146	313	33.8	801	219	353	662	703	228	77.2	18.0	19.0
MAX	1530	1590	56	4920	1900	1760	3710	2850	1030	486	45	54
MIN	17	46	19	19	30	103	60	143	47	22	11	6.7

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

	MEAN	49.5	129	224	336	347	456	393	211	175	127	64.0	48.9
MAX	540	1025	1203	1728	1119	1235	1301	1017	1754	1088	682	1092	
(WY)	1987	1973	1991	1937	1950	1978	1922	1933	1958	1992	1995	1926	
MIN	2.92	4.64	4.59	4.35	9.19	21.4	43.0	11.9	9.23	5.35	3.37	2.46	
(WY)	1964	1964	1964	1977	1964	1941	1971	1941	1988	1936	1936	1983	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1921 - 1996
ANNUAL TOTAL	104706	109139.6	
ANNUAL MEAN	287	298	213
HIGHEST ANNUAL MEAN			413
LOWEST ANNUAL MEAN			53.0
HIGHEST DAILY MEAN	5500	Aug 9	6400
LOWEST DAILY MEAN	10	Jan 10	1.85
ANNUAL SEVEN-DAY MINIMUM	13	Jan 4	1.6
INSTANTANEOUS PEAK FLOW			5150
INSTANTANEOUS PEAK STAGE			83.89
INSTANTANEOUS LOW FLOW			6.7
10 PERCENT EXCEEDS	791	711	542
50 PERCENT EXCEEDS	81	80	42
90 PERCENT EXCEEDS	27	17	7.1

GREAT MIAMI RIVER BASIN

03262700 GREAT MIAMI RIVER AT TROY, OH

LOCATION.--Lat 40°02'25", long 84°11'52", Miami County, Hydrologic Unit 05080001, 400 ft downstream from B & O Railroad bridge, 1,300 ft downstream from bridge on State Highway 55 at Troy, 1.2 mi upstream from small left bank tributary, 2.3 mi downstream from Spring Creek, and at mile 105.

DRAINAGE AREA.--926 mi².

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1961, 1962 (published as Miami River at Troy). October 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.67 ft above sea level.

REMARKS.--Records good except those for estimated days, which are fair. Flood flow regulated by retarding basin on Loramie Creek, 18 mi upstream. Low and medium flow slightly regulated by Indian Lake; capacity, 45,900 acre-ft, 54 mi upstream. Water supply for city of Troy is pumped from wells adjacent to the Great Miami River upstream from the station. The pumpage averaged 7.6 ft³/s in 1996 and is returned as sewage 1 mi downstream from the station. Water-quality and sediment data collected at this site.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 11, 1958, reached a stage of 16.4 ft; discharge, 21,000 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	203	302	296	e600	2690	2070	8870	1420	322	279	104
2	133	312	285	558	e500	1900	2860	5400	1050	307	249	103
3	174	774	293	e500	e460	1310	1720	3650	920	293	234	98
4	192	953	258	e400	e430	888	1270	3910	1220	296	214	108
5	534	659	253	e340	e410	870	1100	4790	1630	291	210	110
6	3990	448	243	e290	e420	1800	1020	5490	1410	265	195	102
7	2900	607	241	e260	482	1960	866	3910	1620	264	182	100
8	1800	1170	223	e250	505	1180	808	3100	2520	284	169	96
9	1100	940	222	e230	626	856	740	e6000	e2500	273	159	200
10	657	613	148	e220	683	784	711	e4000	e3200	230	167	146
11	477	3460	e160	e210	733	679	650	e5000	2410	210	145	140
12	379	5240	e180	e200	680	655	605	e8000	3050	213	156	127
13	325	3330	e200	e200	518	664	567	e3000	2000	202	152	111
14	296	2290	224	e200	510	683	551	e2500	1750	195	145	105
15	269	1690	239	e240	483	796	575	e2000	1880	235	138	108
16	265	1230	241	341	442	793	570	e3000	1150	241	132	167
17	246	836	210	3230	417	721	642	e3200	883	221	134	256
18	228	1000	225	11400	396	635	572	e2500	751	1480	136	200
19	212	1210	264	13400	409	674	543	e2000	659	2330	137	177
20	214	978	242	11400	402	2070	1530	e1500	601	2010	131	145
21	280	781	404	7700	e460	2630	2090	1200	489	1450	125	132
22	292	682	347	3860	e540	2240	1410	1040	495	1140	116	202
23	219	555	300	3350	e660	1790	5390	866	455	807	113	169
24	196	495	275	7950	e700	2170	8960	797	455	550	153	180
25	195	476	259	6090	e680	3970	6130	1240	524	440	146	155
26	190	412	e230	3700	e640	2960	3910	1810	608	358	135	136
27	193	394	e220	2860	e3000	1840	2840	1850	444	316	128	151
28	187	373	e210	2230	e6800	1340	2130	3080	382	287	119	387
29	199	354	205	1650	4280	1110	7100	3470	349	266	109	537
30	196	303	205	1230	---	994	10700	2950	334	283	112	287
31	212	---	245	869	---	890	---	1980	---	292	107	---
TOTAL	16889	32768	7553	85654	27866	44542	70630	102103	37159	16351	4827	5039
MEAN	545	1092	244	2763	961	1437	2354	3294	1239	527	156	168
MAX	3990	5240	404	13400	6800	3970	10700	8870	3200	2330	279	537
MIN	133	203	148	200	396	635	543	797	334	195	107	96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1996, BY WATER YEAR (WY)

	MEAN	253	673	1001	920	1227	1658	1554	984	722	647	337	180
MAX	2268	3824	3949	3069	3403	4005	4032	3294	2858	3458	2246	671	
(WY)	1987	1973	1991	1974	1975	1963	1964	1996	1981	1993	1995	1972	
MIN	24.9	49.4	49.2	34.6	58.7	308	269	140	65.9	65.2	41.0	24.1	
(WY)	1964	1964	1977	1977	1964	1981	1971	1988	1988	1965	1965	1963	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1963 - 1996

ANNUAL TOTAL	385434	451381	
ANNUAL MEAN	1056	1233	844
HIGHEST ANNUAL MEAN			1662
LOWEST ANNUAL MEAN			300
HIGHEST DAILY MEAN	18900	13400	18900
LOWEST DAILY MEAN	76	96	4.3
ANNUAL SEVEN-DAY MINIMUM	84	102	19
INSTANTANEOUS PEAK FLOW		13800	21700
INSTANTANEOUS PEAK STAGE		12.62	16.02
INSTANTANEOUS LOW FLOW		96	4.3
10 PERCENT EXCEEDS	2600	3200	2190
50 PERCENT EXCEEDS	477	495	303
90 PERCENT EXCEEDS	189	146	70

GREAT MIAMI RIVER BASIN

153

03263000 GREAT MIAMI RIVER AT TAYLORSVILLE, OH

LOCATION.--Lat 39°52'27", long 84°09'45", in SW 1/4 sec. 36, R.8, T.2, Montgomery County, Hydrologic Unit 05080001, on right upstream face of Taylorsville Dam, 0.8 mi north of Taylorsville, 2.1 mi east of Vandalia, 9.5 mi upstream from Stillwater River, and at mile 90.9.

DRAINAGE AREA.--1,149 mi².

PERIOD OF RECORD.--January 1914 to September 1917 (published as Miami River at Tadmor), October 1921 to current year (published as Miami River at Taylorsville 1921-62). Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site at Tadmor, January 1914 to July 1920, are contained in reports of the National Weather Service.

REVISED RECORDS.--WSP 743: 1924(M). WSP 853: 1930, 1937. WSP 923: 1922-24. WSP 1385: 1916. WSP 1908: Drainage area. GAGE.--Water-stage recorder. Datum of gage is 760.11 ft above sea level, levels by Miami Conservancy District. Prior to October 1921, nonrecording gage at site 1.7 mi upstream at different datum. Jan. 1, 1922, to Nov. 11, 1925, nonrecording gage at site 50 ft downstream at outlet works of Taylorsville Dam at datum 60.03 ft lower, October 1921 to September 1978 at site 650 ft downstream at datum 60.03 ft lower.

REMARKS.--Records good except those for periods of estimated record, which are fair. Flood flow regulated by retarding basins on Great Miami River just downstream from station and on Loramie Creek 28 mi upstream from station beginning in 1921. Low and medium flow slightly regulated by Indian Lake, 64 mi upstream from station, and by Lake Loramie 47 mi upstream from station on Loramie Creek; combined capacity, 58,900 acre-ft.

COOPERATION.--Base data furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 25.4 ft at site at Tadmor; discharge, 127,000 ft³/s computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	175	254	406	e350	e860	3390	2250	12700	1790	480	488	146
2	160	291	382	730	e780	2310	3820	7970	1400	464	429	146
3	223	685	388	e660	e700	1610	2310	4960	1320	444	386	138
4	261	952	365	e520	e660	1140	1660	5290	1460	429	352	150
5	705	750	347	e450	e620	1090	1400	7030	2080	441	334	152
6	4010	539	336	e410	e600	2090	1310	7200	1790	394	319	147
7	3390	550	325	e370	e580	2590	1130	5460	2990	383	300	142
8	2040	1160	308	e340	e560	1570	1040	4930	4310	723	279	134
9	1310	1060	300	e320	e760	1140	958	8680	3390	477	264	198
10	841	735	e290	e300	855	970	909	5560	4750	402	252	191
11	612	2570	e290	e290	906	904	840	8360	3690	345	248	176
12	484	6420	e360	e290	863	845	805	10700	5040	323	228	159
13	417	4050	e430	e280	673	869	754	4970	3070	310	235	143
14	376	2670	401	e280	657	878	717	3270	2700	292	217	134
15	341	1950	326	e310	623	1030	748	2800	3630	519	212	131
16	323	1470	322	455	576	1010	771	4280	1840	425	203	191
17	310	1070	291	2800	539	938	809	4280	1400	369	195	382
18	291	1050	326	10900	522	834	800	3930	1210	2580	198	222
19	271	1350	495	15400	526	853	750	2930	1160	2910	194	207
20	263	1140	444	14900	530	2380	2070	2140	1060	2280	190	178
21	296	943	549	11200	562	3160	2820	1580	837	1680	183	160
22	382	825	514	5320	651	2740	1880	1360	806	1450	177	292
23	286	712	444	4140	806	2200	4640	1170	719	1110	167	200
24	248	614	412	9210	962	2290	11300	1180	695	809	186	192
25	236	586	e360	8890	978	4380	8570	1340	667	682	188	176
26	232	525	e340	5030	908	3670	5190	2020	825	565	186	165
27	239	502	e320	3720	3590	2200	3650	2280	652	494	176	282
28	236	499	e300	2850	8190	1610	2710	3820	568	449	168	1200
29	236	459	e290	2080	5830	1380	8200	4190	527	422	161	845
30	235	431	e280	1590	---	1230	14800	3800	496	655	154	514
31	243	---	e270	1180	---	1120	---	2500	---	632	151	---
TOTAL	19672	36812	11211	105565	35867	54421	89611	142680	56872	23938	7420	7493
MEAN	635	1227	362	3405	1237	1756	2987	4603	1896	772	239	250
MAX	4010	6420	549	15400	8190	4380	14800	12700	5040	2910	488	1200
MIN	160	254	270	280	522	834	717	1170	496	292	151	131
CFSM	.55	1.07	.31	2.96	1.08	1.53	2.60	4.01	1.65	.67	.21	.22
IN.	.64	1.19	.36	3.42	1.16	1.76	2.90	4.62	1.84	.78	.24	.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 1996, BY WATER YEAR (WY)

MEAN	302	623	1004	1522	1578	1961	1836	1159	949	648	374	259
MAX	3089	4228	4587	8024	4473	5158	5525	4603	5567	4591	2786	3608
(WY)	1927	1973	1991	1937	1950	1963	1922	1996	1958	1993	1995	1926
MIN	45.8	63.9	65.3	46.8	94.4	205	361	137	91.2	70.8	68.3	46.5
(WY)	1964	1935	1977	1977	1964	1941	1971	1941	1988	1936	1965	1963

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1922 - 1996

ANNUAL TOTAL	463088	591562	
ANNUAL MEAN	1269	1616	
HIGHEST ANNUAL MEAN			1015
LOWEST ANNUAL MEAN			2005
HIGHEST DAILY MEAN	21600	Aug 9	15400
LOWEST DAILY MEAN	130	Jan 2	131
ANNUAL SEVEN-DAY MINIMUM	143	Jan 2	144
INSTANTANEOUS PEAK FLOW			16500
INSTANTANEOUS PEAK STAGE			20.17
INSTANTANEOUS LOW FLOW			131
ANNUAL RUNOFF (CFSM)	1.10	1.41	
ANNUAL RUNOFF (INCHES)	14.99	19.15	
10 PERCENT EXCEEDS	3010	4220	2450
50 PERCENT EXCEEDS	582	677	391
90 PERCENT EXCEEDS	239	197	93

e Estimated

GREAT MIAMI RIVER BASIN

03264000 GREENVILLE CREEK NEAR BRADFORD, OH

LOCATION.---Lat 40°06'08", Long 84°25'48", in NW 1/4 sec. 34, T.9 N., R.4 E., Miami County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on State Highway 721, 0.8 mi downstream from small left bank tributary, 1.8 mi south of Bradford, and 6 mi upstream from mouth.

DRAINAGE AREA.---193 mi².

PERIOD OF RECORD.---October 1930 to current year. Prior to April 1931, monthly discharge only, published in WSP 1305. REVISED RECORDS.---WSP 803: 1933(M). WSP 1235: 1936, 1937(M). WSP 1908: Drainage area. WRD-OH-82-1: 1980.

GAGE.---Water-stage recorder. Datum of gage is 948.9 ft above sea level. Prior to Oct. 1, 1942, nonrecording gage at same site and datum. Apr. 6, 1962 to Nov. 13, 1963, water-stage recorder at site 200 ft downstream at same datum.

REMARKS.---Records good, except for periods of estimated record, which are poor. Some diurnal fluctuation caused by mill 8 mi upstream from station; daily flows are not affected appreciably. Sediment data collected at this site.

COOPERATION.---Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.---Flood in March 1913 reached a stage of 12.1 ft; discharge, 18,200 ft³/s, at site with drainage area of 213 mi², computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	35	64	e80	e190	452	574	2030	275	106	75	29
2	21	61	63	124	e160	346	646	945	235	101	68	28
3	22	151	63	114	e150	253	412	668	214	99	62	28
4	33	128	58	e96	e150	199	321	977	226	95	58	28
5	160	81	55	e84	e145	199	259	1460	219	90	56	28
6	556	65	54	e72	e140	398	230	1370	202	89	54	28
7	235	87	52	e66	e140	452	212	891	258	85	52	26
8	117	119	49	e60	e140	289	193	970	371	86	48	25
9	83	102	45	e57	e150	215	178	1970	791	88	64	38
10	65	85	e40	e54	e170	188	167	1420	1120	81	54	43
11	57	434	e35	e50	197	166	156	1420	661	73	48	40
12	49	671	e32	e49	180	164	153	1240	1000	70	46	32
13	43	326	e38	e48	142	164	148	717	637	69	46	28
14	42	216	e48	e46	142	174	140	509	425	69	43	28
15	36	170	58	e45	134	190	133	451	356	78	40	27
16	34	139	52	e100	121	190	140	476	309	78	39	31
17	34	116	46	710	114	174	134	431	250	67	38	82
18	33	121	52	2670	106	161	126	367	223	611	36	59
19	32	128	120	3940	125	171	131	316	228	378	36	46
20	33	124	171	2750	112	297	455	277	225	179	36	37
21	49	113	179	957	112	331	519	239	212	118	35	35
22	43	104	135	548	113	328	336	212	185	181	33	43
23	36	94	e110	652	131	308	1520	195	168	186	33	47
24	35	87	e94	1750	164	453	2440	201	156	127	51	41
25	35	81	e84	1350	175	1130	1270	205	148	102	49	36
26	33	79	e76	636	168	815	724	198	134	91	41	35
27	33	78	e70	525	1330	434	519	280	123	80	37	35
28	36	76	e68	418	1850	330	413	715	117	73	33	83
29	34	69	e64	331	892	300	2000	751	114	69	31	80
30	33	65	e62	275	---	294	3230	622	111	68	29	51
31	32	---	e70	228	---	266	---	364	---	79	29	---
TOTAL	2107	4205	2207	18885	7843	9831	17879	22887	9693	3766	1400	1197
MEAN	68.0	140	71.2	609	270	317	596	738	323	121	45.2	39.9
MAX	556	671	179	3940	1850	1130	3230	2030	1120	611	75	83
MIN	21	35	32	45	106	161	126	195	111	67	29	25
CFSM	.35	.73	.37	3.16	1.40	1.64	3.09	3.83	1.67	.63	.23	.21
IN.	.41	.81	.43	3.64	1.51	1.89	3.45	4.41	1.87	.73	.27	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 1996, BY WATER YEAR (WY)

	MEAN	56.5	112	173	248	276	327	322	219	176	109	69.9	48.9
MAX	496	724	772	1430	844	826	783	935	1142	502	723	425	
(WY)	1987	1994	1991	1937	1950	1963	1964	1933	1958	1987	1979	1989	
MIN	10.7	14.9	13.5	14.9	15.9	48.2	58.7	27.7	21.6	13.9	8.93	10.7	
(WY)	1964	1935	1964	1945	1935	1941	1935	1941	1934	1934	1988	1941	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1931 - 1996
ANNUAL TOTAL	53597	101900	
ANNUAL MEAN	147	278	178
HIGHEST ANNUAL MEAN			302
LOWEST ANNUAL MEAN			52.8
HIGHEST DAILY MEAN	3050	May 20	7920
LOWEST DAILY MEAN	21	Oct 2	5.3
ANNUAL SEVEN-DAY MINIMUM	23	Sep 27	6.4
INSTANTANEOUS PEAK FLOW			4420
INSTANTANEOUS PEAK STAGE			8.57
INSTANTANEOUS LOW FLOW			21
ANNUAL RUNOFF (CFSM)	.76	1.44	.92
ANNUAL RUNOFF (INCHES)	10.33	19.64	12.50
10 PERCENT EXCEEDS	295	669	393
50 PERCENT EXCEEDS	82	119	74
90 PERCENT EXCEEDS	31	35	21

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

03266000 STILLWATER RIVER AT ENGLEWOOD, OH

LOCATION.--Lat 39°52'10", long 84°16'57", in NW 1/4 sec. 23, T.5 N., R.5 E., Montgomery County, Hydrologic Unit
05080001, on right bank 1,000 ft downstream from Englewood Dam, 1 mi southeast of Englewood, and at mile 8.9.
DRAINAGE AREA.--650 mi².

PERIOD OF RECORD.--October 1925 to current year (monthly discharge only, October 1925, published in WSP 1305).

REVISED RECORDS.--WSP 1908: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 699.82 ft above sea level.

REMARKS. -- Records excellent, except for periods of estimated record, which are poor. Flood flow regulated by Englewood retarding basin.

COOPERATION.--Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a discharge of 85,400 ft³/s at site 1 mi downstream, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	125	e190	225	473	e1100	1330	7030	875	245	296	63
2	61	150	e180	363	e400	e800	2720	6690	700	240	237	62
3	79	501	e170	e300	e350	e600	1610	5740	635	230	207	60
4	107	610	e170	e240	e320	e500	1110	4620	810	222	184	66
5	270	340	e160	e190	e290	e440	846	4740	714	212	168	79
6	2970	253	e150	e160	e270	e1200	672	4900	655	197	157	65
7	2720	247	150	e130	e320	e1300	605	4330	1450	193	149	61
8	812	752	142	e120	361	e700	543	3360	2000	260	137	59
9	451	471	134	e110	422	e540	491	4380	2290	226	127	60
10	320	317	108	e110	503	e450	441	5020	3700	203	120	87
11	252	1110	109	e100	528	e420	402	4930	3400	183	127	88
12	214	3560	125	e100	510	443	381	5520	3430	170	119	90
13	188	1750	123	e100	356	450	382	4770	2880	164	113	76
14	174	884	136	e110	352	480	364	2780	1590	155	112	66
15	159	626	155	e130	323	597	343	1550	1640	200	105	61
16	153	491	152	e300	288	621	368	2070	1000	187	109	73
17	145	395	134	e1000	258	529	353	1760	737	182	102	180
18	137	392	150	e4400	240	468	316	1440	622	1500	90	174
19	129	646	332	e7000	258	491	320	1100	571	2900	90	152
20	139	495	524	7880	e290	1500	1320	885	603	993	85	109
21	151	417	434	7620	e300	1670	2290	744	548	483	81	93
22	171	e370	344	6870	e310	1480	1180	630	466	424	78	158
23	168	e320	262	5750	e360	1260	2240	556	408	542	77	129
24	152	e280	245	5490	e500	1540	5480	629	370	401	80	117
25	134	e260	e190	5740	e450	3040	5840	640	343	311	76	100
26	126	e240	e180	4810	e600	3500	5000	582	319	252	88	97
27	132	e230	e170	2570	e2500	1680	2810	881	292	221	87	120
28	137	e220	e150	1560	e6200	1020	1310	2500	279	200	80	375
29	133	e210	e140	1080	e3000	893	3750	2480	266	189	74	266
30	128	e200	e140	837	- - -	815	6470	2310	255	255	69	220
31	128	- - -	e170	632	- - -	747	- - -	1270	- - -	e350	64	- - -
TOTAL	11104	16862	5919	66027	21332	31274	51287	90837	33848	12490	3688	3406
MEAN	358	562	191	2130	736	1009	1710	2930	1128	403	119	114
MAX	2970	3560	524	7880	6200	3500	6470	7030	3700	2900	296	375
MIN	61	125	108	100	240	420	316	556	255	155	64	59
CFSM	.55	.86	.29	3.28	1.13	1.55	2.63	4.51	1.74	.62	.18	.17
IN.	.64	.97	.34	3.78	1.22	1.79	2.94	5.20	1.94	.71	.21	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

MEAN	172	356	558	892	941	1146	1086	690	552	361	208	145
MAX	1781	2215	2495	5129	2840	3147	3015	2931	4244	1582	2438	1993
(WY)	1987	1973	1991	1937	1950	1963	1964	1933	1958	1993	1979	1926
MIN	15.6	27.3	27.9	28.6	63.0	111	180	61.1	52.2	30.0	19.7	17.9
(WY)	1964	1945	1945	1945	1964	1941	1941	1941	1934	1988	1988	1963

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1926 - 1996

ANNUAL TOTAL	207579		348074				
ANNUAL MEAN	569		951		590		
HIGHEST ANNUAL MEAN					1027		1958
LOWEST ANNUAL MEAN					130		1941
HIGHEST DAILY MEAN	6860	May 21	7880	Jan 20	9980		Jun 15 1958
LOWEST DAILY MEAN	38	Jan 9	59	Sep 8	4.8		Sep 30 1944
ANNUAL SEVEN-DAY MINIMUM	42	Jan 4	64	Sep 3	9.7		Sep 24 1941
INSTANTANEOUS PEAK FLOW			7960	Jan 20	9980		Jun 15 1958
INSTANTANEOUS PEAK STAGE			79.54	Jan 20	80.88		Jun 15 1958
INSTANTANEOUS LOW FLOW			59	Sep 8	3.7		Sep 30 1944
ANNUAL RUNOFF (CFSM)	.87		1.46		.91		
ANNUAL RUNOFF (INCHES)	11.88		19.92		12.34		
10 PERCENT EXCEEDS	1300		2920		1400		
50 PERCENT EXCEEDS	236		321		198		
90 PERCENT EXCEEDS	91		100		43		

GREAT MIAMI RIVER BASIN

157

03266560 MAD RIVER AT WEST LIBERTY, OH

LOCATION.--Lat 40°15'08", long 83°44'59", Logan County, on left bank upstream from the SR 245 bridge, on east side of West Liberty, 0.4 mi east of intersection of SR 245 and SR 68.

DRAINAGE AREA.--36.6 mi².

PERIOD OF RECORD.--December 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,078.00 ft above sea level.

REMARKS.--Records good, except for periods of estimated record, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	23	21	21	40	57	98	149	82	48	39	26
2	22	27	21	24	39	54	80	130	84	49	37	27
3	26	27	21	e20	38	48	65	115	82	48	36	27
4	26	25	20	e19	37	45	60	160	80	46	35	27
5	75	24	20	e19	36	57	58	179	77	45	34	27
6	66	24	19	e18	35	86	57	170	80	45	34	27
7	31	33	18	e18	36	63	55	131	137	45	34	27
8	25	30	18	e18	43	50	52	129	120	45	33	27
9	23	27	17	e17	46	46	50	174	92	43	32	29
10	22	25	15	e17	43	45	48	131	98	42	32	28
11	21	91	15	e17	47	45	46	422	94	42	32	27
12	21	55	e14	e16	38	46	45	185	203	41	32	28
13	20	34	e14	e16	36	46	47	139	101	40	31	30
14	21	30	e14	e16	36	48	48	123	88	40	31	30
15	21	27	e15	e16	35	49	50	175	82	55	31	29
16	21	25	e16	e20	34	46	62	187	77	43	30	38
17	20	24	e17	183	33	44	60	166	72	41	30	36
18	20	33	e19	318	32	43	53	128	69	183	30	27
19	20	29	22	370	32	59	51	112	69	77	30	26
20	21	26	20	87	44	87	129	101	66	54	29	25
21	21	25	19	65	47	67	83	97	63	49	28	26
22	21	24	19	57	44	60	70	92	61	47	28	29
23	20	23	18	95	44	56	377	88	58	45	35	27
24	21	22	19	282	46	79	154	93	59	43	31	27
25	22	22	19	90	41	108	102	100	57	40	28	27
26	22	22	18	68	43	68	92	89	54	38	28	28
27	22	22	18	85	111	57	82	126	53	37	27	52
28	22	22	18	58	176	54	79	118	52	37	27	129
29	22	21	18	53	72	54	343	134	51	49	27	51
30	22	20	19	48	---	51	300	98	50	56	26	38
31	23	---	19	43	---	50	---	87	---	44	27	---
TOTAL	782	862	560	2194	1384	1768	2896	4328	2411	1557	964	1002
MEAN	25.2	28.7	18.1	70.8	47.7	57.0	96.5	140	80.4	50.2	31.1	33.4
MAX	75	91	22	370	176	108	377	422	203	183	39	129
MIN	20	20	14	16	32	43	45	87	50	37	26	25
CFSM	.69	.79	.49	1.93	1.30	1.56	2.64	3.81	2.20	1.37	.85	.91
IN.	.79	.88	.57	2.23	1.41	1.80	2.94	4.40	2.45	1.58	.98	1.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	1994	1995	1996	1994	1995	1996	1994	1995	1996	1994	1995	1996
MEAN	19.3	21.3	29.8	48.1	41.2	45.7	67.4	85.5	54.9	36.2	29.7	24.0
MAX	25.2	28.7	56.6	70.8	58.7	57.0	96.5	140	80.4	50.2	41.3	33.4
(WY)	1996	1996	1994	1996	1994	1996	1996	1996	1996	1996	1995	1996
MIN	13.3	14.0	14.6	15.9	17.1	31.4	45.4	36.8	25.5	20.6	16.6	14.6
(WY)	1995	1995	1995	1995	1995	1995	1995	1994	1994	1994	1994	1994

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1994 - 1996

ANNUAL TOTAL	12931.4	20708	
ANNUAL MEAN	35.4	56.6	44.8
HIGHEST ANNUAL MEAN			56.6
LOWEST ANNUAL MEAN			32.9
HIGHEST DAILY MEAN	405	422	507
LOWEST DAILY MEAN	7.2	14	7.2
ANNUAL SEVEN-DAY MINIMUM	7.7	15	7.7
INSTANTANEOUS PEAK FLOW		851	851
INSTANTANEOUS PEAK STAGE		7.05	7.05
INSTANTANEOUS LOW FLOW		14	5.0
ANNUAL RUNOFF (CFSM)	.97	1.55	1.22
ANNUAL RUNOFF (INCHES)	13.14	21.05	16.62
10 PERCENT EXCEEDS	61	113	82
50 PERCENT EXCEEDS	25	40	31
90 PERCENT EXCEEDS	15	20	14

e Estimated

GREAT MIAMI RIVER BASIN

03267000 MAD RIVER NEAR URBANA, OH

LOCATION.--Lat 40°06'27", long 83°47'57", on west line of sec. 35, T.5 E., R. 11 N., Champaign County, Hydrologic Unit 05080001, on left bank at downstream side of bridge on U.S. Highway 36, 1.8 mi upstream from Dugan Run, 1.8 mi downstream from Muddy Creek, 2.5 mi west of Urbana, and at mile 39.7.

DRAINAGE AREA.--162 mi².

PERIOD OF RECORD.--September 1925 to September 1931, August 1939 to current year.

REVISED RECORDS.--WSP 1305: 1930(M), WSP 1505: 1956. WSP 1625: 1929. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 985.22 ft above sea level. Prior to May 18, 1930, nonrecording gage at same site and datum. May 18, 1930, to Sept. 30, 1931, nonrecording gage at site 600 ft downstream at datum 0.36 ft lower. Aug. 1 to Sept. 25, 1939, nonrecording gage at present site and datum.

REMARKS.--Records fair, except for periods of estimated record, which are poor. Sediment data collected at this site. COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	129	110	e94	e220	338	e430	756	337	191	164	115
2	112	114	110	e105	e210	313	e270	633	330	190	160	114
3	115	109	108	e94	e200	273	262	551	324	180	153	113
4	126	108	107	e90	e190	253	242	634	317	171	148	112
5	205	107	106	e88	e185	257	234	727	310	170	147	111
6	327	111	104	e84	e180	395	226	801	302	166	146	107
7	190	113	102	e83	e170	359	228	583	374	164	149	108
8	161	106	e100	e82	187	280	224	580	518	163	155	109
9	144	106	e96	e80	212	255	216	962	391	159	151	108
10	141	243	e94	e80	196	243	209	676	410	155	148	112
11	143	245	e98	e79	205	237	205	1560	366	150	146	116
12	143	180	102	e78	185	236	203	1170	597	154	146	105
13	142	156	106	e78	170	233	201	714	416	159	151	97
14	134	148	112	e77	170	234	201	595	356	160	153	97
15	128	133	107	e77	167	238	199	619	340	201	151	97
16	127	129	101	e150	160	227	232	797	359	177	148	106
17	125	132	99	e500	155	219	240	845	313	168	142	123
18	122	129	e98	979	151	212	224	596	291	465	142	108
19	120	126	e92	1370	146	210	218	510	304	321	142	103
20	118	125	e89	547	150	350	444	457	279	230	140	102
21	115	123	e87	423	186	295	404	418	266	208	140	102
22	114	123	e85	361	175	269	307	390	253	204	137	106
23	114	122	e84	396	175	249	858	364	238	194	145	102
24	112	121	e84	1130	187	274	924	351	240	188	150	102
25	115	118	e83	547	177	398	525	366	233	182	136	99
26	114	118	e82	429	171	300	444	339	219	176	128	97
27	115	118	e82	444	539	e260	388	351	214	170	125	113
28	115	112	e82	350	806	e250	354	480	205	164	122	274
29	117	112	e84	313	436	e240	1150	567	201	162	119	165
30	118	112	e87	e270	---	e240	1340	452	199	189	120	130
31	133	---	e90	e240	---	e230	---	370	---	171	117	---
TOTAL	4222	3928	2971	9718	6461	8367	11602	19214	9502	5902	4421	3453
MEAN	136	131	95.8	313	223	270	387	620	317	190	143	115
MAX	327	245	112	1370	806	398	1340	1560	597	465	164	274
MIN	112	106	82	77	146	210	199	339	199	150	117	97
CFSM	.84	.81	.59	1.94	1.38	1.67	2.39	3.83	1.96	1.18	.88	.71
IN.	.97	.90	.68	2.23	1.48	1.92	2.66	4.41	2.18	1.36	1.02	.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 1996, BY WATER YEAR (WY)

	MEAN	84.8	102	129	174	201	224	222	189	161	135	102	86.1
MAX	355	315	473	730	523	567	486	620	507	454	302	250	
(WY)	1987	1973	1991	1950	1950	1963	1948	1996	1947	1993	1995	1926	
MIN	29.3	29.7	27.8	36.7	33.8	65.3	90.7	61.7	59.3	41.8	35.8	30.3	
(WY)	1964	1964	1964	1964	1964	1992	1953	1941	1962	1954	1963	1963	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1926 - 1996

ANNUAL TOTAL	60026	89761	
ANNUAL MEAN	164	245	
HIGHEST ANNUAL MEAN			151
LOWEST ANNUAL MEAN			245
HIGHEST DAILY MEAN	2290	Aug 8	58.1
LOWEST DAILY MEAN	52	Jan 7	1996
ANNUAL SEVEN-DAY MINIMUM	53	Jan 4	1954
INSTANTANEOUS PEAK FLOW			5740
INSTANTANEOUS PEAK STAGE			24
INSTANTANEOUS LOW FLOW			25
ANNUAL RUNOFF (CFSM)	1.02		8000
ANNUAL RUNOFF (INCHES)	13.78		12.05
10 PERCENT EXCEEDS	260		24
50 PERCENT EXCEEDS	129		.93
90 PERCENT EXCEEDS	80		12.63

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

GREAT MIAMI RIVER BASIN

159

03269500 MAD RIVER NEAR SPRINGFIELD, OH

LOCATION.--Lat 39°55'23", long 83°52'13", in NW 1/4 sec. 16, R.9, T.4, Clark County, Hydrologic Unit 05080001, on right bank 150 ft downstream from Rock Run, 300 ft downstream from bridge on Lower Valley Pike, 2 mi downstream from Buck Creek, 3 mi west of Springfield, and at mile 24.1.

DRAINAGE AREA.--490 mi².

PERIOD OF RECORD.--January 1904 to March 1906 (fragmentary), February 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 603: 1924. WSP 823: 1929(M). WSP 1305: 1914(M), 1916-17(M), 1922-23(M), 1925(M). WSP 1625: 1924(M). WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 881.42 ft above sea level. Jan. 1, 1904, to Mar. 31, 1906, nonrecording gage at site 0.3 mi downstream at different datum. Feb. 1, 1914, to Feb. 29, 1924, nonrecording gage at site 1.8 mi upstream at datum 6.39 ft higher. Mar. 1, 1924, to July 31, 1925, nonrecording gage at site 300 ft upstream at same datum.

REMARKS.--Records excellent, except those for estimated periods, which are poor. Some regulation by C.J. Brown Reservoir, 8.3 mi upstream on Buck Creek, since 1972. Occasional low-flow regulation by powerplant 2.3 mi upstream; daily flows are not affected appreciably. Water-quality data collected at this site.

COOPERATION.--Gage-height charts, tapes, and 9 discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,500 ft³/s Jan. 21, 1959, gage height, 15.76 ft, from rating curve extended above 14,000 ft³/s on basis of slope-area and contracted opening measurements of peak flow; minimum daily discharge, 30 ft³/s Sept. 15, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 16.9 ft, present datum; discharge, 55,400 ft³/s computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	393	371	281	e320	e540	1030	870	2400	958	611	915	267
2	396	415	273	451	e510	762	951	2080	986	603	669	263
3	533	388	272	418	e490	655	746	1680	1290	592	484	265
4	461	370	272	e350	e470	601	671	2520	1480	576	462	269
5	1070	367	279	e320	e450	718	639	2780	1200	567	446	269
6	1220	367	276	e290	e430	1250	607	2580	1190	553	432	268
7	675	430	272	e270	e420	1160	590	1930	2240	580	416	270
8	544	383	269	e260	575	951	562	2410	2350	800	414	271
9	495	335	267	e250	623	644	538	4710	1470	538	404	280
10	466	315	247	e250	570	593	516	2060	1890	442	393	262
11	443	1050	e230	e240	601	576	474	5750	1730	420	386	255
12	429	980	e230	e240	552	574	464	3720	2010	401	382	251
13	416	626	e230	e230	515	573	466	2300	1300	400	374	249
14	415	531	e220	e230	516	582	465	1980	1800	382	365	280
15	409	481	e220	e230	487	694	514	2280	1620	841	357	312
16	403	447	e220	e260	453	618	579	2270	1280	501	353	508
17	396	411	e220	e1000	442	570	555	2220	986	447	348	483
18	378	422	e300	3370	435	540	514	1960	1020	2180	342	371
19	385	411	475	4890	431	738	565	1820	1070	1210	335	354
20	404	395	431	1520	506	1370	1330	1670	964	827	312	348
21	390	380	e360	1370	557	1030	1050	1600	880	722	284	364
22	385	350	e320	1380	531	950	771	1390	829	692	279	381
23	381	337	e290	1620	542	753	2780	1040	787	541	277	307
24	382	324	e265	3860	555	870	2590	1060	795	523	320	302
25	376	320	e260	1880	517	990	1390	1020	761	494	300	296
26	377	319	e260	1500	529	760	1160	969	722	448	294	307
27	393	319	e260	1220	1940	651	1000	1270	676	461	287	538
28	376	311	e250	963	2420	620	978	1340	643	675	285	1140
29	378	302	e250	e780	1410	590	6050	1760	646	864	281	630
30	364	296	e250	e660	---	555	4830	1530	639	1170	277	487
31	364	---	e260	e600	---	537	---	1200	---	1010	272	---
TOTAL	14497	12753	8509	31222	19017	23505	35215	65299	36212	21071	11745	10847
MEAN	468	425	274	1007	656	758	1174	2106	1207	680	379	362
MAX	1220	1050	475	4890	2420	1370	6050	5750	2350	2180	915	1140
MIN	364	296	220	230	420	537	464	969	639	382	272	249
CFSM	.95	.87	.56	2.06	1.34	1.55	2.40	4.30	2.46	1.39	.77	.74
IN.	1.10	.97	.65	2.37	1.44	1.78	2.67	4.96	2.75	1.60	.89	.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

	MEAN	363	441	548	592	693	723	727	685	579	511	367	337
MAX	1081	904	1583	1177	1409	1279	1174	2106	1371	1284	947	1279	
(WY)	1987	1986	1991	1991	1975	1978	1996	1996	1980	1993	1979	1979	
MIN	176	204	188	189	235	251	312	240	174	189	162	177	
(WY)	1989	1978	1977	1977	1992	1983	1976	1988	1988	1988	1988	1977	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1974 - 1996
ANNUAL TOTAL	179851	289892	
ANNUAL MEAN	493	792	546
HIGHEST ANNUAL MEAN			792
LOWEST ANNUAL MEAN			279
HIGHEST DAILY MEAN	6000	Aug 8	8200
LOWEST DAILY MEAN	150	Jan 5	100
ANNUAL SEVEN-DAY MINIMUM	154	Jan 3	103
INSTANTANEOUS PEAK FLOW			12200
INSTANTANEOUS PEAK STAGE			10.87
INSTANTANEOUS LOW FLOW			220
ANNUAL RUNOFF (CFSM)	1.01	1.62	1.11
ANNUAL RUNOFF (INCHES)	13.65	22.01	15.15
10 PERCENT EXCEEDS	777	1690	1010
50 PERCENT EXCEEDS	393	514	394
90 PERCENT EXCEEDS	230	269	220

e Estimated

GREAT MIAMI RIVER BASIN

03270000 MAD RIVER NEAR DAYTON, OH

LOCATION.--Lat 39°47'50", long 84°05'19", in SW 1/4 sec. 7, R. 8, T.2, Green County, Hydrologic Unit 05080001, on left bank in retarding basin 300 ft upstream from Huffman Dam, 2.3 mi downstream from Mud Run, 6.2 mi northeast of Dayton and at mile 6.1. Water-quality sampling site was on left bank 900 ft downstream.

DRAINAGE AREA.--635 mi².

PERIOD OF RECORD.--October 1914 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 453: 1915. WSP 743: 1929-32. WSP 1305: 1916(M), 1925(M) 1930-32(M). WSP 1908: Drainage area. WDR-OH-82-1: 1980.

GAGE.--Water-stage recorder. Datum of gage is 777.06 ft above sea level. Jan. 21, 1959, to Dec. 14, 1967, at site 900 ft downstream, at datum 77.01 ft lower. See WSP 1725 for history of changes prior to Jan. 21, 1959. Water-quality data collected at this site 1947-1948, 1962-1963, 1966-1980.

REMARKS.--Records excellent, except for periods of estimated record, which are poor. Flood flows affected by backwater from Huffman retarding dam beginning in 1921, some regulation by C. J. Brown Reservoir 26 mi upstream on Buck Creek since 1974. Also see REMARKS for station 03269500.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,200 ft³/s Jan. 22, 1959 (based on Huffman retarding basin outflow records); maximum gage height, 87.9 ft Feb. 26, 1929, at site and datum then in use; minimum daily discharge, 94 ft³/s Aug. 6, 1934, but may have been less during period 1921-24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of March 25, 1913, reached a stage of 14.0 ft, original site and datum; discharge 75,700 ft³/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	338	379	347	415	e740	1370	1190	4030	1240	747	1060	322
2	338	439	341	585	e700	968	1390	3000	1240	708	892	317
3	440	430	336	e500	e640	822	1040	2380	1530	703	614	316
4	453	397	332	e440	e600	741	913	3330	2530	691	573	316
5	958	386	329	e400	e580	813	883	4170	1650	680	551	316
6	1670	382	329	e380	e540	1620	814	3740	1550	671	528	305
7	841	440	329	e360	e540	1540	794	2730	2720	671	515	302
8	643	430	329	e350	663	1270	750	3470	3940	1040	498	302
9	576	376	327	e340	783	842	721	5940	2410	761	494	318
10	537	348	282	e340	699	756	690	3320	2540	606	475	312
11	509	937	e280	e330	716	723	646	5160	2290	570	467	305
12	490	1370	e270	e320	679	717	614	7080	2940	551	458	300
13	473	776	e270	e310	618	710	616	3450	1890	540	450	298
14	460	634	e270	e310	621	708	629	2750	1880	522	440	300
15	450	568	e260	e300	601	936	663	2790	2680	1270	432	358
16	433	528	e260	e300	563	835	779	3300	1820	790	428	479
17	419	487	e260	1840	540	750	737	3000	1310	714	419	763
18	413	481	e350	4270	533	698	686	2620	1280	2540	414	467
19	384	482	631	5920	530	869	717	2310	1580	1840	405	433
20	404	462	e560	2630	568	1960	1650	2100	1340	1090	399	416
21	419	446	e480	1760	658	1450	1540	1990	1150	905	360	432
22	404	422	e420	1750	636	1310	1040	1830	1070	892	351	511
23	397	408	e380	1870	642	1040	2730	1330	993	706	342	387
24	388	389	e330	4790	660	1110	4260	1420	977	664	393	369
25	381	381	e310	2800	635	1240	2000	1300	952	678	362	359
26	379	382	e310	2080	647	1010	1580	1220	878	577	352	356
27	394	379	e310	1660	1890	844	1310	1650	842	541	344	703
28	396	376	e310	1320	3180	794	1250	2000	787	649	338	1610
29	398	365	e300	e1100	1870	836	5680	2320	771	896	334	966
30	390	359	e300	e900	---	759	8510	2070	764	1300	331	676
31	381	---	e300	e800	---	727	---	1630	---	1350	329	---
TOTAL	15556	14639	10442	41470	23272	30768	46822	89430	49544	26863	14348	13614
MEAN	502	488	337	1338	802	993	1561	2885	1651	867	463	454
MAX	1670	1370	631	5920	3180	1960	8510	7080	3940	2540	1060	1610
MIN	338	348	260	300	530	698	614	1220	764	522	329	298
CFSM	.79	.77	.53	2.11	1.26	1.56	2.46	4.54	2.60	1.36	.73	.71
IN.	.91	.86	.61	2.43	1.36	1.80	2.74	5.24	2.90	1.57	.84	.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 1996, BY WATER YEAR (WY)

	MEAN	440	551	706	768	904	957	956	899	729	637	457	409
MAX	1425	1175	2027	1559	1839	1637	1561	2885	1745	1525	1235	1528	
(WY)	1987	1986	1991	1991	1975	1978	1996	1996	1981	1993	1979	1979	
MIN	216	235	236	239	287	344	444	268	192	211	172	217	
(WY)	1989	1995	1977	1977	1992	1983	1976	1988	1988	1988	1988	1987	

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1974 - 1996	
ANNUAL TOTAL	231656		376768			
ANNUAL MEAN	635		1029		700	
HIGHEST ANNUAL MEAN					1029	
LOWEST ANNUAL MEAN					336	
HIGHEST DAILY MEAN	5340	Aug 9	8510	Apr 30	10300	Feb 24 1975
LOWEST DAILY MEAN	150	Jan 3	260	Dec 15	112	Jul 17 1988
ANNUAL SEVEN-DAY MINIMUM	177	Jan 1	267	Dec 11	124	Jul 11 1988
INSTANTANEOUS PEAK FLOW			9380	Apr 30	11400	Feb 24 1975
INSTANTANEOUS PEAK STAGE			16.79	Apr 30	19.01	Feb 24 1975
INSTANTANEOUS LOW FLOW			260	Dec 15	112	Jul 17 1988
ANNUAL RUNOFF (CFSM)	1.00		1.62		1.10	
ANNUAL RUNOFF (INCHES)	13.57		22.07		14.98	
10 PERCENT EXCEEDS	1210		2340		1310	
50 PERCENT EXCEEDS	461		646		498	
90 PERCENT EXCEEDS	296		329		256	

e Estimated

03270500 GREAT MIAMI RIVER AT DAYTON, OH

LOCATION.--Lat 39°45'55", long 84°11'51", in sec. 10, R.7, T.1, Montgomery County, Hydrologic Unit 05080002, on left bank 1,000 ft downstream from Main Street Bridge in Dayton, 0.7 mi upstream from Wolf Creek, 0.8 mi downstream from Mad River, and at mile 80.0.

DRAINAGE AREA.--2,511 mi².

PERIOD OF RECORD.--April to September 1905, January to September 1906, January 1907 to December 1909 (gage heights only), April 1913 to current year. Monthly discharge only for October 1919 to September 1921, published in WSP 1305. Gage-height records collected at Main Street Bridge since January 1892 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Dayton.

REVISED RECORDS.--WSP 1385: 1917. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above sea level as requested by cooperator (699.71 ft adjustment of 1929). Prior to Oct. 1, 1921, nonrecording gage at Main Street Bridge at datum 23.73 ft higher.

Oct. 1, 1921, to July 24, 1931, nonrecording gage at Main Street Bridge at datum 21.00 ft higher.

REMARKS.--Records good except estimated discharges, which are poor. Flood flow regulated by four retarding basins upstream from station beginning in 1920 on Mad River 6.5 mi upstream, on Stillwater River 10.5 mi upstream, on Great Miami River 11.5 mi upstream, and on Loramie Creek 40 mi upstream. Also see REMARKS for stations 03261500, 03261950 and 03269500. Water is diverted 6 mi upstream from station for use in Dayton; much of the flow is diverted to the Little Miami River Basin through the Dayton sewer systems. Sediment data collected at this site. U.S. Army Corps of Engineers satellite telemeter at station.

COOPERATION.--Gage-height charts, tapes, and 7 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 26, 1913, reached a stage of 29.0 ft, site and datum then in use; discharge, 250,000 ft³/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	521	700	917	e1000	2300	8220	4820	24600	4300	1580	1780	448
2	491	852	889	1660	e2000	4780	8500	18800	3640	1490	1520	436
3	794	1310	874	1810	e1700	3490	5430	14200	3980	1410	1150	426
4	811	1930	858	e1400	e1500	2580	3930	14300	5210	1360	1060	448
5	2380	1540	833	e1200	e1400	2550	3260	16800	4810	1310	995	477
6	8230	1200	820	e1200	e1400	4830	2890	16400	4360	1270	956	467
7	7620	1230	794	e1100	e1500	6380	2590	13500	7750	1250	901	457
8	3870	2090	776	e1000	e1700	4260	2360	12700	11200	1980	859	444
9	2470	1990	747	e980	2130	2800	2180	19200	8910	1500	815	502
10	1750	1490	e500	e920	2170	2340	2050	15200	11500	1200	782	557
11	1380	3810	e490	e900	2180	2170	1920	18600	10300	1060	773	526
12	1170	11800	e490	e860	2150	2050	1820	24200	11900	977	729	503
13	1070	7350	e560	e860	1800	2080	1770	14400	8830	943	734	474
14	985	4590	e700	e960	1720	2100	1720	9740	6570	918	714	445
15	921	3410	823	e1200	1640	2800	1780	7540	8980	2110	698	484
16	884	2640	805	1210	1500	2560	1920	10000	5250	1470	675	828
17	865	2070	760	5730	1390	2280	1840	9390	3810	1220	652	1410
18	843	1900	1010	19400	1340	2060	1780	8500	3320	5880	635	857
19	796	2470	1570	27400	1330	2400	1760	6820	3570	8150	629	775
20	799	2160	1630	25400	1440	5780	4870	5570	3210	4760	623	675
21	831	1880	1580	21400	1530	6600	7200	4760	2700	3350	590	670
22	913	1660	1440	15300	1590	5930	4400	4100	2480	2920	548	995
23	843	1490	1210	12900	1780	4860	9290	3260	2270	2430	522	701
24	787	1310	1130	19400	2050	4970	21000	3530	2190	2010	649	641
25	745	1240	1050	18600	2170	8660	17500	3360	2120	1850	577	621
26	720	1160	e880	13100	2160	8930	12700	4060	2170	1480	569	641
27	753	1120	e800	8740	7180	5180	8520	5190	1960	1300	555	1390
28	746	1110	e760	6330	16600	3640	5660	8730	1790	1240	533	3560
29	741	1040	e740	4780	13700	3320	18700	9490	1700	1460	511	2150
30	733	984	e720	4040	---	2880	29800	8920	1630	2020	487	1460
31	709	---	e700	2940	---	2670	---	5960	---	2450	469	---
TOTAL	47171	69526	27856	223720	83050	126150	193960	341820	152410	64348	23690	24468
MEAN	1522	2318	899	7217	2864	4069	6465	11030	5080	2076	764	816
MAX	8230	11800	1630	27400	16600	8930	29800	24600	11900	8150	1780	3560
MIN	491	700	490	860	1330	2050	1720	3260	1630	918	469	426

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 1996, BY WATER YEAR (WY)

	MEAN	708	1356	2114	3302	3431	4124	3940	2726	2132	1489	944	608
MAX	5792	8047	9210	17060	9842	11060	9727	11030	12150	7510	5727	2862	
(WY)	1987	1973	1991	1937	1950	1963	1964	1996	1958	1993	1979	1979	
MIN	148	195	239	263	314	557	852	373	259	216	196	164	
(WY)	1964	1964	1964	1945	1964	1941	1971	1941	1988	1954	1988	1963	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1930 - 1996

ANNUAL TOTAL	908756	1378169		
ANNUAL MEAN	2490	3765		
HIGHEST ANNUAL MEAN			4156	1973
LOWEST ANNUAL MEAN			634	1954
HIGHEST DAILY MEAN	31300	Aug 10	29800	Apr 30
LOWEST DAILY MEAN	220	Jan 5	426	Sep 3
ANNUAL SEVEN-DAY MINIMUM	284	Jan 4	451	Sep 2
INSTANTANEOUS PEAK FLOW			30600	Apr 30
INSTANTANEOUS PEAK STAGE			31.60	Apr 30
INSTANTANEOUS LOW FLOW			406	Sep 3
10 PERCENT EXCEEDS	5610		9560	5130
50 PERCENT EXCEEDS	1310		1750	1010
90 PERCENT EXCEEDS	566		641	312

e Estimated

GREAT MIAMI RIVER BASIN

03271000 WOLF CREEK AT DAYTON, OH

LOCATION.--Lat 39°46'00", long 84°14'10", Montgomery County, Hydrologic Unit 05080002, on right bank, at West Riverview Avenue Bridge, in Dayton, 1.8 mi upstream from mouth.

DRAINAGE AREA.--68.7 mi².

PERIOD OF RECORD.--September 1938 to September 1950, October 1953 to September 1973 (low-flow partial-records site), October 1986 to current year (discontinued).

REVISED RECORDS.--WRD Ohio 1990: 1989 (p).

GAGE.--Water-stage recorder. Datum of gage is 739.83 ft above sea level. Prior to 1950, recording gage at same location at datum 39.83 ft lower.

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

COOPERATION.--Gage-height tapes and 7 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge during flood in January 1959, about 12,800 ft³/s at gage height 13.1 ft, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	21	22	87	e34	88	689	341	90	33	23	12
2	14	40	22	143	e32	76	319	223	95	31	20	12
3	65	22	21	96	e31	59	165	188	243	30	19	13
4	25	17	19	70	e29	50	120	1260	177	29	17	18
5	410	16	17	55	e28	114	94	590	130	28	16	14
6	104	15	15	e45	e27	318	83	396	135	27	15	12
7	41	37	13	e40	e26	179	76	235	973	32	14	11
8	28	22	e12	e37	e50	89	68	622	363	43	14	13
9	22	18	e11	e36	61	66	61	395	1150	28	14	17
10	19	19	e10	e35	53	57	57	215	584	24	14	14
11	17	311	e9.6	e34	57	56	54	1660	344	22	13	12
12	16	106	e9.0	e32	43	56	51	377	432	22	13	12
13	17	60	e8.8	e31	37	57	57	208	179	22	13	12
14	16	47	e8.4	e30	40	59	54	144	192	21	12	12
15	16	40	e8.0	e30	37	260	75	301	125	126	13	12
16	16	34	e7.8	e50	33	126	79	233	89	31	13	110
17	16	33	e7.6	1120	31	90	59	162	74	28	13	64
18	15	38	e30	1180	30	73	55	126	75	85	12	20
19	16	33	265	996	32	446	59	103	70	36	12	16
20	22	32	128	201	49	513	533	86	59	27	12	13
21	20	30	78	117	48	245	160	103	56	28	12	45
22	16	28	e52	88	51	187	103	70	50	45	17	61
23	15	26	e38	356	60	178	1020	68	48	28	12	19
24	17	25	e30	704	60	208	314	206	54	31	30	16
25	15	24	e25	193	50	168	166	110	51	45	13	13
26	15	23	e24	e100	101	101	132	102	40	25	12	27
27	24	25	e23	e80	428	80	91	708	38	21	11	247
28	18	23	e22	e68	461	75	220	578	37	19	12	340
29	16	20	e21	e54	129	121	3530	582	35	24	11	62
30	16	20	e20	e45	---	94	843	175	34	57	12	36
31	16	---	e20	e36	---	85	---	116	---	37	12	---
TOTAL	1097	1205	997.2	6189	2148	4374	9387	10683	6022	1085	446	1285
MEAN	35.4	40.2	32.2	200	74.1	141	313	345	201	35.0	14.4	42.8
MAX	410	311	265	1180	461	513	3530	1660	1150	126	30	340
MIN	14	15	7.6	30	26	50	51	68	34	19	11	11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 1996, BY WATER YEAR (WY)

	MEAN	17.0	32.2	55.8	94.8	102	112	129	95.3	69.3	37.3	23.1	16.7
MAX	116	115	367	365	251	280	313	345	299	152	155	98.1	
(WY)	1987	1994	1991	1950	1990	1945	1996	1996	1945	1990	1995	1950	
MIN	2.42	2.23	1.98	3.03	14.7	12.6	15.3	5.95	8.18	3.35	3.56	2.04	
(WY)	1945	1945	1945	1945	1944	1941	1941	1941	1988	1944	1948	1944	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1939 - 1996

ANNUAL TOTAL	24500.1	44918.2	
ANNUAL MEAN	67.1	123	65.2
HIGHEST ANNUAL MEAN			123
LOWEST ANNUAL MEAN			16.1
HIGHEST DAILY MEAN	1550	3530	3530
LOWEST DAILY MEAN	7.6	7.6	1.1
ANNUAL SEVEN-DAY MINIMUM	8.5	8.5	1.4
INSTANTANEOUS PEAK FLOW		7480	9950
INSTANTANEOUS PEAK STAGE		11.10	53.50
INSTANTANEOUS LOW FLOW		7.6	.80
10 PERCENT EXCEEDS	115	312	128
50 PERCENT EXCEEDS	26	39	21
90 PERCENT EXCEEDS	14	13	5.2

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

GREAT MIAMI RIVER BASIN

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03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH

WATER QUALITY RECORDS

LOCATION.--Lat 39°38'14", long 84°17'33", Montgomery County, Hydrologic Unit 05080002, on left bank at Miamisburg, 1.0 mi downstream from Bear Creek, 0.6 mi downstream from discharge station at Miamisburg, 0.65 mi downstream from discharge station below Miamisburg, and at mile 65.75.

DRAINAGE AREA.--2,713 mi².

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June 1978 to current year.

pH: June 1978 to current year.

WATER TEMPERATURES: June 1978 to current year.

DISSOLVED OXYGEN: June 1978 to current year.

INSTRUMENTATION.--Water-quality monitor since June 1978. Electronic data logger replaced digital recorder since June 19, 1991. Set for 1-hour interval.

REMARKS.--Interruptions in the water-quality record were due to malfunction of the instrument. Prior to June 1978, records published as 03271600, Great Miami River near Miamisburg, Ohio. See records of discharge for gaging station below Miamisburg (station 03271601).

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,620 microsiemens June 13, 1992; minimum 206 microsiemens Feb. 18, 1982.

pH: Maximum, 9.8 units Oct. 12, 1992; minimum, 7.0 units July 30, Aug. 30, 1979.

WATER TEMPERATURES: Maximum, 33.0°C July 20, 22, 1978; minimum, 0.0°C on many days during winters.

DISSOLVED OXYGEN: Maximum, >20.0 mg/L on several days in water year 1978-1994; minimum, 0.4 mg/L Aug. 27, 1981, Aug. 2, 1982.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 1,220 microsiemens Jan. 16; minimum, 249 microsiemens May 8.

pH: Maximum, 9.0 units Aug. 31 and Sept. 1-3; minimum, 7.3 units Oct. 7 and Aug. 24, 25.

WATER TEMPERATURES: Maximum, 30.5°C Aug. 6; minimum, 0.5°C on several days during winter.

DISSOLVED OXYGEN: Maximum, 20.0 mg/L Aug. 14 and Sept. 3, 5; minimum, 4.6 mg/L Aug. 26.

GREAT MIAMI RIVER BASIN

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	963	907	934	915	872	900	878	852	869	601	573	583
2	953	901	929	898	849	879	885	866	877	630	601	611
3	947	695	863	851	762	819	885	869	880	655	630	639
4	794	682	732	807	767	793	886	872	881	670	652	658
5	792	323	596	813	771	801	903	878	891	669	607	633
6	550	405	488	785	771	779	898	882	888	832	601	772
7	504	442	468	773	715	744	886	859	874	817	795	807
8	554	499	524	732	708	716	868	850	858	878	816	843
9	612	554	579	722	701	713	871	855	862	962	841	883
10	682	612	642	737	719	725	895	863	880	914	841	865
11	722	682	706	755	522	622	925	895	905	877	838	852
12	761	722	750	597	465	516	929	917	922	915	867	888
13	792	758	784	546	482	517	1070	914	964	934	888	907
14	815	783	807	601	546	570	1070	921	981	1100	894	956
15	842	802	829	653	601	627	1060	950	996	1200	1060	1120
16	847	821	838	687	653	665	951	926	937	1220	1040	1090
17	872	844	861	712	687	697	951	907	922	1210	791	1090
18	884	862	876	737	712	725	919	750	854	791	405	523
19	890	867	881	747	725	735	823	671	751	405	318	354
20	890	855	878	761	736	748	828	726	775	319	314	316
21	885	848	868	761	742	750	870	811	844	356	318	332
22	869	846	860	766	745	755	850	825	835	422	356	391
23	877	845	859	784	766	778	852	599	783	553	422	477
24	884	860	875	801	784	794	599	313	469	499	393	466
25	891	871	881	822	796	814	313	281	296	405	379	388
26	904	877	894	827	811	821	401	313	348	487	405	440
27	900	855	889	834	809	824	505	401	454	589	487	549
28	884	848	860	854	827	845	557	505	532	589	414	485
29	884	847	867	866	840	858	563	557	560	455	415	438
30	888	863	879	874	853	865	562	556	559	478	445	458
31	901	872	888	---	---	---	574	559	564	515	477	490
MONTH	963	323	793	915	465	746	1070	281	775	1220	314	655

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	510	495	502	522	483	509	728	669	705	398	343	369
2	531	469	514	---	---	---	669	588	624	474	395	418
3	612	469	545	---	---	---	640	596	614	511	442	479
4	587	483	549	---	---	---	676	640	666	515	340	458
5	---	---	---	---	---	---	---	---	---	509	454	479
6	---	---	---	---	---	---	---	---	---	487	374	455
7	---	---	---	---	---	---	---	---	---	477	366	424
8	---	---	---	---	---	---	---	---	---	481	249	382
9	---	---	---	---	---	---	---	---	---	447	304	366
10	---	---	---	---	---	---	---	---	---	511	338	424
11	---	---	---	---	---	---	747	717	738	485	335	409
12	---	---	---	---	---	---	765	727	746	411	307	346
13	768	751	758	---	---	---	765	739	749	532	397	468
14	794	768	776	784	775	782	756	728	743	584	532	561
15	811	792	797	815	752	777	757	707	740	601	477	556
16	---	---	---	762	741	751	758	712	733	597	543	566
17	---	---	---	758	740	750	765	741	754	594	569	584
18	---	---	---	---	---	---	775	749	760	593	577	586
19	---	---	---	---	---	---	776	737	758	633	593	614
20	---	---	---	---	---	---	778	575	630	662	633	647
21	---	---	---	---	---	---	606	535	579	676	651	663
22	---	---	---	---	---	---	659	600	628	694	676	686
23	---	---	---	---	---	---	666	442	549	733	687	706
24	---	---	---	---	---	---	492	369	392	736	628	688
25	832	804	814	---	---	---	452	395	423	714	676	696
26	811	789	801	---	---	---	520	452	479	715	632	698
27	802	626	767	---	---	---	590	520	560	665	358	550
28	626	427	467	597	562	568	615	456	590	581	491	548
29	483	424	449	639	522	574	456	318	360	561	467	529
30	---	---	---	621	454	519	349	318	330	568	521	542
31	---	---	---	---	---	---	---	---	---	608	568	583
MONTH	832	424	645	815	454	654	778	318	619	736	249	532

GREAT MIAMI RIVER BASIN

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03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

SPECIFIC CONDUCTANCE, US/CM @ 25 DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	657	608	636	758	737	748	686	625	648	902	859	884
2	689	657	672	767	751	761	730	686	711	884	864	877
3	699	562	669	782	758	768	750	730	744	887	861	876
4	601	527	562	779	755	766	783	739	773	926	882	902
5	682	582	647	772	733	753	919	665	789	929	901	919
6	---	---	---	764	744	755	910	761	813	927	898	915
7	---	---	---	775	746	763	---	---	---	934	894	915
8	---	---	---	788	698	747	---	---	---	941	891	917
9	---	---	---	735	685	708	---	---	---	947	885	907
10	---	---	---	760	704	733	---	---	---	939	885	907
11	---	---	---	797	760	786	---	---	---	921	885	895
12	---	---	---	820	797	810	805	794	802	933	906	919
13	577	429	520	846	810	832	833	787	811	935	908	920
14	636	526	602	855	816	837	834	805	822	951	912	932
15	612	449	500	855	540	663	833	798	818	966	911	941
16	644	540	606	675	607	638	844	810	829	967	785	878
17	720	644	678	750	650	720	841	813	822	837	588	659
18	753	679	708	760	438	665	843	813	824	691	630	668
19	771	663	691	500	379	445	839	819	828	770	658	718
20	721	639	700	610	500	572	849	822	831	815	765	789
21	874	718	736	589	569	576	865	837	846	839	687	812
22	758	722	749	627	579	603	863	832	841	785	675	741
23	817	715	758	664	627	641	891	838	852	794	675	735
24	799	737	765	694	649	674	889	711	809	834	787	802
25	860	745	764	695	614	660	800	761	778	850	820	833
26	820	743	764	749	695	729	831	788	811	877	842	858
27	798	736	761	777	749	763	842	810	822	882	463	725
28	804	714	764	792	771	783	908	837	868	541	429	468
29	796	727	757	788	624	752	908	873	885	564	466	494
30	768	736	746	757	688	729	901	874	887	691	564	627
31	---	---	---	700	571	621	907	860	889	---	---	---
MONTH	874	429	685	855	379	710	919	625	814	967	429	814
YEAR	1220	249	711									

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.4	8.0	8.2	8.2	7.9	8.0	8.5	8.3	8.4	8.0	7.9	8.0
2	8.4	8.0	8.2	8.1	7.9	8.0	8.5	8.3	8.4	7.9	7.9	7.9
3	8.2	7.9	8.0	8.0	7.8	7.9	8.5	8.3	8.4	7.9	7.9	7.9
4	7.9	7.6	7.7	8.1	7.9	8.0	8.6	8.3	8.4	7.9	7.9	7.9
5	7.8	7.4	7.6	8.1	8.0	8.0	8.7	8.4	8.5	8.0	7.9	7.9
6	7.5	7.4	7.4	8.2	8.0	8.0	8.8	8.5	8.6	8.5	7.9	8.3
7	7.4	7.3	7.3	8.0	7.9	8.0	8.9	8.5	8.7	8.5	8.3	8.4
8	7.5	7.4	7.5	8.0	7.8	7.9	8.9	8.6	8.7	8.5	8.3	8.4
9	7.6	7.5	7.5	8.1	7.9	8.0	8.9	8.6	8.8	8.6	8.3	8.4
10	7.7	7.5	7.6	8.0	7.9	8.0	8.9	8.6	8.8	8.5	8.2	8.3
11	7.8	7.6	7.6	8.0	7.7	7.8	8.9	8.7	8.8	8.5	8.2	8.3
12	7.7	7.6	7.6	7.7	7.6	7.7	8.8	8.6	8.7	8.6	8.2	8.4
13	7.9	7.5	7.7	7.8	7.6	7.7	8.7	8.6	8.6	8.5	8.3	8.3
14	7.9	7.7	7.8	7.8	7.8	7.8	8.7	8.5	8.6	8.6	8.2	8.4
15	8.0	7.8	7.9	7.9	7.8	7.9	8.5	8.2	8.4	8.5	8.3	8.3
16	8.1	7.8	7.9	7.9	7.9	7.9	8.7	8.3	8.5	8.7	8.2	8.4
17	8.1	7.8	8.0	7.9	7.9	7.9	8.8	8.3	8.5	8.4	8.2	8.3
18	8.1	7.9	8.0	7.9	7.9	7.9	8.6	8.4	8.5	8.2	8.0	8.1
19	8.1	7.8	7.9	7.9	7.9	7.9	8.4	8.3	8.3	8.0	7.9	7.9
20	8.0	7.8	7.9	8.0	7.9	8.0	8.3	8.2	8.3	8.1	7.9	8.0
21	8.0	7.8	7.9	7.9	7.9	7.9	8.5	8.3	8.4	8.1	8.1	8.1
22	8.0	7.8	7.9	8.0	7.9	8.0	8.6	8.4	8.5	8.3	8.1	8.2
23	8.2	7.8	8.0	8.1	8.0	8.0	8.6	8.4	8.5	8.3	8.2	8.3
24	8.1	7.8	7.9	8.2	7.9	8.1	8.4	8.3	8.4	8.3	8.1	8.2
25	8.2	7.8	8.0	8.2	8.1	8.1	8.3	8.2	8.3	8.1	8.0	8.1
26	8.1	7.9	8.0	8.2	8.1	8.1	8.3	8.2	8.3	8.2	8.1	8.1
27	8.1	7.9	8.0	8.3	8.1	8.1	8.3	7.7	8.1	8.2	8.2	8.2
28	8.0	7.8	7.9	8.2	8.1	8.2	8.0	8.0	8.0	8.2	8.0	8.0
29	8.1	7.8	7.9	8.3	8.1	8.2	8.0	7.9	8.0	8.2	8.0	8.1
30	8.1	7.8	7.9	8.4	8.2	8.3	8.0	8.0	8.0	8.0	7.8	7.9
31	8.2	7.8	8.0	---	---	---	8.0	7.9	8.0	---	---	---
MONTH	8.4	7.3	7.8	8.4	7.6	8.0	8.9	7.7	8.4	8.7	7.8	8.2

GREAT MIAMI RIVER BASIN

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03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
OCTOBER				NOVEMBER			DECEMBER			JANUARY		
1	20.5	19.0	20.0	15.0	13.0	14.0	7.5	5.5	6.5	7.0	6.5	6.5
2	21.0	19.0	20.0	16.5	14.5	15.5	8.0	6.0	7.0	8.5	7.0	7.5
3	20.0	19.0	19.5	16.0	13.0	14.5	8.5	7.0	7.5	10.0	8.5	9.0
4	19.5	18.0	19.0	13.0	10.0	11.5	8.5	7.0	7.5	11.5	10.0	10.5
5	18.5	17.5	18.0	10.0	8.0	9.0	8.0	7.0	7.5	12.0	9.5	11.0
6	18.0	17.0	17.5	8.5	7.0	8.0	7.0	5.5	6.0	9.5	.5	2.5
7	17.0	16.5	16.5	9.0	7.5	8.5	5.5	4.5	5.0	.5	.5	.5
8	16.5	16.0	16.5	8.5	7.0	8.0	4.5	3.5	4.0	.5	.5	.5
9	17.0	16.0	16.5	7.0	6.0	6.0	4.0	1.5	3.0	1.0	.5	.5
10	17.5	16.0	16.5	7.0	6.0	6.0	1.5	.5	.5	1.5	.5	1.0
11	18.0	16.5	17.0	9.0	7.0	8.5	1.0	.5	.5	1.0	.5	1.0
12	19.0	17.0	18.0	8.0	6.0	7.0	1.5	1.0	1.5	1.5	.5	1.0
13	19.5	17.5	18.0	6.0	5.5	6.0	2.0	1.5	1.5	2.0	1.0	1.5
14	18.5	17.0	18.0	5.5	5.5	5.5	5.0	2.0	3.5	3.5	2.0	2.5
15	17.0	15.0	16.0	5.5	5.0	5.0	4.5	3.5	4.0	3.0	2.0	2.5
16	16.0	14.0	14.5	5.0	4.5	5.0	5.5	4.0	5.0	3.0	2.0	2.5
17	15.5	13.5	14.0	5.0	4.5	5.0	5.0	4.0	4.5	4.0	3.0	3.5
18	16.0	13.5	14.5	6.0	5.0	6.0	5.0	4.0	4.5	4.5	2.0	3.0
19	17.0	14.5	15.5	7.0	6.0	6.5	4.5	2.5	3.5	4.5	2.5	3.5
20	16.5	15.0	16.0	7.5	6.5	7.0	2.5	1.0	1.5	2.5	1.5	1.5
21	15.0	12.5	14.0	7.0	6.0	6.5	1.5	1.0	1.5	1.5	1.0	1.5
22	13.5	12.0	12.5	6.5	5.5	6.0	2.0	1.0	1.5	2.0	1.5	1.5
23	14.5	12.0	13.0	6.0	5.5	6.0	4.5	1.0	2.0	3.0	2.0	2.5
24	14.5	13.5	14.0	6.0	5.0	5.5	5.5	3.0	4.5	3.5	3.0	3.0
25	15.0	13.0	14.0	5.5	5.0	5.0	3.0	1.0	2.0	3.0	2.0	2.5
26	14.0	12.5	13.5	6.0	4.5	5.5	1.5	1.0	1.0	3.0	2.0	2.0
27	13.5	13.0	13.0	7.5	5.5	6.5	3.5	1.5	2.0	3.0	3.0	3.0
28	13.0	12.5	13.0	7.5	7.0	7.5	7.0	3.5	5.0	3.0	2.5	3.0
29	13.5	12.0	12.5	7.5	6.0	6.5	7.5	7.0	7.5	4.0	3.0	3.5
30	13.0	12.0	12.5	7.0	5.5	6.0	7.5	7.0	7.0	4.0	3.0	3.5
31	13.5	12.5	13.0	---	---	---	7.0	7.0	7.0	3.0	2.5	2.5
MONTH	21.0	12.0	15.5	16.5	4.5	7.5	8.5	.5	4.0	12.0	.5	3.0

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
FEBRUARY			MARCH			APRIL			MAY			
1	2.5	2.0	2.0	4.5	3.5	4.0	11.0	8.5	9.0	12.0	11.5	11.5
2	2.0	1.5	2.0	4.0	4.0	4.0	9.0	7.5	8.5	12.5	11.5	12.0
3	2.5	1.0	1.5	4.0	2.5	3.5	11.0	8.0	9.5	14.0	12.5	13.0
4	2.5	1.5	2.0	3.5	3.0	3.5	11.0	10.5	11.0	15.0	13.5	14.5
5	2.5	.5	1.0	6.5	3.5	5.0	10.5	9.5	10.0	14.5	13.5	14.0
6	1.5	.5	.5	6.5	5.5	6.0	9.5	8.5	9.0	14.0	13.0	13.5
7	1.5	1.0	1.0	5.5	3.5	4.5	8.5	8.0	8.0	13.5	13.0	13.0
8	4.0	1.5	3.0	3.5	2.5	3.0	9.5	8.0	8.5	14.0	13.0	13.5
9	4.5	3.5	4.0	3.0	2.0	2.5	9.0	8.0	8.5	17.0	14.0	15.5
10	6.0	4.0	5.0	4.5	2.5	3.5	9.5	7.5	8.5	18.0	17.0	17.5
11	6.5	5.0	6.0	6.0	4.0	5.0	11.5	9.0	10.5	17.5	14.5	16.5
12	5.0	3.5	4.5	8.0	6.0	7.0	14.5	11.5	13.0	14.5	13.0	13.5
13	3.5	2.0	2.5	9.0	7.5	8.0	15.5	14.0	15.0	13.5	12.5	13.0
14	3.5	2.0	3.0	9.5	8.0	9.0	14.5	13.0	14.0	14.0	12.5	13.5
15	3.5	3.0	3.5	11.5	9.5	10.5	13.5	12.5	13.0	14.0	13.5	14.0
16	4.0	3.0	3.0	11.0	10.5	10.5	12.5	10.5	11.5	14.5	13.5	14.0
17	3.0	2.0	2.5	10.5	10.0	10.0	12.5	10.5	11.5	16.5	14.0	15.0
18	3.0	1.5	2.0	10.5	9.5	10.0	14.0	11.5	13.0	19.5	16.0	18.0
19	3.0	2.0	3.0	10.0	7.5	8.5	17.0	14.0	15.5	21.0	19.0	20.0
20	5.0	3.0	4.0	7.5	5.0	6.0	17.5	16.5	17.0	22.0	20.5	21.5
21	6.5	5.0	6.0	5.0	4.0	4.5	17.0	15.0	16.0	22.0	21.0	21.5
22	7.5	6.5	7.0	5.0	4.0	4.5	16.5	15.5	16.0	21.5	20.0	21.0
23	8.5	7.0	7.5	6.5	4.5	5.0	16.5	12.0	14.5	20.5	19.5	20.0
24	9.0	8.0	8.5	8.5	6.0	7.0	12.0	10.0	11.0	19.5	18.0	18.5
25	8.5	8.0	8.0	9.5	8.5	9.0	12.5	11.0	11.5	18.0	17.0	17.5
26	9.0	8.0	8.5	8.5	7.0	7.5	13.0	12.5	12.5	18.0	16.5	17.0
27	11.0	9.0	10.0	7.0	5.5	6.5	13.0	12.0	12.5	16.5	15.0	15.5
28	10.5	8.0	9.5	7.0	6.5	7.0	13.0	12.0	12.5	15.0	14.5	15.0
29	8.0	4.5	6.0	8.0	7.0	7.5	13.5	11.5	12.5	16.0	14.5	15.5
30	---	---	---	10.5	7.5	9.0	13.5	12.0	13.0	17.0	15.0	16.0
31	---	---	---	11.5	10.5	11.0	---	---	---	18.0	16.0	17.0
MONTH	11.0	.5	4.5	11.5	2.0	6.5	17.5	7.5	12.0	22.0	11.5	16.0

GREAT MIAMI RIVER BASIN

03271510 GREAT MIAMI RIVER NEAR LINDEN AVENUE AT MIAMISBURG, OH--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	18.5	17.0	18.0	27.5	25.5	26.5	24.0	22.5	23.5	26.0	23.0	25.0
2	18.5	18.0	18.0	27.0	25.5	26.0	24.5	23.0	23.5	26.0	23.5	25.0
3	18.5	18.0	18.5	25.5	23.5	24.5	26.0	23.0	24.5	25.5	23.5	24.5
4	18.5	17.5	18.0	25.0	22.0	23.5	29.0	24.0	26.5	25.0	23.5	24.5
5	18.5	17.0	18.0	25.0	22.5	23.5	30.0	25.5	27.0	26.0	23.0	24.5
6	---	---	---	26.0	22.5	24.0	30.5	26.5	28.0	25.5	24.0	24.5
7	---	---	---	26.5	23.5	24.5	---	---	---	26.5	24.0	25.0
8	---	---	---	25.5	24.0	25.0	---	---	---	26.0	23.5	25.0
9	---	---	---	25.5	24.0	24.5	---	---	---	25.5	24.0	25.0
10	---	---	---	25.0	22.5	23.5	---	---	---	26.5	23.5	25.0
11	---	---	---	25.5	22.0	23.5	---	---	---	26.5	23.0	24.5
12	---	---	---	26.0	22.5	24.0	24.0	23.0	23.5	25.5	23.5	24.5
13	20.5	19.0	19.5	27.0	23.5	25.0	25.5	21.5	23.5	24.0	21.5	22.5
14	21.5	19.5	20.5	27.0	24.0	25.0	26.0	22.5	24.0	21.5	19.5	20.5
15	22.0	20.0	21.0	25.0	23.5	24.5	25.5	23.5	24.5	21.0	18.5	20.0
16	22.5	20.5	21.5	24.5	23.0	24.0	26.0	23.0	24.5	20.5	18.5	19.0
17	23.0	22.0	22.5	26.5	24.0	25.0	25.5	22.5	24.0	19.0	17.5	18.5
18	23.0	22.0	22.5	25.0	24.0	25.0	26.5	23.0	25.0	20.5	17.5	19.0
19	23.0	21.5	22.5	25.0	23.0	24.0	27.0	23.5	25.5	21.0	18.0	19.5
20	23.0	22.5	22.5	25.0	23.5	24.5	27.5	24.0	26.0	21.5	18.0	20.0
21	23.5	21.5	22.5	24.5	22.0	23.0	27.5	25.0	26.5	21.0	19.0	20.0
22	24.0	23.0	23.5	22.0	20.5	21.0	28.0	25.5	26.5	20.5	18.5	19.5
23	24.5	23.0	23.5	22.5	20.0	21.0	28.5	26.0	27.0	20.5	18.0	19.5
24	25.0	24.0	24.5	24.0	22.0	23.0	28.0	25.5	26.5	20.5	19.0	20.0
25	24.5	23.0	24.0	24.5	22.5	23.5	28.0	24.5	26.0	20.5	18.0	19.5
26	23.5	22.0	23.0	25.0	22.5	23.5	27.5	24.0	26.0	20.0	18.0	19.0
27	24.5	22.5	23.0	25.5	23.0	24.0	26.5	24.5	25.5	20.0	19.0	19.5
28	25.5	23.0	24.5	25.5	23.5	24.0	26.5	22.5	25.0	19.5	17.5	18.5
29	26.5	24.5	25.0	24.0	23.0	23.5	26.5	23.5	25.0	18.0	16.5	17.0
30	27.0	25.0	25.5	23.5	23.0	23.5	26.5	23.5	25.0	19.0	17.0	17.5
31	---	---	---	23.5	22.0	23.0	26.5	23.0	25.0	---	---	---
MONTH	27.0	17.0	22.0	27.5	20.0	24.0	30.5	21.5	25.5	26.5	16.5	21.5
YEAR	30.5	.5	13.0									

OXYGEN, DISSOLVED (MG/L), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	12.5	8.1	10.6	12.9	8.7	10.4	13.7	11.5	12.2	14.0	13.6	13.8
2	13.3	8.0	10.7	10.7	8.3	9.2	14.2	11.2	12.2	14.0	13.5	13.8
3	10.4	7.7	8.7	10.7	7.9	9.1	12.6	11.0	11.6	13.7	13.1	13.4
4	10.1	8.0	8.8	11.4	9.0	10.4	14.9	10.7	12.2	13.2	12.9	13.1
5	9.1	8.0	8.6	12.0	10.6	11.3	13.9	10.9	12.0	13.4	12.7	12.9
6	9.2	8.6	8.9	12.6	11.0	11.6	14.2	11.1	12.2	17.1	13.4	15.0
7	9.2	8.8	8.9	11.5	10.4	10.9	15.5	10.6	12.6	16.3	14.2	15.0
8	10.0	8.9	9.4	12.0	10.2	11.1	15.0	11.1	12.7	17.6	14.1	15.2
9	10.1	9.0	9.6	12.9	11.5	12.0	15.8	11.3	13.2	17.1	13.8	15.0
10	10.4	9.2	9.7	11.9	11.3	11.7	16.8	12.0	13.8	16.4	13.0	14.4
11	11.0	9.3	9.9	11.3	10.3	10.7	16.5	12.2	13.9	15.8	12.5	13.6
12	11.5	9.1	10.1	11.3	10.8	11.1	16.0	12.2	13.6	16.6	12.2	13.7
13	11.8	9.1	10.1	11.6	11.3	11.5	13.6	12.1	12.6	15.6	12.3	13.3
14	9.8	8.8	9.4	11.9	11.6	11.7	15.0	11.6	12.8	17.0	11.8	13.5
15	10.9	7.7	9.1	12.1	11.9	12.0	14.6	11.0	12.4	15.5	12.1	13.2
16	12.2	7.3	9.4	12.2	12.0	12.1	17.2	11.1	13.3	16.3	12.1	13.3
17	13.1	7.4	10.0	12.3	11.9	12.1	18.2	11.3	13.9	12.1	11.5	11.9
18	13.9	9.1	11.2	11.9	11.5	11.8	13.6	11.2	11.9	12.2	11.5	11.9
19	14.1	10.4	12.0	12.0	11.5	11.7	12.0	11.3	11.6	12.4	11.6	11.9
20	11.7	8.6	10.3	11.8	11.3	11.6	13.4	12.0	12.6	12.9	12.4	12.7
21	9.0	8.2	8.6	11.6	11.3	11.4	14.2	12.8	13.3	12.9	12.8	12.9
22	14.2	8.3	10.6	12.1	11.5	11.7	15.1	13.0	13.7	12.8	12.3	12.6
23	14.6	9.1	11.5	12.2	11.5	11.8	15.7	13.3	14.0	12.3	11.8	12.1
24	11.6	9.8	10.6	12.7	11.5	12.0	14.4	13.7	14.0	11.9	11.5	11.7
25	13.5	9.6	10.9	12.8	11.8	12.2	15.1	14.3	14.7	12.2	11.9	12.1
26	12.5	8.9	10.4	12.7	11.7	12.1	15.0	14.8	14.9	12.2	11.9	12.1
27	11.0	8.9	9.7	11.7	10.9	11.3	14.9	14.6	14.8	12.1	11.7	11.9
28	11.2	8.8	9.8	12.2	10.7	11.2	14.8	13.9	14.5	12.1	11.2	11.5
29	13.3	9.1	10.7	13.3	11.1	11.9	13.9	13.6	13.7	11.2	10.7	11.0
30	12.9	9.2	10.6	13.6	11.4	12.2	14.0	13.6	13.8	10.8	10.6	10.7
31	13.2	9.0	10.8	---	---	---	13.8	13.6	13.7	11.1	10.5	10.8
MONTH	14.6	7.3	10.0	13.6	7.9	11.4	18.2	10.6	13.2	17.6	10.5	12.9

GREAT MIAMI RIVER BASIN

03271601 GREAT MIAMI RIVER BELOW MIAMISBURG, OH

LOCATION.--Lat 39°36'24", long 84°17'23", in sec. 23, R.5, T.2, Montgomery County, Hydrologic Unit 05080002, on right bank 50 ft below outflow and dam of Hutchings Power station, 0.3 mi upstream of Crains Run at south edge of Miamisburg corporate boundary, and at mile point 63.4.

DRAINAGE AREA.--2,715 mi².

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 670.00 ft above sea level.

REMARKS.--Records good, except for periods of estimated records, which are fair. Diurnal fluctuation caused by powerplant at gage. Flood flow regulated by retarding dams on Mad River 22 mi upstream, on Stillwater River 26 mi upstream, on Great Miami River 26 mi upstream, and on Loramie Creek 55 mi upstream.

COOPERATION.--Seven discharge measurements furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	666	863	1160	1570	2930	9070	6450	26200	5000	1780	2300	679
2	651	1100	1120	2310	2690	5530	9300	19800	4350	1700	2000	673
3	1150	1380	1080	2530	2300	4240	6390	14600	4690	1650	1540	679
4	1150	2230	1080	e2100	2080	3260	4840	17500	6140	1610	1400	659
5	3750	1870	1030	e1800	1950	3140	4100	18300	5420	1570	1290	718
6	7820	1450	1020	e1600	2140	5610	3580	17000	5020	1490	1240	651
7	8400	1560	993	e1400	2170	7200	3270	14000	9850	1420	1170	654
8	4680	2220	955	e1300	2400	5190	2990	14200	12100	2200	1120	644
9	3150	2420	886	e1300	2710	3580	2770	18500	11800	1850	1060	714
10	2240	1810	749	e1200	2680	2970	2580	16400	12100	1450	1060	789
11	1730	4260	700	e1200	2700	2730	2400	20200	11300	1280	1050	730
12	1470	11600	891	e1100	2690	2560	2270	25700	11400	1210	1010	690
13	1320	8060	917	e1100	2290	2580	2190	15600	9510	1190	986	674
14	1220	5260	1050	e1200	2130	2600	2170	10500	6670	1140	941	633
15	1140	4020	1020	e1300	2030	3790	2290	8300	9300	2680	911	651
16	1090	3220	993	e1500	1880	3360	2550	10400	5860	1910	840	1040
17	1070	2600	940	7030	1750	2920	2350	9540	4520	1500	910	2120
18	1040	2280	1470	19700	1680	2610	2240	8830	4100	4740	894	1190
19	988	2860	2750	29100	1660	4050	2220	7260	4350	8730	870	1050
20	1020	2680	2470	27600	1850	7400	5670	6130	3840	5620	847	928
21	1030	2330	2070	22900	1930	7460	8030	5420	3270	4120	812	906
22	1060	2060	1910	16100	1990	6720	5310	4720	3040	3710	815	1490
23	1050	1860	1580	13000	2190	5730	9970	3990	2770	3110	801	1020
24	989	1660	1460	20300	2470	5640	21200	4500	2530	2560	1030	870
25	916	1550	1360	20000	2620	8410	18100	4090	2480	2660	836	863
26	889	1450	1230	13600	2710	9210	13000	4640	2430	1930	812	890
27	959	1400	1230	9500	5770	6040	9200	7430	2230	1690	791	1980
28	931	1390	1190	7110	16800	4330	6460	9040	2000	1570	777	5220
29	904	1300	1070	5480	14200	4160	24400	10600	1920	1820	739	3020
30	898	1250	1030	4760	---	3560	32000	9400	1850	2160	704	2040
31	871	---	1150	3720	---	3310	---	6580	---	3210	700	---
TOTAL	56242	79993	38554	244410	95390	148960	220290	369370	171840	75260	32256	34865
MEAN	1814	2666	1244	7884	3289	4805	7343	11920	5728	2428	1041	1162
MAX	8400	11600	2750	29100	16800	9210	32000	26200	12100	8730	2300	5220
MIN	651	863	700	1100	1660	2560	2170	3990	1850	1140	700	633
CFSM	.67	.98	.46	2.90	1.21	1.77	2.70	4.39	2.11	.89	.38	.43
IN.	.77	1.10	.53	3.35	1.31	2.04	3.02	5.06	2.35	1.03	.44	.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 1996, BY WATER YEAR (WY)

	1992	1993	1994	1995	1996
MEAN	909	3101	1638	3952	2343
MAX	1814	6603	3859	7884	3710
(WY)	1996	1994	1994	1996	1993
MIN	434	475	613	867	842
(WY)	1992	1992	1992	1992	1992

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	WATER YEARS 1992 - 1996
ANNUAL TOTAL	1037108	1567430	
ANNUAL MEAN	2841	4283	2955
HIGHEST ANNUAL MEAN			4283
LOWEST ANNUAL MEAN			1795
HIGHEST DAILY MEAN	31400	32000	32000
LOWEST DAILY MEAN	440	633	369
ANNUAL SEVEN-DAY MINIMUM	523	668	394
INSTANTANEOUS PEAK FLOW		33500	33800
INSTANTANEOUS PEAK STAGE		17.20	17.27
INSTANTANEOUS LOW FLOW		633	369
ANNUAL RUNOFF (CFSM)	1.05	1.58	1.09
ANNUAL RUNOFF (INCHES)	14.21	21.48	14.79
10 PERCENT EXCEEDS	6300	10500	6970
50 PERCENT EXCEEDS	1580	2220	1490
90 PERCENT EXCEEDS	765	881	547

GREAT MIAMI RIVER BASIN

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03271800 TWIN CREEK NEAR INGOMAR, OH

LOCATION.--Lat 39°42'28", long 84°31'30", in sec. 15, T.5 N., R.3 E., Preble County, Hydrologic Unit 05080002, on left bank at downstream side of bridge on Halderman Road, 0.5 mi downstream from Bantas Fork, 1.4 mi west of Ingomar, and 4.8 mi upstream from Aukerman Creek.

DRAINAGE AREA.--197 mi².

PERIOD OF RECORD.--October 1962 to current year. Occasional low-flow measurements water years 1959, 1961-62.

GAGE.--Water-stage recorder. Datum of gage is 815.42 ft above sea level.

REMARKS.--Records good, except for periods of estimated record, which are fair. Sediment data collected at this site.

COOPERATION.--Gage-height tapes and 9 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 21, 1959, reached a stage of 18.8 ft; discharge, 30,300 ft³/s, computed by Miami Conservancy District. Flood of Mar. 25, 1913, reached a stage of 28.0 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	18	e44	110	e94	263	1270	1090	276	65	101	11
2	8.9	23	e40	255	e90	206	895	693	229	62	66	11
3	12	31	e38	e150	e84	148	473	575	392	59	53	11
4	18	35	e36	e120	e80	122	325	2620	617	56	44	11
5	109	29	e34	e100	e76	142	246	1710	351	52	40	11
6	293	26	e32	e90	e72	754	210	1360	506	49	35	10
7	113	32	e31	e84	e70	656	186	718	1560	48	32	10
8	60	58	e30	e82	e98	278	164	1780	959	221	29	9.6
9	40	52	e26	e80	152	180	148	1780	4790	112	27	9.6
10	32	41	e24	e76	132	142	132	767	1740	72	25	9.9
11	27	739	e23	e72	155	126	123	4270	845	58	23	10
12	24	587	e25	e70	e94	128	120	1300	981	51	22	9.6
13	21	240	27	e68	e80	136	120	653	476	48	22	9.2
14	19	160	34	e66	e94	151	114	435	321	45	21	9.1
15	18	125	38	e64	90	485	112	578	277	60	20	8.8
16	17	102	33	e78	e70	361	122	712	217	49	20	14
17	18	85	28	2160	e56	245	113	471	194	50	18	50
18	18	85	62	5010	e45	189	108	364	190	91	18	31
19	17	89	460	5400	e56	543	114	294	194	107	17	18
20	20	82	e300	979	e66	1100	1290	247	160	69	18	14
21	23	79	e140	498	e90	733	662	222	140	54	16	14
22	22	71	e100	341	108	520	355	189	108	84	17	37
23	21	64	e80	600	145	459	2370	169	99	80	17	30
24	19	58	e66	2380	189	793	1540	414	92	59	18	21
25	18	52	e58	837	162	980	669	339	88	94	19	16
26	18	51	e50	465	186	467	453	255	81	59	15	17
27	19	54	e49	e300	657	278	311	1380	76	47	14	24
28	19	e54	e48	e250	1350	233	478	1320	73	41	13	132
29	19	e52	e47	e180	495	270	8680	1440	70	46	13	75
30	19	e48	e45	e150	---	283	3210	563	67	66	12	42
31	18	---	e60	e120	---	254	---	355	---	207	11	---
TOTAL	1109.2	3222	2108	21235	5136	11625	25113	29063	16169	2261	816	685.8
MEAN	35.8	107	68.0	685	177	375	837	938	539	72.9	26.3	22.9
MAX	293	739	460	5400	1350	1100	8680	4270	4790	221	101	132
MIN	8.9	18	23	64	45	122	108	169	67	41	11	8.8
CFSM	.18	.55	.35	3.48	.90	1.90	4.25	4.76	2.74	.37	.13	.12
IN.	.21	.61	.40	4.01	.97	2.20	4.74	5.49	3.05	.43	.15	.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 1996, BY WATER YEAR (WY)

	MEAN	51.8	148	257	234	296	398	365	295	156	107	61.1	23.3
MAX	758	699	1170	685	886	990	837	938	539	499	531	137	
(WY)	1987	1986	1991	1996	1975	1963	1996	1996	1996	1979	1979	1989	
MIN	4.00	6.35	6.14	6.45	18.5	70.3	59.4	34.0	10.9	5.20	4.13	3.57	
(WY)	1964	1964	1964	1964	1977	1964	1992	1971	1976	1988	1988	1964	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1963 - 1996

ANNUAL TOTAL	60092.8	118543.0	199	1996
ANNUAL MEAN	165	324	324	1988
HIGHEST ANNUAL MEAN			78.4	
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	3710	May 18	8680	Apr 29
LOWEST DAILY MEAN	8.9	Oct 2	8.8	Sep 15
ANNUAL SEVEN-DAY MINIMUM	11	Sep 26	9.5	Sep 9
INSTANTANEOUS PEAK FLOW			12700	Apr 29 a
INSTANTANEOUS PEAK STAGE			12.33	Apr 29
INSTANTANEOUS LOW FLOW			8.8	Sep 15
ANNUAL RUNOFF (CFSM)	.84		1.64	
ANNUAL RUNOFF (INCHES)	11.35		22.38	
10 PERCENT EXCEEDS	371		743	
50 PERCENT EXCEEDS	66		83	
90 PERCENT EXCEEDS	18		18	

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

GREAT MIAMI RIVER BASIN

03272000 TWIN CREEK NEAR GERMANTOWN, OH

LOCATION.--Lat 39°38'10", long 84°23'48", in NW 1/4 sec. 11, T.3 N., R.4 E., Montgomery County, Hydrologic Unit 05080002, on right bank 0.3 mi downstream from Germantown Dam, 1.5 mi northwest of Germantown, and 3 mi upstream from Little Twin Creek.

DRAINAGE AREA.--275 mi².

PERIOD OF RECORD.--April 1914 to December 1923, December 1926 to current year.

REVISED RECORDS.--WSP 403: 1914(M). WSP 1385: 1915(M).

GAGE.--Water-stage recorder. Datum of gage is 700.24 ft above sea level. Prior to Dec. 18, 1926, nonrecording gage at site 1 mi downstream at datum 12.49 ft higher.

REMARKS.--Records good, except for estimated periods, which are fair. Flood flow regulated by Germantown retarding basin, 0.3 mi upstream, beginning in 1920.

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,390 ft³/s July 8, 1915, gage height 11.7 ft, from graph based on gage readings, site and datum then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913, reached a stage of 18.3 ft, original site and datum; discharge, 66,000 ft³/s, computed by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	41	63	166	e200	425	1350	6170	423	93	156	18
2	16	52	63	417	e180	315	1600	1510	348	89	97	18
3	20	60	61	e310	e160	241	781	998	364	86	76	17
4	22	63	58	e260	e150	191	522	3910	902	80	61	18
5	318	61	56	e230	e140	214	397	4250	530	76	55	18
6	447	55	53	e180	e130	878	328	2310	489	71	48	18
7	196	70	51	e160	e140	1010	293	1240	2170	68	44	17
8	102	82	e45	e140	e170	472	260	3010	2030	223	41	17
9	70	96	e43	e130	246	304	234	2930	5270	177	37	18
10	54	80	e42	e120	212	244	211	1340	5110	112	35	17
11	45	912	e44	e110	235	212	194	3790	1450	88	33	17
12	41	741	e48	e105	e150	204	184	4490	1550	75	32	17
13	38	391	56	e100	e130	209	181	1190	789	69	31	17
14	36	255	62	e95	e110	221	177	765	528	63	29	16
15	34	200	57	e90	e100	795	169	1100	413	104	29	17
16	32	164	53	e130	e94	639	184	1600	332	85	29	20
17	32	138	46	e800	e84	397	169	853	281	76	27	48
18	32	130	97	5110	e86	306	157	617	260	143	25	43
19	33	131	778	6260	e96	815	162	470	278	168	24	30
20	38	124	687	4240	e110	1610	1120	383	231	118	25	23
21	43	119	359	851	156	1250	1090	335	203	82	24	24
22	44	109	246	558	164	862	520	288	184	109	24	35
23	42	99	e180	818	212	716	1760	254	172	120	24	43
24	42	90	e160	3620	264	1020	3000	454	152	89	30	34
25	40	82	e140	1450	240	1400	1120	527	142	117	26	27
26	38	78	e125	e640	234	737	720	367	129	93	25	26
27	41	80	e115	e480	649	427	502	1730	119	72	22	79
28	42	78	e105	e370	1650	344	538	2390	111	60	21	356
29	42	72	e100	e300	847	389	5980	2510	106	60	21	120
30	41	65	e94	e250	---	418	7550	1040	99	91	20	e80
31	40	---	e110	e220	---	366	---	588	---	204	18	---
TOTAL	2078	4718	4197	28710	7339	17631	31453	53409	25165	3161	1189	1248
MEAN	67.0	157	135	926	253	569	1048	1723	839	102	38.4	41.6
MAX	447	912	778	6260	1650	1610	7550	6170	5270	223	156	356
MIN	16	41	42	90	84	191	157	254	99	60	18	16
CFSM	.24	.57	.49	3.37	.92	2.07	3.81	6.26	3.05	.37	.14	.15
IN.	.28	.64	.57	3.88	.99	2.38	4.25	7.22	3.40	.43	.16	.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 1996, BY WATER YEAR (WY)

	MEAN	56.9	159	292	451	454	524	483	343	224	132	73.8	42.5
MAX	718	978	1398	2669	1214	1304	1421	1723	1237	882	636	509	
(WY)	1987	1986	1991	1937	1950	1978	1922	1996	1958	1929	1979	1950	
MIN	4.07	5.24	5.19	9.23	20.1	54.7	69.5	26.4	14.1	8.46	5.77	3.79	
(WY)	1945	1945	1945	1945	1935	1954	1941	1934	1934	1930	1988	1953	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1921 - 1996

ANNUAL TOTAL	88836	180298	
ANNUAL MEAN	243	493	
HIGHEST ANNUAL MEAN			267
LOWEST ANNUAL MEAN			493
HIGHEST DAILY MEAN	5460	May 19	7550
LOWEST DAILY MEAN	15	Sep 30	16
ANNUAL SEVEN-DAY MINIMUM	17	Sep 26	17
INSTANTANEOUS PEAK FLOW			7710
INSTANTANEOUS PEAK STAGE			27.86
INSTANTANEOUS LOW FLOW			16
ANNUAL RUNOFF (CFSM)	.89	1.79	1.5
ANNUAL RUNOFF (INCHES)	12.02	24.39	13.19
10 PERCENT EXCEEDS	548	1200	600
50 PERCENT EXCEEDS	95	139	81
90 PERCENT EXCEEDS	30	27	13

GREAT MIAMI RIVER BASIN

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03272100 GREAT MIAMI RIVER AT MIDDLETOWN, OH

LOCATION.--Lat 39°31'12", long 84°24'51", Butler County, Hydrologic Unit 05080002, on downstream side of Central Avenue Bridge on State Route 122, 1.9 mi downstream from Browns Run, on northwest side of city of Middletown.
 DRAINAGE AREA.--3,134 mi².
 PERIOD OF RECORD.--July 1994 to current year.
 GAGE.--Water-stage recorder. Datum of gage is 626 ft above sea level (levels by Miami Conservancy District).
 REMARKS.--Records good, except for estimated daily discharges, which are poor. Some regulation and diversion at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station (see REMARKS for station numbers 03271500 and 03272000). Water-temperature data collected at this site.
 COOPERATION.--Gage-height record and 8 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	634	749	1150	1590	3020	9880	8630	31700	5610	1930	2310	646
2	633	922	1110	2500	2730	5760	11200	22700	4750	1850	1950	636
3	936	1110	1060	2740	2350	4310	7400	16200	4680	1760	1570	652
4	1200	1910	1060	e2100	2150	3290	5320	22500	7510	1700	1400	646
5	3630	1750	1020	e1800	2020	3030	4600	23500	6060	1660	1310	679
6	7900	1350	1000	e1600	2140	6230	3830	19800	5410	1610	1260	650
7	9040	1390	975	e1500	2180	8440	3470	16100	12300	1610	1200	607
8	4850	1840	955	e1400	2360	5630	3140	18000	15400	2340	1170	603
9	3100	2310	925	e1300	2850	3780	2890	20600	18900	2150	1070	672
10	2180	1750	785	e1300	2710	3050	2680	18400	18000	1690	1030	724
11	1660	4300	749	e1200	2720	2770	2510	23400	13900	1460	1010	e720
12	1390	12000	877	e1200	2690	2580	2370	29600	12900	1390	1020	e680
13	1220	8470	920	e1200	2330	2580	2270	17600	11100	1360	1000	647
14	1130	5240	1030	e1300	2140	2600	2270	11700	7340	1320	975	610
15	1050	3900	1020	e1400	2060	4330	2320	9770	10200	2570	932	602
16	988	3110	989	1680	1900	3920	2730	13100	6630	2210	889	805
17	965	2530	939	8940	1760	3180	2470	10700	4880	1670	879	1880
18	938	2180	1400	22900	1680	2780	2340	9780	4340	3670	858	1180
19	891	2550	3490	32300	1660	4830	2290	8070	4770	8630	863	1000
20	902	2540	3290	30000	1850	10200	6700	6730	4230	5480	852	891
21	944	2210	2340	22800	1960	8780	9290	5840	3590	3820	840	847
22	931	1970	2060	17000	2000	7570	5920	5010	3190	3410	810	1340
23	971	1780	1690	13900	2180	6400	11800	4250	2980	2930	773	1030
24	913	1590	1550	23500	2470	6320	23800	4740	2750	2440	1140	858
25	813	1490	1430	21400	2620	9120	19500	4620	2670	2500	849	820
26	771	1410	1290	14800	2640	9920	14200	4850	2570	1900	805	815
27	829	1360	1280	10500	4750	6600	10100	9630	2430	1650	790	1680
28	829	1330	1220	7640	18000	4550	6870	12100	2200	1520	777	5080
29	778	1280	1110	5750	15300	4400	29800	13200	2060	1800	734	3050
30	774	1230	1050	4890	---	3870	36900	11000	1980	2020	703	1990
31	753	---	1160	3870	---	3540	---	7670	---	3170	662	---
TOTAL	54543	77551	40924	266000	97220	164240	249610	432860	205330	75220	32431	33040
MEAN	1759	2585	1320	8581	3352	5298	8320	13960	6844	2426	1046	1101
MAX	9040	12000	3490	32300	18000	10200	36900	31700	18900	8630	2310	5080
MIN	633	749	749	1200	1660	2580	2270	4250	1980	1320	662	602
CFSM	.56	.82	.42	2.74	1.07	1.69	2.65	4.46	2.18	.77	.33	.35
IN.	.65	.92	.49	3.16	1.15	1.95	2.96	5.14	2.44	.89	.38	.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 1996, BY WATER YEAR (WY)

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
MEAN	1108	1584	1126	5074	2379	4357	6109	10860	5335	2663	2503	792
MAX	1759	2585	1320	8581	3352	5298	8320	13960	6844	2900	5726	1101
(WY)	1996	1996	1996	1996	1996	1996	1996	1996	1996	1995	1995	1996
MIN	458	583	932	1567	1370	3415	3898	7752	3825	2426	737	465
(WY)	1995	1995	1995	1995	1995	1995	1995	1995	1995	1996	1994	1994

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR	FOR 1996 WATER YEAR	FOR 1997 WATER YEAR	FOR 1998 WATER YEAR	FOR 1999 WATER YEAR	FOR 2000 WATER YEAR	FOR 2001 WATER YEAR	FOR 2002 WATER YEAR	FOR 2003 WATER YEAR	FOR 2004 WATER YEAR	FOR 2005 WATER YEAR	FOR 2006 WATER YEAR
ANNUAL TOTAL	1129521	1728969	1728969	1728969	1728969	1728969	1728969	1728969	1728969	1728969	1728969	1728969
ANNUAL MEAN	3095	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724	4724
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	29300	Aug 10	36900	Apr 30	36900	Apr 30	36900	Apr 30	36900	Apr 30	36900	Apr 30
LOWEST DAILY MEAN	415	Jan 5	602	Sep 15	602	Sep 15	602	Sep 15	602	Sep 15	602	Sep 15
ANNUAL SEVEN-DAY MINIMUM	511	Jan 1	639	Sep 2	639	Sep 2	639	Sep 2	639	Sep 2	639	Sep 2
INSTANTANEOUS PEAK FLOW			38500	Apr 30	38500	Apr 30	38500	Apr 30	38500	Apr 30	38500	Apr 30
INSTANTANEOUS PEAK STAGE			12.72	Apr 30	12.72	Apr 30	12.72	Apr 30	12.72	Apr 30	12.72	Apr 30
INSTANTANEOUS LOW FLOW			602	Sep 15	602	Sep 15	602	Sep 15	602	Sep 15	602	Sep 15
ANNUAL RUNOFF (CFSM)	.99		1.51		1.51		1.51		1.51		1.51	
ANNUAL RUNOFF (INCHES)	13.41		20.52		20.52		20.52		20.52		20.52	
10 PERCENT EXCEEDS	6870		12500		12500		12500		12500		12500	
50 PERCENT EXCEEDS	1760		2240		2240		2240		2240		2240	
90 PERCENT EXCEEDS	759		826		826		826		826		826	

GREAT MIAMI RIVER BASIN

03272700 SEVENMILE CREEK AT CAMDEN, OH

LOCATION.--Lat 39°37'45", long 84°38'40", Preble County, Hydrologic Unit 05080002, on right bank at downstream side of bridge on State Highway 725 in Camden, 0.3 mi downstream from Beasley Run and at mile 16.2.

DRAINAGE AREA.--69.0 mi².

PERIOD OF RECORD.--December 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 818.57 ft above sea level. (Levels by Miami Conservancy District.) Prior to Oct. 1, 1975, at same site at datum 3.02 ft higher.

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

COOPERATION.--Gage-height tapes and 8 discharge measurements furnished by Miami Conservancy District.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.8	8.3	12	e40	e41	99	458	432	119	19	24	4.2
2	3.5	17	12	80	e38	93	297	278	98	18	18	4.2
3	6.6	18	11	e56	e35	73	180	272	187	17	16	4.5
4	11	13	11	e38	e33	57	134	1670	257	16	13	4.5
5	81	11	11	e35	e30	66	106	704	155	15	11	4.8
6	58	10	10	e33	e29	206	95	410	220	14	11	4.1
7	19	22	9.9	e30	e28	174	86	264	748	13	9.9	3.9
8	11	20	9.2	e29	e40	96	77	757	438	43	9.3	3.8
9	8.8	16	8.1	e27	e60	e60	72	485	979	25	8.9	3.9
10	7.9	14	6.9	e26	57	e52	66	283	353	18	8.3	4.0
11	7.3	203	7.2	e25	63	e47	62	1460	229	15	7.3	3.8
12	6.6	117	7.4	e24	e39	e46	56	462	228	14	7.3	3.6
13	6.1	66	8.2	e23	e28	e49	53	261	150	14	7.0	3.5
14	6.3	50	13	e23	e35	57	48	180	110	12	6.7	3.4
15	6.2	55	13	e22	e30	241	49	461	89	22	6.3	3.2
16	5.8	50	11	e30	e25	167	51	451	73	15	9.4	11
17	6.4	34	9.1	811	e20	119	44	253	61	16	6.8	28
18	6.8	27	37	1510	e17	90	42	182	60	52	6.3	7.0
19	6.5	24	153	1360	e20	299	45	139	62	34	6.1	5.0
20	9.9	22	108	306	e23	407	385	113	52	22	5.8	4.3
21	14	22	e50	168	e29	266	220	96	45	18	5.5	4.9
22	7.9	20	e38	120	e38	204	135	78	40	40	5.2	21
23	7.0	18	e30	282	e50	182	730	70	38	27	5.1	7.9
24	6.8	17	e24	706	69	274	417	75	36	20	6.7	5.8
25	6.9	15	e20	279	59	332	225	71	34	47	6.7	4.6
26	6.8	15	e18	172	79	183	165	104	28	24	5.3	5.1
27	8.9	15	e18	e120	156	122	117	620	26	18	4.8	11
28	10	15	e17	e80	304	102	232	465	24	16	4.6	54
29	8.7	13	e17	e66	140	112	3970	685	23	23	4.5	19
30	8.1	12	e16	e56	---	106	1060	261	20	45	4.5	9.8
31	7.8	---	e20	e49	---	105	---	164	---	41	4.4	---
TOTAL	371.4	959.3	736.0	6626	1615	4486	9677	12206	4982	733	255.7	257.8
MEAN	12.0	32.0	23.7	214	55.7	145	323	394	166	23.6	8.25	8.59
MAX	81	203	153	1510	304	407	3970	1670	979	52	24	54
MIN	3.5	8.3	6.9	22	17	46	42	70	20	12	4.4	3.2
CFSM	.17	.46	.34	3.10	.81	2.10	4.67	5.71	2.41	.34	.12	.12
IN.	.20	.52	.40	3.57	.87	2.42	5.22	6.58	2.69	.40	.14	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 1996, BY WATER YEAR (WY)

	MEAN	19.8	60.2	87.6	87.4	112	139	131	114	50.3	34.4	19.3	9.70
MAX	126	266	281	265	276	344	323	421	166	138	91.6	40.9	
(WY)	1987	1986	1991	1982	1975	1978	1996	1989	1996	1992	1979	1979	
MIN	3.31	3.90	4.58	3.46	19.2	24.9	25.2	11.3	3.84	4.27	2.95	1.68	
(WY)	1972	1972	1977	1977	1978	1992	1976	1976	1988	1975	1975	1991	

SUMMARY STATISTICS

FOR 1995 CALENDAR YEAR

FOR 1996 WATER YEAR

WATER YEARS 1971 - 1996

ANNUAL TOTAL	20596.9	42905.2	72.6	
ANNUAL MEAN	56.4	117	117	1996
HIGHEST ANNUAL MEAN			28.0	1988
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	1710	May 17	5520	May 26 1989
LOWEST DAILY MEAN	2.0	Jan 8	.81	Sep 9 1991
ANNUAL SEVEN-DAY MINIMUM	2.3	Jan 3	1.1	Sep 6 1991
INSTANTANEOUS PEAK FLOW			20200	May 26 1989
INSTANTANEOUS PEAK STAGE			18.67	May 26 1989
INSTANTANEOUS LOW FLOW			.81	Sep 9 1991
ANNUAL RUNOFF (CFSM)	.82		1.05	
ANNUAL RUNOFF (INCHES)	11.10		14.29	
10 PERCENT EXCEEDS	113		161	
50 PERCENT EXCEEDS	21		26	
90 PERCENT EXCEEDS	5.6		4.0	

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

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LOCATION.--Lat 39°23'28", long 84°34'20", in NE 1/4 sec. 6, T.1 N., R.3 E., Butler County, Hydrologic Unit 05080002, on right bank 1,000 ft downstream from Columbia Bridge at Hamilton, 3 mi downstream from Four Mile Creek, 4.3 mi upstream from Pleasant Run, and at mile 34.8.

PERIOD OF RECORD:--January 1907 to June 1909 (fragmentary), January 1910 to September 1918, April 1927 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 0.7 mi upstream since 1911 are contained in reports of National Weather Service. Prior to October 1962, published as Miami River at Hamilton.

GAGE.--Water-stage recorder. Datum of gage is 499.98 ft above sea level. Prior to Apr. 12, 1927, nonrecording gage at site 0.7 mi upstream at datum 64.65 ft higher.

REMARKS.--Records excellent except for estimated daily discharges, which are fair. Some regulation and diversion at low flow by industrial plants upstream from station. Flood flow regulated by five retarding basins upstream from station beginning in 1920 (see REMARKS for station numbers 03271500 and 03272000). The Miami and Erie Canal diverted water from the basin 1.7 mi upstream from station until Nov. 1, 1930, when the canal was abandoned; amount of diversion not known. Water-quality and water-temperature data collected at this site.

COOPERATION.--Gage-height charts, tapes, and 8 discharge measurements furnished by Miami Conservancy District.

EXTREMES OUTSIDE PERIOD OF RECORD. --Maximum discharge, 352,000 ft³/s Mar. 26, 1913, gage height 38.5 ft, site and datum then in use, computed by Miami Conservancy District.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	727	908	1390	1880	3650	11100	13100	37800	6560	2230	2680	781
2	729	1060	1290	3170	3240	6690	13800	27200	5510	2170	2200	749
3	855	1240	1230	3530	2840	5120	9150	18800	5100	2020	1830	739
4	1500	1820	1180	e2500	2560	4030	6460	30900	8240	1930	1570	748
5	3860	1980	1170	e2200	2310	3610	5830	31400	6820	1860	1460	765
6	7820	1660	1140	e2000	2460	7700	4680	24100	6030	1780	1400	779
7	8970	1590	1140	e1900	2560	10000	4210	18900	14700	1860	1360	715
8	5350	1840	1100	e1800	2740	6780	3800	23000	19500	2870	1580	698
9	3520	2540	1060	e1700	3600	4800	3500	23800	25300	2580	1280	829
10	2620	2060	935	e1600	3280	3870	3240	22400	21300	1980	1090	815
11	2050	4430	877	e1600	3280	3410	3080	31200	17000	1690	1080	836
12	1700	11500	908	e1600	3160	3070	2840	34500	14100	1580	1090	765
13	1500	9570	1010	e1500	2820	3030	2740	22200	12800	1510	1070	744
14	1410	5880	1220	e1500	2530	3030	2690	13900	8270	1450	1100	720
15	1300	4420	1240	e1600	2350	5610	2730	15300	10700	2790	1140	683
16	1250	3580	1240	2120	2600	5370	3360	19800	7380	2660	1180	843
17	1190	2950	1140	12200	2400	4100	3000	13200	5550	1910	1180	1890
18	1160	2530	1960	28000	2250	3510	2820	11600	4940	2850	1180	1500
19	1140	2630	5520	40800	2150	6720	2790	9530	5360	8840	1060	1150
20	1120	2860	4910	34500	2330	14700	7600	7900	5180	6130	959	1050
21	1180	2510	3150	25800	2480	10900	10900	6770	4190	4280	944	1020
22	1130	2270	2670	19300	2440	8990	7110	5930	3660	3790	920	1450
23	1180	2060	2190	16600	2540	7680	15400	5110	3450	3310	872	1310
24	1140	1850	1950	28900	2880	7250	27200	5300	3170	2810	1420	1030
25	1070	1710	1800	25200	2970	9760	22400	5520	3060	2800	1090	932
26	1030	1630	1610	17300	3080	11000	16300	5720	2880	2250	940	913
27	1050	1550	1540	12300	4230	7780	11500	13200	2800	1900	931	1790
28	1090	1600	1470	8810	18700	5390	7960	15900	2580	1710	893	6130
29	1040	1540	1350	6740	17200	5180	50700	16400	2400	2200	867	3910
30	1000	1460	1280	5710	---	4710	49300	13000	2290	2240	842	2440
31	946	---	1340	4650	---	4290	---	8910	---	3580	790	---
TOTAL	61627	85228	52010	319010	111630	199180	320190	539190	240820	83560	37998	38724
MEAN	1988	2841	1678	10290	3849	6425	10670	17390	8027	2695	1226	1291
MAX	8970	11500	5520	40800	18700	14700	50700					

MEAN	1036	1978	3214	4992	5209	6104	5898	4259	3095	2199	1402	957
MAX	6728	10060	13280	29460	14410	15590	13760	17390	14860	7995	7613	4382
(WY)	1987	1973	1991	1937	1950	1963	1964	1996	1958	1958	1979	1979
MIN	279	286	323	434	502	826	1219	602	445	335	391	319
(WY)	1964	1935	1935	1977	1964	1941	1941	1934	1934	1936	1936	1963

WATER YEARS 1927 - 1996

ANNUAL TOTAL	1266245		2089167				
ANNUAL MEAN	3469		5708			3348	
HIGHEST ANNUAL MEAN						5778	1973
LOWEST ANNUAL MEAN						931	1954
HIGHEST DAILY MEAN	32200	Aug 10	50700	Apr 29	73900		Jan 22 1959
LOWEST DAILY MEAN	550	Jan 5	683	Sep 15	155		Sep 27 1941
ANNUAL SEVEN-DAY MINIMUM	636	Jan 1	742	Sep 2	201		Sep 26 1941
INSTANTANEOUS PEAK FLOW			63800	Apr 29	108000		Jan 21 1959
INSTANTANEOUS PEAK STAGE			74.26	Apr 29	79.47		Jan 21 1959
INSTANTANEOUS LOW FLOW			683	Sep 15	155		Sep 27 1941
ANNUAL RUNOFF (CFSM)	.96		1.57			.92	
ANNUAL RUNOFF (INCHES)	12.98		21.41			12.53	
10 PERCENT EXCEEDS	7810		15500		7700		
50 PERCENT EXCEEDS	2000		2640		1600		
90 PERCENT EXCEEDS	938		988		504		

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at crest-stage partial-record stations are presented in the following table. Discharge measurements made at low-flow partial-record sites and at miscellaneous sites and for special studies are given in separate tables.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
BEAVER RIVER BASIN								
Mahoning River at Alliance, OH (03086500)	Lat 40°55'58", long 81°05'41", in E 1/2 sec. 36, T.13 N., R.6 W., Stark County, Hydrologic Unit 05030103, on right bank 15 ft upstream from Webb Avenue bridge in Alliance, 0.2 mi upstream from water works dam, and 4 mi upstream from Beach Creek. Drainage area is 89.2 mi ² .	1941-93 # 1994-96	1-19-96	5.96	3,760	1-21-59	9.11	9,740
West Branch Mahoning River nr Ravenna, OH (03092090)	Lat 41°09'41", long 81°11'50", in T.9 N., R.2 W., Portage County, Hydrologic Unit 05030103, on left bank at downstream side of bridge on Newton Falls Road, 2.5 mi east of Ravenna. Drainage area is 21.8 mi ² .	1965-93 # 1994-96	5-11-96	6.71	1,260	9-14-79	8.63	2,810
Pymatuning Creek at Kinsman, OH (03102950)	Lat 41°26'34", long 80°35'18", Trumbull County, Hydrologic Unit 05030102, on left bank at downstream side of bridge on State Highway 7 at Kinsman, 0.8 mi downstream from Sugar Creek, and 1.2 mi upstream from Stratton Creek. Drainage area is 96.7 mi ² .	1966-94 # 1995-96	1-19-96	12.28	2,560	11-6-85	12.40	2,740
MUSKINGUM RIVER BASIN								
McGuire Creek below Leesville dam near Leesville, OH (03120500)	Lat 40°28'13", long 81°11'48", in E 1/2 sec. 36, T.13 N., R.6 W., Carroll County, Hydrologic Unit 05040001, on left bank at outlet of Leesville Dam, 1.3 mi upstream from mouth, and 1.4 mi northeast of Leesville. Drainage area is 48.3 mi ² .	1938-91 # 1992-96	1-31-96	4.49	263	3-4-40	7.88	740
Tuscarawas River below Dover dam, near Dover, OH (03122500)	Lat 40°31'47", long 81°25'48", in T.9 N., R.2 W., Tuscarawas County, Hydrologic Unit 05040001, on left bank at downstream side of bridge on State Highway 416, 2.2 mi downstream from Dover Dam, 1.5 mi east of Dover and 3.4 mi upstream from Sugar Creek. Drainage area is 1,405 mi ² .	1923-91 # 1992-96	1-21-96	7.29	5,800	1-26-37	15.51	26,400

Operated as a continuous-record gaging station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Maximum discharge at crest-stage partial-record stations (Continued)

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
MUSKINGUM RIVER BASIN (cont'd)								
Sugar Creek below Beach City dam, near Beach City, OH (03124000)	Lat 40°38'08", long 81°33'11", in T.10, N., R.3 W., Tuscarawas County, Hydrologic Unit 05040001, on right bank 1,000 ft downstream from Beach City Dam, 0.4 mi downstream from South Fork, and 1.8 mi southeast of Beach City. Drainage area is 300 mi ² .	1938-91 ≠ 1992-96	3-20-96	6.04	1,870	7-6-69	11.26	7,520
Stillwater Creek at Piedmont, OH (03126000)	Lat 40°11'41", long 81°12'56", in sec. 35, T.10 N., R.6 W., Harrison County, Hydrologic Unit 05040001, on left bank 400 ft downstream from outlet of Piedmont Dam and Boggs Fork, and 0.7 mi northwest of Piedmont. Drainage area is 122 mi ² .	1938-91 ≠ 1992-96	5-9-96	9.99	930	12-4-50	11.44	1,470
Stillwater Creek at Tippecanoe, OH (03127000)	Lat 40°16'13", long 81°17'26" in NW 1/4 sec. 22, T.12 N., R.7 W. Harrison County, Hydrologic Unit 05040001 on left bank downstream side of highway bridge at Tippecanoe, 0.4 mi downstream from Brushy Fork, 3.6 mi upstream from Weaver Run, 6 mi upstream from Laurel Creek, and 9 mi south of Dennison. Drainage area is 282 mi ² .	1938-91 ≠ 1992-96	5-10-96	14.66	2,180	3-5-63	17.29	4,410
Stillwater Creek at Uhrichsville, OH (03127500)	Lat 40°23'10", long 81°20'50" Tuscarawas County, Hydrologic Unit 05040001, on left bank at concrete dam of Dennison Water Supply Co. at Uhrichsville, 2.2 mi upstream from Little Stillwater Creek. Drainage area is 367 mi ²	1922-91 ≠ 1992-96	1-19-96 1-20-96	4.90 b5.34	e2,980 e2,760	8-8-35	12.80	7,650
Little Stillwater Creek below Tappan Dam at Tappan, OH (03128500)	Lat 40°21'25", long 81°13'49", in NW 1/4 sec. 4, T.13 N., R.7 W., Harrison County, Hydrologic Unit 05040001, on right bank 150 ft downstream from outlet of lake at Tappan Dam, 1 mi west of Tappan, and 2 mi upstream from Plum Run. Drainage area is 71.1 mi ² .	1938-91 ≠ 1992-96	1-27-96	6.73	411	3-13-39	10.00	1,050
Black Fork Below Charles Mill Dam, near Mifflin, OH (03130000)	Lat 40°44'16", long 82°21'48", in NE 1/4 sec. 35, T.23 N., R.17 W., Ashland County, Hydrologic Unit 05040002, on left bank 700 ft downstream from Charles Mill Dam, 2.5 mi south of Mifflin, and 4 mi upstream from Rocky Fork. Drainage area is 217 mi ² .	1938-91 ≠ 1992-96	5-22-96	6.07	1,520	3-13-64	8.45	2,800
Black Fork at Loudonville, OH (03131500)	Lat 40°38'09", long 82°14'22", in NW 1/4 sec. 1, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank at downstream side of bridge on State Highway 39 at Loudonville, 1.5 mi downstream from Big Run. Drainage area is 349 mi ² .	1931-91 ≠ 1992-96	5-11-96	10.72	3,420	7-5-69	14.11	8,460

≠ Operated as a continuous-record gaging station

e Estimated

b Backwater from Tuscarawas River

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

Maximum discharge at crest-stage partial-record stations (Continued)

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
MUSKINGUM RIVER BASIN (cont'd)								
Clear Fork below Pleasant Hill Dam near Perrysville, OH (03133500)	Lat 40°37'13", long 82°19'28", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank 0.2 mi downstream from Pleasant Hill Dam, 2.8 mi south of Perrysville, and 4.7 mi upstream from the confluence of Clear Fork and Black Fork. Drainage area is 198 mi ² .	1938-91 * 1992-96	5-12-96	3.80	1,320	1-23-59	4.89	2,340
Lake Fork below Mohicanville Dam near Mohicanville, OH (03135000)	Lat 40°43'24", long 82°09'18", in NE 1/4 sec. 7, T.19 N., R.16 W., Ashland County, Hydrologic Unit 05040002, on right bank 800 ft downstream from Mohicanville Dam, 2 mi east of Mohicanville, and 2.4 mi downstream from the confluence of Jerome and Muddy Forks. Drainage area is 271 mi ² .	1938-93 * 1994-96	5-17-96	9.53	1,470	7-5-69	14.32	5,490
Walhonding River below Mohawk, dam at Nellie, OH (03138500)	Lat 40°20'29", long 82°03'56", in T.6 N., R.8 W., Coshocton County, Hydrologic Unit 05040003, on right bank at upstream side of bridge on U.S. Highway 36 at Nellie, 0.5 mi upstream from Mohawk Creek, and 1.7 mi downstream from Mohawk Dam. Drainage area is 1,505 mi ² .	1910-13 1921-91 * 1992-96	1-18-96	12.47	9,390	1-25-37	18.80	43,800
Seneca Fork below Senecaville Dam, near Senecaville, OH (03141500)	Lat 39°55'28", long 81°26'17", Guernsey County, Hydrologic Unit 05040005, on left bank 650 ft downstream from Senecaville Dam and 1.5 mi southeast of Senecaville. Drainage area is 118 mi ² .	1938-91 * 1992-96	3-27-96	8.67	830	8-24-80	9.69	985
Wills Creek below Wills Creek Dam at Wills Creek, OH (03143500)	Lat 40°09'34", long 81°50'51", in sec. 22, T.4 N., R.6 W., Coshocton County, Hydrologic Unit 05040005, on left bank 1,200 ft downstream from Wills Creek Dam, 1.3 mi southeast of town of Wills Creek, 2.7 mi southeast of Conesville, and 6.2 mi upstream from mouth. Drainage area is 842 mi ² .	1938-91 * 1992-96	5-26-96	15.14	5,820	3-7-40	17.40	6,930
Licking River below Dillon Dam, near Dillon Falls, OH (03147500)	Lat 39°59'18", long 82°04'50", in T.1 N., R.8 W., Muskingum County, Hydrologic Unit 05040006, on left bank 500 ft downstream from Dillon Dam, 2.0 mi northwest of Dillon Falls, and 5.8 mi upstream from mouth. Drainage area is 742 mi ² .	1939-91 * 1992-96	2-29-96	10.16	6,000	1-22-59	32.46	47,000

* Operated as a continuous-record gaging station

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

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Maximum discharge at crest-stage partial-record stations (Continued)

Station name and number	Location and drainage area	Period of record	Water year 1996 maximum			Period of record maximum		
			Date	Gage height (ft)	Dis- charge (ft ³ /s)	Date	Gage height (ft)	Dis- charge (ft ³ /s)
SCIOTO RIVER BASIN								
Deer Creek at Williamsport, OH (03231000)	Lat 39°35'09", long 83°07'22", Pickaway County, Hydrologic Unit 05060002, on left bank at downstream side of bridge on U.S. Highway 22 at west edge of Williamsport, 2.0 mi downstream from Dry Run, and 7.6 mi upstream from Hay Run. Drainage area is 333 mi ² .	1926-35 ≠ 1938-56 ≠ 1959-61 1962-91 ≠ 1992-96	2-1-96	9.05	2,960	1-22-59	17.60	39,600
Paint Creek below Paint Creek Dam, near Bainbridge, OH (03232470)	Lat 39°15'08", long 83°20'58", Highland County, Hydrologic Unit 05060003, on right bank, 400 ft downstream from Paint Creek dam, 700 ft upstream from Cliff Creek, and 4.5 mi northwest of Bainbridge. Drainage area is 570 mi ² .	1962-63 1963-67 1967-91 ≠ 1992-96	1-2-96	8.77	7,780	3-10-64	27.30	45,000
GREAT MIAMI RIVER BASIN								
Great Miami River at Miamisburg, OH (03271500)	Lat 39°38'40", long 84°17'32", Montgomery County, Hydrologic Unit 05080002, on left bank 600 ft downstream from bridge on U.S. Highway 725, at Miamisburg, 0.3 mi downstream from Bear Creek, 3.2 mi upstream from Craine Run, and at mile 66.4. Drainage area is 2,711 mi ² .	1916-20 ≠ 1924-35 ≠ 1952-95 ≠ 1996	4-30-96	14.95	33,100	1-21-59	21.30	61,800

* Operated as a continuous-record gaging station

180 PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS

For continuous-record surface-water-discharge stations meeting certain criteria, all peak discharges and stages occurring during the water year and greater than a selected base discharge are presented in this table. The peaks greater than the base discharge, excluding the highest one, are referred to as secondary peaks. The peaks are listed in chronological order. Peak discharges are not published for canals, ditches, drains, or streams for which the peaks are subject to substantial control by human intervention. The time of occurrence for peaks is expressed in 24-hour local standard time. For example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330. The maximum peak discharge and gage height for the water year are flagged with an asterisk (*). Note: b = ice jam, c = observed, e = estimated.

Peak discharges equal to or greater than base discharges, water year October 1995 to September 1996

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
OHIO RIVER BASIN							
BEAVER RIVER BASIN							
03093000 EAGLE CREEK AT PHALANX STATION, OH (Base discharge: 1,300 ft ³ /s)							
Jan. 19	2000	*4,420	*12.72	Apr. 24	0700	2,760	11.80
Feb. 28	1400	1,510	10.25	May 1	0300	1,640	10.49
Mar. 6	1700	1,380	10.00	May 12	0400	3,850	12.46
Mar. 20	1900	2,640	11.69				
LITTLE BEAVER CREEK BASIN							
03109500 LITTLE BEAVER CREEK NEAR EAST LIVERPOOL, OH (Base discharge: 5,000 ft ³ /s)							
Jan. 19	Unknown	e*8,600	e*10.89	May 11	2100	6,600	9.76
Mar. 20	0800	7,610	10.35				
YELLOW CREEK BASIN							
03110000 YELLOW CREEK NEAR HAMMONDSVILLE, OH (Base discharge: 2,000 ft ³ /s)							
Jan. 19	2000	*4,050	*8.33				
SHORT CREEK BASIN							
03111500 SHORT CREEK NEAR DILLONVALE, OH (Base discharge: 1,200 ft ³ /s)							
Jan. 19	0830	3,410	8.90	May 9	0130	*3,970	*9.51
Feb. 20	1730	1,260	5.65	Jul. 19	0300	1,620	6.38
WHEELING CREEK BASIN							
03111548 WHEELING CREEK BELOW BLAINE, OH (Base discharge: 1,500 ft ³ /s)							
Jan. 19	0930	2,950	6.10	May 9	0230	3,080	6.22
Feb. 28	0500	1,520	4.51	May 17	0200	1,560	4.57
Mar. 20	0100	1,970	5.06	Jun. 19	0630	*4,720	*7.63
CAPTINA CREEK BASIN							
03114000 CAPTINA CREEK AT ARMSTRONGS MILLS, OH (Base discharge: 3,000 ft ³ /s)							
Jan. 19	0800	*6,560	*10.11	Mar. 19	2100	3,990	8.15
Feb. 28	0330	5,250	9.17				
LITTLE MUSKINGUM RIVER BASIN							
03115400 LITTLE MUSKINGUM RIVER AT BLOOMFIELD, OH (Base discharge: 3,000 ft ³ /s)							
Dec. 20	0115	3,920	16.68	May 9	2345	5,170	19.08
Jan. 19	2000	*5,950	*20.34	May 17	0830	3,060	14.58
Jan. 24	1830	5,370	19.43	Jun. 19	1800	3,740	16.25
Feb. 21	0030	3,350	15.32	Jul. 20	0115	5,440	19.54
Feb. 28	1230	4,310	17.48	Jul. 31	0430	4,950	18.67
Mar. 6	1645	5,040	18.84	Sep. 17	1215	4,700	18.22
Mar. 20	0730	3,400	15.43				

PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS 181

Peak discharges equal to or greater than base discharges, water year October 1995 to September 1996

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
MUSKINGUM RIVER BASIN							
03115969 MONTROSE RUN AT MONTROSE, OH (Base discharge: 30 ft ³ /s revised)							
Jun. 6	1320	*43	*12.27				
03115970 SCHOCALOG RUN AT MONTROSE, OH (Base discharge: 50 ft ³ /s revised)							
Oct. 5	2240	45	*13.41	Apr. 30	0655	52	13.06
Jan. 19	0600	*59	13.22	May 11	1520	55	13.14
Apr. 23	1535	59	13.22				
03115971 SCHOCALOG RUN AT FAIRLAWN, OH (Base discharge: 70 ft ³ /s revised)							
Jan. 19	0500	*95	*12.57	May 11	1245	74	12.28
Apr. 23	1220	72	12.25				
03115973 SCHOCALOG RUN AT COPLEY JUNCTION, OH (Base discharge: 90 ft ³ /s revised)							
Jan. 19	0705	*110	*12.46	Apr. 30	0650	101	12.37
Apr. 23	1520	104	12.40	May 11	1510	106	12.42
03117500 SANDY CREEK AT WAYNESBURG, OH (Base discharge: 1,800 ft ³ /s)							
Jan. 19	1900	*5,170	*8.13	May 12	0900	3,140	6.56
Mar. 20	1700	2,810	6.14	May 18	0200	3,350	6.82
Apr. 30	2400	2,300	5.44				
03118000 MIDDLE BRANCH NIMISHILLEN CREEK AT CANTON, OH (Base discharge: 400 ft ³ /s)							
Jan. 19	Unknown	e*704	e*5.58	May 11	Unknown	e580	e5.20
Mar. 20	1500	442	4.63	May 17	Unknown	e500	e4.89
Apr. 30	Unknown	e420	e4.50	Jun. 14	Unknown	e420	e4.50
03118500 NIMISHILLEN CREEK AT NORTH INDUSTRY, OH (Base discharge: 2,000 ft ³ /s)							
Jan. 19	1130	2,230	6.68	May 17	1700	*2,870	*7.62
Mar. 20	0830	2,210	6.64	Jun. 14	1330	2,170	6.58
May 11	2100	2,340	6.84	Sep. 28	0900	2,250	6.70
03139000 KILLBUCK CREEK AT KILLBUCK, OH (Base discharge: 2,000 ft ³ /s)							
Jan. 19	1900	*2,910	*16.53	Apr. 30	2330	2,580	16.23
Mar. 20	2230	2,190	15.73	May 12	1130	2,890	16.51
03140000 MILL CREEK NEAR COSHOCTON, OH (Base discharge: 700 ft ³ /s)							
Jan. 19	0630	*1,200	*10.22	May 11	1615	724	8.52
03144000 WAKATOMIKA CREEK NEAR FRAZEYSBURG, OH (Base discharge: 1,600 ft ³ /s)							
Jan. 19	1530	4,340	7.99	Apr. 24	0200	1,780	5.04
Jan. 24	1430	1,680	4.91	Apr. 30	1300	*4,770	*8.38
Feb. 27	1900	1,750	5.00	May 12	0300	1,970	5.31
Mar. 20	1200	2,160	5.57	May 17	0700	2,160	5.57
03146500 LICKING RIVER NEAR NEWARK, OH (Base discharge: 6,500 ft ³ /s)							
Jan. 19	0930	13,000	12.59	Apr. 24	0100	8,410	10.45
Jan. 24	1200	7,580	10.21	Apr. 30	1100	*14,200	*12.96
Feb. 27	Unknown	e7,000	b	May 11	2100	8,310	10.58
Mar. 20	0730	7,790	10.12				
HOCKING RIVER BASIN							
03157000 CLEAR CREEK NEAR ROCKBRIDGE, OH (Base discharge: 1,900 ft ³ /s)							
Jun. 15	0015	*2,020	*7.38				

182 PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS

Peak discharges equal to or greater than base discharges, water year October 1995 to September 1996

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
HOCKING RIVER BASIN--Continued							
03157500 HOCKING RIVER AT ENTERPRISE, OH (Base discharge: 3,500 ft ³ /s)							
Jan. 19	1700	5,900	12.36	May 5	0400	4,210	9.79
Jan. 24	1600	4,880	11.16	May 9	1700	4,990	10.98
Feb. 28	1030	3,980	9.43	May 16	0800	4,470	10.19
Mar. 6	2000	3,590	8.79	May 29	1900	5,250	11.30
Mar. 20	1300	4,920	10.88	Jun. 15	0500	5,790	11.91
Apr. 30	1800	*6,270	*12.44				
SHADE RIVER BASIN							
03159540 SHADE RIVER NEAR CHESTER, OH (Base discharge: 2,400 ft ³ /s)							
Jan. 19	1130	2,880	18.07	May 5	0130	*3,850	*20.57
Jan. 25	0200	3,660	20.10	May 17	0100	2,500	17.04
RACoon CREEK BASIN							
03202000 RACoon CREEK NEAR ADAMSVILLE, OH (Base discharge: 3,000 ft ³ /s)							
Dec. 19	2100	3,110	11.82	Mar. 22	1330	3,760	13.20
Jan. 27	0100	e*5,400	b*16.75	Jun. 9	1500	3,230	12.08
SCIOTO RIVER BASIN							
03219500 SCIOTO RIVER NEAR PROSPECT, OH (Base discharge: 3,600 ft ³ /s)							
Jan. 20	1500	*7,260	*13.13	Apr. 25	1900	4,870	10.52
Jan. 26	0200	4,120	9.61	May 2	0200	5,320	11.04
Feb. 29	1800	4,970	10.64	May 11	1500	3,770	9.17
03219590 BOKES CREEK NEAR WARRENSBURG, OH (Base discharge: 800 ft ³ /s)							
Jan. 19	0815	*3,970	*12.75	Apr. 30	1900	1,800	10.48
Jan. 25	0315	1,050	9.43	May 12	0030	1,700	10.35
Feb. 28	2330	1,270	9.75	Jul. 20	1215	1,030	9.39
Apr. 24	2245	1,680	10.32				
03220000 MILL CREEK NEAR BELLEPOINT, OH (Base discharge: 2,500 ft ³ /s)							
Jan. 19	0800	*7,400	b*10.18	Apr. 30	0715	4,770	8.74
Jan. 24	0500	2,580	7.09	May 11	1330	4,880	8.81
Apr. 23	1530	3,730	8.04	Jun. 7	1915	3,150	7.59
03223000 OLENTANGY RIVER AT CLARIDON, OH (Base discharge: 1,500 ft ³ /s)							
Jan. 19	0300	*4,550	*12.48	Apr. 24	0730	2,210	9.86
Jan. 24	2330	1,660	8.53	Apr. 30	2200	2,180	9.81
Feb. 28	1400	1,950	9.36	Jun. 8	1600	1,500	8.06
03228300 BIG WALNUT CREEK AT SUNBURY, OH (Base discharge: 2,200 ft ³ /s)							
Jan. 17	2300	3,330	9.46	Apr. 24	1230	3,270	9.42
Jan. 24	0800	2,380	8.76	May 11	1730	*4,520	*10.17
Apr. 23	1930	3,770	9.74	Jun. 8	0300	2,280	8.68

PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS 183

Peak discharges equal to or greater than base discharges, water year October 1995 to September 1996

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
SCIOTO RIVER BASIN--Continued							
03230310 LITTLE DARBY CREEK AT WEST JEFFERSON, OH (Base discharge: 1000 ft ³ /s)							
Jan. 19	1215	*3,800	*13.00	May 9	1500	3,740	12.94
Jan. 25	0215	1,700	10.30	May 12	0630	2,730	11.86
Feb. 28	1600	1,520	9.93	May 16	1130	1,340	9.51
Mar. 20	1800	1,030	8.76	Jun. 8	1430	1,930	10.73
Apr. 24	1045	1,850	10.59	Jun. 10	2245	1,250	9.31
Apr. 30	0248	3,600	12.80	Jul. 18	1200	1,220	9.23
May 5	1400	1,300	9.41				
03230450 HELLBRANCH RUN NEAR HARRISBURG, OH (Base discharge: 300 ft ³ /s)							
Oct. 5	2315	335	6.71	Apr. 1	Unknown	e700	Unknown
Jan. 19	Unknown	e*1,300	e*9.80	Apr. 23	1545	640	7.84
Jan. 24	0545	526	7.42	Apr. 30	Unknown	1,200	Unknown
Feb. 24	Unknown	e350	Unknown	May 29	Unknown	e520	Unknown
Mar. 20	Unknown	e500	Unknown	Jul. 18	Unknown	e500	Unknown
03230500 BIG DARBY CREEK AT DARBYVILLE, OH (Base discharge: 4,500 ft ³ /s)							
Jan. 19	Unknown	e*13,000	e*13.65	May 5	2030	4,720	8.92
Jan. 25	Unknown	e6,400	Unknown	May 10	0430	8,020	11.10
Feb. 28	Unknown	e5,600	Unknown	May 13	0445	8,860	11.47
Apr. 25	0545	5,650	10.00	Jun. 8	2130	4,590	8.80
May 1	0245	11,400	12.60				
03230800 DEER CREEK AT MOUNT STERLING, OH (Base discharge: 1,900 ft ³ /s)							
Jan. 19	1000	*9,280	*11.49	May 6	0500	3,210	8.85
Jan. 24	1530	3,280	8.91	May 9	1700	5,410	10.20
Mar. 20	0800	3,000	8.68	May 16	0400	1,920	7.67
Apr. 24	0500	4,330	9.60	May 30	0030	3,980	9.38
Apr. 29	2330	6,730	10.75				
03232000 PAINT CREEK NEAR GREENFIELD, OH (Base discharge: 2,000 ft ³ /s)							
Jan. 20	0030	4,880	9.31	May 9	0400	2,850	7.35
Jan. 24	0500	3,250	7.79	May 11	1530	4,110	8.64
Mar. 19	2300	2,540	6.99	May 16	0100	2,570	7.02
Apr. 24	2100	2,110	6.43	May 27	2030	2,060	6.36
Apr. 30	1430	*5,740	*9.96	Jun. 7	1200	3,210	7.75
May 4	1100	4,010	8.55				
UPPER TWIN CREEK BASIN							
03237280 UPPER TWIN CREEK AT MCGAW, OH (Base discharge: 450 ft ³ /s)							
Jan. 24	0430	1,710	7.75	May 15	2200	*3,250	*8.83
Apr. 1	0830	1,530	7.78	May 27	Unknown	900	Unknown
May 4	0315	1,490	7.65	Jul. 31	0245	660	6.17
OHIO BRUSH CREEK BASIN							
03237500 OHIO BRUSH CREEK NEAR WEST UNION, OH (Base discharge: 11,000 ft ³ /s)							
Jan. 19	0900	12,100	14.35	May 5	0245	13,200	15.12
Jan. 24	1145	*21,300	*19.39	May 15	2100	15,500	16.43
Apr. 1	1200	12,200	14.43	May 28	0130	17,300	17.43

184 PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS

Peak discharges equal to or greater than base discharges, water year October 1995 to September 1996

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
WHITEOAK CREEK BASIN							
03238500 WHITEOAK CREEK NEAR GEORGETOWN, OH (Base discharge: 5,500 ft ³ /s)							
Dec. 20	0100	5,810	6.21	May 4	1900	6,050	6.30
Jan. 19	1230	7,420	6.76	May 11	1630	6,480	6.45
Jan. 24	1430	9,840	7.46	May 15	2330	*14,800	*8.66
Feb. 28	1030	5,720	6.18	May 28	0330	8,790	7.17
Mar. 20	0030	7,520	6.79	Jun. 7	1400	6,420	6.43
Apr. 1	1330	10,300	7.57	Jun. 9	0830	5,920	6.25
Apr. 23	2300	5,640	6.15	Jun. 12	0930	5,510	6.10
Apr. 30	0200	9,580	7.39	Sep. 28	1830	6,990	6.62
LITTLE MIAMI RIVER BASIN							
03240000 LITTLE MIAMI RIVER NEAR OLDTOWN, OH (Base discharge: 800 ft ³ /s)							
Jan. 19	1315	2,320	8.13	May 9	1530	2,050	6.79
Jan. 24	1545	1,180	5.70	May 11	1245	2,160	6.98
Mar. 20	1100	901	4.82	May 29	2100	1,600	6.00
Apr. 24	0400	1,440	6.48	Jun. 3	2130	1,640	6.08
Apr. 29	2300	*4,260	*9.57	Jun. 7	1945	1,900	6.54
May 4	2115	1,400	5.62				
03241500 MASSIES CREEK AT WILBERFORCE, OH (Base discharge: 600 ft ³ /s)							
Jan. 19	0300	1,030	6.48	May 5	1930	916	6.16
Jan. 24	1230	781	5.76	May 8	0800	737	5.62
Mar. 20	0430	601	5.19	May 11	1130	902	6.12
Apr. 23	1500	944	6.24	May 29	1700	784	5.77
Apr. 29	2030	*1,730	*8.15	Jun. 7	1900	690	5.47
03245500 LITTLE MIAMI RIVER AT MILFORD, OH (Base discharge: 15,000 ft ³ /s)							
Jan. 19	0630	22,200	15.11	May 4	1245	25,700	16.07
Jan. 24	0615	18,600	14.06	May 8	1700	15,400	13.05
Mar. 19	2200	17,200	13.63	May 11	1000	*39,900	*19.38
Apr. 1	0815	17,800	13.80	May 15	1745	26,700	16.33
Apr. 23	1900	17,700	13.77	Jun. 9	0530	20,800	14.72
Apr. 29	1230	38,000	18.98				
GREAT MIAMI RIVER BASIN							
03260706 BOKENGEHALAS CREEK AT DE GRAFF, OH (Base discharge: 350 ft ³ /s)							
Jan. 18	Unknown	e*650	e*5.26	May 6	0200	368	3.97
Jan. 24	Unknown	e600	e5.00	May 11	1500	478	4.45
Apr. 24	0045	586	4.94	May 17	0030	377	4.01
Apr. 30	0630	548	4.77				
03261500 GREAT MIAMI RIVER AT SIDNEY, OH (Base discharge: 4,000 ft ³ /s)							
Jan. 19	0600	*7,320	*10.68	Apr. 30	0930	5,720	9.30
Jan. 24	0600	4,450	8.07	May 11	1730	4,280	7.90
Apr. 23	1830	5,060	8.68				
03261950 LORAMIE CREEK NEAR NEWPORT, OH (Base discharge: 1,500 ft ³ /s)							
Jan. 19	0730	*4,600	*13.59	Apr. 24	0200	2,260	11.34
Jan. 24	1630	1,610	10.28	Apr. 30	0900	2,680	11.81

PEAK DISCHARGES AND STAGES AT CONTINUOUS-RECORD SURFACE DISCHARGE STATIONS

185

Peak discharges equal to or greater than base discharges, water year October 1995 to September 1996

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
GREAT MIAMI RIVER BASIN--Continued							
03264000 GREENVILLE CREEK NEAR BRADFORD, OH (Base discharge: 1,500 ft ³ /s)							
Jan. 19	0630	*4,420	*8.57	Apr. 30	0930	3,390	7.46
Jan. 24	2000	1,870	5.48	May 5	0130	1,550	4.96
Feb. 28	0400	2,070	5.77	May 9	2200	2,100	5.81
Apr. 24	1400	2,600	6.50				
03265000 STILLWATER RIVER AT PLEASANT HILL, OH (Base discharge: 5,000 ft ³ /s)							
Jan. 19	0830	*14,300	*15.40	Apr. 24	0200	8,170	11.46
Jan. 24	1330	6,160	9.68	Apr. 30	0500	9,680	12.62
Feb. 28	0230	6,250	9.77	May 11	1730	5,340	8.89
03267000 MAD RIVER NEAR URBANA, OH (Base discharge: 1,400 ft ³ /s)							
Jan. 19	0700	2,060	6.42	Apr. 29	1700	2,300	6.74
Jan. 24	0600	1,760	5.99	May 11	2030	*3,150	*7.80
Apr. 23	1900	2,060	6.42				
03271000 WOLF CREEK AT DAYTON, OH (Base discharge: 1,400 ft ³ /s)							
Jan. 19	0200	2,880	6.58	May 11	1015	4,540	8.20
Jan. 24	0015	1,700	5.45	May 28	2245	2,900	6.60
Feb. 27	2300	1,790	5.54	Jun. 7	1715	2,250	6.00
Apr. 23	1230	2,770	6.47	Jun. 9	0215	2,940	6.64
Apr. 29	0600	*7,480	*11.10	Sep. 27	2200	1,400	5.15
May 4	1845	2,130	5.89				
03271800 TWIN CREEK NEAR INGOMAR, OH (Base discharge: 4,700 ft ³ /s)							
Jan. 19	0230	8,630	10.10	May 11	1200	8,720	10.15
Apr. 23	1600	4,770	7.44	Jun. 9	0500	8,180	9.82
Apr. 29	0815	*12,700	*12.33				
03272700 SEVENMILE CREEK AT CAMDEN, OH (Base discharge: 1,500 ft ³ /s)							
Jan. 19	0015	3,300	9.84	May 11	0830	3,810	10.40
Apr. 29	0530	*6,610	*13.33	May 27	1215	1,830	7.83
May 4	0545	2,650	9.07	Jun. 9	0045	2,320	8.58
May 8	0500	1,770	7.73				

GROUND-WATER RECORDS

ASHLAND COUNTY

405303082170700. Local number, AS-2.

LOCATION.--Lat 40°53'03", long 82°17'07", Hydrologic Unit 05040002, Jerome Fork well field 2 mi northeast of Ashland.

Owner: Ashland Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 64 ft, cased.

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

DATUM.--Elevation of land-surface datum is 980 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

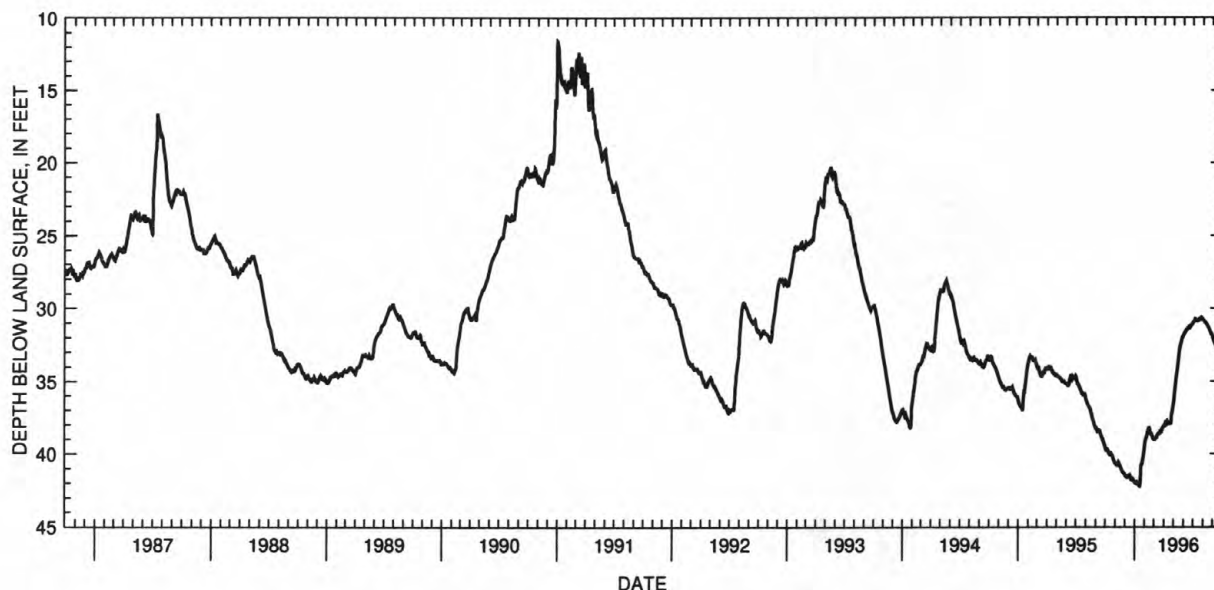
PERIOD OF RECORD.--March 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 42.25 ft below land-surface datum, Jan. 17-18, 1996;
minimum daily low, 11.56 ft below land-surface datum, Jan. 1, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.57	40.64	41.42	41.95	39.58	38.97	38.12	36.58	31.88	31.02	30.76	31.94
2	39.65	40.66	41.43	41.96	39.36	38.97	38.10	36.42	31.82	30.97	30.79	32.02
3	39.69	40.69	41.48	42.00	39.17	39.04	38.05	36.19	31.80	30.94	30.81	32.08
4	39.76	40.70	41.53	42.02	39.06	39.04	38.04	35.96	31.72	30.92	30.82	32.16
5	39.75	40.74	41.54	42.04	39.03	38.95	38.04	35.79	31.72	30.90	30.85	32.21
6	39.72	40.78	41.57	42.04	38.97	38.93	37.98	35.52	31.69	30.86	30.88	32.23
7	39.68	40.83	41.62	42.03	38.90	38.93	37.82	35.33	31.63	30.80	30.92	32.32
8	39.68	40.83	41.64	41.97	38.82	38.92	37.82	35.09	31.59	30.73	30.96	32.40
9	39.73	40.79	41.64	42.02	38.68	38.89	37.80	34.94	31.53	30.74	31.01	32.46
10	39.80	40.72	41.64	42.06	38.56	38.88	37.79	34.71	31.51	30.81	31.00	32.49
11	39.87	40.66	41.58	42.05	38.45	38.81	37.77	34.50	31.49	30.79	31.02	32.52
12	39.90	40.62	41.55	41.97	38.41	38.75	37.94	34.38	31.46	30.80	31.04	32.58
13	39.97	40.65	41.53	41.98	38.35	38.67	37.90	34.19	31.44	30.81	31.09	32.63
14	40.02	40.69	41.49	42.04	38.24	38.64	37.89	34.01	31.39	30.82	31.13	32.68
15	40.07	40.75	41.47	42.13	38.24	38.61	37.87	33.79	31.37	30.83	31.18	32.74
16	40.09	40.79	41.45	42.20	38.23	38.65	37.90	33.58	31.34	30.85	31.23	32.77
17	40.08	40.81	41.44	42.25	38.29	38.66	37.91	33.38	31.30	30.84	31.25	32.84
18	40.01	40.89	41.53	42.25	38.39	38.66	37.87	33.21	31.27	30.81	31.29	32.87
19	39.99	40.95	41.63	41.92	38.50	38.58	37.88	33.07	31.30	30.78	31.32	32.89
20	40.04	41.03	41.67	41.40	38.58	38.47	37.92	32.86	31.34	30.78	31.36	32.91
21	40.06	41.07	41.69	40.86	38.65	38.47	37.93	32.70	31.35	30.75	31.42	32.91
22	40.06	41.12	41.77	40.78	38.66	38.47	37.94	32.61	31.26	30.68	31.48	32.94
23	40.07	41.19	41.82	40.70	38.66	38.52	37.94	32.52	31.24	30.68	31.55	32.97
24	40.18	41.23	41.83	40.67	38.75	38.52	37.87	32.44	31.19	30.70	31.58	32.97
25	40.24	41.26	41.82	40.67	38.79	38.39	37.39	32.36	31.20	30.74	31.64	33.03
26	40.30	41.27	41.76	40.56	38.85	38.37	37.26	32.25	31.19	30.78	31.69	33.06
27	40.40	41.30	41.78	40.38	38.88	38.30	37.22	32.11	31.15	30.78	31.73	33.11
28	40.48	41.35	41.78	40.30	39.00	38.24	37.06	32.05	31.12	30.75	31.76	33.16
29	40.52	41.35	41.84	40.08	39.00	38.20	36.86	31.98	31.09	30.67	31.79	33.23
30	40.58	41.36	41.88	39.98	---	38.18	36.67	31.97	31.04	30.69	31.82	33.31
31	40.63	---	41.91	39.76	---	38.14	---	31.95	---	30.73	31.86	---
MAX	40.63	41.36	41.91	42.25	39.58	39.04	38.12	36.58	31.88	31.02	31.86	33.31

CAL YR 1995 LOW 41.91

WTR YR 1996 LOW 42.25



GROUND-WATER RECORDS

187

ASHLAND COUNTY--Continued

405425082173000. Local number. AS-3.

LOCATION.--Lat 40°54'25", long 82°17'30", Hydrologic Unit 05040002, Ashland Bates well field along Jerome Fork near Ashland.

Owner: Ashland Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 78 ft, cased.

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

DATUM.--Elevation of land-surface datum is 990 ft above sea level, from topographic map.

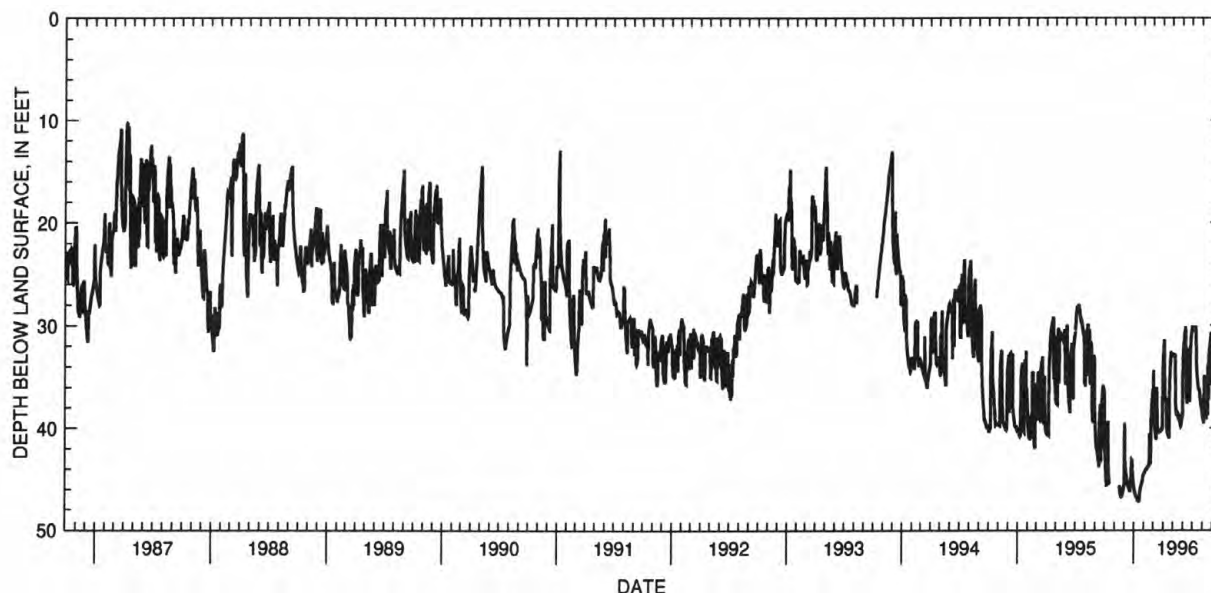
Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 47.29 ft below land-surface datum, Jan. 17, 1996;
minimum daily low, 3.10 ft, above land-surface, Feb. 23, 1978.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.16	---	45.60	45.80	44.47	34.96	33.19	32.92	33.75	30.22	38.79	31.59
2	42.12	---	40.71	45.96	44.48	34.34	32.63	32.92	32.87	30.21	38.99	30.82
3	42.96	---	39.52	46.18	44.34	39.00	32.01	32.90	32.32	30.28	39.21	30.45
4	43.73	---	43.04	46.34	44.23	39.30	31.43	32.95	31.79	30.31	39.44	30.17
5	44.59	---	43.74	46.45	44.19	39.73	36.33	32.94	31.48	30.34	39.57	29.95
6	45.16	---	44.05	46.54	44.15	40.18	36.81	33.00	31.11	30.38	34.83	35.01
7	45.64	---	44.40	46.62	44.04	40.42	36.99	32.92	30.73	30.41	37.82	35.90
8	45.72	---	44.60	46.68	44.00	40.74	37.14	32.91	30.46	30.45	38.55	36.44
9	40.53	---	44.91	46.78	43.99	41.03	37.22	37.33	30.12	30.52	38.97	36.57
10	40.01	---	45.10	46.81	43.93	41.13	37.55	38.10	33.59	30.34	38.99	31.26
11	39.66	---	45.30	46.84	43.97	36.00	37.91	38.54	35.49	30.05	38.99	30.67
12	39.29	---	45.40	47.01	43.91	36.66	39.98	38.51	36.49	31.63	38.97	30.29
13	43.57	---	45.55	47.10	43.86	39.47	40.31	38.45	37.22	33.61	39.00	29.97
14	44.49	---	45.72	47.15	43.82	40.00	40.49	38.33	37.66	34.22	37.65	29.77
15	45.04	---	45.76	47.17	43.80	40.30	40.57	38.52	33.12	34.75	38.18	29.60
16	45.39	45.61	45.87	47.19	43.75	40.34	40.67	38.78	32.52	35.12	38.64	29.36
17	45.49	45.85	45.94	47.29	43.72	40.38	40.75	38.98	32.23	35.44	38.79	28.97
18	45.51	46.14	46.01	47.10	40.58	40.39	40.82	38.96	36.52	35.77	33.85	28.83
19	---	46.42	46.13	46.61	43.11	40.37	41.04	38.78	37.03	36.15	36.93	28.72
20	---	46.45	46.13	46.12	43.41	40.41	36.64	38.81	37.23	36.18	37.25	28.60
21	---	46.63	45.56	46.02	43.48	40.39	35.21	39.02	37.18	36.19	32.89	28.49
22	---	46.68	45.63	45.75	43.57	40.36	34.31	39.20	37.35	36.20	32.41	28.39
23	---	46.72	43.91	45.63	39.15	40.35	33.75	39.41	37.42	36.53	32.14	28.36
24	---	46.69	43.75	45.63	38.49	40.31	33.10	39.66	32.80	36.92	31.86	28.27
25	---	46.57	43.07	45.55	37.95	40.28	32.56	39.85	31.94	37.19	31.58	28.21
26	---	46.44	43.11	45.30	37.34	40.19	32.82	39.81	31.45	37.45	31.10	28.14
27	---	46.26	43.76	45.24	36.94	40.17	32.82	39.51	31.05	37.83	30.85	28.04
28	---	46.13	44.55	45.03	36.21	40.00	32.87	39.17	30.66	37.82	30.68	27.98
29	---	45.91	44.97	44.69	39.17	39.98	32.86	39.09	30.38	38.02	34.43	27.87
30	---	45.77	45.31	44.59	---	35.86	32.91	38.52	30.21	38.24	35.53	31.38
31	---	---	45.60	44.55	---	33.94	---	38.87	---	38.48	35.79	---
MAX	45.72	46.72	46.13	47.29	44.48	41.13	41.04	39.85	37.66	38.48	39.57	36.57
CAL YR 1995	LOW 46.72											
WTR YR 1996	LOW 47.29											



GROUND-WATER RECORDS

ATHENS COUNTY

32004082071600. Local number, AT-2A.

LOCATION.--Lat 39°20'04", long 82°07'16", Hydrologic Unit 05030204, 1.1 mi west of city hall in Athens.

Owner: City of Athens.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 641.81 ft above sea level.

Measuring point: Floor of instrument shelter, 5.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to water year 1978, well depth reported as 43 ft.

PERIOD OF RECORD.--March 1954 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured low, 21.52 ft below land-surface datum, Oct. 15, 1993;
minimum daily low, 1.05 ft below land-surface datum, May 25, 28, 1968.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 13, 1995	18.01
Apr. 1, 1996	17.05
July 23, 1996	17.99

GROUND-WATER RECORDS

189

ATHENS COUNTY--Continued

392009082072200. Local number, AT-5

LOCATION.--Lat 39°20'09", long 82°07'22", Hydrologic Unit 05030204, in Athens well field along Hocking River.

Owner: Athens Water Department.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 48 ft, cased.

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

DATUM.--Elevation of land surface datum is 640 ft above sea level, from topographic map.

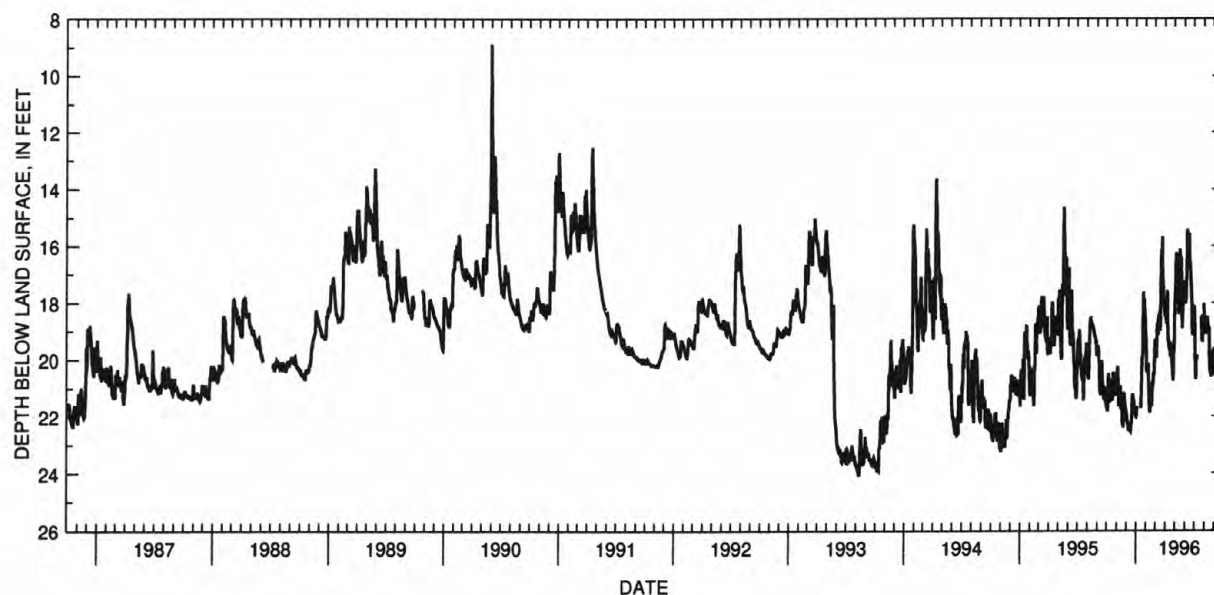
Measuring point: Floor of instrument shelter, 4.75 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.06 ft below land-surface datum, Aug. 12, 13, 1993;
minimum daily low 8.87 ft below land-surface datum, May 31, 1990.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.64	20.94	21.78	22.00	19.00	19.39	18.36	18.71	17.51	18.71	18.04	19.96
2	21.70	21.05	21.86	22.02	19.23	19.30	18.34	18.08	17.76	18.11	18.57	20.15
3	21.75	20.70	21.96	21.98	19.76	19.45	18.36	17.64	17.66	18.57	18.78	20.59
4	21.79	20.46	22.04	21.73	20.37	19.66	18.49	17.64	18.03	19.79	19.05	20.23
5	21.79	20.32	22.15	21.72	20.47	19.81	18.61	16.92	17.94	20.46	18.67	20.35
6	21.48	20.24	22.21	21.75	20.20	19.94	18.76	16.35	17.83	20.71	19.03	19.97
7	20.84	20.71	22.29	---	20.45	19.15	18.05	16.25	17.40	20.05	19.05	19.80
8	20.49	20.96	22.35	---	20.19	18.72	18.37	17.38	17.04	19.97	19.10	19.28
9	20.93	21.67	22.43	---	20.19	18.77	17.57	17.51	16.55	19.85	18.76	19.47
10	21.15	21.54	22.48	---	20.69	19.10	18.98	17.44	15.41	20.00	18.70	19.77
11	21.33	21.55	22.54	---	21.15	19.15	19.29	17.75	15.62	---	18.48	19.87
12	21.44	21.34	22.26	---	21.45	18.43	19.29	17.71	16.20	---	18.48	20.14
13	21.52	21.16	22.40	---	21.77	18.63	19.48	17.91	16.43	---	18.83	20.17
14	21.24	20.94	22.44	---	21.88	18.91	19.58	18.20	16.61	---	18.89	20.46
15	20.69	21.14	22.51	---	21.42	18.42	19.62	18.42	16.66	---	19.11	---
16	20.84	21.78	22.52	---	21.44	18.43	19.60	17.59	15.57	---	18.99	---
17	21.07	21.64	22.35	21.73	21.22	18.99	19.64	16.41	16.18	---	18.87	---
18	21.26	21.66	22.23	21.38	21.23	18.76	19.91	16.11	16.56	---	19.72	---
19	21.39	21.56	22.20	20.80	21.67	17.61	19.55	16.38	16.62	---	20.45	---
20	21.46	22.15	21.75	20.03	21.53	17.01	19.53	17.03	16.76	---	20.37	---
21	21.15	22.34	21.36	19.96	21.21	16.13	19.57	17.13	17.12	---	20.25	---
22	20.72	22.15	21.22	19.92	20.90	16.37	19.58	16.39	17.39	---	20.62	---
23	20.45	22.42	21.28	19.73	20.73	16.45	20.18	17.02	17.71	18.49	20.53	---
24	20.89	21.66	21.38	18.64	20.93	15.68	20.28	18.21	17.90	18.49	20.13	---
25	21.06	21.67	21.45	17.63	20.53	16.83	20.47	18.91	18.96	19.25	20.54	---
26	21.13	21.15	21.47	17.94	20.46	17.23	20.64	18.57	19.17	19.35	20.36	---
27	20.64	21.44	21.56	17.96	20.61	17.55	20.75	18.21	19.01	19.35	20.36	---
28	21.02	21.58	21.79	17.94	20.31	17.83	19.57	17.85	19.12	18.82	20.13	---
29	21.21	21.67	21.73	18.15	19.89	18.00	19.78	17.76	18.60	---	19.85	---
30	21.27	21.72	21.83	18.37	---	18.15	19.48	17.36	18.77	---	19.69	---
31	20.87	---	21.92	18.68	---	18.17	---	17.23	---	18.13	19.67	---
MAX	21.79	22.42	22.54	22.02	21.88	19.94	20.75	18.91	19.17	20.71	20.62	20.59
CAL YR 1995	LOW 22.54											
WTR YR 1996	LOW 22.54											



GROUND-WATER RECORDS

AUGLAIZE COUNTY

403233083574500. Local number, AU-3.

LOCATION.--Lat 40°32'33", long 83°57'45", Hydrologic Unit 05080001, 1.0 mi Southwest of New Hampshire.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 380 ft, cased to 52 ft.

INSTRUMENTATION.--Periodic measurements with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,020 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--December 1974 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 11.87 ft below land-surface datum, Feb. 7-8, 1977;

minimum measured low, 4.08 ft below land-surface datum, June 12, 1996.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 31, 1995	5.96
Mar. 28, 1996	5.15
June 12, 1996	4.08
June 27, 1996	4.74
July 3, 1996	4.92

GROUND-WATER RECORDS

191

BELMONT COUNTY

400118081082200. Local number, B-3.

LOCATION.--Lat 40°01'18", long 81°08'22", Hydrologic Unit 05040001, Mt. Olivett Public Square, Mt. Olivett, Oh.

Owner: Village of Mt. Olivett.

AQUIFER.--Shale of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 119 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,265 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter, 1.5 ft. above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

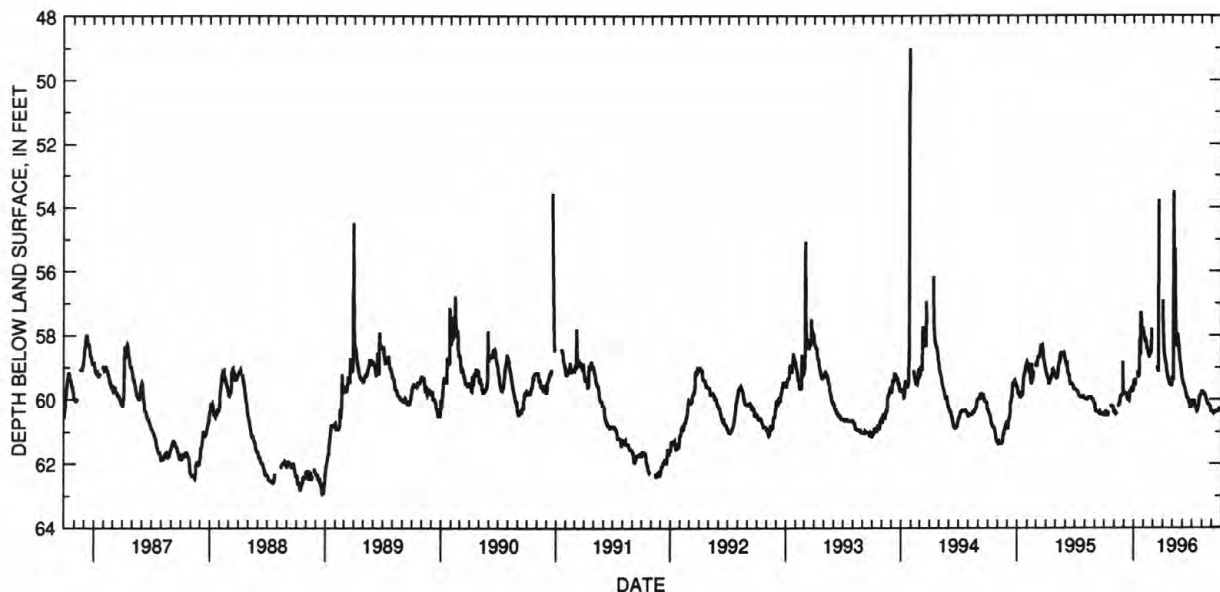
PERIOD OF RECORD.--July 19, 1984, to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 62.94 ft below land-surface datum, Dec. 26, 1988;

minimum daily low, 49.00 ft below land-surface datum, Jan. 28, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.49	60.39	59.80	59.57	57.83	---	---	59.30	59.34	60.14	59.76	60.35
2	60.48	60.37	59.80	59.47	57.88	---	56.90	59.33	59.38	60.10	59.75	60.37
3	60.48	60.32	59.80	59.37	57.94	---	57.57	59.35	59.41	60.04	59.75	60.38
4	60.48	60.40	59.79	59.48	58.05	---	58.00	59.36	59.46	60.04	59.75	60.39
5	60.48	60.43	59.79	59.54	58.08	---	58.32	59.36	59.52	60.06	59.76	60.41
6	60.32	60.43	59.80	59.54	58.12	---	58.48	53.50	59.55	60.07	59.77	60.42
7	60.41	60.43	59.80	59.49	58.13	---	58.58	55.50	59.56	60.07	59.80	60.41
8	60.48	60.39	59.80	59.34	58.12	---	58.66	56.68	59.58	60.07	59.81	60.38
9	60.49	60.41	59.81	---	58.17	---	58.74	56.50	59.61	60.06	59.81	60.38
10	60.49	60.40	59.82	---	58.20	---	58.80	55.28	59.67	60.17	59.84	60.40
11	60.49	---	59.86	---	58.23	---	58.85	56.38	59.70	60.23	59.87	60.40
12	60.49	---	59.95	---	58.38	---	58.89	57.25	59.77	60.24	59.87	60.40
13	60.49	---	59.98	---	58.45	---	58.96	57.79	59.80	60.24	59.90	60.36
14	60.36	60.23	59.97	59.10	58.39	---	59.10	58.12	59.84	60.24	59.96	60.36
15	---	60.18	59.94	59.24	58.44	58.95	59.14	58.29	59.89	60.24	59.97	60.35
16	---	60.14	59.97	59.29	58.53	59.02	59.20	58.34	59.93	60.30	60.00	60.35
17	---	60.18	60.02	59.29	58.54	59.06	59.30	58.26	59.95	60.37	60.03	60.35
18	---	60.17	60.03	59.28	58.60	59.10	59.33	57.94	59.95	60.36	60.08	60.37
19	---	60.08	59.92	59.18	58.65	59.10	59.36	58.05	59.95	60.30	60.11	60.37
20	---	60.05	59.75	58.10	58.70	53.75	59.38	58.11	59.97	60.25	60.13	60.37
21	---	59.89	59.75	58.53	58.48	---	59.42	58.23	60.02	60.23	60.14	60.36
22	60.15	59.88	59.76	58.56	58.56	---	59.47	58.34	60.06	60.19	60.15	60.33
23	60.20	59.88	59.76	58.56	58.57	---	59.48	58.47	60.11	60.11	60.17	60.29
24	60.21	59.87	59.74	57.30	58.50	---	59.52	58.62	60.14	60.03	60.18	60.29
25	60.21	59.87	59.68	57.30	58.52	---	59.52	58.74	60.18	59.93	60.19	60.31
26	60.21	59.86	59.63	57.71	58.51	---	59.51	58.82	60.23	59.88	60.19	60.31
27	60.21	59.86	59.62	57.71	57.78	---	59.52	58.87	60.23	59.87	60.21	60.30
28	60.21	59.82	59.64	57.75	---	---	59.56	58.94	60.23	59.86	60.27	60.30
29	60.24	58.81	59.71	57.75	---	---	59.56	59.03	60.23	59.87	60.30	60.29
30	60.27	59.81	59.72	57.76	---	---	59.53	59.16	60.21	59.84	60.34	60.32
31	60.38	---	59.69	57.79	---	---	---	59.27	---	59.77	60.35	---
MAX	60.49	60.43	60.03	59.57	58.70	59.10	59.56	59.36	60.23	60.37	60.35	60.42

CAL YR 1995 LOW 60.49
WTR YR 1996 LOW 60.49

GROUND-WATER RECORDS

BROWN COUNTY

385932083412400. Local number, BR-20.

LOCATION.--Lat 38°59'32", long 83°41'24", Hydrologic Unit 05090201, near Fincastle.

Owner: Davon Inc.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 40 ft, cased to 25 ft.

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

DATUM.--Elevation of land-surface datum is 1,026.27 ft above sea level.

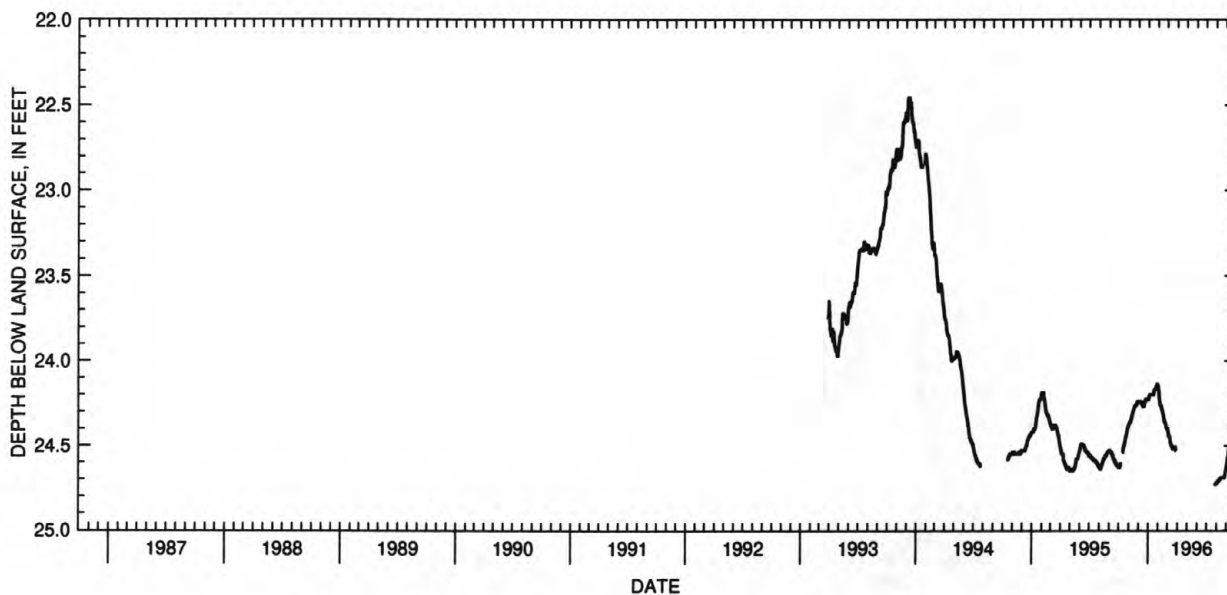
Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.73 ft below land-surface datum, July 24-31, 1996;
minimum daily low, 22.46 ft below land-surface datum, Dec. 7-8, 10-11, 1993.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.63	24.38	24.24	24.23	24.15	24.40	---	---	---	---	24.72	24.63
2	24.63	24.37	24.24	24.23	24.17	24.40	---	---	---	---	24.72	24.62
3	24.63	24.37	24.24	24.22	24.18	24.42	---	---	---	---	24.72	24.60
4	24.63	24.37	24.24	24.21	24.21	24.44	---	---	---	---	24.72	24.59
5	24.63	24.36	24.24	24.21	24.23	24.44	---	---	---	---	24.71	24.57
6	24.61	24.36	24.24	24.20	24.25	24.44	---	---	---	---	24.71	24.56
7	24.60	24.36	24.24	24.20	24.26	24.44	---	---	---	---	24.71	24.55
8	---	24.35	24.24	24.20	24.26	24.45	---	---	---	---	24.71	24.53
9	---	24.34	24.24	24.20	24.26	24.46	---	---	---	---	24.71	24.52
10	---	24.34	24.25	24.20	24.27	24.48	---	---	---	---	24.70	24.51
11	---	24.33	24.25	24.20	24.27	24.49	---	---	---	---	24.70	24.50
12	---	24.32	24.25	24.20	24.28	24.49	---	---	---	---	24.70	24.48
13	24.54	24.31	24.26	24.20	24.29	24.50	---	---	---	---	24.70	24.47
14	24.54	24.30	24.26	24.20	24.29	24.50	---	---	---	---	24.69	24.46
15	24.52	24.30	24.26	24.20	24.30	24.50	---	---	---	---	24.69	24.44
16	24.51	24.29	24.27	24.20	24.31	24.51	---	---	---	---	24.69	24.43
17	24.50	24.28	24.27	24.20	24.32	24.51	---	---	---	---	24.69	24.42
18	24.50	24.28	24.27	24.19	24.33	24.52	---	---	---	---	24.69	24.40
19	24.49	24.27	24.27	24.18	24.35	24.52	---	---	---	---	24.69	24.39
20	24.48	24.27	24.25	24.17	24.35	24.52	---	---	---	---	24.69	24.37
21	24.47	24.27	24.24	24.17	24.36	24.51	---	---	---	---	24.69	24.35
22	24.46	24.26	24.24	24.17	24.36	24.51	---	---	---	---	24.69	24.34
23	24.45	24.26	24.24	24.17	24.37	24.51	---	---	---	---	24.69	24.32
24	24.44	24.26	24.23	24.17	24.37	24.51	---	---	---	24.73	24.69	24.31
25	24.44	24.26	24.23	24.16	24.38	24.51	---	---	---	24.73	24.69	24.29
26	24.43	24.26	24.23	24.15	24.39	24.51	---	---	---	24.73	24.68	24.28
27	24.42	24.25	24.23	24.15	24.39	24.53	---	---	---	24.73	24.68	24.27
28	24.40	24.24	24.23	24.14	24.40	24.53	---	---	---	24.73	24.67	24.24
29	24.39	24.24	24.22	24.14	24.40	---	---	---	---	24.73	24.66	24.20
30	24.39	24.24	24.23	24.14	---	---	---	---	---	24.73	24.65	24.17
31	24.39	---	24.23	24.15	---	---	---	---	---	24.73	24.64	---
MAX	24.63	24.38	24.27	24.23	24.40	24.53	---	---	---	24.73	24.72	24.63

CAL YR 1995 LOW 24.65
WTR YR 1996 LOW 24.73

GROUND-WATER RECORDS

193

BUTLER COUNTY

391805084261800. Local number, BU-9.

LOCATION.--Lat 39°18'05", long 84°26'18", Hydrologic Unit 05090203, 2.5 mi northwest of Sharonville.
Owner: Olinkraft, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 85 ft.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 586.89 ft above sea level.

Measuring point: Floor of instrument shelter, 4.66 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to water year 1978, well diameter reported as 26 in.

PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.40 ft below land-surface datum, Mar. 16, 1954;
minimum daily low, 4.40 ft below land-surface datum, Aug. 3, 1958.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 24, 1995	9.08
Mar. 26, 1996	9.02
July 25, 1996	7.64

GROUND-WATER RECORDS

BUTLER COUNTY--Continued

391904084371800. Local number, BU-12.

LOCATION.--Lat 39°19'04", long 84°37'18", Hydrologic Unit 05080002, Cincinnati well field 1.5 mi east of Ross.

Owner: City of Cincinnati.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 157 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 547.73 ft above sea level.

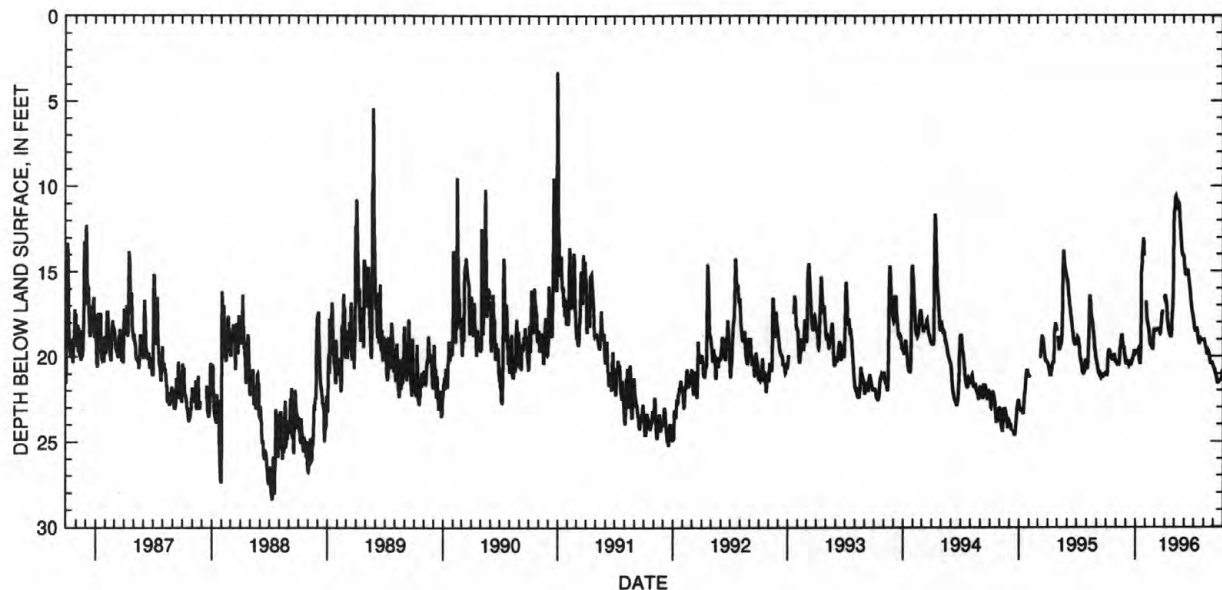
Measuring point: Floor of instrument shelter 7.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1968 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 28.40 ft below land-surface datum, July 11, 1988;
minimum daily low, 2.00 ft above land surface, May 24, 25, 1968.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.00	20.30	20.05	19.90	---	18.35	16.45	12.30	14.10	17.75	19.05	20.55
2	20.90	20.30	20.20	19.90	---	18.45	16.45	11.55	14.30	17.90	19.00	20.65
3	21.10	20.30	20.35	19.90	---	18.50	16.55	11.40	14.55	18.05	19.00	20.70
4	21.10	20.35	20.45	19.90	---	18.50	16.50	11.45	14.75	18.25	19.00	20.70
5	21.10	20.40	20.45	---	16.75	18.45	16.50	11.20	14.95	18.40	19.10	20.75
6	21.05	20.45	20.45	---	17.50	---	16.60	10.65	15.15	18.45	19.20	20.80
7	20.70	20.50	20.40	---	17.70	---	16.75	10.60	15.20	18.50	19.30	20.90
8	20.30	20.50	20.35	---	17.85	18.40	16.90	10.75	15.20	18.50	19.40	21.00
9	19.90	20.50	20.40	19.85	18.00	18.40	17.05	10.95	15.20	18.50	19.45	21.05
10	19.75	20.50	20.45	19.65	18.10	18.40	17.40	11.15	15.10	18.40	19.55	21.10
11	19.65	20.50	20.45	19.60	18.20	18.40	17.80	11.20	15.00	18.30	19.65	21.20
12	19.65	20.50	20.50	19.80	18.25	18.40	18.00	11.10	14.95	18.40	19.80	21.30
13	19.65	20.30	20.45	19.95	18.35	18.45	18.15	10.85	14.95	18.50	19.80	21.40
14	19.75	19.80	20.35	20.10	18.55	18.45	18.30	10.90	15.00	18.65	19.85	21.50
15	19.80	19.60	20.25	20.25	18.75	18.45	18.45	11.00	15.15	18.85	19.85	21.55
16	19.85	19.50	20.30	20.40	19.00	18.45	18.50	10.95	15.25	18.90	19.85	21.55
17	20.00	19.35	20.45	20.40	19.20	18.50	18.60	11.10	15.45	19.05	19.80	21.50
18	20.10	19.15	20.50	20.35	19.30	18.60	18.70	11.30	15.65	19.20	19.75	21.50
19	20.10	19.00	20.50	19.30	19.30	18.65	18.75	11.60	15.80	19.25	19.80	21.50
20	20.10	18.80	20.45	16.95	19.35	18.60	18.80	11.95	15.95	19.25	19.90	21.50
21	20.15	18.70	20.35	15.15	19.40	18.40	18.80	12.30	16.15	19.20	20.05	21.40
22	20.20	18.80	20.30	14.60	19.45	18.20	18.85	12.60	16.40	19.10	20.20	21.40
23	20.20	19.05	20.25	14.50	19.50	17.95	18.85	12.95	16.65	19.05	20.35	21.40
24	20.10	19.25	20.20	14.10	19.50	17.70	18.55	13.25	16.85	19.00	20.40	21.40
25	20.05	19.40	20.10	13.60	19.55	17.55	18.00	13.55	17.05	19.05	20.40	21.40
26	19.95	19.45	20.00	13.20	19.55	17.40	17.50	13.80	17.15	19.05	20.35	21.40
27	19.90	19.45	19.95	13.05	19.15	17.30	17.25	13.95	17.35	19.05	20.35	21.40
28	19.90	19.55	19.90	13.30	18.70	---	16.90	14.05	17.40	19.05	20.35	21.30
29	20.00	19.75	19.75	13.65	18.50	---	16.30	14.05	17.50	19.05	20.40	21.10
30	20.15	19.95	19.60	14.10	---	---	13.80	14.10	17.65	19.05	20.45	20.80
31	20.25	---	19.80	---	---	---	---	14.10	---	19.05	20.50	---
MAX	21.10	20.50	20.50	20.40	19.55	18.65	18.85	14.10	17.65	19.25	20.50	21.55

CAL YR 1995 LOW 23.35
WTR YR 1996 LOW 21.55

GROUND-WATER RECORDS

195

BUTLER COUNTY--Continued

391942084345700. Local number, BU-18.

LOCATION.--Lat 39°19'42", long 84°34'57", Hydrologic Unit 05080002, in Fairfield. Owner: City of Hamilton.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 6 in., depth 210 ft, cased.

INSTRUMENTATION.--Electronic data logger.

DATUM.--Elevation of land-surface datum is 570 ft above sea level from topographic map.

Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

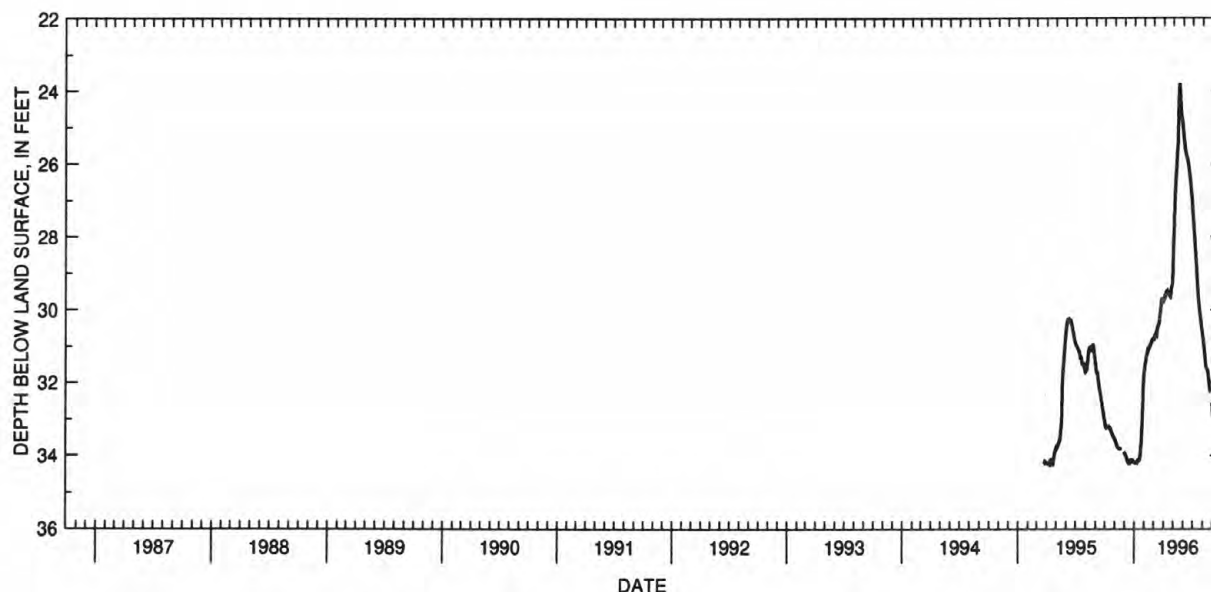
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 24, 1995, to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.25 ft below land-surface datum, Apr. 20-21, 1995;
minimum daily low, 23.79 ft below land surface, May 20, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.07	33.56	33.92	34.19	31.70	30.82	29.76	28.38	25.14	27.36	30.69	32.73
2	33.13	33.56	33.93	34.19	31.62	30.79	29.73	28.05	25.24	27.48	30.75	32.81
3	33.18	33.59	33.96	34.20	31.53	30.79	29.68	27.76	25.32	27.63	30.83	32.91
4	33.23	33.62	33.96	34.20	31.47	30.76	29.64	27.53	25.41	27.76	30.90	32.98
5	33.24	33.64	33.98	34.21	31.43	30.69	29.65	27.18	25.49	27.88	30.99	33.00
6	33.22	33.67	34.00	34.19	31.39	30.67	29.61	26.88	25.58	28.00	31.08	33.02
7	33.22	33.70	34.03	34.19	31.29	30.67	29.58	26.67	25.63	28.14	31.17	33.03
8	33.22	33.72	34.05	34.19	31.24	30.64	29.55	26.48	25.67	28.26	31.25	33.08
9	33.21	33.74	34.08	34.19	31.22	30.62	29.52	26.32	25.73	28.40	31.35	33.13
10	33.21	33.77	34.10	34.20	31.19	30.65	29.50	26.18	25.77	28.55	31.44	33.13
11	33.20	33.79	34.13	34.16	31.12	30.66	29.49	26.04	25.80	28.66	31.52	33.13
12	33.20	33.79	34.15	34.13	31.13	30.58	29.48	25.78	25.84	28.79	31.58	33.14
13	33.19	33.80	34.17	34.12	31.13	30.49	29.52	25.63	25.88	28.94	31.59	33.16
14	33.19	33.80	34.20	34.12	31.07	30.43	29.54	25.52	25.90	29.09	31.60	33.18
15	33.21	33.81	34.21	34.13	31.07	30.42	29.53	25.40	25.94	29.24	31.62	33.19
16	33.24	33.82	34.22	34.12	31.03	30.42	29.57	24.63	25.98	29.37	31.64	33.19
17	33.26	33.82	34.22	34.13	31.03	30.39	29.59	24.27	26.04	29.52	31.67	33.18
18	33.29	33.81	34.22	34.12	31.00	30.37	29.60	24.01	26.12	29.62	31.71	33.15
19	33.30	33.81	34.21	34.06	30.96	30.29	29.60	23.84	26.19	29.74	31.81	33.14
20	33.29	33.81	34.17	33.98	30.96	30.20	29.59	23.79	26.26	29.84	31.90	33.15
21	33.32	33.82	34.13	33.88	30.94	30.10	29.61	23.99	26.33	29.91	31.97	33.14
22	33.35	33.82	34.12	33.76	30.89	30.04	29.58	24.16	26.41	30.00	32.06	33.13
23	33.37	---	34.12	33.64	30.86	29.96	29.60	24.32	26.50	30.07	32.16	33.13
24	33.40	---	34.12	33.48	30.87	29.87	29.52	24.48	26.59	30.15	32.20	33.10
25	33.42	---	34.13	33.26	30.86	29.77	29.42	24.60	26.70	30.21	32.24	33.08
26	33.43	---	34.13	33.00	30.82	29.72	29.36	24.72	26.78	30.28	32.26	33.06
27	33.46	---	34.13	32.74	30.79	29.71	29.35	24.76	26.88	30.36	---	33.04
28	33.49	---	34.15	32.48	30.78	29.67	29.31	24.80	26.99	30.43	---	32.98
29	33.49	---	34.17	32.19	30.82	29.72	29.23	24.84	27.12	30.50	---	32.89
30	33.50	33.90	34.18	31.98	---	29.73	28.68	24.94	27.25	30.57	32.56	32.83
31	33.53	---	34.18	31.81	---	29.75	---	25.05	---	30.63	32.64	---
MAX	33.53	33.90	34.22	34.21	31.70	30.82	29.76	28.38	27.25	30.63	32.64	33.19

CAL YR 1995 LOW 34.25 WTR YR 1996 LOW 34.22



GROUND-WATER RECORDS

BUTLER COUNTY--Continued

392017084345200. Local number, BU-7.

LOCATION.--Lat 39°20'17", long 84°34'52", Hydrologic Unit 05080002, 5584 East River Road in Fairfield.

Owner: C. E. Schiering.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 176 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 572.54 ft above sea level.

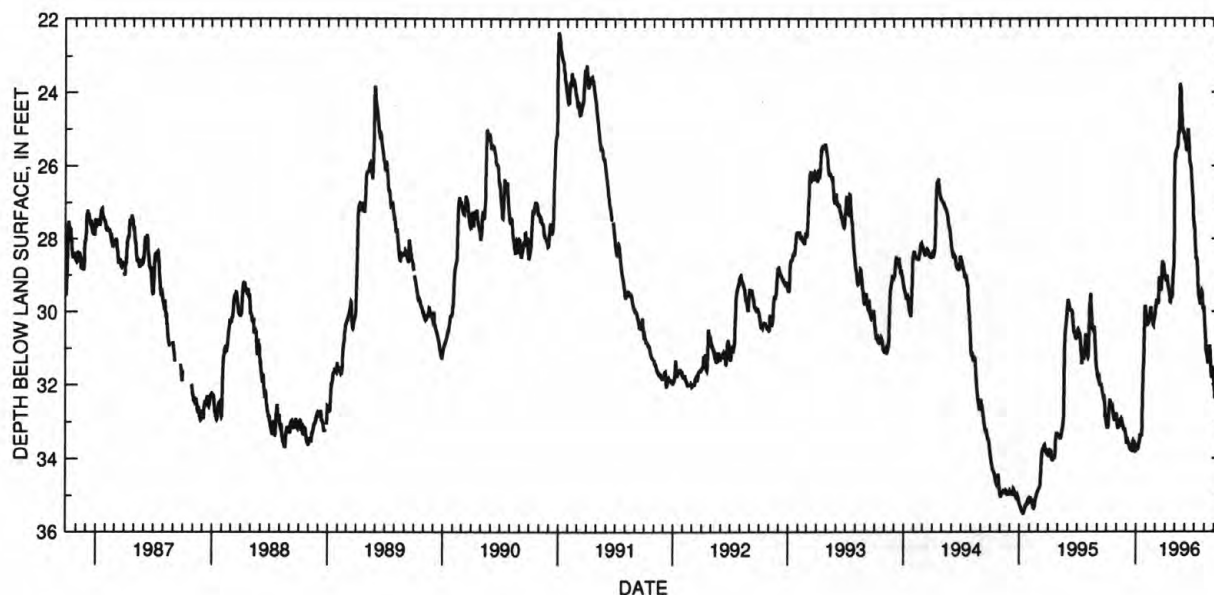
Measuring point: Floor of instrument shelter 1.93 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 35.51 ft below land-surface datum, Jan. 13-14, 1995;
minimum daily low, 11.45 ft below land-surface datum, June 6, 1947.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.05	32.75	33.41	33.73	29.99	30.08	29.05	26.64	25.24	27.61	29.85	31.99
2	33.12	32.84	33.49	33.70	30.03	29.95	29.06	25.92	25.25	27.60	30.11	32.14
3	33.15	33.01	33.56	33.70	30.19	29.87	29.07	25.66	25.30	27.66	30.33	32.32
4	33.15	33.10	33.56	33.69	30.33	29.88	29.12	25.80	25.32	27.92	30.41	32.35
5	33.15	33.13	33.43	33.75	30.39	29.79	29.15	25.79	25.29	28.15	30.62	32.35
6	33.13	33.16	33.54	33.75	30.36	29.71	29.16	25.60	25.43	28.35	30.86	32.27
7	33.04	33.15	33.55	33.74	30.23	29.72	29.16	25.57	25.57	28.51	31.05	32.25
8	32.86	33.11	33.55	33.73	30.23	29.72	28.99	25.57	25.58	28.55	31.11	32.19
9	32.70	33.12	33.56	33.67	30.31	29.69	29.15	25.54	25.48	28.55	31.19	32.20
10	32.59	33.12	33.61	33.59	30.31	29.77	29.26	25.53	25.29	28.51	31.20	32.20
11	32.48	33.11	33.64	33.59	30.18	29.79	29.30	25.50	25.20	28.65	31.24	32.13
12	32.43	33.05	33.68	33.51	30.20	29.71	29.33	25.39	25.02	28.99	31.33	32.01
13	32.44	33.05	33.73	33.42	30.20	29.35	29.40	25.13	25.00	29.20	31.39	31.97
14	32.52	33.00	33.74	33.43	30.09	29.13	29.47	25.07	25.23	29.43	31.39	31.89
15	32.53	32.94	33.73	33.41	30.04	29.04	29.50	25.12	25.35	29.53	31.29	31.78
16	32.57	32.92	33.67	33.33	29.94	29.14	29.58	25.11	25.48	29.57	31.16	31.82
17	32.63	32.94	33.72	33.38	29.87	29.14	29.73	24.34	25.72	29.63	30.98	31.83
18	32.64	32.95	33.77	33.38	30.01	29.31	29.74	23.86	25.93	29.67	30.91	31.76
19	32.63	33.02	33.78	33.37	30.14	29.41	29.58	23.76	25.95	29.75	30.98	31.70
20	32.61	33.07	33.72	33.14	30.23	29.41	29.56	23.85	25.92	29.80	31.10	31.62
21	32.69	33.10	33.67	32.67	30.23	29.35	29.62	23.87	26.00	29.77	31.31	31.58
22	32.76	33.13	33.58	32.16	30.26	29.04	29.62	24.03	26.09	29.67	31.55	31.54
23	32.81	33.16	33.54	31.88	30.28	28.77	29.61	24.41	26.21	29.65	31.74	31.45
24	32.88	33.20	33.56	31.60	30.35	28.66	29.57	24.64	26.39	29.51	31.82	31.38
25	32.93	33.22	33.56	31.47	30.37	28.61	29.39	24.73	26.55	29.45	31.78	31.28
26	32.94	33.22	33.57	31.12	30.23	28.73	29.05	24.97	26.68	29.48	31.60	31.18
27	32.93	33.18	33.56	30.77	30.16	28.73	28.88	25.02	26.78	29.62	31.56	31.15
28	32.94	33.25	33.73	30.42	30.17	28.67	28.81	25.08	27.04	29.83	31.55	31.17
29	32.94	33.29	33.82	30.07	30.10	28.80	28.77	25.08	27.32	29.92	31.56	31.16
30	32.87	33.33	33.82	29.85	---	28.91	28.33	25.04	27.51	29.92	31.78	31.06
31	32.80	---	33.80	29.88	---	28.91	---	25.20	---	29.91	31.90	---
MAX	33.15	33.33	33.82	33.75	30.39	30.08	29.74	26.64	27.51	29.92	31.90	32.35

CAL YR 1995 LOW 35.51
WTR YR 1996 LOW 33.82

GROUND-WATER RECORDS

197

BUTLER COUNTY--Continued

392048084311400. Local number, BU-8.

LOCATION.--Lat 39°20'48", long 84°31'14", Hydrologic Unit 05080002, Symmes and Gilmore Road, east of Hamilton.

Owner: Hamilton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 200 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 630 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 4.13 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

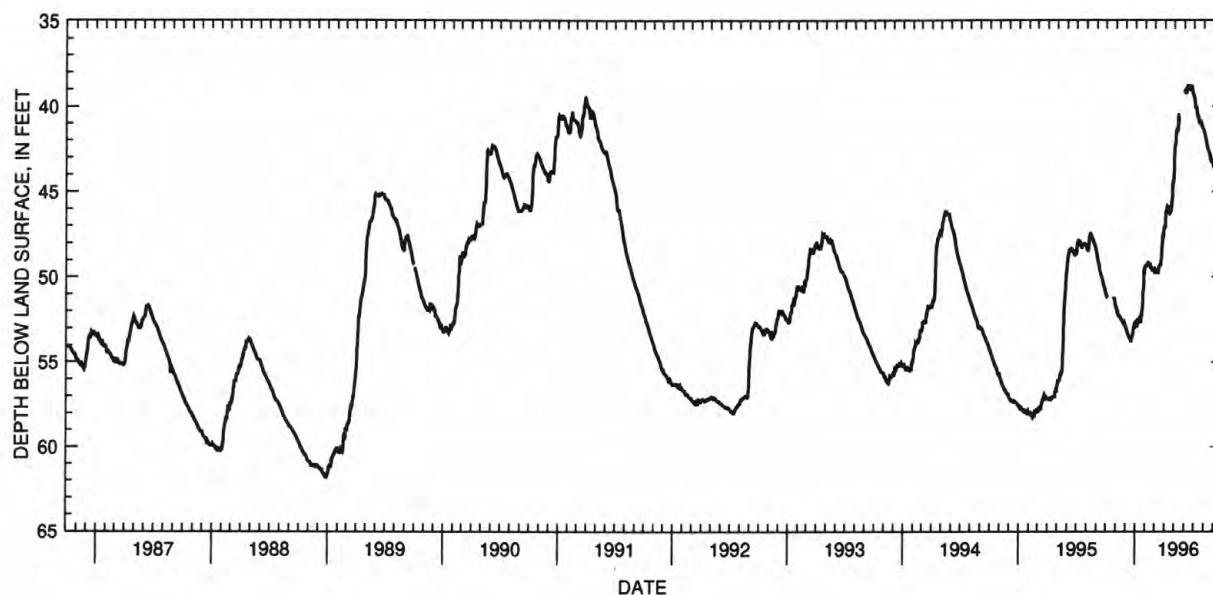
PERIOD OF RECORD.--April 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 71.70 ft below land-surface datum, Oct. 24, 1944;

minimum daily low, 38.24 ft below land-surface datum, June 8, 1947.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51.01	51.79	52.92	52.63	49.33	49.74	47.03	42.59	39.10	39.46	41.49	43.51
2	51.10	51.81	52.99	52.62	49.31	49.62	47.03	42.29	39.08	39.51	41.55	43.53
3	51.12	51.92	53.04	52.59	49.31	49.65	46.56	42.26	39.07	39.73	41.63	43.62
4	51.21	52.05	53.11	52.66	49.34	49.73	46.14	42.22	39.14	39.88	41.72	43.71
5	51.22	52.11	53.17	52.74	49.34	49.73	46.23	41.98	39.25	40.05	41.80	43.80
6	---	52.13	53.25	52.77	49.32	49.55	46.15	41.45	39.25	40.10	41.90	43.87
7	---	52.10	53.31	52.71	49.30	49.61	45.92	41.44	39.21	40.10	41.98	43.91
8	---	52.21	53.34	52.60	49.14	49.67	45.88	41.39	39.14	40.09	42.08	43.98
9	---	52.28	53.41	52.60	49.13	49.72	45.93	41.42	38.98	40.25	42.24	44.07
10	---	52.30	53.47	52.58	49.13	49.76	45.96	41.44	38.85	40.49	42.35	44.23
11	---	52.30	53.52	52.59	49.15	49.76	45.95	41.42	38.80	40.58	42.42	44.32
12	---	52.33	53.56	52.50	49.28	49.59	45.86	41.17	38.72	40.59	42.49	44.34
13	---	52.34	53.57	52.52	49.30	49.43	45.97	40.44	38.80	40.58	42.57	44.39
14	---	52.37	53.59	52.54	49.15	49.35	46.10	40.98	38.87	40.65	42.59	44.49
15	---	52.41	53.66	52.63	49.25	49.30	46.05	40.92	38.89	40.78	42.60	44.59
16	---	52.46	53.74	52.64	49.37	49.27	46.20	---	38.92	40.93	42.66	44.63
17	---	52.49	53.77	52.62	49.38	49.29	46.27	---	38.95	41.00	42.72	44.73
18	---	52.50	53.77	52.57	49.43	49.32	46.23	---	38.97	41.00	42.78	44.90
19	---	52.55	53.64	52.18	49.44	49.29	46.12	---	39.01	40.94	42.88	44.98
20	---	52.55	53.51	52.19	49.50	48.98	46.05	---	39.00	40.94	42.97	45.01
21	---	52.58	53.51	52.00	49.58	48.90	45.95	---	38.87	40.95	43.12	45.02
22	---	52.62	53.44	51.81	49.60	48.49	45.73	---	38.77	40.93	43.16	45.05
23	---	52.67	53.36	51.44	49.60	48.21	45.48	---	38.84	40.99	43.21	45.22
24	51.17	52.74	53.21	50.85	49.58	47.96	45.37	---	38.90	41.12	43.25	45.33
25	51.29	52.75	53.04	50.79	49.62	47.47	44.66	---	39.11	41.12	43.25	45.54
26	51.31	52.75	52.94	50.37	49.62	47.67	44.30	---	39.21	41.22	43.16	45.65
27	51.31	52.69	52.89	49.71	49.62	47.67	44.41	---	39.25	41.30	43.10	45.70
28	51.36	52.78	52.94	49.74	49.71	47.48	44.42	---	39.32	41.33	43.22	45.71
29	51.55	52.88	52.95	49.64	49.74	47.17	44.17	---	39.36	41.34	43.41	45.69
30	51.67	52.91	52.94	49.40	---	47.17	42.94	---	39.40	41.37	43.53	45.61
31	51.74	---	52.83	49.35	---	47.07	---	39.08	---	41.43	43.53	---
MAX	51.74	52.91	53.77	52.77	49.74	49.76	47.03	42.59	39.40	41.43	43.53	45.71

CAL YR 1995 LOW 58.27
WTR YR 1996 LOW 53.77

GROUND-WATER RECORDS

BUTLER COUNTY--Continued

392445084333000. Local number, BU-36.

LOCATION.--Lat 39°24'45", long 84°33'30", Hydrologic Unit 05080002, on right bank of Great Miami River 300 ft downstream from Two Mile Creek in Hamilton.

Owner: Champion Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled industrial supply water-table well, diameter 30 in., depth 168 ft, cased.

PERIOD OF RECORD.--December 1965 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

392445084333000 - BU-36 CHAMPION PAPER CO WELL 4 HAMILTON OH

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	BICAR- BONATE IT-FLD (MG/L) AS HCO3) (99440)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CAC03) (99430)
DEC 07...	1015	903	7.4	2.0	15.0	<10	100	32	32	3.3	360	295
APR 24...	0930	900	7.2	9.5	16.5	11	110	31	33	3.6	365	299
SEP 03...	1115	800	7.1	23.0	26.5	<10	72	23	29	3.5	220	180
DATE		SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	ARSENIC TOTAL (UG/L) AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L) AS AS) (01000)
DEC 07...	84	59	0.20	11	512	<0.010	2.30	<0.015	0.020	<1	<1	
APR 24...	85	60	0.20	10	510	<0.010	2.40	0.020	0.020	--	--	
SEP 03...	79	57	0.60	9.7	382	<0.010	2.70	0.020	0.020	<1	<1	
DATE		CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L) AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L) AS CU) (01042)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L) AS PB) (01051)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L) AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L) AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)
DEC 07...	--	6	2	--	9	<1	--	3	<10	--	1.1	
APR 24...	--	--	--	--	5	--	--	1	--	--	4.2	
SEP 03...	2	2	13	12	<3	<1	<1	4	<10	<10	5.1	

GROUND-WATER RECORDS

199

BUTLER COUNTY--Continued

393202084241500. Local number, BU-15.

LOCATION.--Lat 39°32'02", long 84°24'15", Hydrologic Unit 05080002, at Hook Field (municipal airport) at Middletown.
Owner: City of Middletown.

AQUIFER.--Sand and gravel of Pleistocene Age.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

WELL CHARACTERISTICS.--Drilled observation water table well, diameter 6 in., depth 23 ft, cased.

DATUM.--Elevation of land-surface datum is 641 ft, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Water level affected by pumping wells nearby in Middletown well field.

PERIOD OF RECORD.--June 1972 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured low, 15.72 ft below land-surface datum, Oct. 24, 1994;
minimum daily low, 0.06 ft below land-surface datum, Feb. 25, 1975.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 24, 1995	12.83
Mar. 25, 1996	10.32
July 24, 1996	11.41

GROUND-WATER RECORDS

BUTLER COUNTY--Continued

392737084291300. Local number, BU-16.

LOCATION.--Lat 39°27'37", long 84°29'13", Hydrologic Unit 05080002, Wayne - Madison Rd. 2 mi southwest of Trenton.

Owner: Miller Brewing Co.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 4 in., depth 218 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 640 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter, 4.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to 1992 published as 392733084293000.

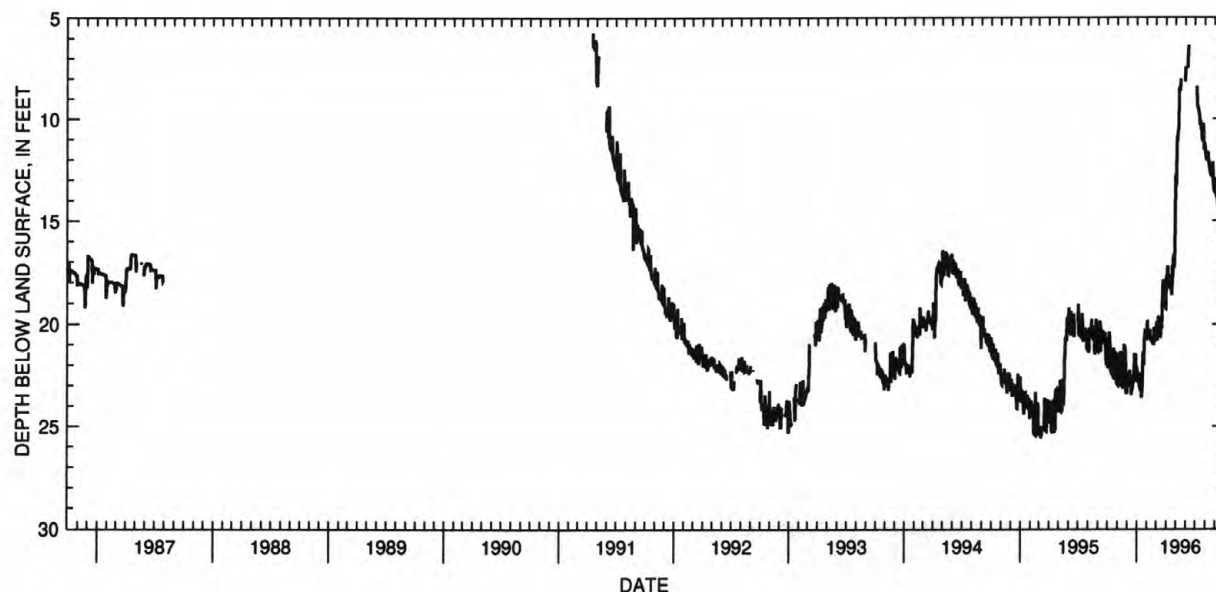
PERIOD OF RECORD.--May 1982 to July 1987. Reactivated April 17, 1991.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.51 ft below land-surface datum, Mar. 7-8, 1995;
minimum daily low, 5.71 ft below land-surface datum, April. 17, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.72	22.90	23.39	22.12	20.52	20.67	19.24	12.74	7.44	7.45	11.35	13.38
2	20.72	22.92	22.92	22.21	20.53	20.65	18.20	13.13	7.50	---	11.45	12.93
3	22.15	21.73	22.88	22.70	19.81	19.90	17.70	13.30	7.57	---	11.74	13.01
4	21.25	22.39	22.69	22.76	20.21	19.93	17.80	12.59	---	---	11.79	13.58
5	21.04	21.40	22.74	22.79	20.69	20.58	17.80	11.46	---	---	11.94	13.71
6	21.06	21.97	22.57	22.82	20.73	20.79	17.43	10.84	---	---	12.07	13.75
7	20.38	22.03	22.58	22.84	20.55	20.54	17.21	11.04	---	8.39	11.89	13.84
8	20.47	22.82	22.91	22.36	20.56	19.65	17.95	11.08	7.50	9.29	11.95	13.90
9	20.75	22.76	23.04	23.03	20.58	19.68	18.08	10.49	7.02	9.37	11.96	13.21
10	21.16	22.96	22.23	23.04	20.58	20.44	18.14	10.52	6.35	9.39	11.60	14.09
11	22.29	22.96	23.00	23.12	20.26	20.26	18.18	10.51	---	9.48	11.73	14.14
12	21.64	21.32	23.02	23.18	20.50	20.31	18.23	8.72	---	9.53	12.12	14.45
13	22.33	22.77	23.04	23.22	20.71	20.53	18.25	8.43	---	9.64	12.00	14.54
14	22.39	22.85	22.94	22.84	20.74	20.56	17.65	---	---	9.73	12.42	14.60
15	21.60	22.93	23.46	22.46	20.79	20.58	18.09	---	---	9.77	12.16	13.85
16	22.36	22.95	22.49	23.58	20.82	20.46	18.31	8.65	---	10.14	12.49	14.43
17	22.48	22.15	23.17	23.22	20.85	19.69	18.34	8.02	---	10.26	12.58	14.74
18	22.48	23.00	23.20	23.09	20.88	19.68	18.35	---	---	10.32	12.62	14.81
19	22.35	22.98	22.91	22.35	20.64	20.20	18.61	---	---	10.10	12.72	14.88
20	22.64	23.00	22.90	21.67	20.91	19.74	18.55	---	---	10.47	12.82	14.95
21	21.15	23.12	22.84	21.44	20.91	18.71	17.20	---	---	10.47	12.68	15.00
22	22.00	22.50	22.83	21.45	20.94	18.66	17.80	---	---	10.57	12.75	14.75
23	22.63	20.97	22.26	22.00	20.94	17.95	17.67	---	---	10.93	12.82	15.10
24	22.64	21.13	22.70	21.41	20.20	17.95	16.87	---	---	11.04	12.87	15.11
25	21.36	21.13	21.43	20.67	20.20	17.99	16.65	---	---	11.10	12.12	15.22
26	21.40	21.15	22.55	20.67	20.80	18.99	16.78	---	---	10.24	12.95	15.26
27	22.28	21.74	22.58	20.42	20.86	19.08	17.30	---	---	10.31	13.05	15.47
28	22.25	23.31	22.61	20.45	20.72	19.12	16.97	---	---	10.85	13.36	15.35
29	22.26	23.41	21.45	20.63	20.71	19.18	16.20	---	---	11.39	13.46	14.63
30	22.77	22.83	22.59	20.65	---	19.18	14.23	---	---	11.38	13.53	15.13
31	22.90	---	22.10	20.67	---	19.22	---	8.16	---	11.19	13.59	---
MAX	22.90	23.41	23.46	23.58	20.94	20.79	19.24	13.30	7.57	11.39	13.59	15.47

CAL YR 1995 LOW 25.51

WTR YR 1996 LOW 23.58



GROUND-WATER RECORDS

201

BUTLER COUNTY--Continued

392743084295500. Local number, BU-17.

LOCATION.--Lat 39°27'43", long 84°29'55", Hydrologic Unit 05080002, southwest of Trenton.

Owner: Southwest Regional Water District.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 212 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 635.28 ft above sea level.

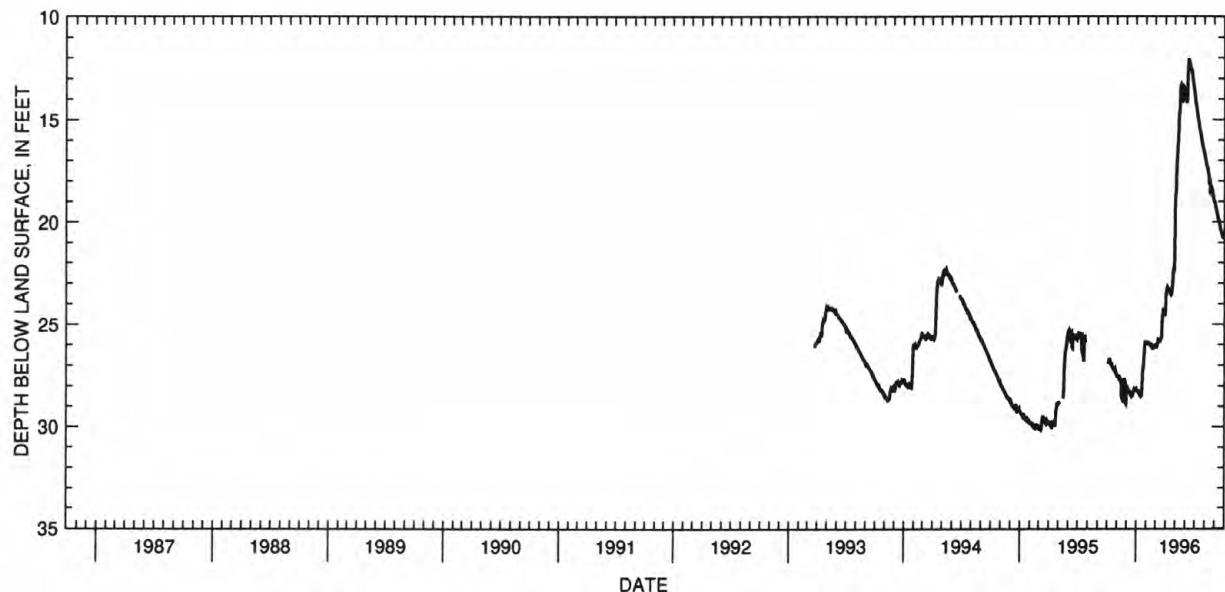
Measuring point: Floor of instrument shelter, 2.2 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Prior to 1992 published as 392733084293000.

PERIOD OF RECORD.--March 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 30.16 ft below land-surface datum, Mar. 8, 1995;
minimum daily low, 12.06 ft below land-surface datum, June 12, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	27.45	28.08	28.18	25.91	26.07	24.35	19.44	13.64	13.65	16.69	19.00
2	---	27.50	28.04	28.21	25.90	26.03	23.95	18.83	13.72	13.83	16.79	19.06
3	---	27.53	28.03	28.23	25.90	26.04	23.58	18.64	13.79	14.00	16.82	19.10
4	26.80	27.53	28.11	28.24	25.87	26.03	23.41	18.63	13.90	14.15	16.93	19.19
5	26.83	27.49	28.15	28.26	25.87	26.01	23.38	18.04	14.04	14.25	17.05	19.27
6	26.81	27.57	28.17	28.27	25.91	26.04	23.27	17.29	14.13	14.30	17.11	19.34
7	26.74	27.51	28.19	28.29	25.93	25.98	23.19	16.94	14.17	14.37	17.21	19.44
8	26.65	27.62	28.26	28.27	25.91	25.80	23.21	16.78	13.72	14.52	17.29	19.48
9	26.69	27.64	28.27	28.35	25.94	25.74	23.26	16.39	13.17	14.66	17.32	19.53
10	26.82	27.70	28.21	28.36	25.96	25.76	23.30	16.12	12.63	14.82	17.34	19.64
11	26.86	27.71	28.29	28.41	25.96	25.75	23.32	15.99	12.25	14.91	17.39	19.70
12	26.84	27.67	28.34	28.45	25.93	25.75	23.35	15.33	12.06	14.98	17.51	19.79
13	26.93	27.71	28.39	28.48	25.93	25.77	23.38	14.82	12.10	15.08	17.64	19.88
14	26.94	27.75	28.46	28.47	25.99	25.81	23.36	14.63	12.18	15.16	17.67	19.94
15	26.86	27.80	28.48	28.41	26.03	25.82	23.40	14.56	12.21	15.27	18.17	19.93
16	26.97	28.58	28.45	28.50	26.07	25.78	23.47	14.30	12.28	15.40	17.84	20.02
17	27.05	28.62	28.48	28.49	26.09	25.70	23.49	13.68	12.37	15.53	17.95	20.14
18	27.06	27.87	28.51	28.46	26.10	25.68	23.50	13.37	12.46	15.59	17.96	20.22
19	27.11	27.81	28.49	28.11	26.07	25.66	23.55	13.32	12.50	15.65	18.68	20.29
20	27.14	28.69	28.49	27.66	26.13	25.58	23.54	13.37	12.50	15.75	18.52	20.36
21	27.11	28.76	28.41	27.30	26.16	25.07	23.35	13.54	12.57	15.78	18.23	20.40
22	27.11	28.76	28.35	27.14	26.17	24.72	23.20	13.66	12.66	15.90	18.30	20.42
23	27.19	27.77	28.27	27.05	26.17	24.52	23.14	13.77	12.69	16.02	18.38	20.51
24	27.21	27.68	28.24	26.94	26.15	24.40	22.92	13.94	12.85	16.12	18.42	20.55
25	27.22	27.68	28.17	26.65	26.14	24.30	22.52	13.97	13.03	16.20	18.45	20.64
26	27.25	27.68	28.20	26.32	26.11	24.32	22.35	14.01	13.15	16.30	18.53	20.69
27	27.20	27.77	28.22	26.12	26.14	24.34	22.37	13.96	13.24	16.38	18.63	20.75
28	27.31	27.94	28.23	26.01	26.13	24.35	22.38	13.62	13.34	16.41	18.73	20.75
29	27.33	28.85	28.23	25.89	26.12	24.38	22.33	13.45	13.47	16.51	18.82	20.64
30	27.38	28.88	28.15	25.90	---	24.42	20.98	13.49	13.55	16.54	18.92	20.66
31	27.46	---	28.13	25.91	---	24.32	---	13.57	---	16.60	18.97	---
MAX	27.46	28.88	28.51	28.50	26.17	26.07	24.35	19.44	14.17	16.60	18.97	20.75

CAL YR 1995 LOW 30.16
WTR YR 1996 LOW 28.88

GROUND-WATER RECORDS

BUTLER COUNTY--Continued

392939084231700. Local number, BU-3.

LOCATION.--Lat 39°29'39", long 84°23'17", Hydrologic Unit 05080002, Armco Steel Corp., Rt. 122 in Middletown.

Owner: Armco Steel Corp.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 24 in., depth 250 ft, cased.

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

DATUM.--Elevation of land-surface datum is 668 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 1.08 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 147.27 ft below land-surface datum, Apr. 4, 1955;
minimum daily low, 45.27 ft below land-surface datum, July 21, 1980.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.64	62.59	60.46	61.99	60.22	58.46	60.08	57.84	54.95	51.82	50.49	52.57
2	66.55	62.50	60.52	61.98	60.21	58.41	60.05	57.71	54.82	51.29	50.46	52.58
3	66.37	62.55	60.49	62.09	60.07	58.64	59.88	57.50	54.71	51.30	50.46	52.58
4	66.00	62.45	61.00	62.13	59.99	58.89	59.92	57.38	54.63	51.32	50.46	52.56
5	65.76	62.40	60.99	62.26	59.88	58.64	60.06	57.34	53.72	51.29	50.96	52.59
6	65.85	62.16	61.07	62.25	59.85	58.77	59.85	57.61	53.39	50.78	51.06	52.30
7	65.78	62.09	61.12	62.15	59.19	58.51	59.72	57.62	53.20	51.13	51.14	52.30
8	65.74	62.14	61.03	62.17	60.05	58.41	59.63	57.54	53.13	51.70	51.20	50.67
9	65.53	62.00	61.06	62.17	60.27	58.37	59.60	57.60	52.96	52.22	51.27	50.39
10	65.51	61.88	61.03	62.36	60.35	58.35	59.59	57.49	52.89	52.17	51.27	50.29
11	65.07	61.91	60.98	62.18	60.54	59.06	59.53	57.17	52.68	52.32	51.29	50.71
12	64.82	61.89	60.98	61.72	60.61	59.30	59.45	57.15	52.50	52.38	51.29	50.93
13	64.75	62.90	60.71	61.81	60.61	59.50	59.51	57.16	52.63	51.66	51.26	51.71
14	64.53	62.83	61.64	61.35	61.34	59.56	59.56	57.08	52.30	51.66	51.32	51.13
15	64.34	61.76	61.93	61.44	60.78	59.96	59.27	56.37	52.07	51.71	51.47	51.84
16	64.42	61.58	62.18	61.96	60.70	60.03	59.36	56.26	51.94	51.39	51.65	52.07
17	64.11	61.74	62.25	62.11	59.92	60.18	59.34	55.72	51.84	51.25	51.38	52.18
18	63.85	61.48	62.19	61.81	59.69	60.24	59.15	55.64	51.80	51.17	51.44	52.86
19	63.75	61.37	62.28	61.96	59.47	59.95	59.16	55.40	51.80	51.47	51.99	53.14
20	63.53	61.15	62.43	61.91	59.33	60.01	58.16	55.19	52.90	51.09	51.57	53.30
21	63.40	60.92	62.49	61.79	59.31	60.08	58.21	54.92	53.16	50.99	51.67	53.35
22	63.38	60.94	62.47	62.13	59.18	60.11	58.05	54.96	53.17	51.82	51.62	53.49
23	63.29	60.86	62.41	61.69	59.39	60.18	58.25	54.78	53.19	52.05	51.88	53.64
24	63.25	61.01	62.43	61.83	59.13	60.13	58.19	54.70	53.03	52.28	51.95	54.68
25	63.80	60.72	62.24	61.85	58.95	60.36	57.91	54.62	52.39	53.36	52.08	54.95
26	63.13	60.56	62.24	61.54	58.72	60.37	58.16	54.43	52.30	53.71	52.85	55.00
27	62.78	60.51	62.29	61.83	58.67	60.33	58.12	54.29	52.19	52.35	52.88	54.68
28	62.96	60.71	62.31	61.81	58.76	59.97	58.09	55.20	52.08	50.73	52.84	54.77
29	63.04	60.97	62.32	61.40	58.75	60.27	58.05	55.32	52.01	50.69	52.62	54.83
30	62.87	60.48	62.21	60.77	---	60.29	58.09	55.30	51.86	50.53	52.60	54.97
31	62.65	---	62.04	60.37	---	59.95	---	55.09	---	50.52	52.59	---
MAX	66.64	62.90	62.49	62.36	61.34	60.37	60.08	57.84	54.95	53.71	52.88	55.00

CAL YR 1995 LOW 78.39
WTR YR 1996 LOW 66.64

GROUND-WATER RECORDS

203

BUTLER COUNTY--Continued

393103084240900. Local number, BU-2

LOCATION.--Lat 39°31'03", long 84°24'09", Hydrologic Unit 05080002, in basement of YMCA in Middletown.

Owner: Middletown YMCA.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 88 ft, cased.

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

DATUM.--Elevation of land-surface datum is 636.27 ft above sea level.

Measuring point: Top of platform 14.77 ft below land-surface datum.

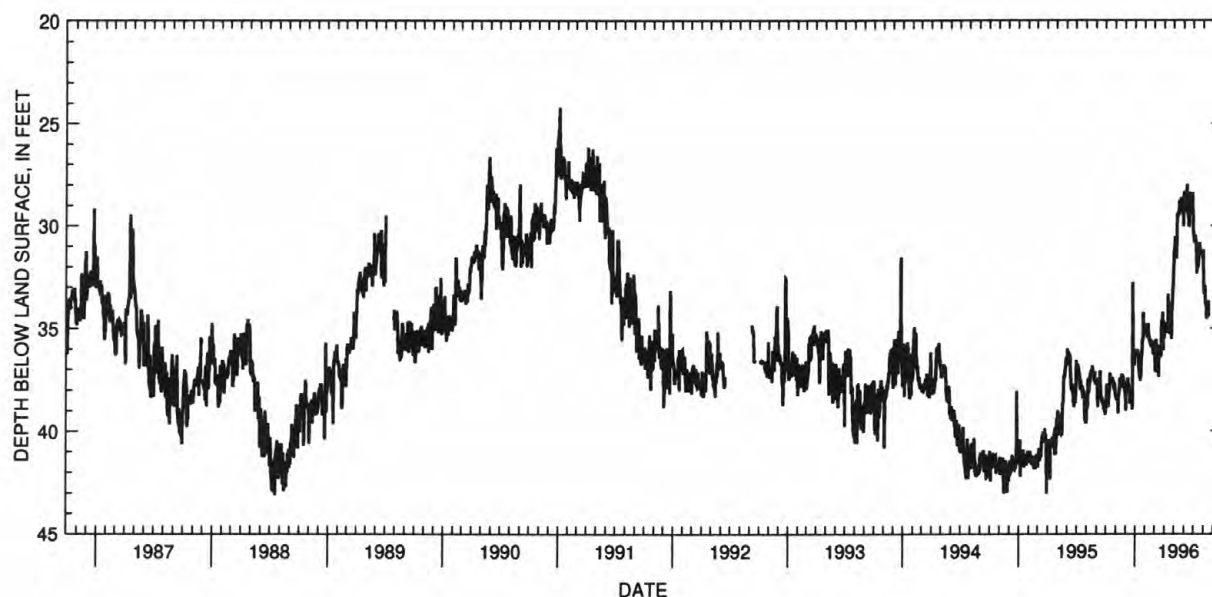
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 52.15 ft below land-surface datum, Sept. 28, Nov. 5, 1953, and Jan. 22, 1954; minimum daily low, 24.21 ft below land-surface datum, Jan. 6, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.09	38.26	38.03	36.13	34.92	35.82	35.50	32.24	29.14	30.24	31.19	34.45
2	38.74	38.34	38.17	36.28	34.97	35.74	35.11	31.26	28.32	30.38	32.55	---
3	38.01	38.34	39.00	36.09	34.80	35.97	34.82	31.59	28.98	30.63	33.35	---
4	37.71	38.51	38.30	36.14	35.00	37.01	34.85	31.36	28.77	30.83	32.91	---
5	38.03	38.32	37.78	36.26	35.34	37.12	35.14	30.59	29.36	30.65	33.21	---
6	38.38	38.35	37.99	36.04	35.26	35.70	35.00	30.55	29.27	30.59	32.94	---
7	37.92	38.38	37.88	36.12	34.92	35.54	34.91	30.71	29.09	30.47	33.21	---
8	38.64	38.44	37.70	36.29	34.98	36.33	35.09	30.89	28.70	30.80	33.86	---
9	38.82	39.14	37.43	36.03	35.47	36.42	34.77	31.09	28.60	30.68	33.68	---
10	38.72	38.21	37.69	36.22	35.36	36.66	34.82	31.60	28.70	31.01	33.91	---
11	38.09	38.17	37.73	36.22	34.77	36.42	34.78	30.19	27.96	31.55	33.99	---
12	38.06	38.09	37.75	36.48	35.09	36.61	35.22	29.43	29.07	32.35	34.56	---
13	38.00	37.90	37.99	36.96	35.33	36.75	34.99	29.48	29.27	31.29	34.21	---
14	37.43	37.68	38.09	37.13	35.46	37.11	33.36	29.55	29.35	31.45	34.45	---
15	37.16	37.43	38.08	37.11	35.54	37.37	34.93	29.34	29.58	31.01	34.31	35.36
16	37.63	37.81	38.67	37.03	35.69	35.82	34.89	29.43	29.50	32.03	33.74	36.26
17	37.51	37.82	38.11	37.57	35.53	35.98	35.00	29.47	29.97	31.53	33.74	35.73
18	37.61	37.64	38.16	37.43	35.56	36.05	35.27	29.00	29.98	31.11	34.44	36.71
19	37.68	37.70	38.03	37.30	35.79	36.10	35.00	28.75	28.44	30.95	34.46	36.84
20	37.50	37.48	38.13	36.63	35.77	36.13	35.22	28.79	28.58	31.09	---	36.25
21	37.45	37.29	38.16	36.48	35.87	36.39	34.92	29.26	28.38	30.83	---	36.48
22	37.37	37.29	37.96	36.23	35.76	36.31	35.07	29.36	28.44	31.31	---	36.60
23	37.68	37.26	38.95	35.95	35.91	35.94	34.32	29.12	28.58	31.15	---	36.65
24	37.51	37.52	38.74	35.59	35.85	34.58	35.52	28.72	28.64	31.24	---	36.59
25	37.66	37.37	32.78	35.49	35.60	35.43	34.33	28.63	28.55	31.41	---	36.85
26	37.63	37.78	36.26	35.56	35.94	35.83	33.85	28.88	28.84	31.24	34.70	36.90
27	37.98	37.59	36.51	34.23	36.29	34.22	33.65	28.80	28.60	31.48	---	36.80
28	37.71	37.65	36.68	34.84	36.04	35.42	33.21	28.92	28.38	31.41	---	36.47
29	37.73	37.82	36.72	35.11	35.80	36.06	33.09	28.84	29.16	31.36	---	36.19
30	37.98	38.12	36.73	35.34	---	35.28	32.31	28.78	29.36	31.33	---	36.05
31	38.28	---	36.49	34.91	---	35.12	---	30.03	---	31.68	---	---
MAX	39.09	39.14	39.00	37.57	36.29	37.37	35.52	32.24	29.98	32.35	34.70	36.90

CAL YR 1995 LOW 43.04
WTR YR 1996 LOW 39.14

GROUND-WATER RECORDS

CARROLL COUNTY

403709081052800. Local number, C-1.

LOCATION.--Lat 40°37'09", long 81°05'28", Hydrologic Unit 05040001, Carrollton well field, State Route 171, 3 mi north of Carrollton.

Owner: Carrollton Water Department.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth 70 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1050 ft above sea level, from topographic map.

Measuring point: Top of platform 3.0 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

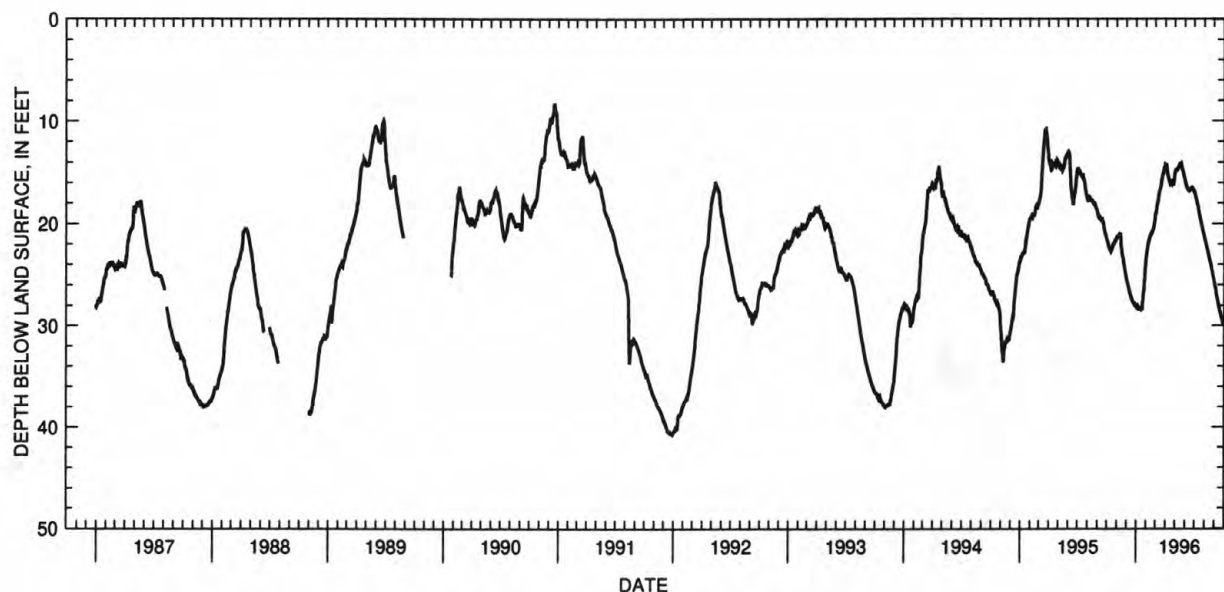
PERIOD OF RECORD.--August 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 40.76 ft below land-surface datum, Dec. 30, 1991;
minimum daily low, 7.20 ft below land-surface datum, Jan. 10, 1971.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.56	21.39	25.35	28.05	23.47	19.08	14.41	14.99	15.75	16.97	21.34	25.70
2	21.62	21.32	25.40	28.05	23.17	18.89	14.35	14.96	15.90	17.00	21.49	25.86
3	21.67	21.34	25.62	28.24	22.89	19.08	14.12	14.70	15.97	17.24	21.65	25.98
4	21.85	21.33	25.74	28.25	22.67	18.80	14.25	14.76	16.17	17.37	21.75	26.16
5	21.94	21.33	25.85	28.28	22.42	18.35	14.51	14.76	16.34	17.46	21.88	26.31
6	22.11	21.24	25.94	28.27	22.27	18.24	14.71	14.76	16.34	17.56	21.99	26.34
7	22.24	21.19	26.11	28.18	21.93	18.05	14.99	14.68	16.47	17.64	22.12	26.63
8	22.28	21.23	26.16	28.26	21.77	17.88	15.17	14.65	16.55	17.77	22.24	26.83
9	22.39	21.23	26.39	28.25	21.79	17.85	15.36	14.68	16.60	18.01	22.42	27.00
10	22.46	21.08	26.48	28.35	21.56	17.72	15.47	14.61	16.70	18.18	22.53	27.17
11	22.54	21.13	26.61	28.32	21.53	17.38	15.55	14.60	16.74	18.22	22.64	27.26
12	22.59	21.12	26.76	28.29	21.42	17.13	15.69	14.44	16.77	18.32	22.80	27.42
13	22.60	20.93	26.78	28.33	21.29	16.99	15.87	14.36	16.81	18.55	22.95	27.62
14	22.75	21.54	26.99	28.40	21.14	16.81	16.05	14.35	16.83	18.74	23.06	27.83
15	22.70	22.07	27.04	28.50	21.13	16.74	15.87	14.18	16.82	18.97	23.19	27.99
16	22.67	22.42	27.26	28.39	21.02	16.71	16.19	14.14	16.76	19.10	23.35	28.06
17	22.53	22.61	27.27	28.44	20.95	16.45	16.18	14.09	16.71	19.23	23.49	28.28
18	22.27	22.98	27.28	28.42	21.01	16.35	15.98	14.12	16.71	19.32	23.65	28.43
19	22.19	23.19	27.42	28.36	20.94	16.09	15.94	14.11	16.63	19.60	23.75	28.55
20	22.09	23.25	27.49	28.35	20.92	15.75	16.08	14.09	16.54	19.72	23.87	28.65
21	22.05	23.32	27.63	27.71	20.86	15.69	16.15	14.33	16.49	19.83	24.01	28.70
22	22.08	23.42	27.66	27.49	20.71	15.37	16.08	14.44	16.48	19.98	24.15	28.94
23	22.03	23.79	27.68	27.04	20.49	15.34	16.28	14.60	16.55	20.07	24.33	29.07
24	21.93	23.95	27.75	26.65	20.56	15.17	16.11	14.76	16.54	20.22	24.48	29.20
25	21.90	24.15	27.83	26.63	20.38	15.07	15.65	14.84	16.68	20.39	24.60	29.34
26	21.76	24.32	27.85	26.03	20.15	15.01	15.87	14.95	16.69	20.58	24.76	29.40
27	21.65	24.50	27.94	25.55	19.91	14.93	15.83	15.05	16.69	20.71	24.94	29.48
28	21.64	24.79	28.01	25.47	19.69	14.60	15.87	15.14	16.73	20.83	25.07	29.72
29	21.65	24.95	28.01	24.80	19.53	14.56	15.59	15.39	16.75	20.94	25.18	29.79
30	21.58	24.99	27.97	24.32	---	14.52	15.06	15.53	16.87	21.07	25.35	29.83
31	21.47	---	28.01	23.71	---	14.34	---	15.64	---	21.20	25.49	---
MAX	22.75	24.99	28.01	28.50	23.47	19.08	16.28	15.64	16.87	21.20	25.49	29.83

CAL YR 1995 LOW 28.01

WTR YR 1996 LOW 29.83



GROUND-WATER RECORDS

205

CHAMPAIGN COUNTY

400638083453900. Local number, CH-3.

LOCATION.--Lat 40°06'38", long 83°45'39", Hydrologic Unit 05080001, in Urbana.

Owner: Howard Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 40 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1030 ft above sea level, from topographic map.

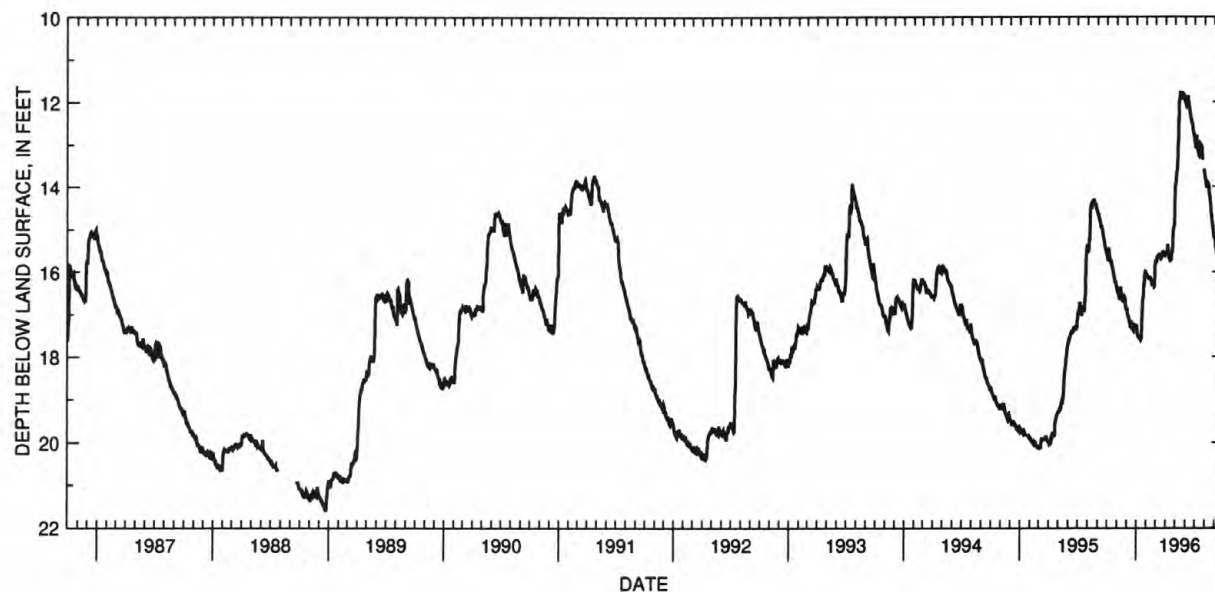
Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1957 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.80 ft below land-surface datum, Feb. 26-29, Mar. 13, 1964;
minimum daily low, 11.76 ft below land-surface datum, May 20, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.55	16.38	16.90	17.28	16.04	15.77	15.58	14.03	12.02	12.92	13.74	15.17
2	15.67	16.42	16.91	17.24	16.08	15.73	15.56	13.93	12.02	12.95	13.79	15.17
3	15.70	16.45	16.85	17.39	16.08	15.78	15.55	13.88	12.03	13.07	13.84	15.31
4	15.72	16.49	16.97	17.42	16.09	15.78	15.55	13.84	12.10	13.07	13.85	15.39
5	15.72	16.42	17.00	17.47	16.11	15.70	15.60	13.67	12.12	13.00	13.93	15.42
6	15.42	16.51	17.04	17.50	16.13	15.63	15.57	13.65	12.13	12.78	14.01	15.48
7	15.50	16.51	17.05	17.51	16.12	15.65	15.48	13.60	12.13	12.96	14.02	15.51
8	15.56	16.58	17.09	17.52	16.13	15.67	15.35	13.53	11.97	12.99	14.02	15.59
9	15.61	16.62	17.10	17.55	16.14	15.68	15.56	13.17	11.86	13.07	13.89	15.63
10	15.66	16.64	17.13	17.56	16.13	15.59	15.58	12.94	11.98	13.14	13.90	15.69
11	15.72	16.64	17.18	17.57	16.13	15.64	15.60	12.84	12.05	13.16	13.92	15.74
12	15.74	16.38	17.21	17.58	16.14	15.62	15.66	12.01	12.08	13.19	13.93	15.79
13	15.77	16.38	17.27	17.54	16.14	15.63	15.69	11.98	12.14	13.25	13.95	15.85
14	15.73	16.47	17.26	17.50	16.15	15.63	15.68	11.96	12.18	13.27	14.07	15.91
15	15.76	16.51	17.28	17.50	16.17	15.64	15.69	11.94	12.22	13.25	14.14	15.96
16	15.79	16.56	17.21	17.59	16.19	15.65	15.68	11.80	12.28	13.25	14.20	15.97
17	15.87	16.59	17.20	17.57	16.23	15.66	15.71	11.81	12.34	13.32	14.25	15.99
18	15.90	16.62	17.30	17.42	16.28	15.70	15.73	11.81	12.37	13.01	14.29	15.98
19	15.93	16.65	17.30	17.08	16.30	15.69	15.72	11.81	12.42	13.02	14.40	16.04
20	15.97	16.67	17.29	16.80	16.29	15.62	15.60	11.76	12.47	13.00	14.51	16.11
21	15.99	16.69	17.33	16.66	16.31	15.58	15.47	11.82	12.49	13.04	14.59	16.11
22	16.06	16.69	17.35	16.62	16.31	15.58	15.51	11.87	12.51	13.05	14.66	16.05
23	16.09	16.70	17.37	16.59	16.30	15.58	15.51	11.91	12.51	13.10	14.75	16.15
24	16.13	16.65	17.31	16.36	16.31	15.50	15.20	11.92	12.61	13.28	14.82	16.20
25	16.16	16.60	17.29	16.35	16.31	15.55	15.03	11.94	12.69	13.37	14.87	16.24
26	16.23	16.61	17.27	16.21	16.36	15.60	14.97	11.82	12.70	---	14.93	16.32
27	16.23	16.64	17.28	16.08	16.35	15.59	14.95	11.83	12.74	---	15.00	16.32
28	16.24	16.78	17.29	16.03	15.88	15.58	14.93	11.85	12.77	---	15.06	16.01
29	16.24	16.82	17.30	16.04	15.83	15.60	14.86	11.86	12.82	13.59	15.08	16.07
30	16.31	16.88	17.31	16.04	---	15.60	14.28	11.91	12.87	13.62	15.18	16.12
31	16.35	---	17.31	16.05	---	15.61	---	11.96	---	13.66	15.18	---
MAX	16.35	16.88	17.37	17.59	16.36	15.78	15.73	14.03	12.87	13.66	15.18	16.32

CAL YR 1995 LOW 20.13
WTR YR 1996 LOW 17.59

GROUND-WATER RECORDS

CLARK COUNTY

395639084012200. Local number, CL-9.

LOCATION.--Lat 39°56'39", long 84°01'22", Hydrologic Unit 05080001, at north edge of New Carlisle.

Owner: New Carlisle Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 113 ft, cased.

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

DATUM.--Elevation of land-surface datum is 900 ft above sea level, from topographic map.

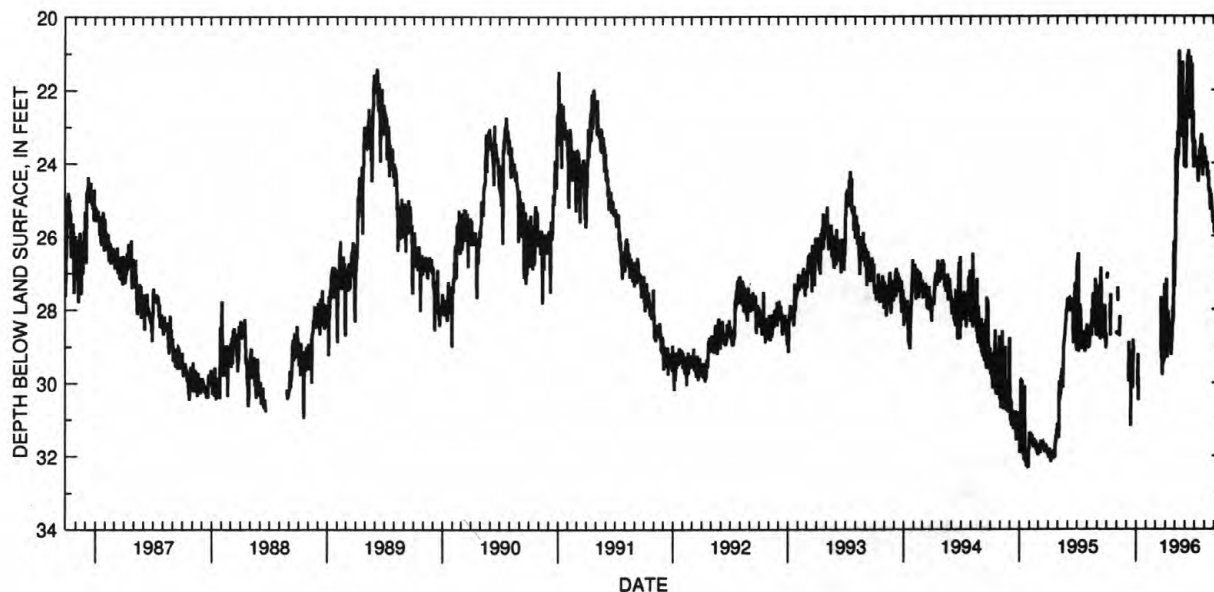
Measuring point: Top of platform 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1974 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.29 ft below land-surface datum, Jan. 23, 28, 1995;
minimum daily low, 18.20 ft below land-surface datum, July 4, 1980.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	28.60	---	---	---	---	29.12	27.15	24.11	24.13	23.58	25.46
2	---	28.69	---	26.93	---	---	28.86	26.54	23.61	23.36	23.91	25.91
3	27.17	28.59	29.16	---	---	---	28.83	26.11	23.33	23.39	23.59	25.47
4	26.99	---	---	---	---	---	28.85	25.99	22.46	24.08	23.83	25.78
5	---	27.78	---	---	---	---	27.17	23.77	24.15	23.96	24.11	25.88
6	---	27.41	28.85	30.08	---	---	29.29	25.38	23.67	23.92	23.80	25.87
7	---	---	---	29.21	---	---	29.31	23.60	23.31	24.03	24.03	25.64
8	28.20	---	---	30.48	---	---	29.01	24.91	22.34	23.85	24.13	26.00
9	---	28.58	29.97	---	---	---	28.73	23.95	21.85	23.94	24.10	25.76
10	28.44	28.73	28.87	---	---	---	28.77	24.01	21.76	23.82	24.08	25.92
11	---	28.18	---	---	---	---	28.05	23.13	21.04	24.00	23.96	26.04
12	27.83	---	---	29.84	---	---	28.87	23.83	22.06	24.12	24.38	26.19
13	28.71	28.46	---	---	---	---	29.05	23.77	21.81	24.37	24.33	25.94
14	27.58	---	---	---	---	---	29.03	23.26	20.92	24.51	24.19	25.76
15	---	28.34	31.18	---	---	---	28.62	22.52	22.78	24.20	24.39	25.75
16	28.65	---	30.24	---	---	---	28.68	21.00	21.68	24.06	24.69	26.04
17	---	---	29.13	30.73	---	---	28.60	20.93	22.73	23.94	24.78	25.88
18	27.86	28.42	---	---	---	---	28.88	23.07	22.06	23.67	24.80	25.89
19	---	---	29.85	---	---	27.66	28.34	22.74	22.72	23.61	24.70	25.56
20	28.40	28.69	29.16	---	---	29.35	29.24	23.05	22.53	23.84	25.28	25.99
21	---	---	30.15	---	---	28.59	28.75	22.47	21.09	23.76	24.87	25.94
22	28.47	28.28	29.98	---	---	29.26	28.90	23.27	22.72	23.33	24.98	25.86
23	---	---	28.82	---	---	29.79	28.47	22.48	21.93	23.37	24.85	26.21
24	28.35	---	29.21	---	---	29.41	28.37	23.29	21.70	23.20	25.22	26.27
25	---	---	---	---	---	28.52	27.94	22.68	21.28	23.34	25.06	26.38
26	28.72	---	---	---	---	29.30	28.36	21.27	23.23	23.73	25.27	25.97
27	---	---	---	---	---	28.74	27.79	21.23	23.44	23.95	25.31	26.07
28	27.81	---	---	---	---	29.43	26.73	22.87	22.57	24.35	25.46	25.81
29	---	---	---	---	---	29.20	26.15	23.27	23.77	23.95	25.65	25.34
30	28.59	27.53	---	---	---	27.39	27.41	23.06	24.11	23.81	25.47	25.50
31	---	---	---	---	---	27.31	---	23.88	---	23.55	25.58	---
MAX	28.72	28.73	31.18	30.73	---	29.79	29.31	27.15	24.15	24.51	25.65	26.38

CAL YR 1995 LOW 32.29
WTR YR 1996 LOW 31.18

GROUND-WATER RECORDS

207

CLARK COUNTY--Continued

395840083495200. Local number, CL-7.

LOCATION.--Lat 39°58'40", long 83°49'52", Hydrologic Unit 05080001. Eagle City Road northwest of Springfield.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 50 ft, cased.

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

DATUM.--Elevation of land-surface datum is 928.02 ft.

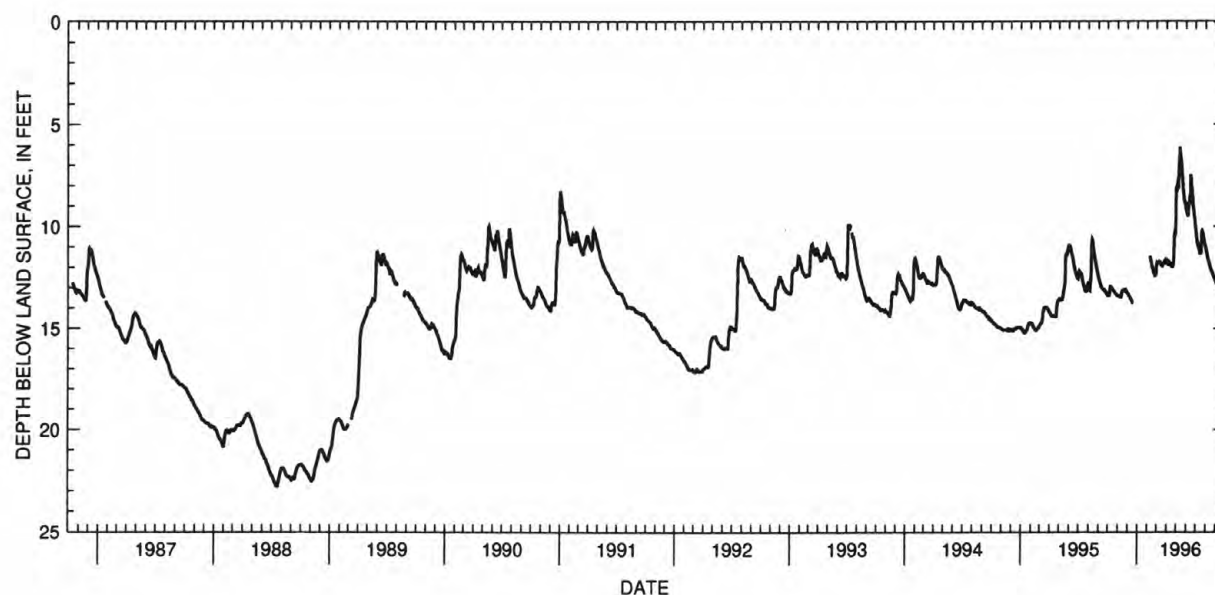
Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 30.17 ft below land-surface datum, Feb. 18, 19, 1961;
minimum daily low, 6.10 ft below land-surface datum, May 12, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.39	13.41	13.26	---	---	11.87	11.74	8.13	9.15	10.12	11.02	12.68
2	13.40	13.40	13.28	---	---	11.75	11.77	8.09	9.24	10.29	11.09	12.71
3	13.40	13.42	13.29	---	---	11.76	11.73	8.16	9.31	10.47	11.18	12.77
4	13.40	13.43	13.33	---	---	11.77	11.79	8.17	9.35	10.62	11.25	12.80
5	13.40	13.43	13.37	---	---	11.75	11.81	8.02	9.43	10.74	11.34	12.85
6	13.23	13.41	13.39	---	---	11.76	11.77	7.86	9.46	10.87	11.41	12.89
7	13.10	13.41	13.43	---	---	11.76	11.73	7.89	9.45	10.93	11.51	12.92
8	13.01	13.45	13.45	---	---	11.74	11.72	7.91	9.01	10.88	11.59	12.95
9	12.93	13.46	13.49	---	11.44	11.71	11.76	7.26	8.82	10.96	11.63	12.98
10	12.94	13.46	13.51	---	11.50	11.72	11.76	7.02	8.86	11.04	11.69	13.00
11	12.97	13.46	13.54	---	11.58	11.72	11.78	7.02	8.94	11.09	11.74	13.01
12	12.99	13.37	13.57	---	11.67	11.75	11.81	6.10	8.61	11.14	11.81	13.03
13	13.01	13.23	13.59	---	11.70	11.78	11.89	6.32	8.64	11.24	11.85	13.05
14	13.01	13.17	13.64	---	11.80	11.84	11.82	6.57	8.71	11.31	11.91	13.05
15	13.02	13.13	13.67	---	11.89	11.87	11.91	6.66	7.44	11.31	11.98	13.05
16	13.09	13.11	13.71	---	11.96	11.88	11.93	6.75	7.63	11.28	12.05	13.05
17	13.11	13.11	13.72	---	12.02	11.91	11.95	6.90	7.83	11.29	12.10	12.96
18	13.13	13.11	13.72	---	12.10	11.93	11.95	7.09	8.05	11.27	12.11	12.94
19	13.15	13.11	13.72	---	12.14	11.93	11.97	7.29	8.26	10.44	12.16	12.93
20	13.17	13.08	---	---	12.23	11.86	11.97	7.51	8.46	10.26	12.20	12.96
21	13.19	13.08	---	---	12.28	11.86	11.91	7.75	8.63	10.23	12.23	12.96
22	13.23	13.09	---	---	12.30	11.83	11.81	7.98	8.81	10.26	12.29	12.95
23	13.25	13.13	---	---	12.33	11.80	11.72	8.22	8.97	10.34	12.34	12.97
24	13.28	13.15	---	---	12.38	11.78	11.11	8.39	9.14	10.43	12.37	12.98
25	13.29	13.13	---	---	12.39	11.70	10.50	8.57	9.31	10.50	12.39	13.01
26	13.30	13.11	---	---	12.38	11.68	10.34	8.73	9.46	10.59	12.43	13.02
27	13.32	13.14	---	---	12.38	11.68	10.36	8.79	9.59	10.72	12.47	13.02
28	13.35	13.20	---	---	12.26	11.66	10.38	8.79	9.72	10.79	12.53	12.91
29	13.36	13.22	---	---	12.04	11.70	10.33	8.88	9.87	10.87	12.56	12.78
30	13.39	13.23	---	---	---	11.70	8.74	8.94	9.99	10.91	12.61	12.73
31	13.40	---	---	---	---	11.67	---	9.05	---	10.94	12.67	---
MAX	13.40	13.46	13.72	---	12.39	11.93	11.97	9.05	9.99	11.31	12.67	13.05

CAL YR 1995 LOW 15.23
WTR YR 1996 LOW 13.72

GROUND-WATER RECORDS

COSHOCTON COUNTY

401256081525100. Local number, CS-3.

LOCATION.--Lat 40°12'56", long 81°52'51", Hydrologic Unit 05040004, 1.5 mi north of Conesville.

Owner: Universal Cyclops Corp.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 110 ft, cased.

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

DATUM.--Elevation of land-surface datum is 745 ft above sea level, from topographic map.

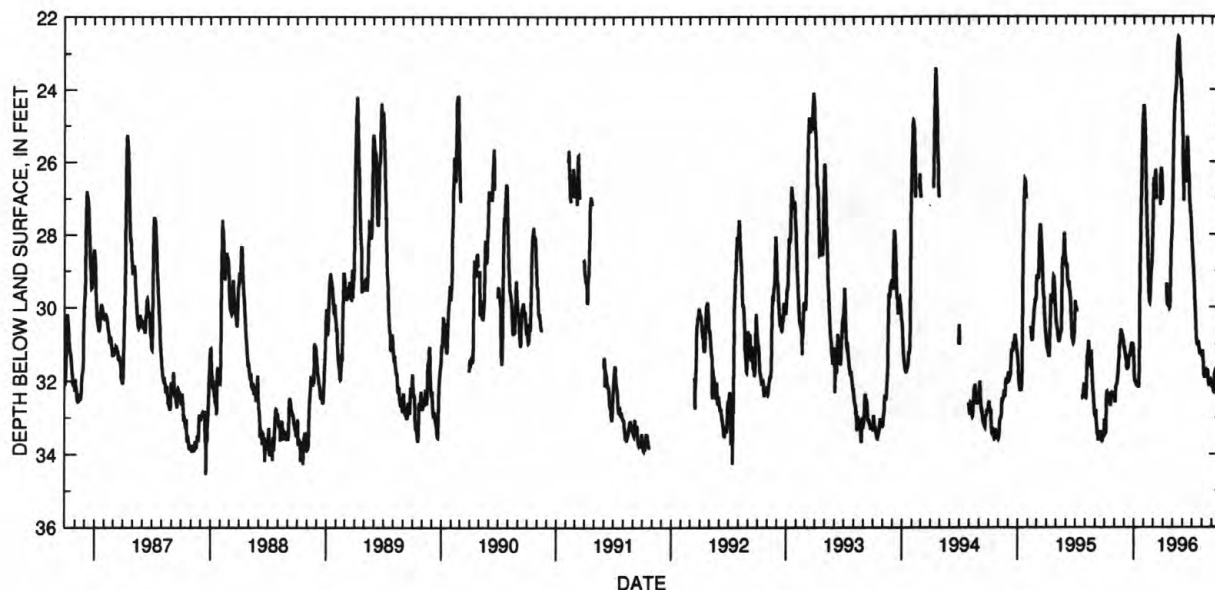
Measuring point: Floor of instrument shelter 2.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1958 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.98 ft below land-surface datum, Oct. 16, 1973;
minimum daily low, 21.40 ft below land-surface datum, July 10, 1969.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.30	32.39	30.96	31.11	24.42	27.88	---	27.55	25.04	28.10	31.27	32.09
2	33.04	32.40	31.08	31.35	24.49	27.30	---	26.93	25.40	28.26	31.20	32.07
3	33.29	32.43	31.05	31.64	24.63	26.80	---	26.18	25.97	28.41	31.19	32.15
4	33.42	32.58	31.10	31.86	24.79	26.43	---	25.60	26.47	28.61	31.19	32.17
5	33.43	32.54	31.17	31.99	25.02	26.55	---	25.11	26.86	28.75	31.32	32.20
6	33.41	32.31	31.24	32.01	25.32	26.62	---	24.69	27.07	28.90	31.54	32.22
7	33.12	32.14	31.29	31.97	25.73	26.61	---	24.46	---	29.07	31.73	32.29
8	32.63	32.13	31.35	32.01	26.28	26.39	---	24.26	---	29.22	31.84	32.30
9	32.31	32.12	31.41	32.05	26.83	26.21	---	24.11	---	29.45	31.89	32.16
10	32.30	32.07	31.59	32.11	27.08	26.42	---	24.04	26.58	29.70	31.89	31.85
11	32.35	32.03	31.63	32.11	27.41	26.70	---	23.97	26.19	29.91	31.79	31.76
12	32.40	31.94	31.66	31.98	27.74	27.03	---	23.81	25.92	30.10	31.70	31.74
13	32.46	31.83	31.66	32.08	28.01	---	29.34	23.45	25.75	30.25	31.69	31.74
14	32.46	31.71	31.63	32.08	28.28	---	29.56	23.06	25.65	30.50	31.68	31.63
15	32.40	31.55	31.61	32.14	28.57	---	29.81	22.80	25.48	30.75	31.69	31.69
16	32.33	31.43	31.52	32.16	28.85	---	29.96	22.70	25.30	30.90	31.69	31.81
17	32.45	31.32	31.40	32.16	29.29	---	29.97	22.62	25.35	30.97	31.87	31.89
18	32.53	31.04	31.30	32.14	29.53	---	29.91	22.55	25.61	31.00	31.85	31.94
19	32.60	31.06	31.33	31.79	29.70	---	29.90	22.56	25.90	31.00	31.70	31.95
20	32.65	30.99	31.33	30.90	29.85	---	29.95	22.67	26.14	30.97	31.73	31.95
21	32.65	30.80	31.30	29.69	29.86	---	29.95	22.86	26.34	30.94	31.89	32.02
22	32.56	30.70	31.24	28.72	29.75	---	29.96	23.08	26.57	30.94	32.00	32.03
23	32.34	30.63	31.19	28.09	29.42	---	30.02	23.40	26.84	31.04	32.10	32.07
24	32.33	30.63	31.14	27.53	29.13	27.20	30.00	23.55	27.10	31.12	32.14	32.17
25	32.37	30.69	31.05	26.95	29.04	26.44	29.68	23.67	27.22	31.18	32.10	32.18
26	32.40	30.73	30.99	26.35	28.94	26.21	29.18	23.68	27.35	31.25	31.97	32.14
27	32.44	30.73	30.98	25.82	28.87	26.15	28.60	23.74	27.40	31.28	31.90	32.04
28	32.44	30.77	30.98	25.45	28.73	26.21	28.25	24.01	27.54	31.22	32.06	32.00
29	32.39	30.84	30.99	25.05	28.40	26.40	28.09	24.22	27.70	31.18	32.06	31.99
30	32.31	30.89	30.99	24.81	---	26.76	27.94	24.43	27.90	31.26	32.03	31.72
31	32.35	---	31.00	24.62	---	27.06	---	24.75	---	31.28	32.07	---
MAX	33.43	32.58	31.66	32.16	29.86	27.88	30.02	27.55	27.90	31.28	32.14	32.30

CAL YR 1995 LOW 33.68
WTR YR 1996 LOW 33.43

GROUND-WATER RECORDS

209

COSHOCTON COUNTY--Continued

401735081523800. Local number, CS-2.

LOCATION.--Lat 40°17'35", long 81°52'38", Hydrologic Unit 05040003, 1.7 mi northwest of courthouse in Coshocton.

Owner: City of Coshocton.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test well, diameter 6 in., depth 40 ft, cased.

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

DATUM.--Elevation of land-surface datum is 740 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 8.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

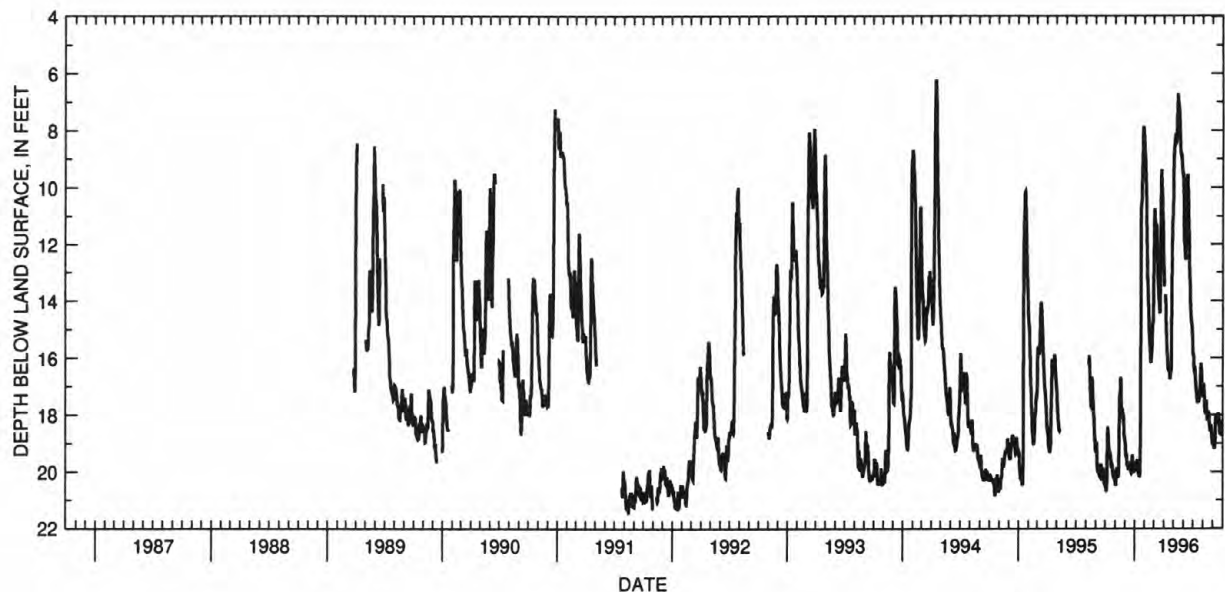
PERIOD OF RECORD.--May 1949 to September 1982. Reactivated March 24, 1989.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.47 ft below land-surface datum, Aug. 15, 1991;
minimum measured low, 0.43 ft below land-surface datum, Feb. 21, 1951.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.48	20.34	18.89	19.64	8.70	12.70	12.82	9.56	9.70	15.85	17.37	18.98
2	20.50	20.46	18.95	19.84	8.86	11.37	13.23	8.93	10.39	15.89	17.25	18.95
3	20.56	20.46	19.02	19.93	9.09	10.75	13.51	8.58	11.38	15.90	16.96	18.93
4	20.66	20.32	19.28	19.93	9.38	10.99	---	8.52	11.96	16.22	16.90	19.05
5	20.66	20.10	19.48	19.92	9.83	11.38	---	8.46	12.03	16.48	17.19	19.16
6	20.53	19.95	19.49	19.90	10.35	11.59	13.79	8.27	12.22	16.50	17.51	19.16
7	19.75	19.86	19.35	19.85	11.12	11.59	14.11	8.10	12.51	16.30	17.76	19.13
8	18.86	19.98	19.65	19.73	11.95	11.42	14.61	8.47	12.51	16.61	17.91	19.00
9	18.43	20.10	19.77	19.62	12.62	11.30	15.12	8.49	11.99	16.84	17.97	18.40
10	18.63	20.17	19.75	19.58	13.16	11.57	15.59	8.14	10.27	16.99	17.93	18.12
11	18.85	20.16	19.76	19.76	13.44	11.97	15.75	8.32	9.94	17.11	17.61	18.02
12	19.08	20.12	19.90	19.92	13.65	12.41	15.89	7.66	9.65	17.23	17.50	18.01
13	19.27	19.41	19.90	20.04	14.07	12.85	16.16	7.27	9.59	17.38	17.80	18.27
14	19.34	17.94	19.79	20.10	14.53	13.25	16.37	6.71	9.59	17.50	18.01	18.27
15	19.34	17.31	19.81	20.14	14.95	13.57	16.37	6.95	10.04	17.55	18.17	18.24
16	19.33	17.38	19.84	20.15	15.26	13.83	16.46	7.05	10.46	17.55	18.17	18.08
17	19.43	17.16	19.79	20.14	15.50	13.95	16.46	7.08	10.91	17.55	18.02	17.94
18	19.48	16.76	19.66	20.12	15.65	14.15	16.43	7.24	11.50	17.55	17.94	17.96
19	19.64	16.69	19.79	19.08	15.89	14.43	16.51	7.36	12.08	17.53	17.88	17.99
20	19.82	17.32	19.90	14.31	16.17	14.44	16.72	7.68	12.71	17.45	18.09	18.07
21	19.85	17.88	19.99	10.72	16.19	13.51	16.72	8.14	13.21	17.35	18.24	18.26
22	19.68	17.96	20.03	10.56	16.06	11.46	16.31	8.58	13.48	17.34	18.37	18.56
23	19.75	17.80	19.99	10.42	15.85	10.07	16.50	8.75	14.01	17.15	18.47	18.68
24	19.89	17.80	19.69	9.85	15.61	9.37	16.47	8.84	14.37	16.86	18.56	18.66
25	20.02	18.11	19.41	9.21	15.40	9.67	15.41	8.86	14.64	16.47	18.56	18.58
26	20.13	18.14	19.53	8.65	14.77	10.04	13.50	8.80	14.76	16.19	18.36	18.62
27	20.17	17.99	19.84	8.10	14.81	10.43	11.97	9.08	14.79	16.28	18.46	18.68
28	20.15	18.37	19.93	7.85	14.70	10.82	11.29	9.32	14.93	16.53	18.61	18.71
29	20.09	18.68	20.02	7.91	13.65	11.21	11.07	9.40	15.08	16.79	18.72	18.71
30	20.06	18.78	20.04	8.17	---	11.70	10.68	9.53	15.46	17.17	18.91	18.21
31	20.09	---	19.88	8.46	---	12.28	---	9.52	---	17.35	18.99	---
MAX	20.66	20.46	20.04	20.15	16.19	14.44	16.72	9.56	15.46	17.55	18.99	19.16

CAL YR 1995 LOW 20.66

WTR YR 1996 LOW 20.66



GROUND-WATER RECORDS

DARKE COUNTY

400514084345700. Local number, D-2.

LOCATION.--Lat 40°05'14", long 84°34'57", Hydrologic Unit 05080001, State Route 571, 3 mi east of Greenville.

Owner: Greenville Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 70 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1038 ft above sea level, from topographic map.

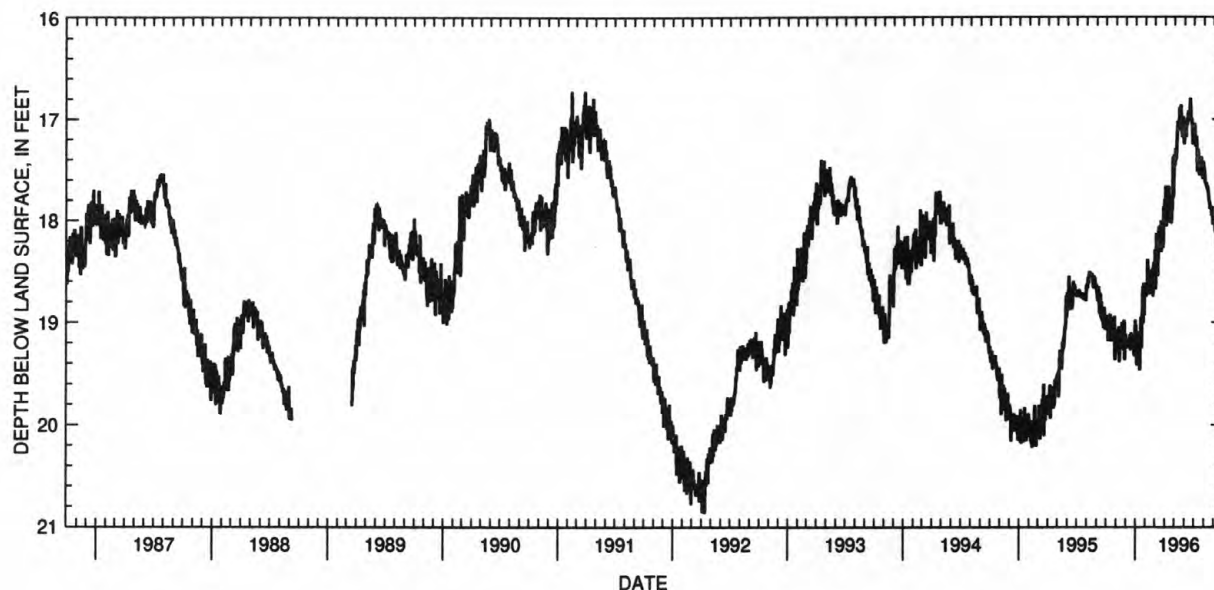
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.87 ft below land-surface datum, Apr. 12, 1992;
minimum daily low, 16.72 ft below land-surface datum, Feb. 13, Mar. 27, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.95	19.10	19.20	19.04	18.62	18.29	17.96	17.41	17.13	17.14	17.49	17.99
2	19.07	19.09	19.24	19.04	18.75	18.34	17.94	17.46	17.04	17.04	17.53	18.02
3	18.93	19.24	19.17	19.24	18.67	18.68	17.66	17.29	17.02	17.17	17.58	18.05
4	19.05	19.27	19.23	19.30	18.74	18.59	17.95	17.39	17.07	17.23	17.63	18.08
5	18.94	19.27	19.21	19.42	18.64	18.13	18.06	17.39	17.18	17.27	17.62	18.12
6	19.05	19.07	19.25	19.31	18.64	18.34	17.78	17.38	17.07	17.26	17.65	18.07
7	19.17	19.16	19.17	19.09	18.38	18.38	17.73	17.28	17.03	17.18	17.64	18.06
8	19.17	19.27	19.18	19.15	18.44	18.44	17.76	17.13	17.06	17.17	17.64	18.13
9	19.03	19.27	19.20	19.12	18.59	18.51	17.78	17.12	16.99	17.40	17.68	18.22
10	19.06	19.04	19.20	19.33	18.52	18.55	17.83	17.03	17.03	17.52	17.68	18.27
11	19.10	19.38	19.22	19.21	18.67	18.36	17.75	17.03	16.93	17.47	17.67	18.22
12	19.05	19.38	19.17	19.12	18.73	18.11	17.66	17.05	16.92	17.34	17.66	18.16
13	18.93	19.15	19.16	19.12	18.67	18.07	17.91	17.10	16.95	17.30	17.72	18.20
14	18.92	19.17	19.17	19.21	18.49	18.07	18.01	17.11	16.95	17.38	17.73	18.24
15	19.02	19.13	19.21	19.47	18.60	18.19	17.75	16.89	16.92	17.49	17.76	18.28
16	19.18	19.21	19.25	19.20	18.72	18.24	18.01	16.95	16.95	17.53	17.81	18.25
17	19.17	19.21	19.27	19.07	18.54	18.21	18.02	16.90	16.89	17.56	17.80	18.41
18	19.01	19.17	19.10	18.95	18.64	18.21	17.82	16.93	16.79	17.39	17.83	18.43
19	19.06	19.20	19.12	19.25	18.51	18.00	17.80	16.91	16.88	17.44	17.88	18.34
20	18.95	19.00	19.24	19.23	18.56	18.31	17.91	16.86	16.97	17.52	17.87	18.29
21	19.02	19.09	19.20	18.96	18.64	18.28	18.03	16.99	17.01	17.42	17.88	18.24
22	19.16	19.16	19.23	18.90	18.61	18.21	17.79	17.07	16.99	17.37	17.86	18.41
23	19.16	19.23	19.19	18.65	18.47	18.27	17.91	17.05	17.03	17.40	17.88	18.47
24	19.17	19.27	19.14	18.97	18.75	18.17	17.85	17.17	17.04	17.42	17.95	18.45
25	19.17	19.10	19.15	19.01	18.66	18.19	17.38	17.17	17.17	17.44	17.88	18.51
26	19.00	18.99	19.15	18.62	18.48	18.27	17.76	17.01	17.25	17.54	17.88	18.41
27	18.94	18.98	19.29	18.92	18.41	18.21	17.76	16.98	17.18	17.59	17.96	18.36
28	19.26	19.37	19.33	18.93	18.60	17.86	17.70	16.99	17.15	17.52	18.04	18.51
29	19.37	19.24	19.30	18.64	18.59	17.91	17.36	17.16	17.12	17.42	18.02	18.53
30	19.28	19.11	19.12	18.64	---	17.89	17.37	17.25	17.07	17.44	18.03	18.57
31	19.14	---	18.98	18.64	---	17.79	---	17.18	---	17.51	18.00	---
MAX	19.37	19.38	19.33	19.47	18.75	18.68	18.06	17.46	17.25	17.59	18.04	18.57

CAL YR 1995 LOW 20.22
WTR YR 1996 LOW 19.47

GROUND-WATER RECORDS

211

DELAWARE COUNTY

402126083040400. Local number, DL-3.

LOCATION.--Lat 40°21'26", long 83°04'04", Hydrologic Unit 05060001, east bank of Olentangy River at toe of Delaware dam.

Owner: U.S. Army Corps of Engineers.

AQUIFER.--Limestone of Devonian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 135 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 900 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 2.60 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1948 to current year.

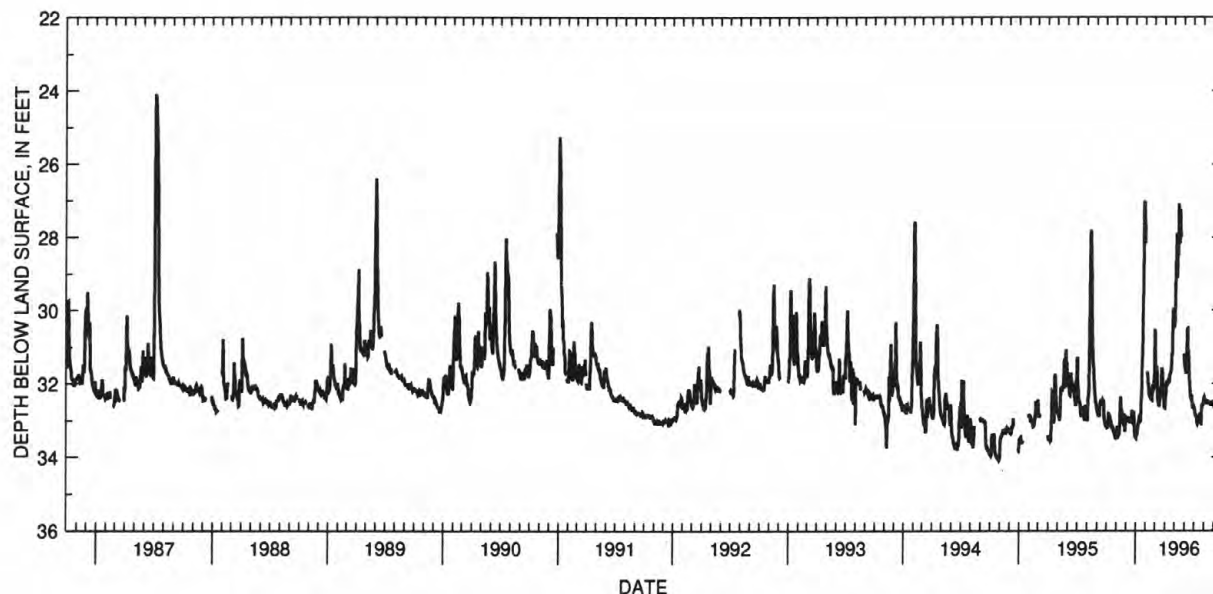
EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.04 ft below land-surface datum, Nov. 1, 1948, Dec. 2, 3, 1948; minimum daily low, 20.43 ft below land-surface datum, Jan. 27, 1959.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.15	33.45	32.93	33.44	28.16	30.51	32.65	30.43	31.37	32.65	32.39	32.61
2	33.19	33.40	32.96	33.46	---	30.70	32.50	30.41	31.51	32.66	32.36	32.63
3	33.18	33.37	32.91	33.30	---	31.59	32.37	30.07	31.55	32.72	32.40	32.64
4	33.18	33.19	32.97	33.35	---	31.79	32.28	29.23	31.60	32.77	32.45	32.66
5	33.18	33.19	32.96	33.38	---	31.83	32.25	29.47	31.63	32.84	32.52	32.67
6	33.02	33.25	32.91	33.37	31.67	31.87	32.03	28.88	31.70	32.86	32.52	32.67
7	32.83	33.24	32.88	33.23	31.73	31.52	31.93	28.48	31.70	32.87	32.51	32.65
8	32.84	33.34	32.97	33.12	31.79	31.85	31.96	27.89	31.34	32.88	32.50	32.67
9	32.83	33.39	32.97	33.09	32.00	32.28	31.99	28.78	30.94	32.93	32.50	32.66
10	32.85	33.37	33.02	33.03	32.05	32.45	32.00	29.10	30.51	33.05	32.50	32.71
11	32.92	33.25	33.03	33.02	32.16	32.49	31.98	28.39	30.50	33.08	32.51	32.70
12	32.92	33.12	33.04	32.91	32.30	32.54	31.92	28.47	31.13	33.02	32.49	32.68
13	32.97	32.75	33.04	32.92	32.32	32.58	31.85	28.49	31.07	33.00	32.50	32.68
14	32.99	32.40	33.00	32.95	32.23	32.59	31.96	27.08	31.31	33.03	32.50	32.68
15	33.04	32.35	33.02	33.03	32.27	32.59	31.95	27.21	31.44	33.00	32.50	32.70
16	33.14	32.58	33.02	33.02	32.35	32.39	31.74	28.00	31.70	33.01	32.49	32.71
17	33.20	32.91	32.98	32.73	32.36	32.27	31.78	28.13	31.84	32.93	32.49	32.66
18	33.18	32.97	32.99	32.54	32.42	32.19	31.74	28.13	32.08	32.91	32.50	32.68
19	33.20	32.70	32.88	32.37	32.42	32.25	31.72	27.23	32.20	32.84	32.50	32.68
20	33.17	32.82	32.75	32.07	32.43	32.19	31.68	27.40	32.29	32.79	32.53	32.68
21	33.18	32.98	32.71	31.57	32.44	32.03	31.60	28.00	32.38	33.02	32.58	32.66
22	33.20	33.03	32.79	31.23	32.13	31.62	31.60	---	32.37	33.07	32.51	32.63
23	33.23	33.04	32.81	30.75	32.04	31.56	31.22	---	32.42	33.08	32.51	32.66
24	33.32	33.09	32.78	30.14	32.12	31.60	31.22	---	32.30	32.84	32.54	32.66
25	33.34	33.08	32.78	29.54	32.13	31.69	30.85	---	32.52	32.58	32.53	32.68
26	33.31	33.07	32.78	28.42	32.19	32.05	30.35	---	32.60	32.57	32.51	32.68
27	33.28	33.13	32.99	27.20	32.06	32.13	29.96	---	32.58	32.59	32.53	32.67
28	33.43	33.30	33.25	27.02	31.77	32.34	29.98	---	32.57	32.58	32.56	32.64
29	33.47	33.16	33.39	27.01	31.81	32.33	30.42	---	32.57	32.55	32.57	32.53
30	33.48	32.91	33.45	27.21	---	32.60	30.48	---	32.58	32.51	32.58	32.48
31	33.45	---	33.46	27.64	---	32.64	---	31.19	---	32.47	32.58	---
MAX	33.48	33.45	33.46	33.46	32.44	32.64	32.65	31.19	32.60	33.08	32.58	32.71

CAL YR 1995 LOW 33.61

WTR YR 1996 LOW 33.48



GROUND-WATER RECORDS

FAIRFIELD COUNTY

393450082403600. Local number, F-7.

LOCATION.--Lat 39°34'50", long 82°40'36", Hydrologic Unit 05030204, southeast of Amanda.

Owner: Pine Grove Springs Water Co. Inc.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in., depth 120 ft, cased to 31 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above sea level, from topographic map.

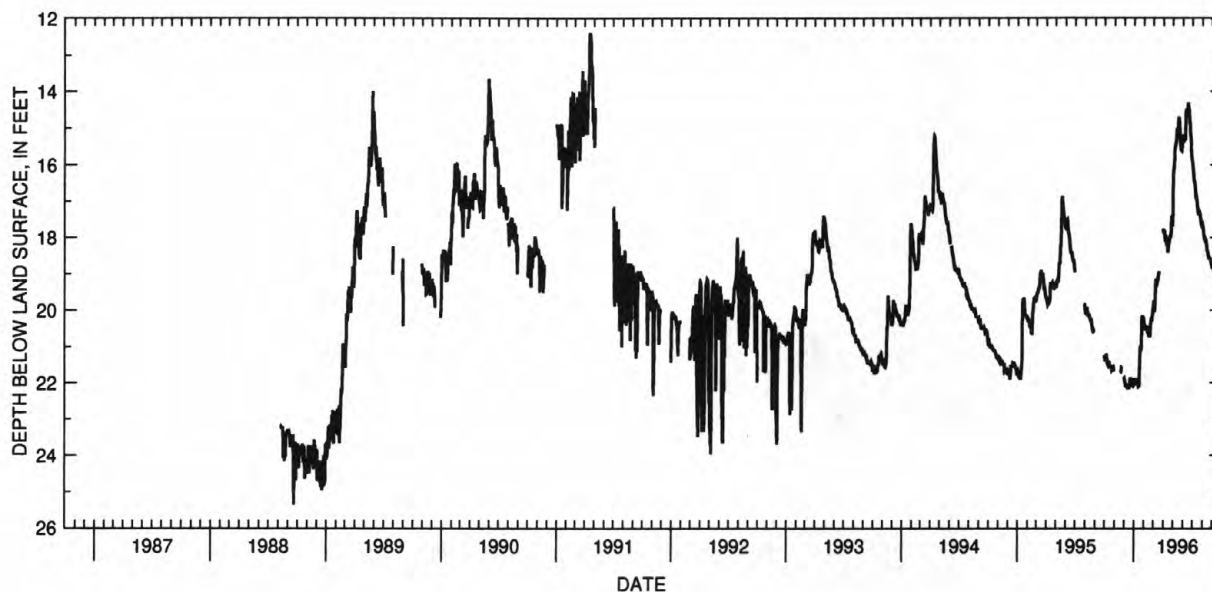
Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1988 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.36 ft below land-surface datum, Sept. 20, 1988;
minimum daily low, 12.38 ft below land-surface datum, Apr. 17, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.25	21.68	21.87	21.98	20.35	19.85	17.86	16.29	15.28	16.08	17.69	18.83
2	21.38	---	21.92	21.96	20.40	19.73	17.87	16.12	15.30	16.09	17.74	18.80
3	21.38	---	21.94	21.87	20.49	19.99	17.84	16.06	15.28	16.24	17.82	18.83
4	21.34	---	21.97	21.92	20.53	20.05	17.84	16.05	15.20	16.34	17.88	18.85
5	21.34	---	22.08	21.98	20.53	19.92	18.04	15.69	15.30	16.45	17.96	18.94
6	21.20	---	22.09	21.98	20.53	19.77	18.03	15.48	15.32	16.49	18.02	18.90
7	21.26	---	22.08	21.94	20.51	19.28	17.93	15.48	15.30	16.49	18.02	18.85
8	21.36	---	22.08	21.91	20.49	19.14	17.96	15.47	14.89	16.59	18.08	18.90
9	21.38	---	22.06	21.91	20.50	19.24	18.06	15.41	14.62	16.76	18.07	19.01
10	21.44	---	22.06	22.04	20.42	19.31	18.20	15.31	14.50	16.90	18.05	19.05
11	21.50	---	22.07	22.04	20.54	19.31	18.20	15.24	14.53	16.93	18.08	19.12
12	21.52	---	22.15	21.94	20.62	19.25	18.19	14.99	14.52	16.94	18.07	19.03
13	21.48	---	22.15	21.94	20.60	19.15	18.17	15.11	14.58	16.93	18.20	19.04
14	21.45	---	22.07	21.99	20.63	19.16	18.38	15.19	14.68	17.01	18.24	19.08
15	21.39	---	22.11	22.11	20.67	19.16	18.38	15.18	14.68	17.13	18.35	19.10
16	21.50	---	22.11	22.10	20.74	19.02	18.19	14.95	14.31	17.20	18.36	19.10
17	21.54	---	22.12	22.02	20.65	18.98	18.17	14.73	14.36	17.28	18.37	19.18
18	21.54	---	22.10	21.63	20.69	18.94	18.12	14.70	14.47	17.27	18.43	19.28
19	21.54	---	21.96	21.22	20.74	---	18.00	14.76	14.51	17.22	18.49	19.31
20	21.54	21.71	21.86	20.98	20.56	---	17.95	14.87	14.63	17.28	18.53	19.31
21	21.56	21.71	21.90	21.04	20.40	---	18.00	15.09	14.83	17.30	18.57	19.25
22	21.54	21.60	21.92	21.09	20.33	---	18.00	15.25	14.88	17.32	18.57	19.25
23	21.64	21.55	21.91	21.06	20.19	---	17.96	15.38	15.05	17.35	18.57	19.32
24	21.62	21.55	21.92	20.74	20.27	---	17.88	15.51	15.21	17.41	18.57	19.35
25	21.63	---	21.92	20.18	20.27	---	17.72	15.58	15.35	17.45	18.58	19.40
26	21.63	---	21.92	20.18	20.17	---	17.40	15.61	15.56	17.57	18.61	19.43
27	21.57	---	21.99	20.19	20.12	---	17.56	15.62	15.77	17.64	18.64	19.41
28	21.55	---	22.07	20.24	19.98	---	17.66	15.44	15.87	17.66	18.73	19.33
29	21.63	---	22.09	20.21	19.95	17.78	17.66	15.36	15.89	17.69	18.75	19.37
30	21.68	21.89	22.08	20.21	---	17.80	16.67	15.21	15.95	17.68	18.78	19.44
31	---	---	22.05	20.32	---	17.78	---	15.21	---	17.66	18.85	---
MAX	21.68	21.89	22.15	22.11	20.74	20.05	18.38	16.29	15.95	17.69	18.85	19.44

CAL YR 1995 LOW 22.15
WTR YR 1996 LOW 22.15

GROUND-WATER RECORDS

213

FAIRFIELD COUNTY--Continued

394257082362900. Local number, F-6.

LOCATION.--Lat 39°42'57", long 82°36'29", Hydrologic Unit 05030204, near Hocking River in well field at Lancaster.

Owner: Lancaster Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 108 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 820 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.45 ft below land-surface datum, Aug. 17, 1988;

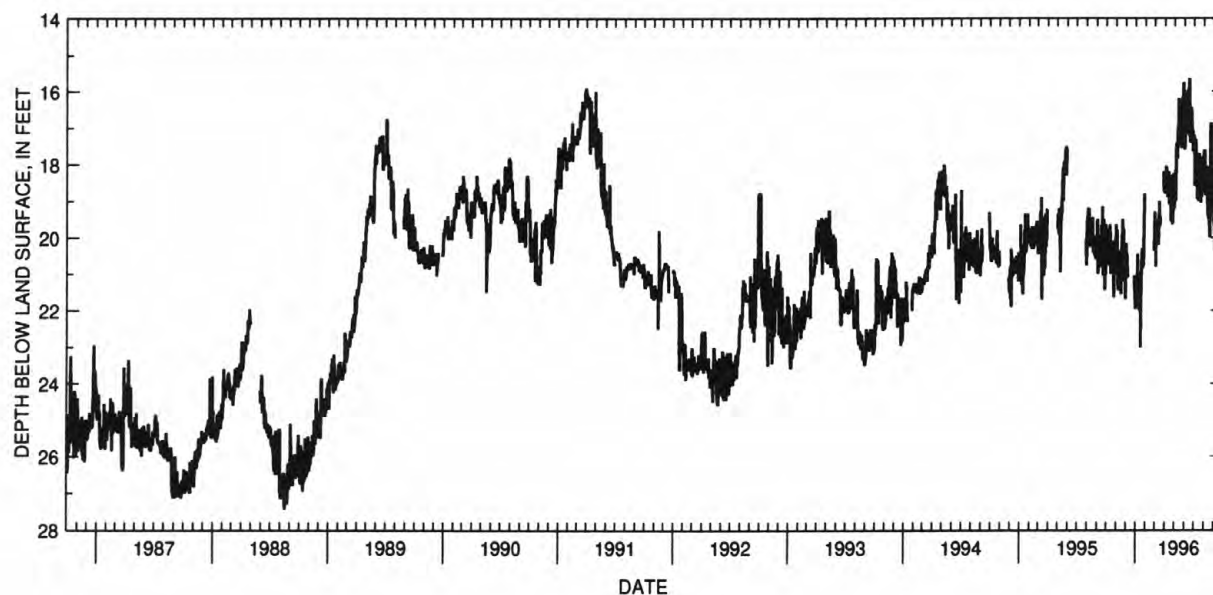
minimum daily low, 15.65 ft below land-surface datum, June 16, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.65	21.00	21.70	21.95	---	19.85	18.60	18.80	16.30	17.40	18.15	18.35
2	19.90	19.65	20.65	21.85	---	19.30	18.80	19.20	16.55	17.20	17.60	19.55
3	20.05	20.30	20.15	21.95	---	19.75	18.40	18.25	17.60	17.55	17.90	19.70
4	20.50	20.25	20.30	21.55	---	19.85	18.20	18.55	16.45	18.60	17.60	19.90
5	20.50	19.80	20.60	21.60	---	20.80	18.80	18.15	16.05	18.45	18.60	19.85
6	19.75	20.35	20.45	21.75	---	19.55	18.05	19.00	16.40	17.35	18.85	20.40
7	19.95	20.85	20.60	21.50	---	19.95	18.75	17.65	16.90	17.35	18.60	19.90
8	19.80	21.45	21.05	20.45	---	19.50	18.10	17.40	16.85	17.60	18.30	19.25
9	20.20	20.95	21.10	21.45	---	19.85	18.80	17.85	17.00	18.20	18.70	19.80
10	20.60	20.80	---	21.00	---	19.55	18.50	17.60	17.00	18.25	18.05	19.30
11	20.65	20.65	---	21.50	---	19.75	18.90	17.85	15.95	18.50	18.20	20.15
12	20.75	20.45	---	20.95	---	19.90	18.40	17.05	16.55	18.95	18.15	19.80
13	20.20	21.10	---	22.00	---	20.20	18.20	17.45	16.55	18.60	19.10	19.45
14	19.65	20.35	---	21.05	---	19.75	18.40	16.20	17.20	18.35	19.40	19.15
15	20.05	20.45	---	21.90	---	19.65	18.45	16.35	15.95	18.80	18.50	18.70
16	21.00	20.95	---	21.20	---	19.00	19.10	16.95	15.65	19.00	19.50	20.10
17	20.85	21.55	---	22.85	---	19.70	19.00	16.75	17.00	18.30	19.00	20.45
18	20.65	20.90	---	23.00	---	19.65	18.75	16.75	16.35	17.70	19.05	19.15
19	20.90	20.35	---	21.05	---	19.45	18.75	17.25	17.30	18.65	19.70	19.70
20	20.25	20.40	---	20.95	---	---	18.60	17.00	17.40	17.80	20.00	20.25
21	20.20	19.90	---	20.75	---	---	19.55	16.75	16.90	18.00	19.60	18.80
22	20.30	20.95	---	20.30	---	---	19.25	17.10	16.65	18.30	16.90	19.15
23	20.80	19.50	---	20.85	---	---	19.45	17.55	16.45	19.05	16.90	19.45
24	20.15	20.30	---	20.60	---	---	18.30	16.95	16.80	18.15	17.45	19.85
25	20.10	19.75	---	20.45	---	---	19.50	16.75	17.05	18.90	17.15	20.15
26	21.65	20.90	---	20.70	---	---	19.65	16.15	17.10	18.25	17.15	20.75
27	20.65	21.20	---	20.80	---	---	19.40	16.60	17.05	17.90	17.25	20.55
28	20.50	20.85	---	19.70	---	---	18.60	16.40	17.65	17.80	16.90	18.50
29	20.65	20.25	21.05	19.85	20.35	18.20	18.25	15.75	17.30	18.20	16.95	19.60
30	20.75	20.80	21.45	18.80	---	18.75	18.80	16.05	17.45	18.25	18.75	20.10
31	20.75	---	21.45	---	---	18.30	---	16.15	---	18.25	19.25	---
MAX	21.65	21.55	21.70	23.00	20.35	20.80	19.65	19.20	17.65	19.05	20.00	20.75

CAL YR 1995 LOW 21.70

WTR YR 1996 LOW 23.00



GROUND-WATER RECORDS

FAIRFIELD COUNTY--Continued

394544082271000. Local number, F-1.

LOCATION.--Lat 39°45'44", long 82°27'10", Hydrologic Unit 05030204, near the west edge of West Rushville.

Owner: State of Ohio.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 84 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above sea level, from topographic map.

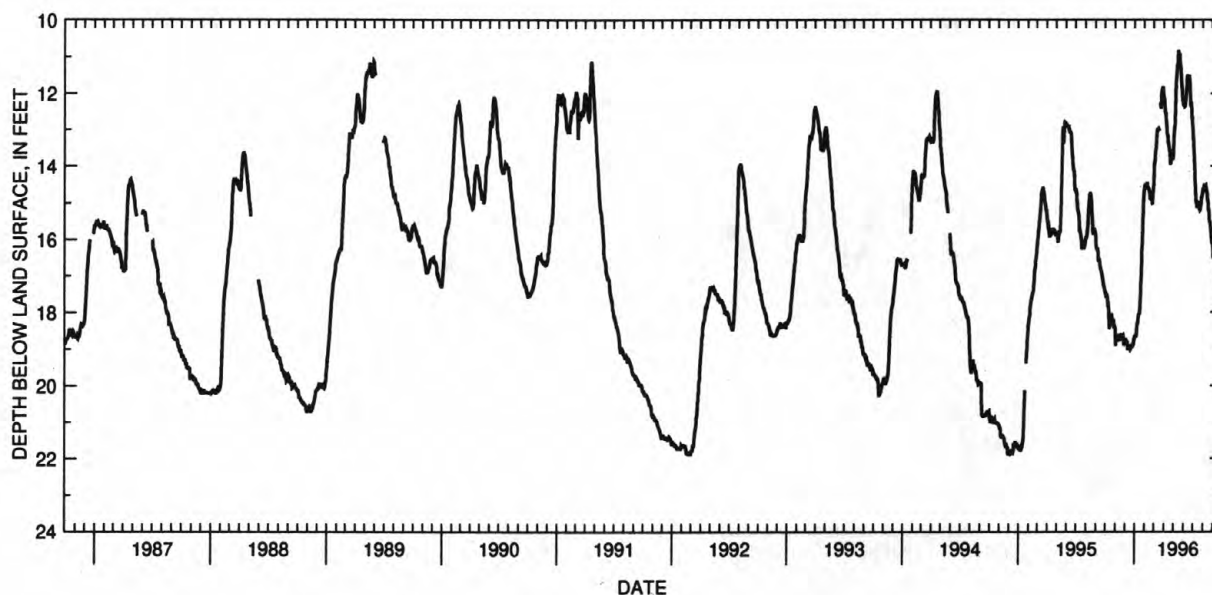
Measuring point: Floor of instrument shelter 8.02 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.89 ft below land-surface datum, Nov. 29, 1994;
minimum daily low, 7.27 ft below land-surface datum, May 5-6, 1962.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.43	18.41	18.74	18.70	14.65	14.48	12.10	13.59	12.32	13.21	14.62	16.15
2	17.48	18.45	18.81	18.68	14.55	14.03	12.17	13.20	12.32	13.21	14.62	16.49
3	17.48	18.93	18.81	18.63	14.49	13.91	12.17	13.06	12.17	13.50	14.66	16.49
4	17.58	18.85	18.76	18.66	14.60	13.91	12.34	12.96	12.15	13.57	14.66	16.44
5	17.58	18.65	18.76	18.66	14.60	13.73	12.55	12.93	12.36	13.84	14.48	16.45
6	17.49	18.64	18.82	18.70	14.57	13.58	12.56	12.80	12.35	14.05	14.63	16.45
7	17.57	18.65	18.82	18.60	14.53	13.53	12.56	12.43	12.25	14.34	14.63	16.52
8	17.59	18.65	18.81	18.47	14.53	13.52	12.69	11.99	12.18	14.45	14.53	16.60
9	17.60	18.65	18.83	18.31	14.44	13.24	12.82	11.75	12.10	14.74	14.53	16.60
10	17.82	18.65	18.83	18.36	14.55	13.19	12.93	11.60	11.95	14.95	14.52	16.61
11	17.82	18.62	19.00	18.30	14.60	13.06	13.07	11.50	11.80	14.95	14.63	16.65
12	17.81	18.77	19.00	18.23	14.60	13.00	13.14	11.34	11.62	15.00	14.63	16.65
13	17.98	18.77	18.94	18.13	14.59	13.00	13.17	11.20	11.52	15.12	14.71	16.75
14	18.45	18.77	18.97	18.05	14.62	12.98	13.34	11.32	11.52	15.10	14.73	16.80
15	18.43	18.75	18.97	18.07	14.65	12.97	13.36	11.15	11.60	15.04	14.88	16.90
16	18.15	18.75	18.97	18.03	14.66	13.02	13.44	10.82	11.60	14.95	14.93	16.94
17	18.37	18.72	18.97	18.02	14.73	13.00	13.47	10.89	11.56	15.02	14.98	16.97
18	18.35	18.68	18.96	17.92	14.85	12.98	13.56	11.08	11.53	15.02	15.18	17.07
19	18.15	18.70	18.89	17.71	14.84	12.97	13.56	11.07	11.53	15.04	15.19	17.22
20	18.14	18.68	19.00	17.50	14.85	---	13.65	10.99	11.55	15.12	15.28	17.22
21	18.04	18.62	18.99	17.22	14.90	12.34	13.92	10.98	11.73	15.11	15.48	17.89
22	18.11	18.60	18.93	17.02	14.90	12.24	13.97	11.27	11.99	15.10	15.52	17.63
23	18.15	18.70	18.97	16.61	14.90	12.42	13.85	11.27	12.33	15.19	15.52	17.45
24	18.25	18.70	18.94	16.30	14.89	12.22	13.77	11.32	12.33	15.18	15.53	17.39
25	18.25	18.68	18.88	16.10	15.01	12.05	13.77	11.58	12.27	15.07	15.72	17.37
26	18.23	18.68	18.97	15.73	15.00	11.90	13.76	11.70	12.28	15.06	15.71	17.37
27	18.23	18.66	18.92	15.44	14.77	11.90	13.78	11.86	12.67	14.93	15.92	17.40
28	18.23	18.75	18.89	15.30	14.66	11.87	13.80	11.92	12.67	14.80	16.03	17.32
29	18.40	18.91	18.86	14.99	14.58	11.81	13.83	12.10	12.82	14.84	16.09	17.38
30	18.42	18.85	18.78	14.80	---	11.90	13.72	12.22	12.95	14.76	16.09	17.43
31	18.42	---	18.75	14.65	---	12.00	---	12.22	---	14.74	16.10	---
MAX	18.45	18.93	19.00	18.70	15.01	14.48	13.97	13.59	12.95	15.19	16.10	17.89

CAL YR 1995 LOW 21.77
WTR YR 1996 LOW 19.00

GROUND-WATER RECORDS

215

FAIRFIELD COUNTY--Continued

395053082361900. Local number, F-5.

LOCATION.--Lat 39°50'53", long 82°36'19", Hydrologic Unit 05060001, Gaylord Paper Co., Baltimore.

Owner: Crown Zellerbach - Gaylord Paper Division.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 180 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 850 ft above sea level, from topographic map.

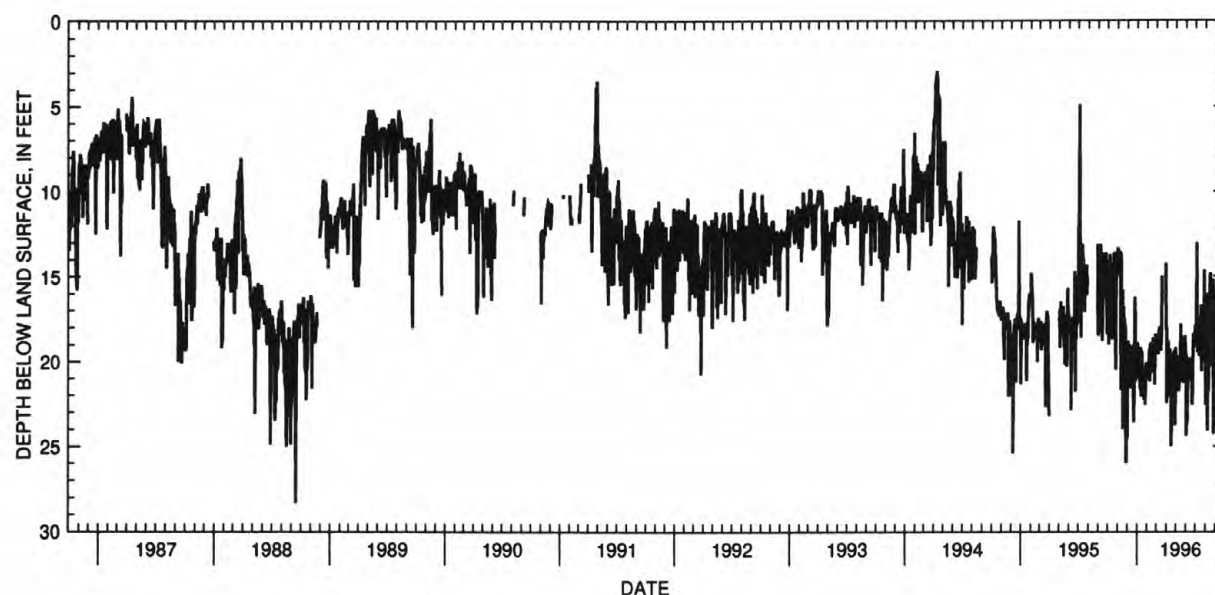
Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 34.50 ft below land-surface datum, Sept. 13, 1984;
minimum daily low, 0.98 ft above land-surface datum, Nov. 7, 1979.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.50	13.50	24.60	20.70	---	18.50	18.20	20.90	19.80	18.00	17.60	18.10
2	15.20	13.30	19.60	18.90	---	18.70	18.00	20.00	19.60	17.90	22.60	16.20
3	17.30	13.70	19.10	19.10	---	18.60	22.50	20.40	24.40	18.20	20.50	16.40
4	19.00	13.60	18.80	19.70	---	19.40	19.00	20.20	21.90	17.30	17.30	16.10
5	17.20	15.00	20.30	19.60	---	18.70	20.20	20.30	23.50	13.00	18.50	15.90
6	14.50	13.90	19.90	20.00	20.70	18.70	19.40	19.70	23.70	18.90	16.00	18.10
7	14.30	13.60	19.00	19.30	20.50	19.60	18.80	20.20	21.50	17.90	23.00	17.10
8	13.70	13.50	19.50	20.50	19.50	18.50	20.20	20.20	20.90	19.50	24.10	15.50
9	18.10	13.70	19.90	20.60	19.30	18.50	21.00	20.30	20.40	17.60	20.00	15.00
10	18.50	13.60	21.20	21.70	21.20	18.00	22.10	21.80	20.60	17.90	19.40	15.50
11	14.30	21.70	21.60	20.70	19.10	18.10	20.95	21.40	21.00	18.90	21.80	15.50
12	14.60	13.60	20.40	19.20	19.10	18.10	19.30	21.10	19.80	18.90	19.60	15.70
13	14.20	18.40	19.50	22.10	18.90	18.40	19.80	20.40	20.10	19.70	18.60	15.40
14	15.10	18.30	19.10	21.10	20.70	18.30	19.70	20.20	20.60	18.90	20.30	15.40
15	18.70	18.10	19.70	19.40	20.40	19.40	20.20	20.20	21.10	18.30	15.60	15.30
16	14.80	15.80	20.50	19.70	20.20	18.50	21.20	17.80	20.70	18.90	14.80	15.40
17	14.80	21.50	19.90	21.40	20.40	18.40	25.00	19.50	20.10	18.00	16.20	15.70
18	15.20	24.00	19.10	21.00	19.20	15.00	22.00	19.00	20.30	16.70	15.70	15.50
19	14.70	16.90	19.70	20.40	20.00	---	20.70	19.70	21.00	19.20	15.80	16.00
20	13.60	16.80	22.10	21.00	18.70	---	19.80	20.50	20.60	20.60	15.50	15.00
21	13.70	20.60	22.20	21.20	18.70	---	20.00	21.20	22.60	19.30	15.80	15.80
22	13.70	17.50	23.60	22.30	18.70	---	19.80	20.40	21.90	19.00	15.70	14.40
23	13.70	18.50	21.20	22.20	19.60	---	20.00	20.30	20.10	17.80	15.70	14.50
24	13.60	17.90	16.70	22.10	19.30	---	19.50	21.30	18.80	17.95	15.20	13.40
25	14.30	18.00	16.20	21.40	21.40	---	19.90	19.90	18.40	17.10	15.50	15.40
26	20.50	18.70	18.30	21.00	19.40	---	19.40	19.40	19.20	18.00	23.00	14.70
27	14.70	24.20	21.20	22.60	18.40	---	19.70	20.10	19.00	20.00	24.30	14.50
28	14.50	26.00	---	20.10	18.90	---	19.50	19.20	18.30	14.60	19.10	15.20
29	14.80	20.50	21.00	20.30	19.50	---	23.80	18.50	19.10	16.80	17.00	15.10
30	14.40	19.80	19.90	20.30	---	14.20	19.20	19.10	17.90	17.70	16.80	18.80
31	13.70	---	19.20	21.10	---	16.50	---	19.20	---	16.35	16.60	---
MAX	20.50	26.00	24.60	22.60	21.40	19.60	25.00	21.80	24.40	20.60	24.30	18.80

CAL YR 1995 LOW 26.00
WTR YR 1996 LOW 26.00

GROUND-WATER RECORDS

FAYETTE COUNTY

393153083322000. Local number, FA-1.

LOCATION.--Lat 39°31'53", long 83°32'20", Hydrologic Unit 05060003, Burnett-Perill Road about 6 mi west of Washington Court House.

Owner: Martha Slagle.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 5 in., depth 78 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1010 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

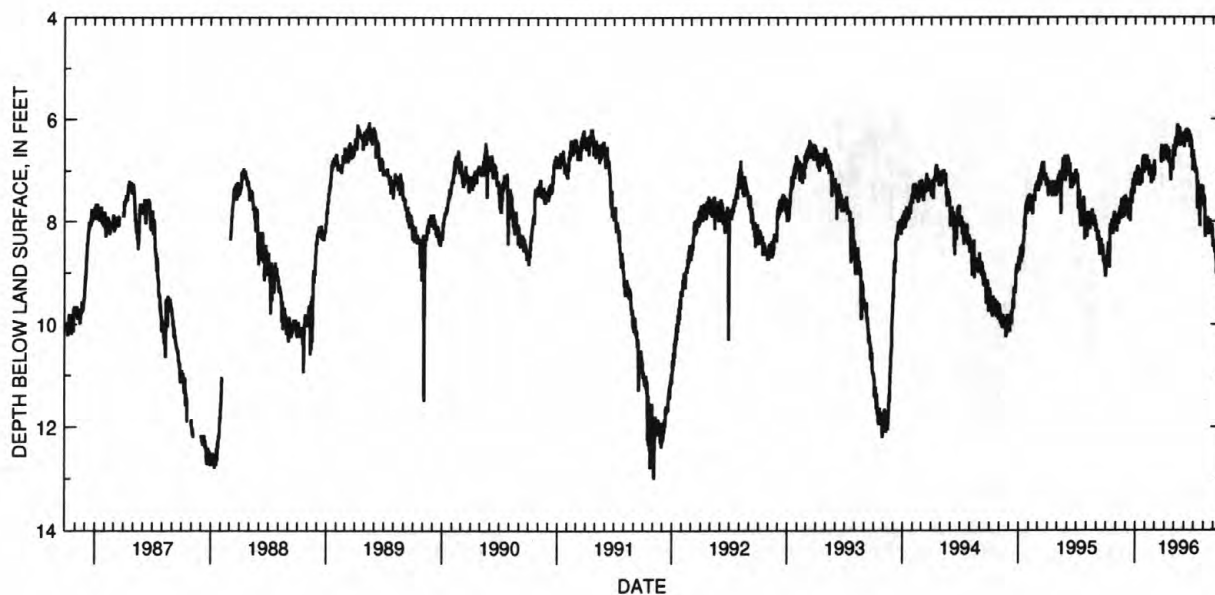
REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 13.45 ft below land-surface datum, Sep. 30 1982; minimum daily low, 3.26 ft below land-surface datum, Apr. 28, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.05	7.95	7.50	7.05	7.00	6.80	6.55	6.55	6.30	6.60	7.50	8.40
2	8.95	8.00	7.50	7.05	6.80	7.10	6.55	6.50	6.55	6.85	7.70	8.35
3	8.75	7.95	7.55	7.05	6.80	---	6.75	6.70	6.30	6.80	7.50	8.50
4	8.70	8.05	7.80	7.30	6.80	---	6.50	6.70	6.25	6.80	7.50	8.45
5	8.65	8.20	7.80	7.05	6.80	---	6.55	6.45	6.35	6.90	7.55	8.55
6	8.70	7.90	7.55	7.10	6.70	---	6.60	6.40	6.35	6.90	7.90	8.60
7	8.60	7.85	7.60	7.00	7.00	---	6.50	6.35	6.20	7.00	8.30	8.55
8	8.60	8.00	7.60	6.95	6.90	---	6.60	6.40	6.45	7.05	8.00	8.50
9	8.40	7.95	7.55	6.90	6.80	---	6.80	6.55	6.20	6.95	8.00	8.70
10	8.55	8.00	7.80	7.25	7.00	---	6.55	6.35	6.20	7.05	8.05	8.70
11	8.50	8.05	7.90	7.00	6.95	---	6.60	6.15	6.20	7.00	8.00	9.00
12	8.60	7.85	7.95	6.95	6.90	---	6.55	6.10	6.20	7.15	7.95	9.00
13	8.90	7.80	7.80	7.10	6.80	---	6.60	6.15	6.35	7.75	7.95	8.70
14	8.20	7.75	7.70	7.00	7.10	---	6.65	6.15	6.45	7.45	8.00	8.85
15	8.10	7.70	7.70	7.25	7.00	---	6.85	6.40	6.20	7.20	7.90	8.80
16	8.05	7.80	7.85	7.30	6.95	---	6.60	6.15	6.30	7.40	8.25	8.75
17	8.15	7.95	8.00	7.05	6.95	---	6.85	6.20	6.25	7.70	8.20	8.85
18	8.25	7.70	7.60	7.05	6.95	---	6.80	6.15	6.25	7.65	8.05	9.00
19	8.15	7.60	7.45	7.05	6.90	---	6.90	6.20	6.35	7.30	8.20	8.90
20	7.95	7.55	7.45	7.05	7.25	---	7.00	6.50	6.55	7.70	8.00	8.90
21	8.05	7.60	7.35	7.00	7.15	6.65	7.20	6.50	6.30	8.10	7.95	8.85
22	8.05	7.75	7.50	7.25	7.00	6.85	6.85	6.30	6.35	7.55	8.00	8.95
23	8.10	7.90	7.65	6.90	6.90	6.55	6.80	6.30	6.55	7.40	8.20	9.10
24	8.25	7.90	7.30	6.80	6.95	6.50	6.85	6.30	6.40	7.30	8.10	9.20
25	8.10	7.70	7.20	6.80	6.90	6.55	6.80	6.30	6.50	7.30	8.20	9.10
26	7.90	7.60	7.20	6.70	7.20	6.55	6.80	6.25	6.75	7.45	8.20	9.05
27	7.85	7.50	7.15	6.80	7.15	6.80	7.00	6.50	6.60	7.45	8.25	9.05
28	7.80	7.75	7.30	7.05	7.05	6.80	6.80	6.35	6.70	7.40	8.05	9.15
29	7.85	7.90	7.45	6.80	6.95	6.60	6.65	6.30	7.00	7.45	8.10	9.20
30	8.15	7.60	7.10	6.75	---	6.70	6.50	6.30	6.80	7.30	8.30	9.40
31	7.85	---	7.10	6.70	---	6.55	---	6.30	---	7.35	8.50	---
MAX	9.05	8.20	8.00	7.30	7.25	7.10	7.20	6.70	7.00	8.10	8.50	9.40
CAL YR 1995	LOW 9.05											
WTR YR 1996	LOW 9.40											



GROUND-WATER RECORDS

217

FRANKLIN COUNTY

394956083002700. Local number, FR-18.

LOCATION.--Lat 39°49'56", long 83°00'27", Hydrologic Unit 05060001, south of State Rt. 665 at Shadeville.

Owner: City of Columbus.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 86.4 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 690 ft above sea level, from topographic map.

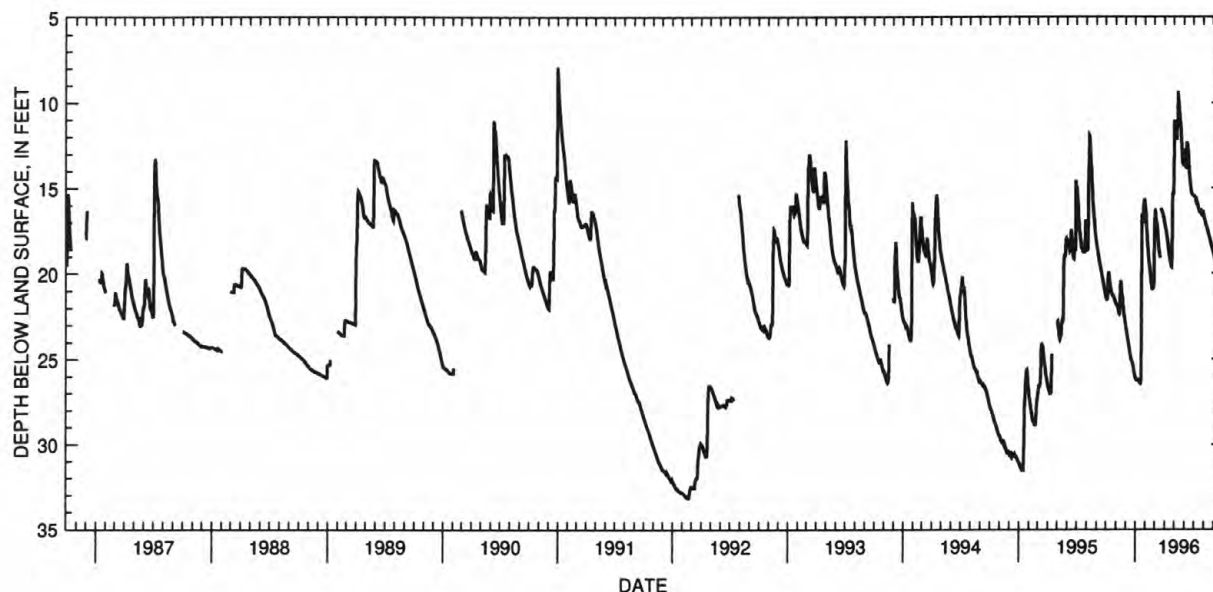
Measuring point: Floor of instrument shelter 3.80 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--November 22, 1985, to March 26, 1986, periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.15 ft below land-surface datum, Feb. 19-22, 1992;
minimum daily low, 7.91 ft below land-surface datum, Jan. 1, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.39	21.75	23.01	26.13	16.18	16.85	17.08	11.10	12.94	15.46	16.64	18.87
2	21.47	21.76	23.15	26.15	16.35	16.45	17.17	11.05	13.25	15.49	16.72	18.97
3	21.51	21.79	23.26	26.20	16.65	16.24	17.27	11.36	13.52	15.51	16.80	19.04
4	21.51	21.85	23.38	26.23	17.06	16.59	17.37	11.65	13.59	15.54	16.88	19.11
5	21.41	21.89	23.47	26.23	17.41	16.94	17.48	11.76	13.68	15.57	16.92	19.19
6	21.28	21.92	23.59	26.21	17.76	17.13	17.58	11.90	13.79	15.61	17.06	19.26
7	20.41	21.95	23.71	26.20	18.08	17.16	17.70	12.02	13.80	15.65	17.14	19.33
8	20.11	22.04	23.84	26.19	18.37	17.14	17.82	12.10	13.74	15.79	17.20	19.41
9	19.93	22.17	23.96	26.20	18.66	17.28	17.96	12.10	12.34	15.74	17.21	19.48
10	20.05	22.29	24.07	26.25	18.92	17.57	18.11	11.17	12.39	15.80	17.28	19.55
11	20.24	22.33	24.20	26.28	19.12	17.87	18.25	11.32	12.47	15.86	17.36	19.67
12	20.44	22.29	24.34	26.31	19.36	18.13	18.41	11.15	12.64	15.93	17.43	19.70
13	20.59	21.80	24.49	26.33	19.48	18.37	18.58	9.37	12.73	15.99	17.50	19.77
14	20.70	21.11	24.56	26.34	19.61	18.59	18.74	9.75	13.09	16.08	17.57	19.84
15	20.81	20.69	24.68	26.39	19.78	18.72	18.89	10.07	13.43	16.16	17.64	19.92
16	20.93	20.42	24.81	26.43	19.99	18.84	19.02	10.21	13.76	16.24	17.72	19.99
17	21.05	20.58	24.94	26.45	20.17	18.94	19.14	10.48	14.10	16.33	17.79	19.99
18	21.12	20.84	25.02	26.44	20.38	19.08	19.25	10.78	14.34	16.39	17.86	20.04
19	21.18	21.16	25.01	24.55	20.58	---	19.35	10.95	14.50	16.42	17.93	20.11
20	21.22	21.27	25.06	18.33	20.66	16.21	19.46	11.13	14.73	16.44	18.01	20.18
21	21.26	21.35	25.11	16.50	20.81	16.27	19.55	11.32	14.93	16.45	18.09	20.23
22	21.30	21.54	25.17	16.90	20.90	16.32	19.62	11.60	15.09	16.45	18.16	20.23
23	21.32	21.78	25.24	17.08	20.90	16.35	19.64	12.00	15.18	16.43	18.24	20.27
24	21.32	22.03	25.34	17.02	20.86	16.39	18.30	12.46	15.27	16.46	18.31	20.33
25	21.38	22.22	25.45	16.42	20.84	16.44	16.10	12.91	15.37	16.39	18.37	20.38
26	21.43	22.37	25.57	16.05	20.80	16.52	15.35	13.28	15.38	16.43	18.46	20.42
27	21.47	22.49	25.69	15.91	20.77	16.58	15.30	13.54	15.39	16.48	18.53	20.44
28	21.52	22.63	25.82	15.76	19.76	16.65	15.37	13.64	15.41	16.54	18.60	20.44
29	21.60	22.76	25.92	15.66	17.53	16.70	15.37	13.66	15.42	16.59	18.68	20.19
30	21.68	22.89	26.00	15.79	---	16.87	13.60	13.23	15.43	16.63	18.73	20.20
31	21.72	---	26.07	15.99	---	17.00	---	12.71	---	16.58	18.81	---
MAX	21.72	22.89	26.07	26.45	20.90	19.08	19.64	13.66	15.43	16.63	18.81	20.44

CAL YR 1995 LOW 31.49
WTR YR 1996 LOW 26.45

GROUND-WATER RECORDS

FRANKLIN COUNTY--Continued

395118082573300. Local number, FR-3.

LOCATION.--Lat 39°51'14", long 82°57'32", Hydrologic Unit 05060001, 0.7 mi southwest of Rees.

Owner: R. Hann.

AQUIFER.--Sand and gravel of Pleistocene Age.

CHARACTERISTICS.--Drilled test water table well, diameter 12 in., depth drilled 60 ft, present depth 53 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 712.94 ft above sea level.

Measuring point: Floor of instrument shelter 3.43 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

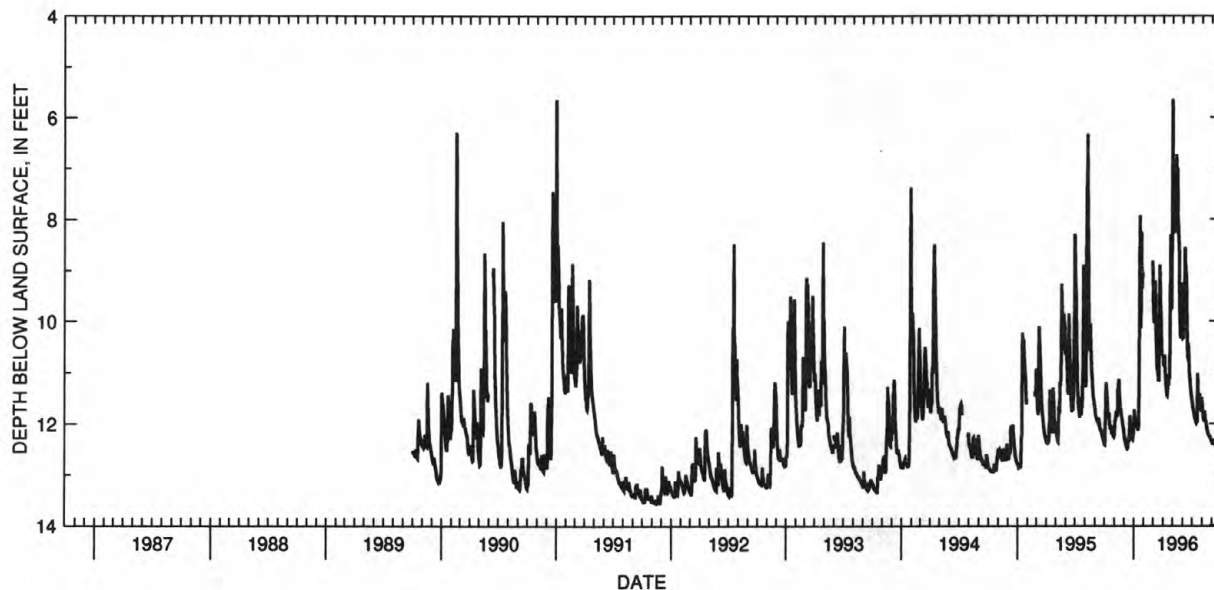
PERIOD OF RECORD.--April 1946 to September 1982 continuous, periodic October 1982 to September 1989, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.75 ft below land-surface datum, July 7, 1966;
minimum daily low, 0.0 ft below land-surface datum, Jan. 22, 1959.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.39	12.24	12.12	12.20	---	9.09	---	6.00	10.10	11.53	11.49	12.35
2	12.41	12.21	12.19	12.05	---	9.49	---	7.96	10.28	11.57	11.60	12.37
3	12.42	11.99	12.26	11.73	---	9.76	10.68	8.17	10.33	11.63	11.70	12.39
4	12.12	11.95	12.29	11.78	---	9.94	10.85	8.28	10.32	11.67	11.76	12.39
5	11.85	11.91	12.32	11.85	---	10.02	10.85	7.96	9.45	11.71	11.83	12.39
6	11.40	11.87	12.36	11.89	---	10.03	10.66	7.71	9.64	11.74	11.88	12.37
7	11.20	11.84	12.38	11.89	---	9.23	10.73	8.04	9.65	11.77	11.92	12.38
8	11.29	11.75	12.41	11.92	---	9.21	10.87	8.27	9.05	11.81	11.95	12.30
9	11.37	11.81	12.43	11.92	---	9.72	11.00	7.20	8.55	11.86	11.92	12.33
10	11.42	11.83	12.47	11.99	---	10.07	11.11	7.15	8.90	11.88	11.75	12.35
11	11.58	11.87	12.48	12.00	---	10.29	11.20	7.46	8.95	11.90	11.85	12.33
12	11.73	11.83	12.48	12.01	---	10.50	11.28	6.74	9.07	11.92	11.92	12.37
13	11.84	11.30	12.49	12.05	---	10.72	11.38	6.90	9.08	11.94	11.94	12.40
14	11.90	11.38	12.48	12.11	---	10.88	11.44	7.76	9.42	11.97	11.97	12.43
15	11.88	11.22	12.34	12.13	---	10.97	11.45	7.82	9.85	11.98	12.00	12.46
16	11.78	11.13	12.26	12.10	---	10.95	11.33	7.00	10.23	11.96	12.04	12.47
17	11.88	11.25	12.33	12.04	---	11.01	11.04	7.97	10.52	11.96	12.08	12.45
18	11.98	11.40	12.35	11.60	---	11.12	11.15	8.07	10.69	11.97	12.12	12.07
19	12.06	11.56	12.31	10.25	---	11.18	11.26	8.15	10.75	11.02	12.15	12.18
20	12.11	11.64	11.90	7.93	---	11.16	11.10	8.34	10.43	11.29	12.18	12.27
21	12.10	11.69	11.84	9.16	---	10.05	11.05	8.49	10.62	11.48	12.20	12.33
22	12.03	11.75	11.97	9.83	---	8.90	11.10	8.69	10.82	11.52	12.21	12.33
23	12.06	11.77	12.04	10.14	---	9.16	11.10	9.54	10.98	11.41	12.23	12.23
24	12.13	11.84	12.11	9.98	---	9.49	9.45	9.91	11.10	11.55	12.24	12.32
25	12.21	11.87	12.16	8.26	---	9.62	8.30	10.13	11.14	11.57	12.25	12.37
26	12.19	11.91	12.22	9.19	---	9.89	9.25	10.27	11.24	11.43	12.25	12.40
27	12.19	11.95	12.28	9.36	---	10.16	9.58	10.33	11.30	11.59	12.26	12.42
28	12.19	12.03	12.29	9.11	---	10.22	9.75	10.15	11.39	11.68	12.29	12.42
29	12.22	12.05	12.30	9.04	8.82	10.67	9.74	10.14	11.43	11.74	12.30	11.11
30	12.21	12.08	12.26	9.13	---	---	5.65	9.25	11.48	11.74	12.31	11.47
31	12.23	---	12.23	---	---	---	---	9.55	---	11.50	12.33	---
MAX	12.42	12.24	12.49	12.20	8.82	11.18	11.45	10.33	11.48	11.98	12.33	12.47

CAL YR 1995 LOW 12.87

WTR YR 1996 LOW 12.49



GROUND-WATER RECORDS

219

FRANKLIN COUNTY--Continued

400101083021800. Local number, FR-10.

LOCATION.--Lat 40°01'01", long 83°02'18", Hydrologic Unit 05060001, Kenny and Ackerman Roads, Columbus.

Owner: Ohio State University.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 4 in., depth 75 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 775 ft above sea level, from topographic map.

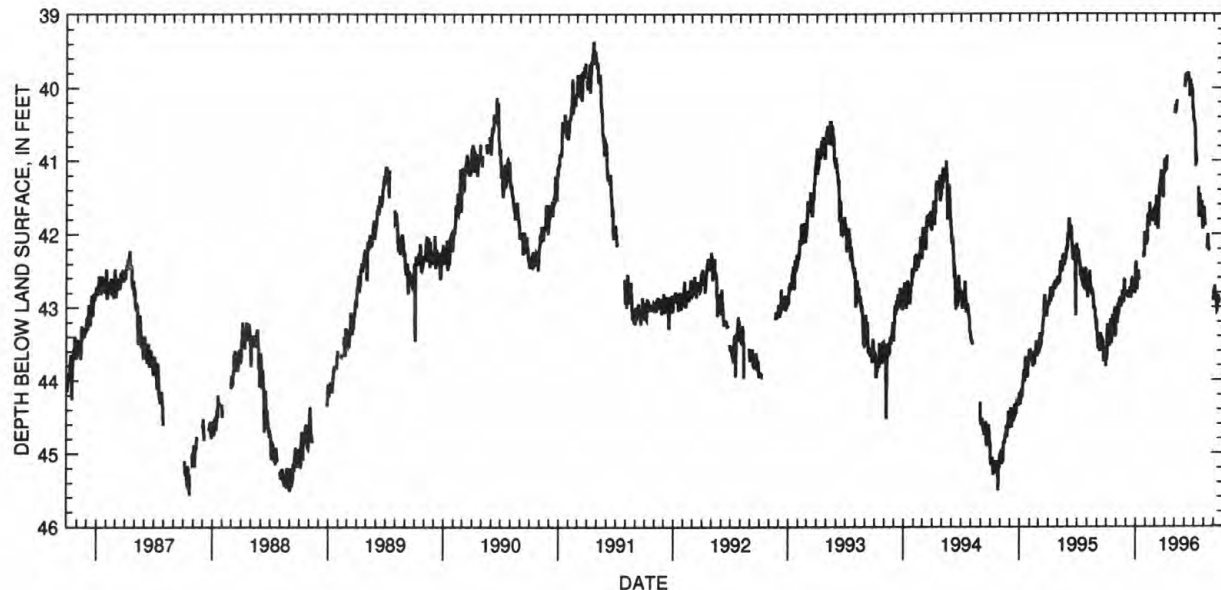
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 48.20 ft below land-surface datum, Oct. 7, 1954;
minimum daily low, 37.76 ft below land-surface datum, Apr. 13, 1951.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	43.19	42.78	42.43	42.05	41.70	41.14	---	39.98	40.47	41.63	42.76
2	43.73	43.00	42.85	42.37	42.07	41.61	41.15	40.35	39.93	40.45	41.70	42.85
3	43.69	43.15	42.77	42.42	42.11	41.87	41.01	40.23	39.89	40.50	41.85	42.85
4	43.44	43.20	42.83	42.59	42.15	41.89	41.02	40.30	39.81	40.55	41.88	42.70
5	43.25	43.20	42.78	42.72	42.10	41.48	41.13	40.31	39.92	40.80	41.89	42.80
6	43.25	43.15	42.84	42.76	42.08	41.55	41.05	40.30	39.91	41.08	---	42.90
7	43.37	42.95	42.85	42.62	41.98	41.64	40.93	40.23	39.83	40.88	---	42.80
8	43.42	42.98	42.85	42.55	41.75	41.64	---	40.17	39.81	41.04	---	42.85
9	43.42	43.11	42.86	42.50	41.75	41.81	---	---	39.81	---	---	42.90
10	43.54	43.05	42.86	42.51	41.75	41.92	---	---	39.80	---	42.20	42.98
11	43.50	42.88	42.86	42.63	41.72	41.92	---	---	39.80	---	42.16	43.05
12	43.50	42.97	42.86	---	41.88	41.72	---	---	39.79	---	42.16	43.04
13	43.40	42.96	42.87	---	41.88	41.55	---	---	39.83	---	42.00	42.87
14	43.30	42.89	42.73	---	41.58	41.45	---	---	39.88	---	42.19	42.84
15	43.16	42.86	42.75	---	41.73	41.33	---	---	39.88	41.36	42.13	42.86
16	43.36	42.89	42.78	---	41.81	41.38	---	---	39.93	41.74	42.23	42.90
17	43.50	43.00	42.88	---	41.81	41.28	---	---	40.12	41.77	---	42.95
18	43.45	42.95	42.84	---	41.81	41.30	---	---	39.93	41.49	---	42.88
19	43.41	42.96	42.64	---	41.75	41.20	---	---	39.88	41.45	---	---
20	43.33	42.91	42.63	---	41.74	41.13	---	---	39.92	41.75	---	---
21	43.10	42.77	42.64	---	41.79	41.17	---	---	40.02	41.63	---	---
22	43.25	42.85	42.67	---	41.79	41.27	---	---	39.95	41.55	---	---
23	43.35	42.82	42.69	---	41.73	41.31	---	---	40.03	41.63	---	42.90
24	43.28	42.93	42.66	---	41.80	41.30	---	---	40.00	41.68	---	---
25	43.33	42.92	42.63	42.32	41.83	41.41	---	---	40.07	41.55	---	---
26	43.23	42.81	42.61	42.23	41.72	41.50	---	---	40.28	41.70	---	---
27	43.08	42.61	42.68	42.28	41.65	41.49	---	---	40.27	41.85	---	---
28	43.00	42.82	42.78	42.28	41.81	41.14	---	---	40.33	41.94	---	---
29	43.26	42.82	42.81	41.97	41.83	41.18	---	---	40.40	41.85	---	---
30	43.41	42.82	42.78	42.07	---	41.10	---	---	40.43	41.80	42.91	42.95
31	43.36	---	42.64	42.05	---	40.99	---	39.99	---	41.73	42.84	---
MAX	43.73	43.20	42.88	42.76	42.15	41.92	41.15	40.35	40.43	41.94	42.91	43.05

CAL YR 1995 LOW 44.33
WTR YR 1996 LOW 43.73

GROUND-WATER RECORDS

GALLIA COUNTY

383638082103300. Local number, G-2.

LOCATION.--Lat 38°36'38", long 82°10'33", Hydrologic Unit 05090101, 5.9 mi east of Crown City.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water-table well, diameter 12 in., depth 65 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 552 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1975 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.94 ft below land-surface datum, Oct. 4, 1982;
minimum daily low 16.43 ft below land-surface datum, Mar. 8, 1979.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 23, 1995	33.29
Apr. 1, 1996	24.05
July 26, 1996	27.79

GROUND-WATER RECORDS

221

GREENE COUNTY

394411083561300. Local number, GR-1.

LOCATION.--Lat 39°44'11", long 83°56'13", Hydrologic Unit 05090202, along Massies Creek near U.S. 68 north of Xenia.

Owner: Xenia Water Department.

AQUIFER.--Sand and Gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 30 in., depth 77 ft, cased.

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

DATUM.--Elevation of land-surface datum is 818.88 ft above sea level.

Measuring point: Floor of instrument shelter 4.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

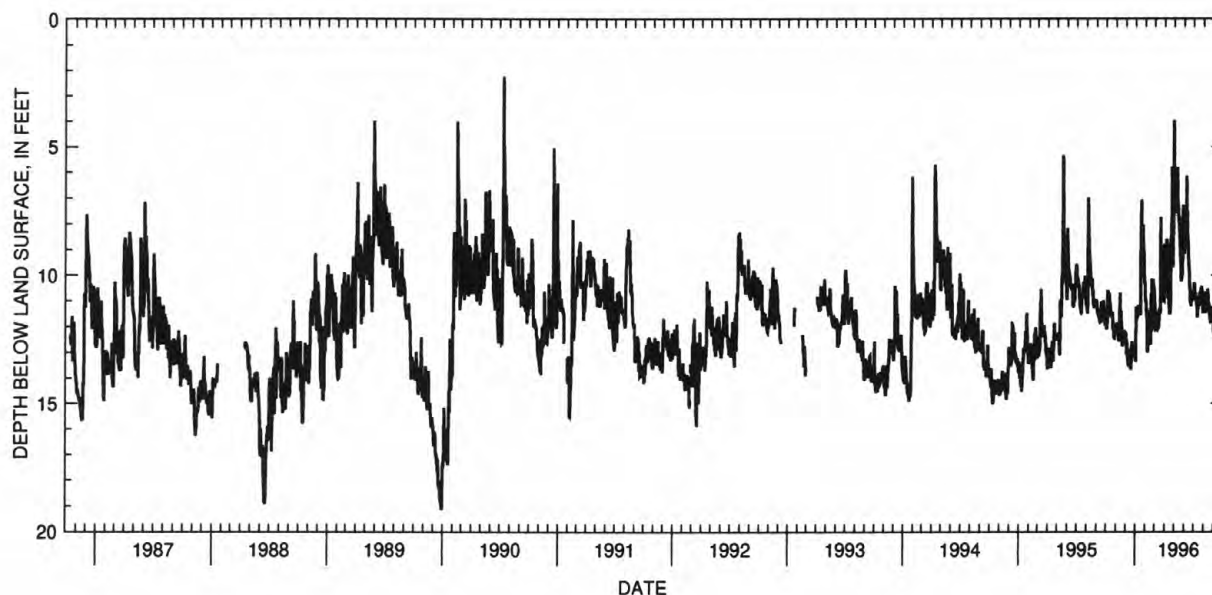
PERIOD OF RECORD.--August 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.60 ft below land-surface datum, July 7, 1966;

minimum daily low, 0.70 ft above land-surface datum, Aug. 3, 1958.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.87	12.00	12.55	12.98	10.84	10.81	8.79	4.63	8.60	10.67	10.66	12.08
2	12.03	11.94	12.22	13.37	11.01	11.48	9.22	7.37	9.17	10.61	10.84	12.16
3	12.11	11.88	12.42	11.24	11.05	11.43	9.54	7.59	8.29	10.30	10.67	12.41
4	11.85	11.93	13.08	11.45	11.29	12.11	9.52	7.20	8.05	10.57	10.77	12.05
5	11.84	11.95	12.59	11.58	11.57	12.09	9.66	6.89	8.47	10.76	11.06	12.29
6	10.59	12.27	12.83	11.60	11.71	12.10	9.77	6.98	8.72	10.99	11.19	12.34
7	10.69	12.28	13.00	11.54	12.87	11.44	10.18	7.30	8.18	10.81	11.41	12.24
8	10.75	12.13	13.33	11.61	13.02	11.83	8.59	6.94	7.06	10.92	11.42	12.23
9	10.74	12.35	13.49	11.29	11.40	12.02	8.73	6.29	6.14	10.93	11.37	12.03
10	10.83	12.58	13.27	11.18	11.70	12.05	9.33	7.53	7.81	11.07	11.02	11.94
11	10.70	12.50	13.55	11.33	11.92	12.00	10.50	5.82	7.52	11.15	11.09	11.93
12	10.87	12.02	13.20	11.32	12.36	11.78	10.82	6.81	8.38	11.65	11.09	11.85
13	11.17	11.28	12.90	11.50	12.68	11.97	10.61	7.43	8.67	11.28	10.52	11.87
14	11.15	10.68	13.07	11.48	12.36	11.98	10.79	7.39	9.03	11.33	10.89	11.44
15	11.24	11.57	13.42	11.26	12.14	11.63	11.23	7.96	9.32	11.27	10.66	11.78
16	11.52	11.42	13.53	11.55	12.66	11.39	11.47	7.70	9.64	10.99	11.17	12.22
17	11.60	11.39	13.63	11.48	12.66	11.40	11.53	7.99	9.70	11.22	11.07	12.27
18	11.57	11.83	13.63	9.15	12.69	11.38	11.45	8.46	10.36	11.10	11.13	11.81
19	11.56	12.05	13.27	7.49	10.71	11.47	11.18	8.69	10.51	10.88	11.46	12.28
20	11.49	12.45	13.03	7.08	12.20	7.75	10.35	8.91	10.95	10.78	11.65	11.77
21	11.44	12.77	12.59	8.14	10.14	9.41	8.55	9.41	11.04	10.67	11.65	12.13
22	11.84	12.61	12.71	9.05	11.23	10.02	8.53	9.57	11.13	10.65	11.80	11.83
23	12.13	12.32	12.79	9.24	11.99	10.24	8.55	10.25	11.21	10.90	11.86	12.18
24	12.05	12.61	13.01	8.14	11.47	9.74	5.79	10.14	10.62	10.62	11.66	12.08
25	12.16	12.54	13.09	8.04	12.05	9.89	8.58	9.52	10.75	10.42	11.53	12.02
26	12.44	12.15	13.07	8.97	10.17	10.61	9.34	10.03	10.75	10.60	11.34	12.00
27	12.45	12.24	13.02	9.16	11.67	10.70	9.35	9.30	10.93	10.65	11.34	11.96
28	12.04	12.40	12.83	9.06	10.41	10.95	9.69	9.41	10.84	10.67	11.38	11.74
29	12.06	12.18	12.99	9.99	10.73	10.99	6.63	7.26	10.73	11.43	11.38	11.55
30	12.14	12.60	13.07	10.31	---	11.00	3.96	7.83	10.67	11.46	11.80	11.94
31	11.93	---	13.02	10.28	---	10.58	---	8.69	---	10.89	11.80	---
MAX	12.45	12.77	13.63	13.37	13.02	12.11	11.53	10.25	11.21	11.65	11.86	12.41

CAL YR 1995 LOW 14.54
WTR YR 1996 LOW 13.63

GROUND-WATER RECORDS

GREENE COUNTY--Continued

394425083551100. Local number, GR-10.

LOCATION.--Lat 39°44'25", long 83°55'11", Hydrologic Unit 05090202, in well field along Massies Creek north of Xenia.

Owner: Xenia Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 100 ft, cased.

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

DATUM.--Elevation of land-surface datum is 835 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter at land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

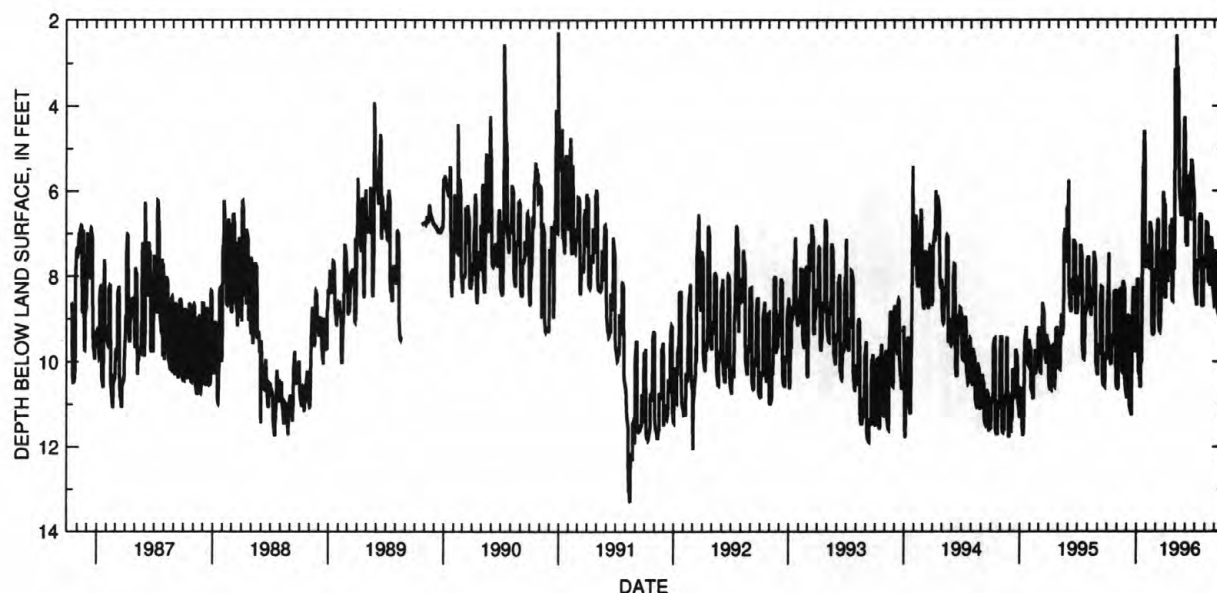
PERIOD OF RECORD.--March 1976 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.40 ft below land-surface datum, Nov. 5, 1977;

minimum daily low, 0.15 ft below land-surface datum, Feb. 1, 1982.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.94	10.62	10.83	8.61	7.26	7.97	8.49	3.95	5.13	8.28	7.65	8.65
2	8.72	10.63	10.83	8.50	7.37	8.08	7.83	4.57	7.18	8.41	7.76	7.39
3	8.60	10.61	10.85	8.19	7.38	8.08	7.81	4.99	7.20	8.47	7.78	7.43
4	8.38	10.57	10.17	8.08	7.42	6.98	7.94	3.89	7.15	8.51	7.80	7.97
5	8.33	10.58	8.96	8.08	7.54	6.95	7.95	2.34	7.09	8.53	6.76	7.44
6	7.75	9.77	8.94	8.08	7.59	6.92	8.07	2.82	7.27	8.65	6.77	7.51
7	7.46	8.48	8.93	10.18	7.62	6.65	8.08	3.44	7.27	8.65	6.79	7.52
8	9.69	8.44	8.94	10.26	7.48	6.71	7.41	3.36	6.27	7.63	6.76	8.69
9	9.78	8.35	8.98	10.21	7.68	6.80	7.55	3.07	6.28	7.65	6.77	8.75
10	9.90	8.32	10.95	10.31	7.80	8.97	7.68	3.59	5.64	7.72	6.82	8.80
11	9.93	8.31	11.07	10.28	7.81	9.08	7.79	3.62	5.94	7.69	7.90	8.82
12	9.98	9.93	11.08	10.55	6.73	9.23	7.93	5.09	6.16	7.81	8.06	8.84
13	10.05	9.98	11.14	10.61	6.76	9.27	7.97	5.78	6.37	7.80	8.13	8.87
14	10.05	10.05	11.15	10.58	6.82	9.28	7.98	6.15	6.47	7.82	8.13	8.95
15	10.07	10.07	11.17	9.79	6.88	9.17	6.84	6.16	6.63	6.74	8.14	8.09
16	9.38	10.14	11.22	10.03	6.97	9.17	6.81	6.16	6.64	6.63	8.17	7.80
17	9.40	10.18	11.26	10.01	6.98	8.78	6.84	6.36	5.63	6.62	8.21	7.91
18	9.47	10.24	9.30	9.21	9.08	8.41	6.80	6.54	5.64	6.55	8.22	7.71
19	9.48	10.25	9.12	7.87	9.29	8.41	6.86	6.58	6.19	6.55	7.13	7.67
20	9.55	8.18	8.74	6.01	9.38	7.44	6.65	6.07	5.27	6.58	7.14	7.71
21	9.56	8.11	8.47	6.11	9.36	7.41	8.52	6.27	5.29	6.55	7.16	7.77
22	9.57	8.16	8.32	5.38	9.36	7.35	8.57	6.41	5.37	8.64	7.09	8.84
23	8.39	8.17	8.25	5.36	9.34	7.37	8.58	6.54	5.37	8.69	7.17	8.88
24	8.36	8.26	9.40	4.84	9.31	7.38	7.41	6.56	5.58	8.69	7.14	8.97
25	8.36	8.28	9.49	4.58	9.33	6.02	7.36	6.57	5.74	8.60	8.16	8.96
26	8.33	10.38	9.55	4.97	8.56	6.69	7.64	6.58	5.85	8.65	8.28	8.96
27	9.34	10.55	9.75	5.08	8.25	6.19	7.83	5.32	5.97	8.71	8.35	8.90
28	8.31	10.62	9.72	7.37	7.84	6.31	7.85	4.80	6.07	7.75	8.42	8.61
29	10.41	10.67	9.76	7.60	7.87	6.38	6.39	4.44	6.16	7.74	8.49	8.55
30	10.56	10.72	9.76	7.78	---	6.37	3.13	4.26	8.17	7.52	8.55	7.44
31	10.57	---	9.76	7.80	---	8.49	---	4.85	---	7.56	8.66	---
MAX	10.57	10.72	11.26	10.61	9.38	9.28	8.58	6.58	8.17	8.71	8.66	8.97

CAL YR 1995 LOW 11.74
WTR YR 1996 LOW 11.26

GROUND-WATER RECORDS

223

HAMILTON COUNTY

391039084291500. Local number, H-11.

LOCATION.--Lat 39°10'39", long 84°29'15", Hydrologic Unit 05090203, 5.6 mi north of Riverfront Stadium in Cincinnati.

Owner: Procter and Gamble Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 148 ft, cased.

INSTRUMENTATION.--Biyearly measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 539 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 2.23 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1939 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 129.72 ft below land-surface datum, Oct 25, 1948;

minimum measured low, 50.39 ft below land-surface datum, Mar. 27, 1996.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24, 1995	51.31	Mar. 27, 1996	50.39

GROUND-WATER RECORDS

HAMILTON COUNTY-Continued

391101084172100. Local number, H-3.

LOCATION.--Lat 39°11'01", long 84°17'21", Hydrologic Unit 05090202, southeast of Miamiville.

Owner: Indian Hills Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 4 in., depth 60 ft, cased.

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

DATUM.--Elevation of land-surface datum is 532.22 ft above sea level.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

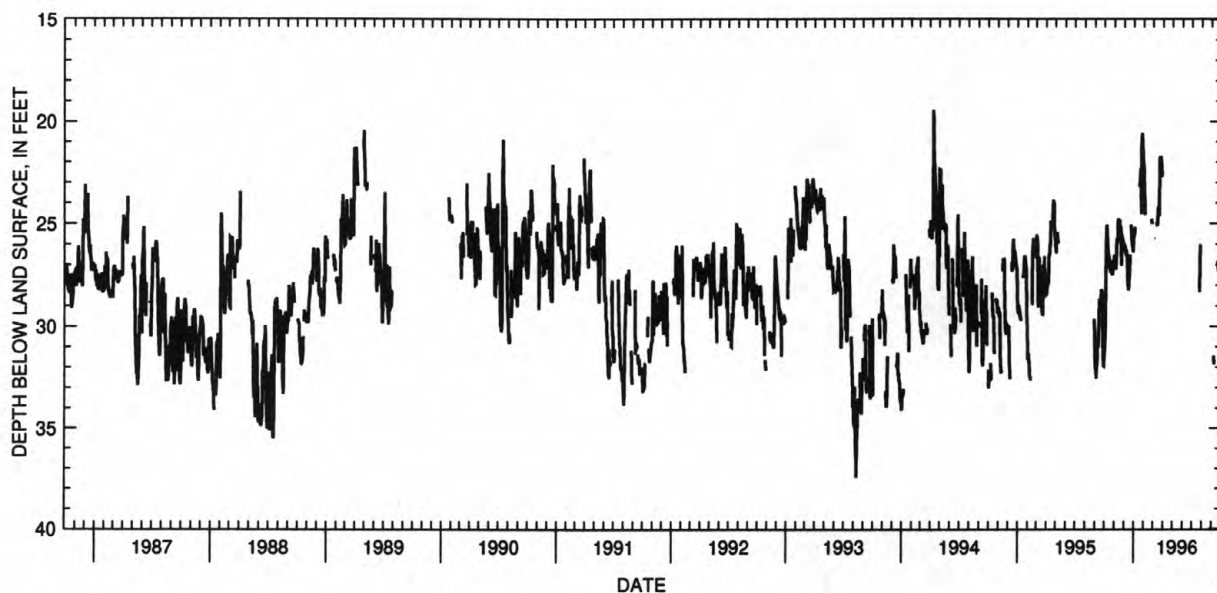
PERIOD OF RECORD.--August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.43 ft below land-surface datum, Aug. 11, 1993;
minimum daily low, 15.60 ft below land-surface datum, Feb. 28, 1962.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31.39	26.58	26.11	25.52	22.64	---	---	---	---	---	---	---
2	30.83	26.54	26.08	25.60	23.45	---	---	---	---	---	---	---
3	30.67	26.62	26.04	25.17	24.01	---	---	---	---	---	---	---
4	29.69	26.65	26.28	---	24.57	---	---	---	---	---	---	---
5	27.74	26.81	26.26	---	---	25.72	---	---	---	---	---	---
6	26.45	27.23	26.41	---	---	25.72	---	---	---	---	---	---
7	25.19	26.30	26.50	---	---	---	---	---	---	---	---	31.44
8	25.07	25.71	26.49	---	---	---	---	---	---	---	---	31.86
9	25.50	25.75	26.47	---	---	---	---	---	---	---	---	---
10	25.83	25.81	26.57	---	---	---	---	---	---	---	---	---
11	26.14	25.68	26.66	---	---	24.93	---	---	---	---	---	---
12	26.40	24.96	27.72	---	---	25.03	---	---	---	---	---	---
13	26.60	24.76	27.86	---	---	25.11	---	---	---	---	---	---
14	26.69	---	28.17	---	---	24.94	---	---	---	---	---	---
15	26.58	24.83	28.21	---	---	24.35	---	---	---	---	---	---
16	27.00	24.97	27.92	---	---	24.28	---	---	---	---	---	---
17	27.12	24.95	27.43	---	---	24.15	---	---	---	---	---	---
18	27.20	25.22	27.47	23.21	---	24.56	---	---	---	---	---	---
19	27.28	25.12	26.52	23.04	---	24.62	---	---	---	---	---	26.82
20	27.26	25.21	---	22.34	---	21.88	---	---	---	---	---	26.99
21	27.05	25.25	---	22.65	---	21.75	---	---	---	---	---	27.33
22	26.81	27.04	25.06	22.99	---	21.90	---	---	---	---	---	27.06
23	27.30	25.46	25.20	24.54	---	21.88	---	---	---	---	---	26.78
24	27.38	25.68	25.58	21.24	24.78	22.40	---	---	---	28.31	---	26.88
25	27.50	25.72	25.88	20.58	24.90	21.73	---	---	---	26.84	---	26.97
26	27.34	25.76	25.91	21.18	25.01	22.21	---	---	---	26.03	---	27.00
27	27.19	25.84	26.08	21.22	---	22.63	---	---	---	---	---	26.99
28	26.89	25.92	26.19	21.50	---	22.72	---	---	---	---	---	26.26
29	26.83	25.99	26.40	21.81	---	---	---	---	---	---	---	26.05
30	26.84	26.00	25.80	22.00	---	---	---	---	---	---	---	26.69
31	26.66	---	25.61	22.45	---	---	---	---	---	---	---	---
MAX	31.39	27.23	28.21	25.60	25.01	25.72	---	---	---	28.31	---	31.86

CAL YR 1995 LOW 32.64

WTR YR 1996 LOW 31.86



GROUND-WATER RECORDS

225

HAMILTON COUNTY-Continued

391201084281600. Local number, H-10.

LOCATION.--Lat 39°12'01", long 84°28'16", Hydrologic Unit 05090203, Section Road, Cincinnati.

Owner: National Distillers.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 170 ft, cased.

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

DATUM.--Elevation of land-surface datum is 544.7 ft above sea level.

Measuring point: Floor of instrument shelter 8.13 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

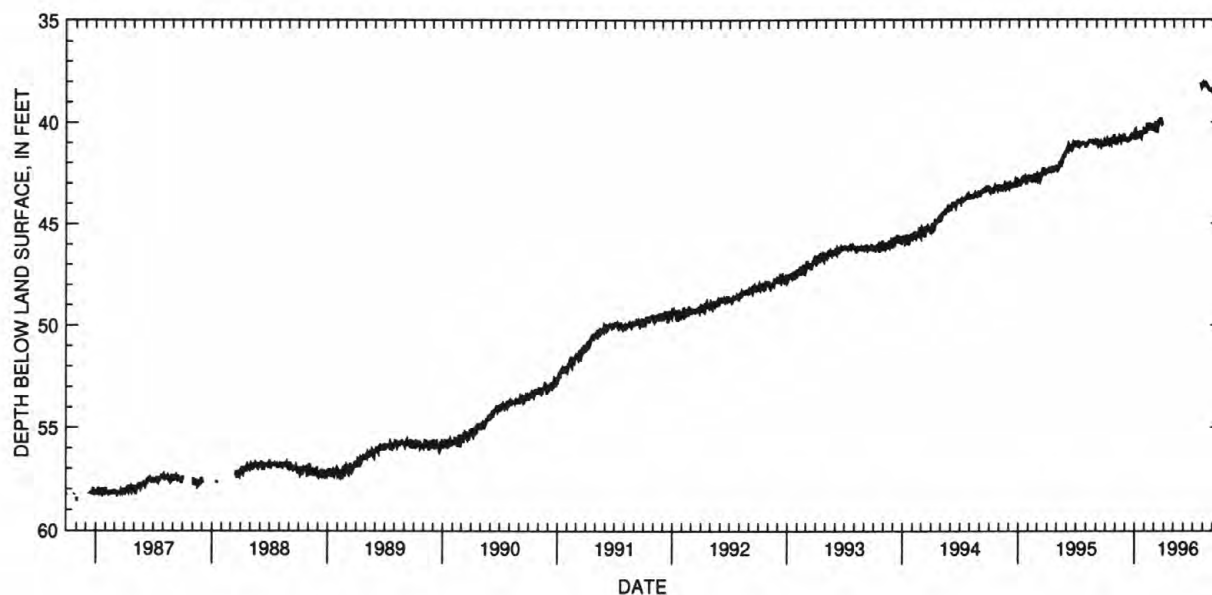
PERIOD OF RECORD.--January 1944 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 121.58 ft below land-surface datum, Nov. 3, 10, 1950;
minimum daily low, 38.08 ft below land-surface datum, Aug. 1, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40.94	40.92	40.74	40.39	40.35	40.22	---	---	---	---	38.08	38.45
2	40.99	40.80	40.84	40.36	40.45	40.13	---	---	---	---	38.10	38.46
3	40.90	40.98	40.77	40.59	40.46	40.42	---	---	---	---	38.15	38.46
4	40.94	41.07	40.85	40.70	40.54	40.42	---	---	---	---	38.21	38.49
5	40.88	41.07	40.86	40.85	40.50	40.06	---	---	---	---	38.21	38.52
6	40.93	40.91	40.90	40.80	40.42	40.07	---	---	---	---	38.24	38.48
7	41.07	40.77	40.88	40.55	40.20	40.20	---	---	---	---	38.24	38.49
8	41.11	40.94	40.89	40.67	40.07	40.35	---	---	---	---	38.20	38.50
9	41.02	40.94	40.94	40.53	40.21	40.47	---	---	---	---	38.21	38.55
10	41.03	40.74	40.95	40.71	40.15	40.53	---	---	---	---	38.23	38.61
11	41.08	40.92	40.95	40.66	40.24	40.39	---	---	---	---	38.20	38.60
12	41.05	40.95	40.87	40.54	40.34	40.15	---	---	---	---	38.17	38.51
13	40.93	40.75	40.87	40.54	40.34	40.03	---	---	---	---	38.23	38.53
14	40.83	40.79	40.74	40.57	40.04	39.94	---	---	---	---	38.28	38.55
15	40.86	40.81	40.80	40.80	40.19	39.94	---	---	---	---	38.28	38.61
16	41.04	40.88	40.88	40.68	40.31	39.98	---	---	---	---	38.33	38.57
17	41.08	40.92	40.91	40.51	40.26	39.95	---	---	---	---	38.34	38.68
18	40.95	40.86	40.76	40.42	40.27	39.97	---	---	---	---	38.38	38.72
19	40.96	40.90	40.59	40.73	40.15	39.77	---	---	---	---	38.42	38.68
20	40.79	40.74	40.69	40.76	40.16	39.91	---	---	---	---	38.43	38.64
21	40.82	40.72	40.66	40.67	40.26	39.95	---	---	---	---	38.43	38.55
22	40.92	40.81	40.69	40.63	40.23	39.98	---	---	---	---	38.42	38.58
23	40.98	40.85	40.68	40.41	40.13	40.04	---	---	---	---	38.42	38.68
24	40.97	40.94	40.64	40.55	40.33	39.98	---	---	---	38.09	38.48	38.69
25	40.99	40.85	40.59	40.60	40.32	40.02	---	---	---	38.12	38.40	38.76
26	40.83	40.70	40.59	40.39	40.14	40.14	---	---	---	38.21	38.34	38.71
27	40.61	40.58	40.69	40.53	40.08	40.15	---	---	---	38.27	38.39	38.57
28	40.89	40.86	40.79	40.58	40.37	---	---	---	---	38.23	38.46	38.59
29	41.05	40.87	40.80	40.32	40.38	---	---	---	---	38.17	38.48	38.64
30	41.05	40.81	40.66	40.33	---	---	---	---	---	38.10	38.51	38.70
31	40.98	---	40.48	40.34	---	---	---	---	---	38.11	38.48	---
MAX	41.11	41.07	40.95	40.85	40.54	40.53	---	---	---	38.27	38.51	38.76

CAL YR 1995 LOW 43.10

WTR YR 1996 LOW 41.11



GROUND-WATER RECORDS

HAMILTON COUNTY-Continued

391214084470100. Local number, H-1.

LOCATION.--Lat 39°12'14", long 84°47'01", Hydrologic Unit 05080003, Kilby Road 4 mi southeast of Harrison.

Owner: Robert Weber.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water-table well, diameter 6 in., depth 124 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 500 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 2.70 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

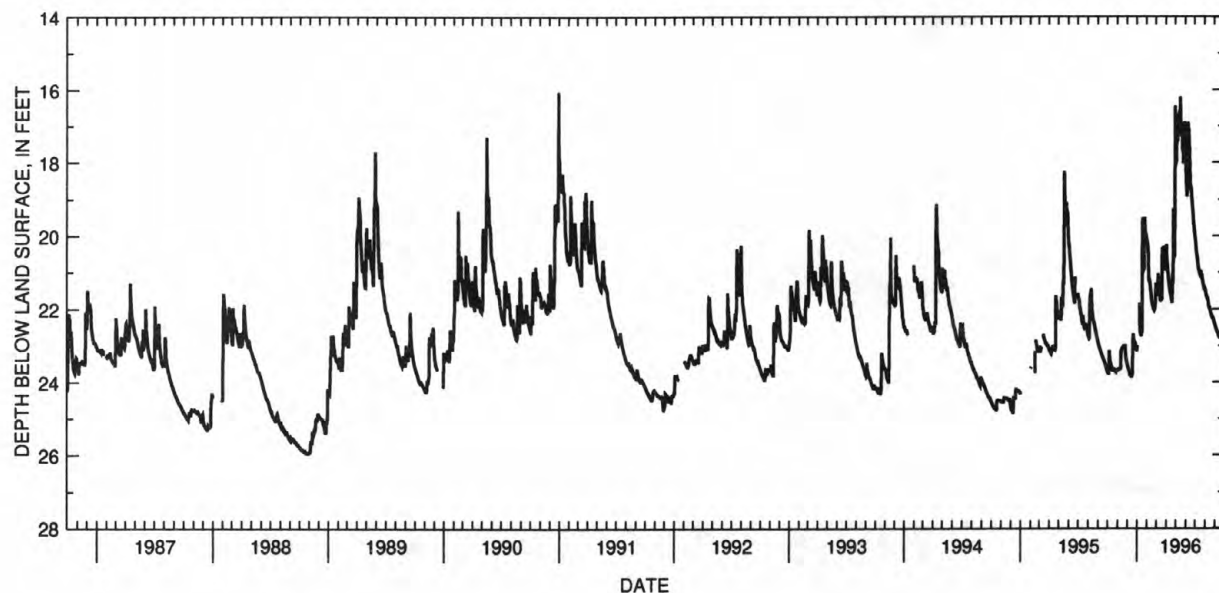
PERIOD OF RECORD.--February 1948 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.95 ft below land-surface datum, Oct. 26-27, 1988;
minimum daily low, 14.00 ft below land-surface datum, Jan. 22, 1959.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.72	23.68	23.50	23.12	20.12	21.42	20.87	17.80	17.46	20.01	21.45	22.43
2	23.75	23.68	23.53	23.00	20.15	21.48	20.24	18.02	17.94	20.08	21.49	22.46
3	23.75	23.65	23.56	---	20.20	21.58	20.53	18.00	18.29	20.19	21.53	22.49
4	23.76	23.63	23.59	---	20.25	21.61	20.72	17.86	18.60	20.28	21.57	22.52
5	23.76	23.63	23.63	---	20.42	21.61	20.83	17.04	18.82	20.40	21.62	22.55
6	23.13	23.64	23.66	---	20.95	21.50	20.93	17.25	18.93	20.49	21.66	22.57
7	23.29	23.63	23.68	---	21.19	21.03	21.03	17.35	18.79	20.55	21.68	22.60
8	23.36	23.62	23.71	---	21.23	21.25	21.12	17.43	18.15	20.58	21.70	22.63
9	23.41	23.62	23.75	21.83	21.22	21.37	21.21	16.85	16.90	20.67	21.70	22.63
10	23.46	23.63	23.80	22.54	21.25	21.43	21.32	17.30	16.95	20.76	21.74	22.66
11	23.50	23.62	23.80	22.65	21.33	21.47	21.39	16.98	17.25	20.85	21.79	22.67
12	23.53	23.16	23.81	22.69	21.43	21.57	21.45	16.62	17.06	20.91	21.85	22.71
13	23.57	23.18	23.82	22.71	21.50	21.72	21.51	16.85	17.30	20.93	21.92	22.74
14	23.61	23.09	23.85	22.72	21.61	21.76	21.55	17.02	17.70	20.99	21.95	22.76
15	23.64	23.07	23.85	22.72	21.69	21.76	21.59	17.05	17.90	20.99	21.98	22.78
16	23.68	23.07	23.82	22.64	21.77	21.57	21.64	16.20	18.32	21.04	22.01	22.78
17	23.68	23.07	23.78	22.61	21.83	21.51	21.70	16.77	18.68	21.08	22.00	22.76
18	23.63	23.05	23.78	20.35	21.83	21.73	21.75	17.07	18.71	21.09	22.05	22.76
19	23.63	23.04	22.99	19.50	21.91	21.72	21.83	17.27	18.67	20.94	22.10	22.76
20	23.63	23.03	22.67	20.53	21.93	20.32	21.76	17.26	18.69	21.03	22.13	22.79
21	23.64	23.01	22.78	20.88	21.96	20.59	21.05	17.03	18.97	21.12	22.17	22.80
22	23.65	23.01	22.84	20.93	22.00	20.78	21.28	17.19	19.05	21.13	22.20	22.80
23	23.67	23.00	22.89	20.90	22.02	20.83	21.28	17.70	19.13	21.12	22.23	22.80
24	23.69	23.00	22.89	19.55	22.03	20.38	19.25	17.37	19.28	21.19	22.24	22.80
25	23.71	23.00	22.90	19.49	22.00	20.28	20.11	17.98	19.42	21.25	22.23	22.80
26	23.72	23.16	22.91	19.76	22.00	20.57	20.38	18.04	19.53	21.30	22.25	22.77
27	23.73	23.30	22.95	19.90	21.88	20.82	20.53	17.48	19.65	21.34	22.27	22.77
28	23.70	23.38	23.08	20.00	21.70	20.95	20.59	17.01	19.75	21.39	22.31	22.73
29	23.67	23.42	23.10	20.02	21.30	20.88	18.75	16.89	19.85	21.42	22.33	22.44
30	23.67	23.46	23.12	20.00	---	20.89	16.45	17.16	19.93	21.40	22.38	22.40
31	23.67	---	23.12	20.06	---	20.92	---	17.33	---	21.42	22.41	---
MAX	23.76	23.68	23.85	23.12	22.03	21.76	21.83	18.04	19.93	21.42	22.41	22.80

CAL YR 1995 LOW 24.33

WTR YR 1996 LOW 23.85



GROUND-WATER RECORDS

227

HAMILTON COUNTY--Continued

391324084272500. Local number, H-9.

LOCATION.--Lat 39°13'24", long 84°27'25", Hydrologic Unit 05090203, 9.1 mi north of Riverfront Stadium in Cincinnati.

Owner: Diamond National Corporation.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 10 in., depth drilled 168 ft, present depth 163 ft cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 555.30 ft above sea level.

Measuring point: Floor of instrument shelter, 2.76 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1938 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 136.80 ft below land-surface datum, Nov. 9, 1947, Feb. 15, 1948;
minimum water level measured, 31.55 ft below land-surface datum, Mar. 27, 1996.WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 24, 1995	32.72	Mar. 27, 1996	31.55

GROUND-WATER RECORDS

HAMILTON COUNTY-Continued

391341084275300. Local number, H-8.

LOCATION.--Lat 39°13'41", long 84°27'53", Hydrologic Unit 05090203, Vine and Water Streets, Wyoming.

Owner.--Wyoming Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 194 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 576.2 ft above sea level.

Measuring point: Top of platform 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

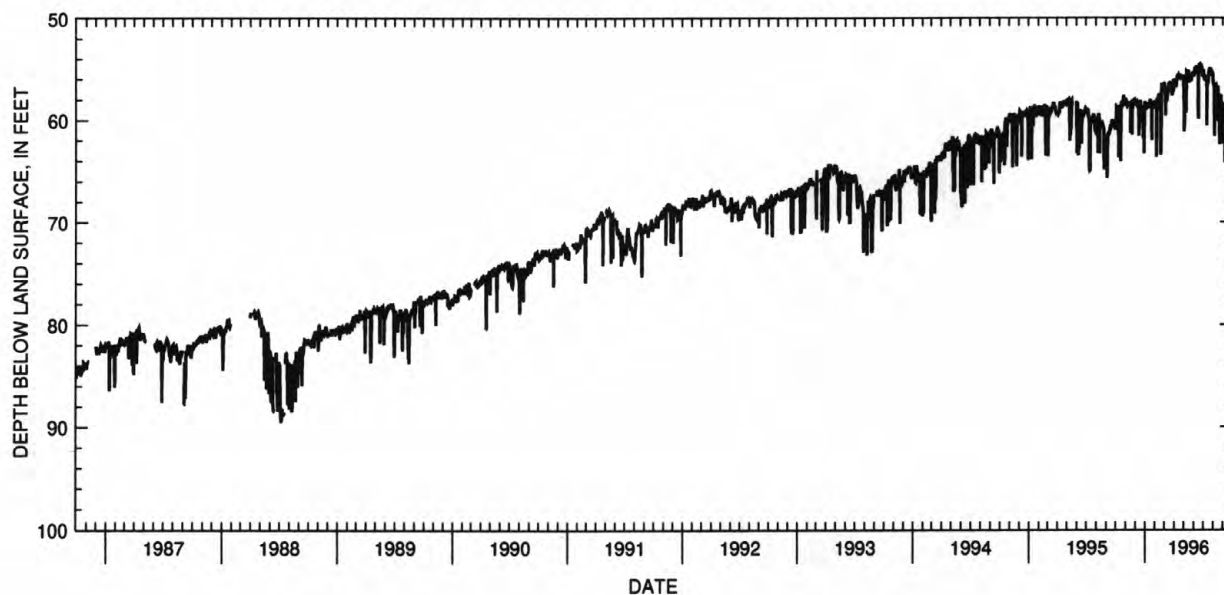
PERIOD OF RECORD.--June 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 148.86 ft below land-surface datum, Dec. 1, 1948;
minimum daily low, 54.50 ft below land-surface datum, June 19, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60.85	58.05	58.15	58.55	58.35	56.60	56.25	56.75	55.70	55.60	55.55	58.85
2	60.85	57.85	58.25	58.20	58.45	56.35	56.30	56.80	55.70	55.10	56.45	62.35
3	60.15	58.15	58.35	58.60	58.50	56.95	56.05	61.15	55.50	55.50	56.45	58.70
4	59.85	58.40	58.40	58.75	58.75	57.10	56.15	58.00	55.20	55.75	56.55	58.65
5	58.70	58.35	58.35	59.00	58.45	56.95	56.40	56.75	55.25	56.05	56.65	58.75
6	58.75	58.50	58.45	58.80	58.45	59.60	56.20	57.00	55.10	56.15	61.60	58.45
7	59.00	58.35	58.50	58.85	63.65	57.35	56.45	56.75	54.90	55.90	---	58.45
8	59.00	58.60	58.40	58.80	58.10	57.45	56.85	58.05	54.90	55.70	56.90	64.15
9	59.45	58.55	58.65	58.55	57.95	57.85	56.15	59.30	54.75	56.00	56.65	59.70
10	59.20	58.25	58.65	58.85	57.85	58.20	56.05	55.40	54.95	56.20	56.60	58.40
11	59.05	58.45	58.60	58.50	58.15	57.90	55.85	55.45	54.90	56.10	60.10	62.00
12	63.70	58.45	58.60	58.40	58.15	57.50	55.65	55.60	54.70	56.05	57.00	58.45
13	59.20	58.35	58.25	58.60	57.75	57.15	55.60	55.65	55.05	60.55	57.05	58.10
14	58.65	58.35	61.55	58.55	57.45	57.15	55.85	55.50	55.00	56.60	57.25	58.05
15	58.70	58.40	58.35	58.85	57.55	56.75	55.85	55.25	55.10	56.05	57.15	58.20
16	59.25	58.45	58.55	58.50	57.90	56.80	55.75	55.25	59.90	56.45	56.70	57.55
17	59.00	58.40	58.50	58.30	57.60	57.00	56.00	56.05	55.45	56.40	57.05	58.15
18	64.05	61.30	58.10	58.00	57.75	56.85	55.90	56.25	55.30	56.00	57.60	57.95
19	59.05	58.65	58.55	58.50	57.45	56.25	55.60	56.25	54.50	55.45	57.60	57.65
20	58.30	58.45	58.85	58.55	63.35	56.65	55.55	56.00	54.60	55.25	60.25	57.60
21	58.30	58.55	58.90	58.75	63.30	56.75	56.05	56.00	54.55	55.05	58.00	57.45
22	58.50	61.45	58.95	58.45	57.30	56.95	55.90	56.15	54.70	55.05	62.40	60.20
23	58.45	58.75	59.00	62.00	56.45	57.15	56.00	56.00	54.70	54.90	58.05	57.45
24	58.55	58.80	58.95	58.50	57.35	56.85	56.10	56.20	54.55	55.30	59.50	57.30
25	58.45	58.50	58.85	58.45	57.25	57.00	55.65	56.10	54.75	55.00	57.55	57.45
26	58.10	58.15	58.70	58.95	57.10	57.60	55.85	55.80	54.90	55.25	57.70	57.30
27	57.60	58.10	61.85	58.45	56.85	57.45	55.95	55.60	55.05	55.70	57.90	55.75
28	58.10	58.45	61.70	58.45	56.90	56.85	56.00	55.45	55.15	55.45	61.10	56.80
29	58.40	58.45	59.30	58.50	56.70	56.80	55.75	55.35	55.70	55.20	58.25	57.05
30	58.35	58.22	63.30	58.20	---	57.25	55.65	55.55	55.70	55.40	61.65	57.00
31	58.15	---	58.65	58.30	---	56.05	---	55.50	---	55.50	58.70	---
MAX	64.05	61.45	63.30	62.00	63.65	59.60	56.85	61.15	59.90	60.55	62.40	64.15

CAL YR 1995 LOW 65.70

WTR YR 1996 LOW 64.15



GROUND-WATER RECORDS

229

HAMILTON COUNTY-Continued

391442084262900. Local number, H-7.

LOCATION.--Lat 39°14'42", long 84°26'29", Hydrologic Unit 05090203, at Evendale.

Owner: General Electric Corp.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth 180 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 555.40 ft above sea level.

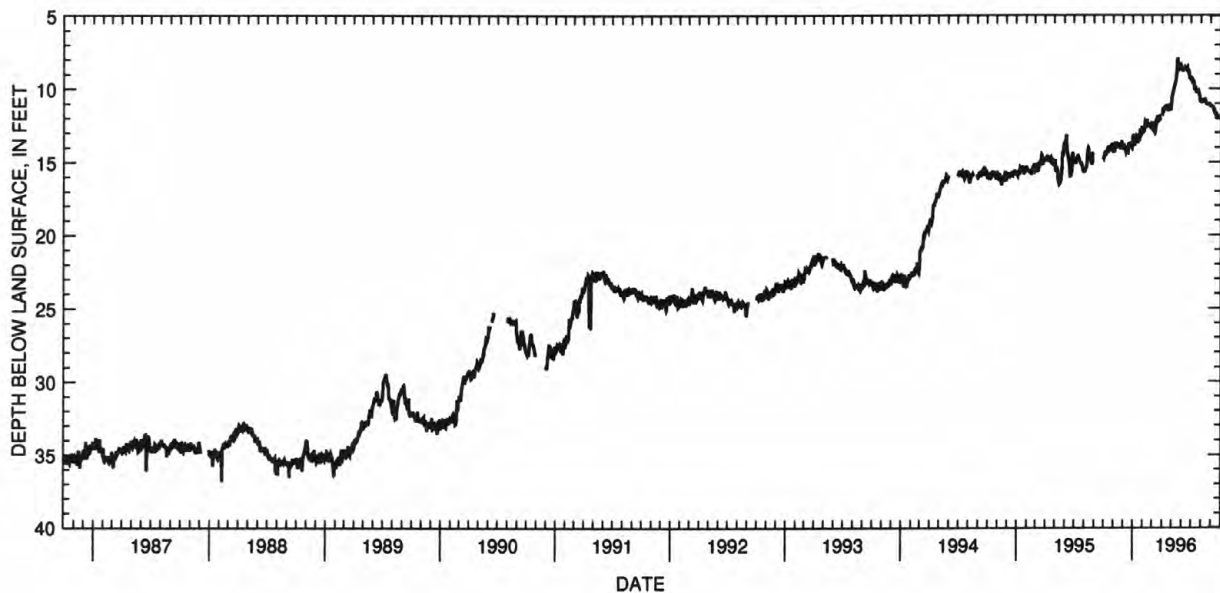
Measuring point: Floor of instrument shelter 7.78 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1941 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 101.09 ft below land-surface datum, Jan. 29, 1964;
minimum daily low, 7.90 ft below land-surface datum, May 20, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.67	14.06	13.76	13.27	12.65	12.60	11.68	10.65	8.69	9.27	10.83	11.17
2	14.73	13.82	13.95	13.24	12.78	12.27	11.70	10.50	8.69	9.26	10.91	11.17
3	14.61	14.07	13.87	13.29	12.83	12.83	11.54	10.45	8.66	9.31	10.91	11.17
4	14.42	14.25	13.99	13.54	12.95	12.85	11.29	10.30	8.54	9.47	10.89	11.18
5	14.39	14.25	13.94	13.83	12.94	12.48	11.57	10.25	8.75	9.56	10.87	11.24
6	14.25	14.14	14.09	13.83	12.72	12.26	11.57	10.13	8.75	9.61	10.83	11.24
7	14.51	13.66	14.09	13.65	12.60	12.53	11.40	10.08	8.72	9.61	10.82	11.27
8	14.59	14.00	14.10	13.51	12.25	12.73	11.30	9.97	8.69	9.51	10.77	11.33
9	14.48	14.04	14.16	13.50	12.29	12.96	11.26	9.84	8.67	9.55	10.78	11.36
10	14.37	13.86	14.19	13.52	12.29	13.02	11.30	9.79	8.61	9.90	10.80	11.52
11	14.38	13.83	14.34	13.53	12.35	13.00	11.34	9.75	8.60	10.03	10.78	11.60
12	14.37	14.04	14.28	13.24	12.58	12.67	11.30	9.60	8.53	10.03	10.73	11.62
13	14.22	13.91	14.18	13.26	12.58	12.32	11.13	9.53	8.56	9.97	10.72	11.55
14	14.05	13.84	13.90	13.30	12.09	12.18	11.23	9.36	8.60	9.91	10.78	11.63
15	14.04	13.84	14.02	13.66	12.33	12.09	11.33	9.24	8.66	9.92	10.92	11.68
16	14.26	13.95	14.19	13.66	12.51	12.15	11.07	8.95	8.71	10.13	10.99	11.75
17	14.34	14.04	14.24	13.34	12.51	12.09	11.34	8.77	8.72	10.22	10.99	11.65
18	14.18	13.92	14.10	13.29	12.50	12.14	11.40	8.22	8.67	10.22	11.02	11.88
19	14.14	14.02	13.70	13.35	12.46	12.06	11.33	8.00	8.61	10.18	11.05	12.02
20	14.00	13.94	13.81	13.59	12.38	11.90	11.11	7.90	8.72	10.21	11.05	12.02
21	13.90	13.74	13.84	13.52	12.49	12.03	11.30	8.44	8.80	10.22	11.04	12.00
22	14.05	13.88	13.87	13.43	12.49	12.03	11.41	8.57	8.79	10.19	11.03	11.98
23	14.14	13.88	13.87	13.18	12.46	12.14	11.33	8.53	8.90	10.15	11.03	11.80
24	14.11	14.07	13.86	12.77	12.61	12.11	11.45	8.50	8.89	10.21	11.07	11.94
25	14.19	14.07	13.74	13.16	12.64	11.79	11.45	8.64	9.09	10.37	11.07	11.95
26	14.05	13.91	13.64	13.10	12.58	12.14	11.15	8.63	9.27	10.37	11.05	12.03
27	13.75	13.55	13.77	12.74	12.39	---	11.16	8.51	9.29	10.54	10.96	12.03
28	13.85	13.90	13.94	13.09	12.65	---	11.33	8.37	9.29	10.83	11.07	12.00
29	14.23	13.95	14.00	13.06	12.77	---	11.35	8.26	9.32	10.82	11.12	11.87
30	14.26	13.95	13.89	12.64	---	---	11.06	8.51	9.28	10.73	11.18	11.96
31	14.15	---	13.64	12.64	---	---	---	8.60	---	10.77	11.18	---
MAX	14.73	14.25	14.34	13.83	12.95	13.02	11.70	10.65	9.32	10.83	11.18	12.03

CAL YR 1995 LOW 16.54
WTR YR 1996 LOW 14.73

GROUND-WATER RECORDS

HAMILTON COUNTY--Continued

391608084254400. Local number, H-6.

LOCATION.--Lat 39°16'08", long 84°25'44", Hydrologic Unit 05090203, Water Treatment Plant in Glendale.

Owner: Glendale Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 167 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 570.65 ft above sea level.

Measuring point: Floor of instrument shelter 4.05 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1938 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 84.10 ft below land-surface datum, Oct. 14, 1960;

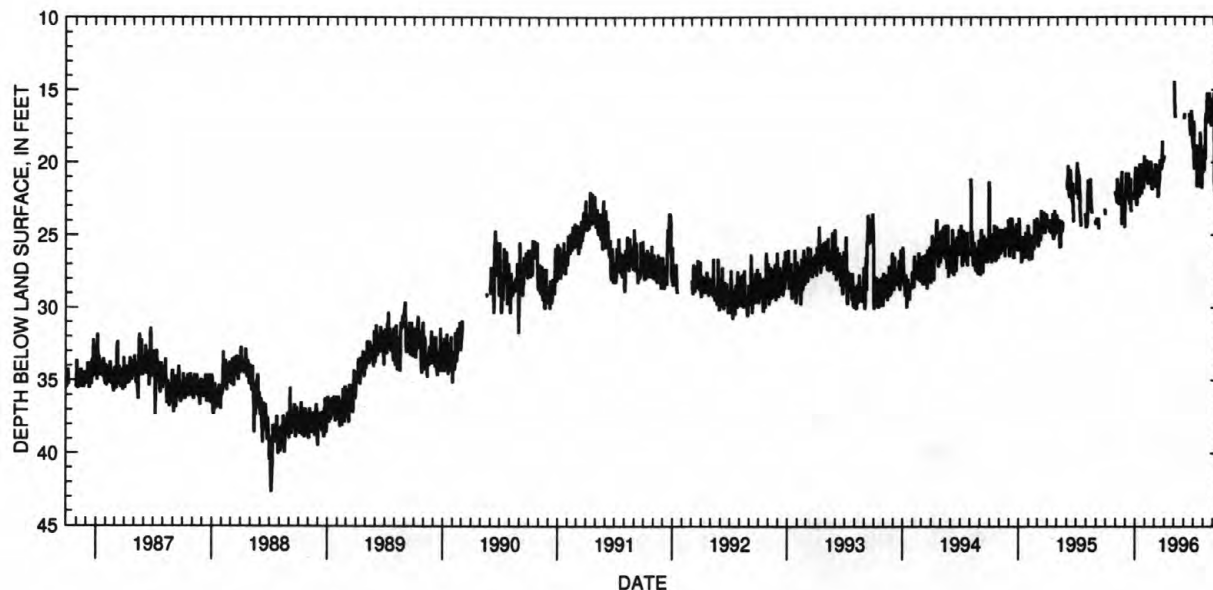
minimum daily low, 14.40 ft below land-surface datum, Apr. 30, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	22.20	22.20	20.30	20.60	21.50	18.60	15.50	16.60	19.50	20.30	15.50
2	---	22.30	22.30	21.20	21.00	21.30	---	16.40	---	20.20	20.50	15.20
3	---	22.40	20.70	22.10	21.20	20.10	---	16.90	---	20.50	20.60	18.80
4	---	22.80	21.50	22.60	19.80	20.60	---	16.80	---	20.20	18.80	21.50
5	---	21.10	22.20	23.00	20.30	21.00	---	---	---	19.60	19.60	20.50
6	---	21.30	22.30	22.70	21.10	21.30	---	---	---	20.00	19.80	22.10
7	---	21.90	22.50	20.40	21.10	21.60	---	---	---	18.80	16.60	17.90
8	---	22.30	22.30	21.30	21.30	21.70	---	---	---	19.00	17.20	16.10
9	---	22.50	22.40	21.50	21.50	21.60	---	---	---	18.80	17.20	20.90
10	---	22.80	20.70	22.00	21.50	20.20	---	---	---	19.10	17.30	21.70
11	---	22.90	21.80	21.90	19.90	22.30	---	---	---	21.70	15.20	22.60
12	---	21.80	22.00	22.30	20.80	22.40	---	---	---	20.10	15.50	22.90
13	---	21.50	22.50	22.30	21.20	22.10	---	---	---	20.40	15.90	23.10
14	---	21.90	22.80	20.10	21.00	21.20	---	---	---	18.90	16.00	22.90
15	---	22.40	22.80	21.90	21.40	21.40	---	---	---	19.00	16.70	21.40
16	---	22.70	22.70	21.90	21.50	21.10	---	---	---	20.00	17.10	21.50
17	---	22.70	21.10	22.00	21.30	19.80	---	---	16.60	21.70	17.10	22.30
18	---	22.30	23.10	21.90	19.90	20.10	---	---	17.40	20.10	15.20	22.70
19	---	20.60	23.40	22.10	20.40	20.20	---	---	17.70	19.60	15.80	22.60
20	---	24.30	---	22.10	21.20	20.30	---	---	18.10	19.80	16.20	22.10
21	---	---	---	20.10	21.70	20.50	---	---	17.80	17.90	16.60	21.60
22	---	---	---	20.80	21.90	20.30	---	---	17.80	18.50	17.00	19.90
23	---	23.70	---	21.10	21.80	20.30	---	---	16.40	19.20	17.40	20.20
24	---	---	---	21.50	21.50	18.50	---	---	17.70	19.60	17.40	20.60
25	---	---	---	21.70	20.50	19.50	---	---	17.90	21.20	15.60	20.70
26	---	---	---	21.70	21.10	19.90	---	---	18.10	21.70	15.80	21.40
27	---	---	---	21.60	21.20	---	---	---	18.60	21.70	16.20	21.70
28	---	---	---	19.50	21.50	20.00	---	---	18.90	19.60	16.60	21.50
29	---	24.50	22.54	20.30	21.70	19.60	---	---	19.10	20.10	17.00	19.10
30	22.00	22.10	21.40	20.60	---	19.50	14.40	---	17.10	20.70	17.30	19.20
31	22.20	---	21.10	21.00	---	---	---	17.00	---	19.90	17.30	---
MAX	22.20	24.50	23.40	23.00	21.90	22.40	18.60	17.00	19.10	21.70	20.60	23.10

CAL YR 1995 LOW 26.90

WTR YR 1996 LOW 24.50



GROUND-WATER RECORDS

231

HAMILTON COUNTY-Continued

391733084392400. Local number, H-2.

LOCATION.--Lat 39°17'33", long 84°39'24", Hydrologic Unit 05080002, East Miami River Road 1.5 mi south of Ross.

Owner: Lee Wilhelm.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 89 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 534.21 ft above sea level.

Measuring point: Floor of instrument shelter 8.97 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

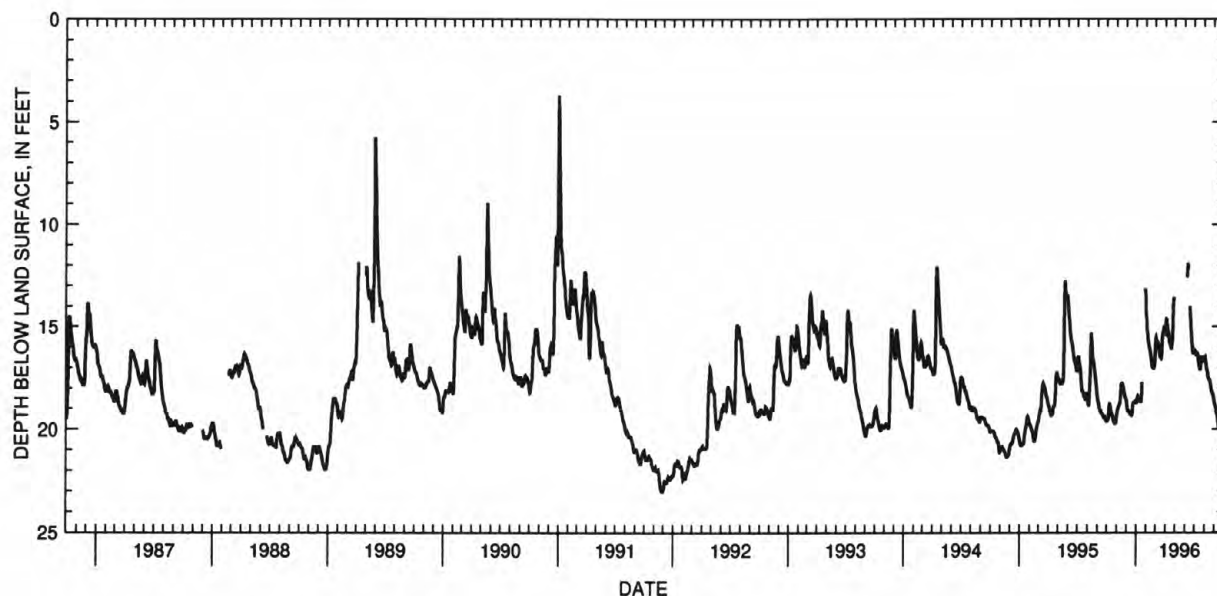
PERIOD OF RECORD.--August 1952 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 24.37 ft below land-surface datum, Sept. 24, 25, 1972;
minimum daily low 1.60 ft below land-surface datum, June, 16, 1958. (Water level above land surface but could not be measured during January 1959 flood.)DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.61	19.33	18.58	18.71	14.04	15.98	15.30	---	---	16.09	16.55	18.70
2	19.60	19.19	18.67	18.71	14.44	15.58	15.15	---	---	16.16	16.48	18.77
3	19.57	19.13	18.84	18.62	14.75	15.53	14.83	---	---	16.25	16.46	18.79
4	19.55	19.08	18.98	18.55	15.01	15.60	14.65	---	---	16.25	16.57	18.87
5	19.54	19.02	19.05	18.46	15.23	15.76	14.66	---	---	16.26	16.70	18.96
6	19.47	18.96	19.12	18.39	15.43	15.89	14.85	---	---	16.35	16.82	19.06
7	19.28	18.91	19.12	18.41	15.55	15.89	14.97	---	---	16.45	16.92	19.16
8	19.03	18.88	19.12	18.50	15.71	15.79	15.10	---	---	16.38	17.04	19.20
9	18.85	18.83	19.12	18.59	15.83	15.74	15.18	---	12.58	16.34	17.13	19.23
10	18.77	18.79	19.12	18.62	15.91	15.83	15.28	---	11.99	16.30	17.16	19.29
11	18.78	18.73	19.14	18.62	15.98	15.94	15.37	---	11.87	16.32	17.25	19.40
12	18.89	18.67	19.20	18.59	16.04	16.03	15.47	---	12.19	16.45	17.38	19.55
13	18.97	18.40	19.25	18.60	16.07	16.12	15.58	---	---	16.60	17.49	19.71
14	19.08	18.06	19.26	18.62	16.19	16.27	15.69	---	---	16.73	17.53	19.82
15	19.16	17.87	19.26	18.66	16.28	16.43	15.78	---	---	16.85	17.56	19.91
16	19.22	17.79	19.27	18.66	16.39	16.43	15.85	---	---	16.89	17.59	19.97
17	19.27	17.75	19.32	18.61	16.53	16.48	15.88	---	14.00	16.99	17.60	19.99
18	19.32	17.75	19.33	18.39	16.70	16.53	15.94	---	14.40	17.08	17.62	19.96
19	19.36	17.82	19.31	17.70	16.84	16.54	16.05	---	14.75	17.08	17.68	19.87
20	19.43	17.84	19.17	---	16.94	16.49	16.06	---	15.00	16.97	17.78	19.82
21	19.50	17.89	18.94	---	16.97	16.10	16.06	---	15.25	16.76	17.90	19.82
22	19.56	17.95	18.76	---	16.99	15.70	15.80	---	15.53	16.57	18.03	19.83
23	19.60	18.06	18.72	---	17.01	15.45	15.69	---	15.74	16.44	18.17	19.80
24	19.65	18.15	18.70	---	17.02	15.38	15.55	---	15.98	16.50	18.19	19.80
25	19.69	18.21	18.68	---	17.02	15.33	14.80	---	16.20	16.64	18.19	19.82
26	19.72	18.30	18.67	---	16.97	15.27	14.05	---	16.29	16.69	18.21	19.85
27	19.73	18.40	18.66	---	16.93	15.12	13.71	---	16.30	16.70	18.26	19.87
28	19.73	18.46	18.69	---	16.90	14.98	13.61	---	16.30	16.70	18.33	19.86
29	19.70	18.48	18.68	---	16.56	15.05	13.57	---	16.27	16.69	18.39	19.65
30	19.61	18.49	18.68	13.15	---	15.19	---	---	16.16	16.68	18.48	19.32
31	19.44	---	18.71	13.60	---	15.27	---	---	---	16.66	18.59	---
MAX	19.73	19.33	19.33	18.71	17.02	16.54	16.06	---	16.30	17.08	18.59	19.99

CAL YR 1995 LOW 20.81

WTR YR 1996 LOW 19.99



GROUND-WATER RECORDS

HAMILTON COUNTY--Continued

391748084393800. Local number, H-19.

LOCATION.--Lat 39°17'48", long 84°39'38", Hydrologic Unit 05080002, on left bank of Great Miami River 1.3 mi southwest of Venice.

Owner: Southwest Ohio Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Collector-type industrial supply water-table well, diameter 20 ft, depth 144 ft horizontal intakes at 95-100 ft.

PERIOD OF RECORD.--1964 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

391748084393800 - H-19

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L CAC03) (99430)
DEC 07...	0850	762	7.8	-1.0	16.5	<10	73	27	36	3.9	275	225
APR 24...	0800	756	7.5	5.0	14.0	18	78	27	34	3.6	277	227
AUG 13...	0800	690	7.4	23.0	15.0	<10	75	26	28	3.7	249	204

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
DEC 07...	67	60	0.30	8.5	432	0.020	1.80	0.020	<0.010	1	<1
APR 24...	63	59	0.30	7.8	400	0.020	3.50	0.040	<0.010	--	--
AUG 13...	57	48	0.30	7.9	404	0.030	2.90	0.050	0.020	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC 07...	--	<1	<1	--	28	<1	--	210	<10	--	5.1
APR 24...	--	--	--	--	12	--	--	220	--	--	1.6
AUG 13...	<1	<1	1	1	17	<1	<1	190	<10	10	1.4

GROUND-WATER RECORDS

233

HAMILTON COUNTY-Continued

391817084393300. Local number, H-4.

LOCATION.--Lat 39°18'17", long 84°39'33", Hydrologic Unit 05080002, 0.7 mi southwest of Ross.

Owner: Southwestern Ohio Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 100 ft, cased.

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

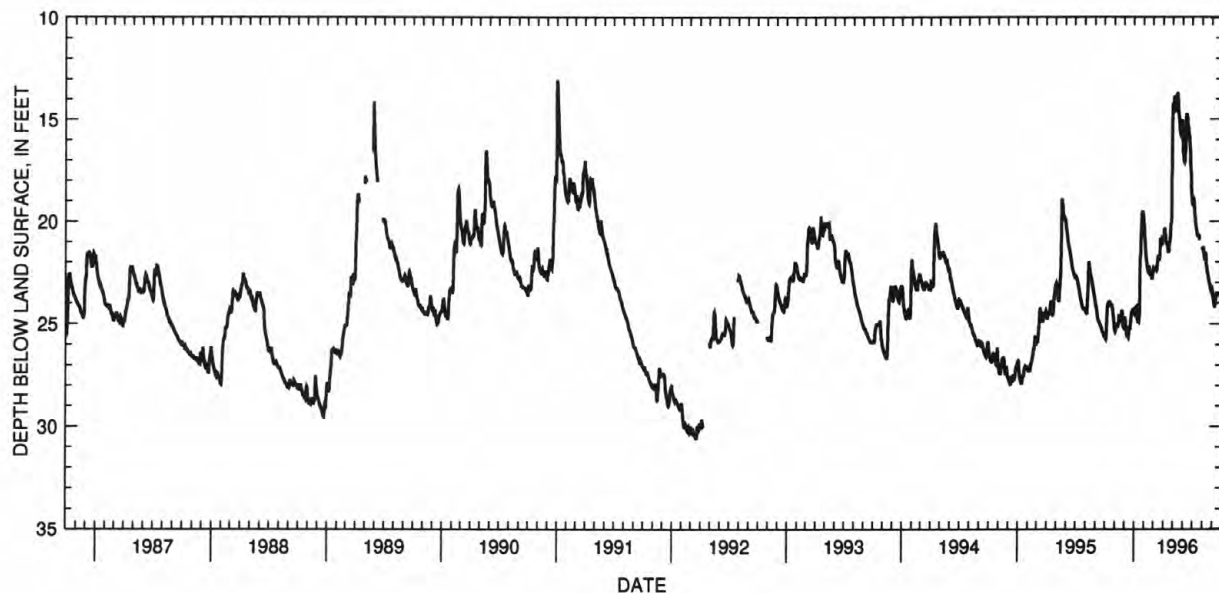
DATUM.--Elevation of land-surface datum is 541.57 ft above sea level. (Levels by Miami Conservancy District).

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--December 1954 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.16 ft below land-surface datum, Nov. 20, 1971;
minimum daily low, 11.60 ft below land-surface datum, June 16, 1958.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.59	25.20	25.08	24.29	19.86	22.55	20.84	14.37	15.78	18.83	21.29	23.14
2	25.63	25.32	24.88	24.26	20.02	22.39	20.84	14.20	16.24	19.02	21.32	23.32
3	25.67	25.37	24.74	24.26	20.19	22.32	20.80	14.65	16.57	19.15	21.37	23.49
4	25.70	25.34	24.65	24.45	20.56	22.34	20.74	14.68	16.75	19.14	21.37	23.62
5	25.72	25.10	24.82	24.54	20.81	22.37	20.74	14.09	16.90	18.95	21.24	23.73
6	25.56	24.95	24.83	24.52	21.04	22.39	20.42	13.85	17.06	18.86	21.42	23.85
7	25.16	25.15	25.06	24.30	21.37	22.39	20.32	14.32	17.10	18.88	21.59	23.96
8	24.79	25.21	25.26	24.19	21.60	22.36	20.40	14.53	17.05	19.18	21.71	24.06
9	24.32	25.13	25.43	24.17	21.80	22.34	20.63	14.58	16.75	19.48	21.83	24.13
10	24.17	24.97	25.50	24.48	21.94	22.35	20.79	14.59	16.44	19.69	21.84	24.15
11	24.08	25.12	25.48	24.69	22.04	22.30	20.93	14.59	15.55	19.85	21.73	24.15
12	24.02	25.12	25.45	24.77	22.15	22.35	21.04	14.03	14.93	19.99	21.52	23.97
13	23.99	24.97	25.42	24.74	22.23	22.39	21.13	13.78	14.73	20.15	21.61	23.78
14	23.98	24.92	25.59	24.55	22.34	22.34	21.13	---	14.78	20.30	21.90	23.72
15	23.98	24.73	25.64	24.70	22.44	22.09	21.13	---	14.84	20.40	22.08	23.65
16	23.90	24.76	25.58	24.83	22.48	21.91	21.28	13.67	14.96	20.48	22.24	23.48
17	23.96	24.80	25.37	24.87	22.42	21.75	21.40	13.91	15.14	20.58	22.35	23.52
18	24.00	24.74	25.21	24.80	22.19	21.67	21.47	14.28	15.33	20.68	22.47	23.53
19	24.04	24.59	25.11	24.53	22.30	21.84	21.55	14.66	15.45	20.70	22.56	23.53
20	24.07	24.77	25.20	23.60	22.52	21.88	21.55	14.74	15.56	20.69	22.63	23.53
21	24.12	24.79	25.20	22.30	22.62	21.87	21.33	14.88	15.71	20.65	22.71	23.53
22	24.12	24.69	24.99	21.67	22.62	21.80	20.99	15.12	15.88	20.66	22.81	23.54
23	24.01	24.49	24.79	21.51	22.50	21.49	21.02	15.37	16.02	20.67	22.91	23.54
24	24.11	24.39	24.62	21.03	22.65	21.12	20.97	15.59	16.18	20.91	23.00	23.55
25	24.18	24.32	24.49	20.42	22.67	20.82	20.60	15.70	16.65	---	23.07	23.58
26	24.22	24.42	24.43	19.89	22.75	20.94	20.23	15.76	17.08	---	23.15	23.60
27	24.37	24.74	24.36	19.60	22.79	21.05	20.10	15.72	17.38	---	23.24	23.62
28	24.60	24.96	24.33	19.52	22.79	21.09	20.03	15.30	17.85	---	23.31	23.67
29	24.66	25.12	24.32	19.49	22.65	21.14	19.73	15.12	18.32	---	23.36	23.88
30	24.87	25.15	24.30	19.56	---	21.13	15.63	15.03	18.63	---	23.42	24.04
31	25.06	---	24.28	19.70	---	20.81	---	15.15	---	---	23.37	---
MAX	25.72	25.37	25.64	24.87	22.79	22.55	21.55	15.76	18.63	20.91	23.42	24.15

CAL YR 1995 LOW 27.90
WTR YR 1996 LOW 25.72

GROUND-WATER RECORDS

HARDIN COUNTY

404218083503700. Local number, HN-1.

LOCATION.--Lat 40°42'18", long 83°50'37", Hydrologic Unit 05060001, at grain elevator in Alger.

Owner: Village of Alger.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 40 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 975 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

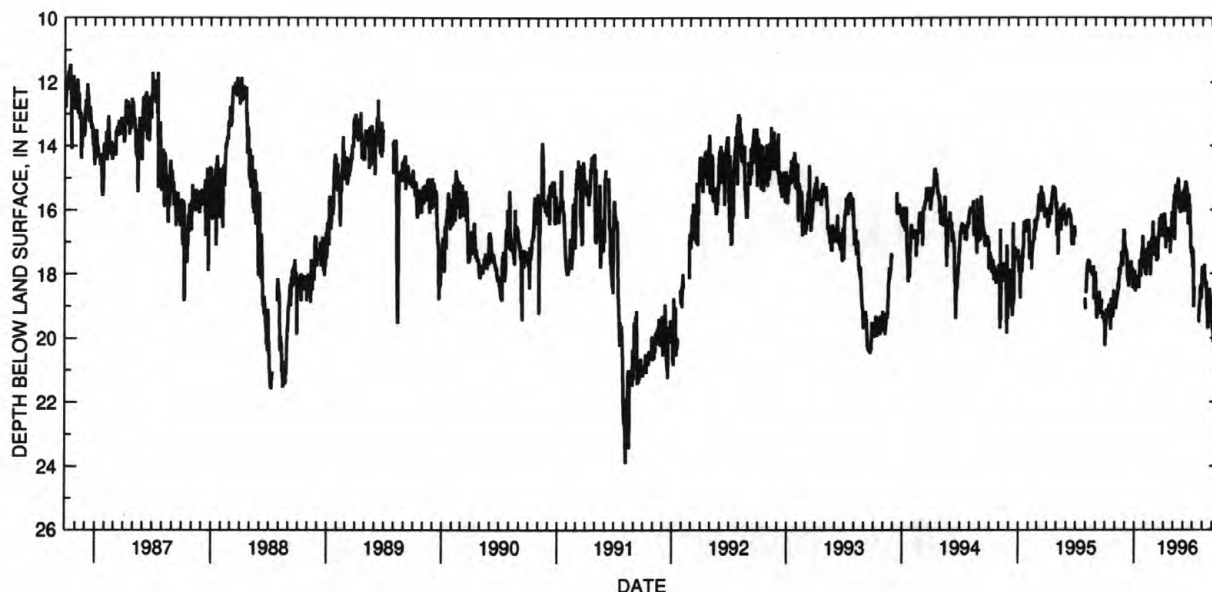
PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.90 ft below land-surface datum, Aug. 7, 1991;
minimum daily low, 5.85 ft below land-surface datum, July 1, 1946.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.25	19.00	17.00	17.95	17.40	17.35	16.60	16.20	16.05	17.65	17.80	19.70
2	20.20	18.60	17.10	17.90	17.30	17.15	16.80	15.85	16.00	17.80	17.80	19.70
3	19.45	18.85	17.15	18.25	17.85	16.85	16.10	15.75	15.40	17.25	18.10	19.90
4	19.40	19.10	17.35	18.55	18.00	17.35	16.20	15.50	15.50	17.80	18.25	20.15
5	19.60	18.90	17.25	18.40	17.55	17.45	16.40	16.95	15.60	19.05	17.90	18.95
6	19.10	18.85	17.30	18.35	18.00	17.25	16.90	16.60	15.35	18.40	17.85	19.05
7	19.15	18.75	17.35	18.45	18.05	16.85	16.70	15.70	15.35	18.50	17.70	19.15
8	19.40	18.65	17.35	18.40	17.20	17.25	17.20	15.20	15.25	---	18.20	19.55
9	19.30	18.70	17.65	18.30	17.40	17.25	16.70	15.45	15.10	---	18.15	19.55
10	19.10	18.50	18.00	18.35	17.70	17.50	16.80	15.70	15.20	---	18.25	19.05
11	19.25	18.25	18.15	18.15	17.50	17.60	16.90	15.35	15.15	---	18.40	19.80
12	19.05	18.50	18.25	18.15	17.65	17.25	16.85	15.80	16.05	---	18.45	19.80
13	19.10	18.45	18.00	18.05	17.55	17.55	16.55	15.65	15.30	---	18.25	19.10
14	18.95	18.10	18.40	18.25	17.05	17.50	16.80	15.35	16.00	---	18.80	19.15
15	19.05	17.80	18.30	18.45	17.00	16.85	17.00	15.25	15.55	---	19.00	19.35
16	19.05	18.05	17.80	18.10	17.50	16.85	16.70	15.00	15.95	---	19.10	19.30
17	19.10	17.95	17.85	17.95	17.15	16.90	16.80	15.20	16.45	---	19.50	19.85
18	19.45	17.85	17.80	17.60	17.10	16.60	16.95	15.40	15.50	---	19.65	20.15
19	19.75	17.75	17.60	17.60	17.90	16.25	16.55	16.00	15.55	---	19.70	18.85
20	18.90	17.75	17.70	17.85	18.05	16.55	17.00	15.80	15.85	19.50	19.40	19.15
21	18.75	17.65	17.65	18.10	17.40	16.70	16.85	15.80	15.80	19.50	18.90	18.70
22	19.15	17.30	17.60	17.75	17.55	16.65	17.35	16.05	16.00	19.00	19.10	19.10
23	19.15	17.60	18.10	17.45	16.90	16.55	16.70	16.05	16.45	19.00	18.95	19.65
24	19.20	17.60	17.85	17.40	17.20	16.15	16.90	15.85	16.50	19.00	18.45	19.65
25	19.20	17.75	17.80	17.30	17.45	16.55	16.70	15.45	17.25	18.55	18.85	19.20
26	19.35	17.55	17.90	17.15	17.15	16.60	16.40	15.60	---	18.35	18.70	19.00
27	19.15	17.30	18.45	16.80	16.55	16.75	16.05	16.00	17.35	18.80	18.80	19.00
28	18.50	16.90	18.30	17.55	16.35	16.85	16.80	15.65	17.15	18.75	19.50	19.40
29	18.85	16.65	18.40	17.65	17.20	16.55	16.15	15.60	17.20	18.70	19.40	19.30
30	18.95	16.65	18.05	17.80	---	16.85	16.50	15.80	17.35	18.25	19.00	19.15
31	18.85	---	18.20	17.80	---	16.50	---	15.95	---	17.85	18.75	---
MAX	20.25	19.10	18.45	18.55	18.05	17.60	17.35	16.95	17.35	19.50	19.70	20.15

CAL YR 1995 LOW 20.25

WTR YR 1996 LOW 20.25



GROUND-WATER RECORDS

235

HOCKING COUNTY

393200082235300. Local number, HK-1.

LOCATION.--Lat 39°32'00", long 82°23'53", Hydrologic Unit 05060002, at railroad yards southeast edge of Logan.

Owner: Chessie System.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 88 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 710 ft above sea level, from topographic map.

Measuring point: Top of gage platform 4.90 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1962 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 21.35 ft below land-surface datum, Dec. 21, 22, 1967;
minimum daily low, 9.11 ft below land-surface datum, Apr. 22, 1964.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 23, 1995	18.83	Mar. 25, 1996	14.65

GROUND-WATER RECORDS

KNOX COUNTY

402344082300700. Local number, K-1.

LOCATION.--Lat 40°23'44", long 82°30'07", Hydrologic Unit 05040003, in city park, Mt. Vernon.

Owner: Mt. Vernon Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 90 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1,000 ft above sea level, from topographic map.

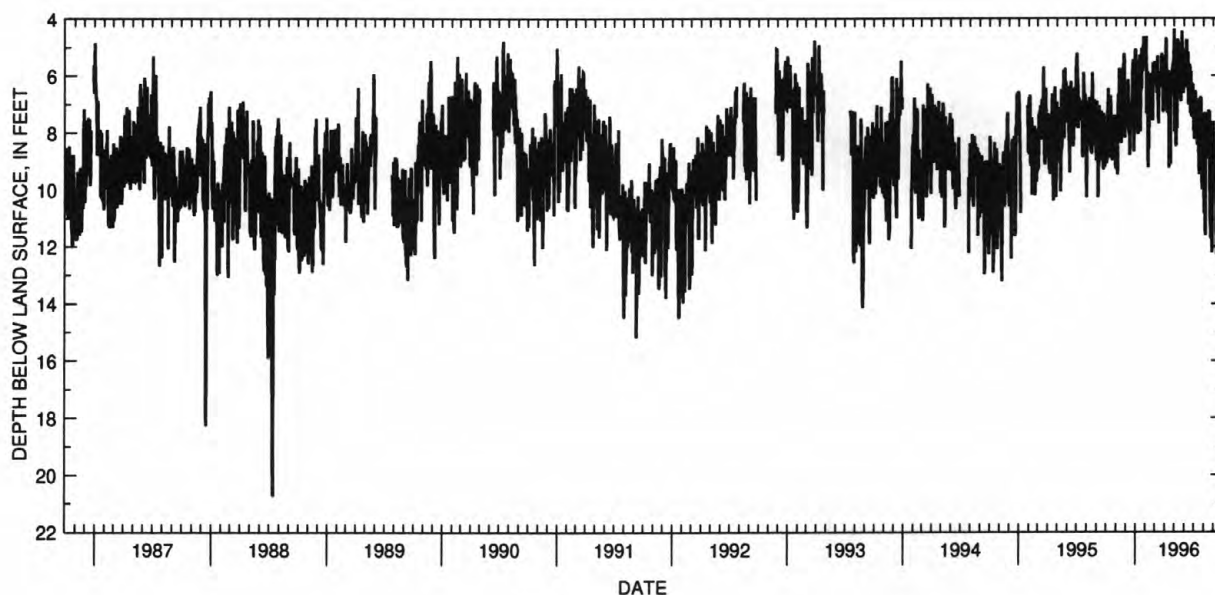
Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 20.74 ft below land-surface datum, July 14, 1988;
minimum daily low, 1.43 ft below land-surface datum, Apr. 29, 1950.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.94	8.12	7.06	5.12	---	5.51	6.07	4.36	5.48	7.94	8.60	7.61
2	7.71	7.66	7.10	5.08	---	5.94	5.44	7.96	5.53	7.79	10.83	9.06
3	9.09	7.52	7.13	6.50	4.62	6.05	5.93	6.82	5.42	8.20	8.44	8.33
4	8.26	7.49	7.21	6.68	4.99	6.35	6.08	6.83	6.25	8.21	7.29	9.21
5	7.83	7.51	7.31	6.19	7.34	6.10	5.03	4.97	6.42	6.58	11.26	8.95
6	7.25	9.47	7.37	6.30	6.74	6.00	4.66	8.37	5.62	6.58	11.60	9.30
7	7.28	7.79	7.38	7.04	6.78	5.95	5.80	8.47	5.71	6.63	8.14	8.37
8	6.46	6.65	7.43	7.83	5.86	6.61	6.74	6.10	5.48	7.68	7.55	9.49
9	8.07	7.17	6.15	8.06	9.22	6.56	7.23	5.60	4.72	8.21	8.91	11.05
10	7.19	7.31	7.37	6.57	6.74	5.31	7.25	7.84	5.22	7.35	7.94	12.13
11	8.80	7.26	7.84	6.72	8.22	5.99	6.45	5.50	5.51	7.79	7.46	12.30
12	7.66	5.75	8.03	6.71	8.56	7.22	6.50	4.71	5.36	8.43	7.37	---
13	8.88	6.02	7.54	5.75	6.76	7.67	5.82	4.84	5.17	7.54	7.32	---
14	7.79	8.03	8.79	5.28	6.28	6.56	6.39	4.87	6.87	6.94	8.19	---
15	6.71	7.37	7.99	7.68	6.33	6.38	9.24	6.07	7.01	6.83	8.67	---
16	7.16	8.09	7.39	7.95	6.24	6.37	7.29	6.53	5.78	8.41	7.21	---
17	8.76	8.37	7.47	6.83	6.18	6.31	6.64	6.06	5.62	9.09	7.35	---
18	7.82	7.09	6.92	6.57	5.93	6.26	6.63	5.22	5.65	9.45	7.29	---
19	8.41	7.05	7.04	6.04	6.05	6.28	9.11	5.15	5.69	7.16	7.29	---
20	8.97	7.02	7.21	6.47	7.39	6.06	6.98	5.10	5.79	7.02	11.00	---
21	7.77	7.01	7.83	5.04	6.74	6.10	5.95	6.42	7.31	6.91	8.82	---
22	7.60	7.07	7.25	5.72	6.63	6.16	6.43	6.90	5.85	6.81	11.47	---
23	7.64	5.74	5.91	5.84	7.57	5.22	6.37	5.44	6.51	6.76	11.72	---
24	7.61	6.50	5.68	5.62	7.42	5.59	5.97	5.41	7.43	6.81	8.08	---
25	7.59	5.53	5.44	5.70	5.54	6.01	5.90	4.43	6.26	8.19	7.61	---
26	7.47	5.35	6.32	4.63	5.82	6.16	5.93	4.88	6.43	9.52	11.50	---
27	7.40	5.23	8.68	---	5.87	6.17	5.61	5.13	7.48	9.97	12.21	---
28	7.51	8.05	7.67	---	5.94	7.28	5.58	5.19	6.47	8.69	10.34	---
29	7.54	8.18	7.37	---	6.02	6.45	5.58	5.09	6.31	8.18	9.41	---
30	8.98	7.05	5.73	---	---	6.33	5.27	6.61	7.41	8.55	9.33	---
31	9.27	---	5.28	---	---	5.31	---	5.11	---	8.33	8.46	---
MAX	9.27	9.47	8.79	8.06	9.22	7.67	9.24	8.47	7.48	9.97	12.21	12.30

CAL YR 1995 LOW 10.81
WTR YR 1996 LOW 12.30

GROUND-WATER RECORDS

237

KNOX COUNTY--Continued

402747082374300. Local number, K-4.

LOCATION.--Lat 40°27'47", long 82°37'43", Hydrologic Unit 05040003, near Fredericktown.

Owner: Delco Water Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused observation well, diameter 6 in., depth 151 ft, cased.

INSTRUMENTATION.--Type F graphic recorder.

DATUM.--Elevation of land-surface datum is 1,085 ft above sea level, from topographic map.

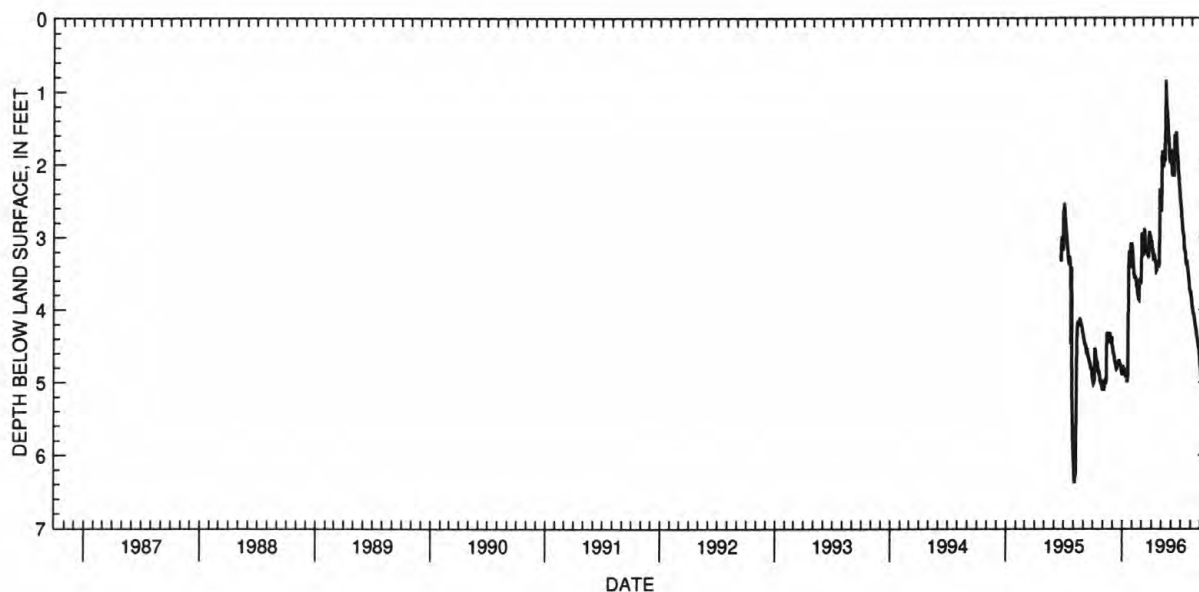
Measuring point: Floor of instrument shelter 1.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 19, 1995 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 6.37 ft below land-surface datum, Aug. 4-5, 1995;
minimum daily low, 0.84 ft below land-surface datum, May 12, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.99	5.10	4.56	4.84	3.30	2.96	3.18	1.81	2.10	2.69	3.83	4.88
2	5.02	5.04	4.59	4.79	3.37	3.04	3.17	1.89	2.14	2.73	3.86	4.92
3	5.01	5.02	4.59	4.83	3.44	3.20	3.17	1.95	2.14	2.81	3.91	4.95
4	4.96	5.05	4.62	4.84	3.50	3.25	3.26	2.02	2.14	2.86	3.94	4.98
5	4.96	5.06	4.62	4.88	3.52	3.21	3.25	2.03	2.13	2.91	3.98	5.01
6	4.53	5.04	4.66	4.88	3.57	3.12	3.23	1.90	2.14	2.94	4.01	5.05
7	4.54	5.00	4.70	4.83	3.56	2.87	3.25	1.93	2.14	2.95	4.04	5.05
8	4.58	5.01	4.72	4.84	3.54	2.96	3.26	1.94	1.77	2.99	4.06	5.10
9	4.62	5.02	4.73	4.83	3.56	3.04	3.30	1.93	1.60	3.10	4.05	5.13
10	4.67	4.99	4.74	4.91	3.56	3.16	3.31	1.57	1.61	3.17	4.09	5.18
11	4.70	4.97	4.78	4.91	3.60	3.18	3.33	1.56	1.65	3.18	4.11	5.20
12	4.71	4.49	4.81	4.89	3.66	3.18	3.34	.84	1.67	3.18	4.14	5.20
13	4.71	4.32	4.82	4.90	3.69	3.14	3.41	1.07	1.55	3.21	4.19	5.22
14	4.72	4.32	4.81	4.92	3.67	3.14	3.46	1.17	1.65	3.26	4.22	5.28
15	4.77	4.33	4.73	4.98	3.74	3.14	3.45	1.24	1.72	3.31	4.24	5.32
16	4.84	4.39	4.74	4.98	3.79	3.14	3.40	1.26	1.80	3.35	4.26	5.35
17	4.86	4.44	4.77	4.89	3.79	3.22	3.42	1.32	1.85	3.39	4.30	5.35
18	4.86	4.44	4.76	4.09	3.85	3.22	3.39	1.45	1.91	3.38	4.34	5.39
19	4.88	4.34	4.71	3.28	3.85	3.26	3.39	1.51	1.97	3.37	4.36	5.42
20	4.87	4.35	4.70	3.18	3.86	3.26	3.38	1.58	2.06	3.42	4.38	5.45
21	4.88	4.31	4.70	3.32	3.64	3.11	3.41	1.66	2.12	3.43	4.42	5.46
22	4.95	4.34	4.73	3.40	3.59	2.91	3.40	1.76	2.18	3.47	4.44	5.47
23	4.97	4.37	4.75	3.40	3.57	2.93	3.33	1.85	2.25	3.53	4.49	5.53
24	5.00	4.41	4.75	3.35	3.62	3.01	2.33	1.92	2.30	3.57	4.51	5.56
25	5.01	4.43	4.76	3.07	3.65	3.01	2.35	1.91	2.38	3.61	4.53	5.58
26	5.00	4.42	4.77	3.09	3.63	2.96	2.53	1.94	2.44	3.69	4.56	5.63
27	4.96	4.40	4.79	3.07	3.50	3.04	2.61	1.97	2.49	3.73	4.62	5.63
28	5.04	4.37	4.84	3.09	3.00	3.10	2.65	1.79	2.54	3.74	4.70	5.63
29	5.08	4.49	4.87	3.09	2.93	3.10	2.63	1.90	2.58	3.76	4.75	5.63
30	5.10	4.50	4.88	3.16	---	3.04	1.89	1.98	2.60	3.77	4.80	5.46
31	5.10	---	4.88	3.24	---	3.08	---	2.05	---	3.75	4.82	---
MAX	5.10	5.10	4.88	4.98	3.86	3.26	3.46	2.05	2.60	3.77	4.82	5.63

CAL YR 1995 LOW 6.37
WTR YR 1996 LOW 5.63

GROUND-WATER RECORDS

LICKING COUNTY

400848082251100. Local number, LI-4

LOCATION.--Lat 40°08'48", long 82°25'11", Hydrologic Unit 05040006, near St. Louisville.

Owner: City of Newark

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 79 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 885 ft above sea level, from topographic map.

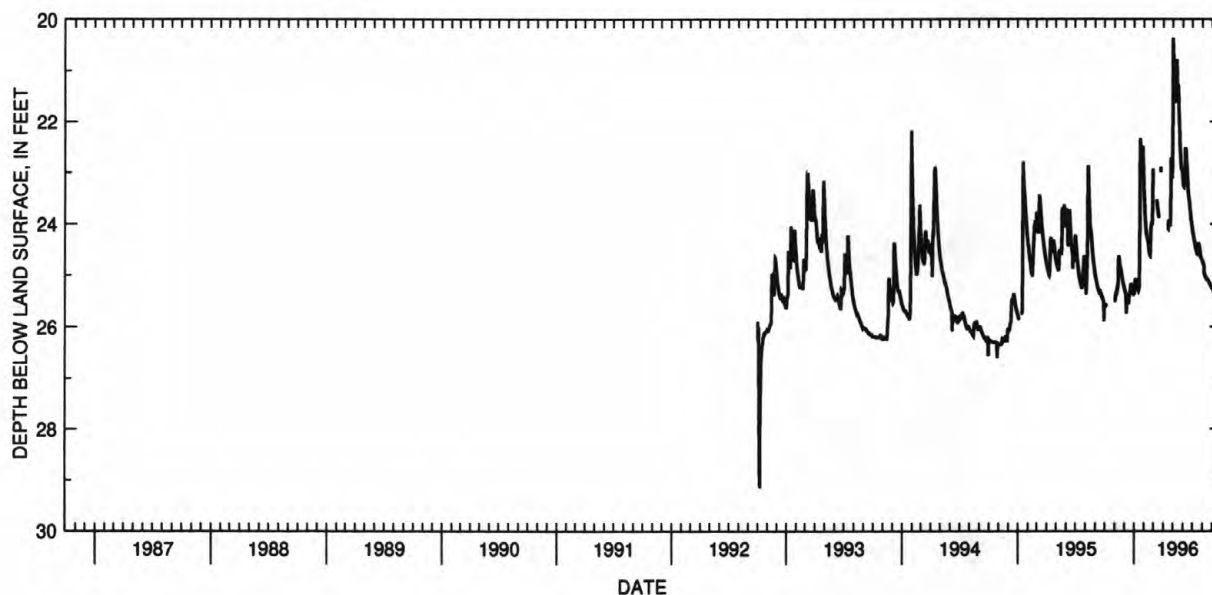
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 29.15 ft below land-surface datum, Oct. 8 1992;
minimum daily low, 20.36 ft below land-surface, May 1, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.60	25.50	25.24	25.36	23.30	---	---	20.36	23.10	24.10	24.72	25.26
2	25.60	25.50	25.26	25.35	23.47	---	---	20.57	23.19	24.14	24.74	25.27
3	25.60	25.49	25.30	25.22	23.64	---	---	20.98	23.25	24.19	24.76	25.28
4	25.60	25.41	25.32	25.14	23.78	---	---	21.31	23.26	24.23	24.78	25.29
5	25.58	25.36	25.34	25.09	23.90	23.55	---	21.34	23.14	24.26	24.80	25.30
6	25.55	25.34	25.36	25.07	24.01	---	---	21.32	23.11	24.30	24.81	25.31
7	---	25.34	25.38	25.10	24.09	---	---	21.38	23.13	24.32	24.97	25.31
8	---	25.34	25.74	25.13	24.17	---	---	21.60	22.96	24.36	24.99	25.30
9	---	25.27	25.44	25.16	24.21	---	---	21.63	22.51	24.40	25.00	25.31
10	---	25.23	25.46	25.19	24.24	---	---	21.32	22.54	24.44	25.02	25.31
11	---	25.25	25.48	25.20	24.27	---	---	21.42	22.58	24.46	25.03	25.32
12	---	25.18	25.50	25.23	24.29	23.53	---	21.11	22.72	24.48	25.04	25.32
13	---	24.77	25.51	25.25	24.31	23.61	---	20.78	22.83	24.51	25.05	25.34
14	---	24.63	25.53	25.28	24.37	23.67	---	21.16	22.95	24.53	25.06	25.35
15	---	24.65	25.53	25.29	24.42	23.73	24.07	21.43	23.07	24.56	25.08	25.36
16	---	24.71	25.43	25.26	24.47	23.77	24.08	21.43	23.19	24.59	25.08	25.36
17	---	24.76	25.37	25.23	24.51	23.83	24.00	21.27	23.29	24.60	25.09	25.36
18	---	24.83	25.35	25.00	24.56	23.88	23.92	21.38	23.39	24.60	25.10	25.36
19	---	24.84	25.34	24.08	24.60	---	23.97	21.60	23.46	24.54	25.11	25.36
20	---	24.86	25.32	22.33	24.61	---	24.03	21.84	23.50	24.38	25.12	25.37
21	---	24.89	25.23	22.43	24.45	---	24.02	22.08	23.54	24.37	25.13	25.37
22	---	24.93	25.19	22.74	24.15	---	24.02	22.28	23.61	24.43	25.14	25.38
23	---	24.98	25.19	22.99	24.03	---	24.02	22.46	23.68	24.48	25.15	25.39
24	---	25.02	25.22	23.00	24.00	22.89	23.64	22.62	23.75	24.52	25.16	25.39
25	---	25.06	25.25	22.63	23.97	22.99	22.71	22.73	23.81	24.56	25.17	25.40
26	---	25.08	25.27	22.51	24.01	---	22.85	22.83	23.87	24.65	25.18	25.40
27	---	25.13	25.31	22.64	23.96	---	22.95	22.93	23.92	24.64	25.20	25.41
28	---	25.16	25.34	22.48	23.53	---	23.08	22.93	23.97	24.65	25.21	25.41
29	---	25.19	25.33	22.66	22.93	---	23.11	22.90	24.01	24.67	25.22	25.32
30	25.50	25.21	25.34	22.87	---	---	22.41	22.93	24.06	24.69	25.23	25.20
31	25.50	---	25.35	23.09	---	---	---	23.01	---	24.71	25.25	---
MAX	25.60	25.50	25.74	25.36	24.61	23.88	24.08	23.01	24.06	24.71	25.25	25.41

CAL YR 1995 LOW 25.89
WTR YR 1996 LOW 25.74

GROUND-WATER RECORDS

239

LOGAN COUNTY

401510083444400. Local number, LO-3

LOCATION.--Lat 40°15'10", long 83°44'44", Hydrologic Unit 05080001, at West Liberty.

Owner: City of West Liberty

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 71 ft, cased.

INSTRUMENTATION.--Type F graphic recorder.

DATUM.--Elevation of land-surface datum is 1090 ft above sea level, from topographic map.

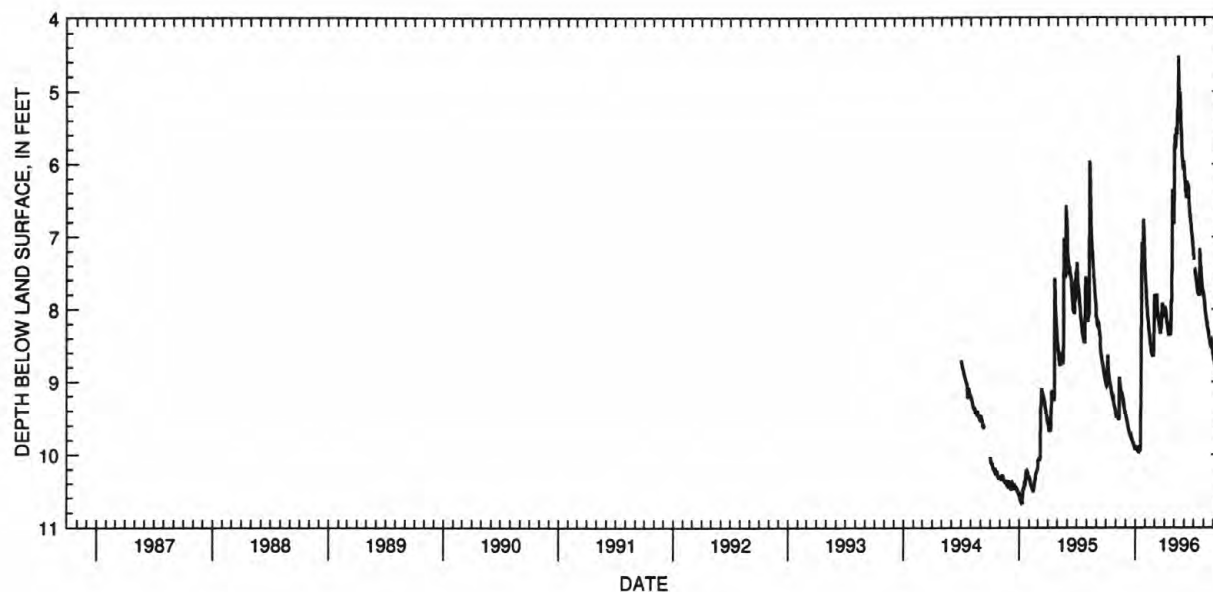
Measuring point: Floor of instrument shelter 3.5 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1994 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.67 ft below land-surface datum, Jan. 9-11, 1995;
minimum daily low, 4.52 ft below land-surface, May 12, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.02	9.44	9.44	9.92	7.60	7.90	8.09	5.60	6.18	7.32	7.83	8.68
2	9.06	9.43	9.47	9.91	7.67	7.94	7.96	5.70	6.23	---	7.87	8.71
3	9.03	9.44	9.48	9.90	7.78	8.01	8.06	5.78	6.27	7.44	7.90	8.73
4	9.05	9.44	9.50	9.91	7.84	8.08	8.00	5.77	6.37	7.44	7.99	8.75
5	9.04	9.48	9.53	9.92	7.93	8.07	8.10	5.55	6.40	7.50	8.01	8.77
6	8.63	9.47	9.54	9.88	8.00	7.92	8.12	5.50	6.47	7.52	8.05	8.77
7	8.77	9.49	9.58	9.93	8.08	7.79	8.14	5.58	6.38	7.55	8.08	8.81
8	8.83	9.50	9.59	9.93	8.12	7.94	8.18	5.60	6.23	7.59	8.11	8.81
9	8.87	9.51	9.62	9.93	8.15	8.02	8.20	5.23	6.25	7.60	8.15	8.84
10	8.91	9.53	9.63	9.94	8.22	8.06	8.25	5.34	6.38	7.69	8.18	8.84
11	8.96	9.48	9.67	9.92	8.27	8.09	8.28	5.24	6.41	7.72	8.17	8.84
12	8.99	8.94	9.68	9.93	8.30	8.13	8.32	4.52	6.28	7.74	8.23	8.88
13	9.00	9.00	9.71	9.90	8.35	8.13	8.32	4.88	6.35	7.77	8.26	8.88
14	9.03	9.05	9.71	9.93	8.36	8.18	8.35	5.05	6.46	7.79	8.29	8.89
15	9.06	9.08	9.73	9.94	8.42	8.20	8.35	5.12	6.53	7.79	8.28	8.93
16	9.08	9.10	9.74	9.94	8.47	8.25	8.30	5.07	6.60	7.78	8.35	8.93
17	9.12	9.15	9.75	9.87	8.50	8.29	8.32	5.01	6.65	7.82	8.38	8.87
18	9.15	9.16	9.76	9.49	8.52	8.32	8.34	5.21	6.70	7.79	8.40	8.87
19	9.17	9.17	9.75	8.15	8.59	8.34	8.36	5.33	6.72	7.16	8.41	8.89
20	9.17	9.15	9.78	7.08	8.61	8.24	8.27	5.45	6.80	7.29	8.45	8.92
21	9.21	9.19	9.79	7.25	8.61	8.27	7.89	5.57	6.81	7.41	8.48	8.92
22	9.24	9.24	9.79	7.40	8.63	8.05	7.90	5.70	6.85	7.39	8.51	8.95
23	9.24	9.24	9.83	7.39	8.62	8.07	7.89	5.80	6.93	7.45	8.52	8.96
24	9.23	9.29	9.84	7.14	8.64	7.99	6.35	5.92	6.95	7.56	8.38	8.98
25	9.30	9.28	9.82	6.76	8.62	7.91	6.40	5.94	7.01	7.60	8.47	9.00
26	9.31	9.30	9.87	6.93	8.66	7.98	6.55	6.03	7.05	7.67	8.48	9.01
27	9.33	9.36	9.86	6.98	8.58	8.03	6.67	6.07	7.11	7.72	8.54	8.95
28	9.35	9.40	9.87	7.15	8.02	8.03	6.82	5.99	7.17	7.74	8.57	8.60
29	9.37	9.41	9.90	7.27	7.80	8.06	6.80	5.96	7.23	7.81	8.57	8.23
30	9.38	9.43	9.89	7.42	---	8.05	5.75	6.07	7.25	7.81	8.64	8.33
31	9.42	---	9.92	7.53	---	8.08	---	6.12	---	7.80	8.66	---
MAX	9.42	9.53	9.92	9.94	8.66	8.34	8.36	6.12	7.25	7.82	8.66	9.01

CAL YR 1995 LOW 10.67
WTR YR 1996 LOW 9.94

GROUND-WATER RECORDS

MADISON COUNTY

395301083272200. Local number, M-2.

LOCATION.--Lat 39°53'01", long 83°27'22", Hydrologic Unit 05060002, U.S. 42 and Westmore Dr., London.

Owner: State of Ohio

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 350 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1035 ft above sea level, from topographic map.

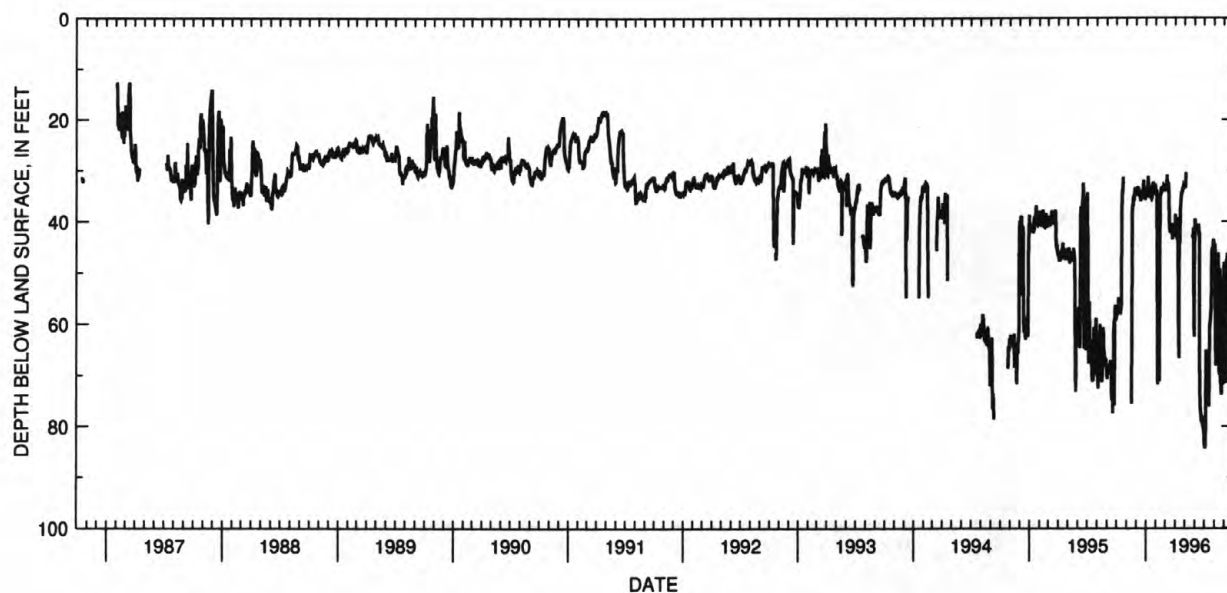
Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 84.39 ft below land-surface datum, July 3, 1996;
minimum daily low, 0.55 ft above land-surface, Apr. 13, 1980.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57.50	---	33.55	33.24	33.28	33.38	43.03	32.54	45.79	83.12	44.63	49.30
2	58.53	---	34.97	35.14	34.45	33.76	40.39	33.44	42.63	83.71	44.47	47.92
3	57.87	---	34.25	33.69	33.87	33.72	38.62	32.91	39.47	84.39	44.53	61.29
4	58.07	---	34.63	33.78	34.15	33.15	42.04	33.48	41.81	83.93	44.75	68.68
5	56.49	---	33.75	34.43	34.22	32.68	41.42	30.32	41.55	83.89	61.19	71.14
6	57.47	---	34.27	35.23	62.68	32.94	42.41	---	41.07	72.44	68.05	71.50
7	57.56	---	33.15	33.28	71.76	30.85	39.28	---	41.64	65.08	67.10	55.25
8	54.77	---	34.44	31.11	61.61	32.82	42.90	---	41.64	69.81	49.35	49.23
9	57.15	---	35.01	34.17	35.92	33.22	43.56	---	40.86	70.67	47.82	47.57
10	57.01	---	33.38	35.34	---	33.61	42.23	---	41.61	72.52	47.18	47.99
11	56.54	---	34.82	34.06	---	32.31	41.75	---	40.86	71.65	65.67	47.03
12	57.02	---	34.49	33.47	65.11	33.05	58.01	---	41.30	72.87	65.53	46.16
13	57.14	---	34.49	34.92	71.16	35.37	66.59	---	40.55	70.02	48.24	46.61
14	58.15	---	35.11	34.66	46.20	39.77	49.68	---	41.38	73.46	46.11	47.62
15	56.65	---	35.15	34.65	35.88	40.86	44.51	---	42.87	75.54	47.23	46.68
16	57.08	---	36.02	35.15	34.55	41.90	43.80	---	42.11	76.19	67.69	56.43
17	55.13	---	35.23	33.45	34.84	42.18	43.47	---	67.34	69.40	69.91	57.81
18	38.45	75.55	34.73	35.21	33.34	41.87	37.63	---	74.04	60.97	53.25	58.42
19	35.15	45.09	33.87	35.60	34.64	41.46	35.78	---	76.76	59.91	49.30	59.24
20	33.59	38.55	34.50	35.35	33.55	41.01	36.08	---	77.29	59.47	69.44	59.78
21	34.20	36.53	34.58	32.81	33.30	41.25	34.75	---	77.52	58.86	71.34	59.75
22	31.32	37.04	35.15	34.61	33.57	40.39	34.13	---	78.96	57.41	71.64	59.10
23	---	35.21	35.58	34.58	33.63	42.35	34.39	---	78.71	57.05	73.34	59.00
24	---	36.13	33.47	32.27	33.03	42.76	34.30	---	79.28	51.87	73.83	58.03
25	---	35.70	31.84	33.15	33.86	43.49	33.88	---	78.94	46.35	70.60	63.43
26	---	34.54	34.48	33.51	33.13	41.46	33.21	42.60	78.84	45.12	50.92	58.94
27	---	34.97	35.18	34.16	33.25	41.95	33.70	43.00	80.16	46.14	63.51	59.44
28	---	33.34	34.49	34.28	32.69	42.31	32.94	43.04	79.26	45.68	71.64	59.44
29	---	34.74	35.75	34.26	33.86	42.15	33.11	41.23	80.84	45.18	71.84	60.04
30	---	33.57	35.45	32.74	---	42.58	32.79	58.80	80.86	43.42	68.00	60.46
31	---	---	34.84	33.46	---	40.71	---	62.47	---	44.03	51.77	---
MAX	58.53	75.55	36.02	35.60	71.76	43.49	66.59	62.47	80.86	84.39	73.83	71.50
CAL YR 1995	LOW 77.39											
WTR YR 1996	LOW 84.39											



GROUND-WATER RECORDS

241

MADISON COUNTY--Continued

395352083292100. Local number, M-5.

LOCATION.--Lat 39°53'52", long 83°29'21", Hydrologic Unit 05060002, at London Correctional Institute near London, Ohio.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,090 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1, 1986 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.65 ft below land-surface datum, Jan. 17, 1992;

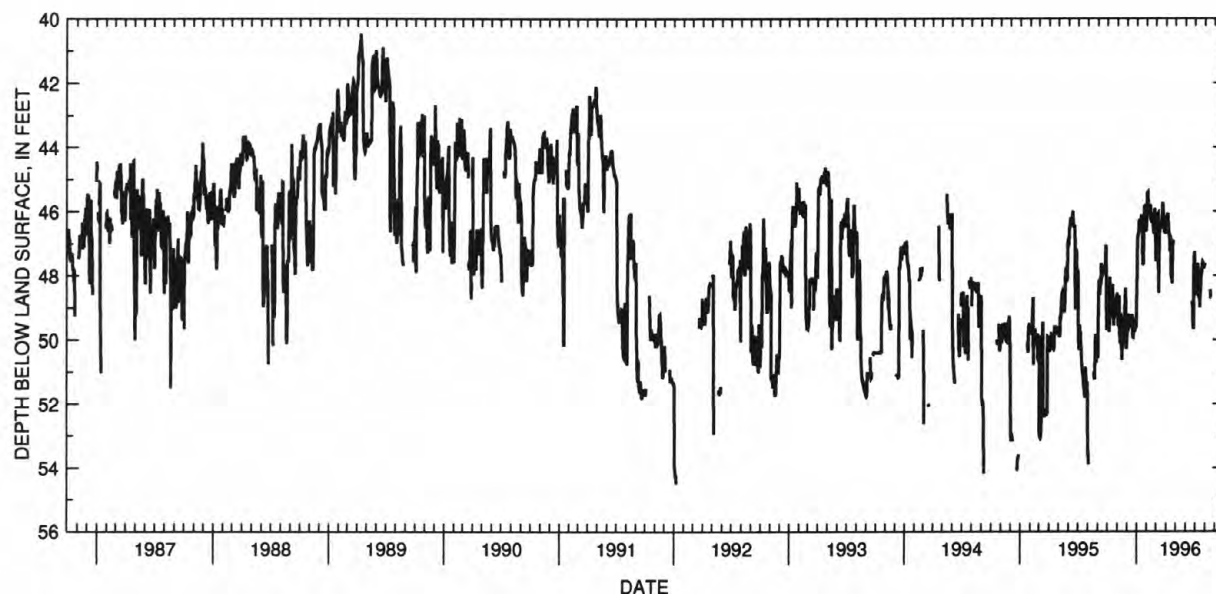
minimum daily low, 40.47 ft below land-surface datum, Apr. 11, 1989.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48.73	48.86	49.54	48.06	45.44	46.96	46.23	---	---	47.94	---	---
2	48.46	49.36	49.76	46.79	45.42	46.80	46.25	---	---	47.85	---	---
3	49.06	49.59	49.64	46.77	45.40	46.51	46.17	---	---	48.02	---	---
4	49.34	49.39	49.75	46.71	45.54	46.10	46.12	---	---	48.13	---	---
5	49.10	49.00	49.47	46.69	45.88	46.10	46.13	---	---	48.14	---	---
6	49.76	48.63	49.22	46.49	45.92	46.09	46.06	---	---	48.22	---	---
7	48.20	49.58	49.21	46.26	46.00	47.23	46.42	---	---	48.23	---	---
8	48.05	49.96	49.43	46.32	46.03	48.55	46.58	---	---	47.62	---	---
9	48.63	50.11	49.34	46.38	46.09	47.38	46.68	---	---	47.77	---	---
10	48.96	49.90	49.29	46.59	46.09	47.09	46.74	---	---	47.86	---	---
11	49.31	49.18	49.30	46.59	45.79	46.57	46.73	---	---	48.53	---	---
12	48.77	49.25	49.48	46.51	46.22	46.30	47.23	---	---	48.72	---	---
13	48.68	49.65	49.48	46.21	46.24	46.34	46.90	---	---	48.16	---	---
14	48.40	50.50	49.59	46.11	46.29	46.40	46.75	---	---	48.03	---	---
15	48.33	50.63	49.62	46.23	46.35	46.47	47.10	---	---	49.00	---	---
16	48.28	50.24	49.23	46.29	46.15	46.52	48.08	---	---	48.48	48.45	---
17	48.71	49.69	49.26	46.36	46.09	46.50	47.00	---	---	48.47	48.55	---
18	49.09	49.80	49.77	47.31	46.17	46.25	47.88	---	---	48.18	48.68	---
19	49.15	49.85	49.92	47.68	46.24	46.03	48.25	---	---	47.94	48.69	---
20	49.55	49.76	49.93	47.59	46.51	45.77	47.70	---	---	47.91	---	---
21	48.93	50.05	49.67	47.24	46.65	45.78	47.05	---	48.81	47.84	---	---
22	48.73	50.09	49.55	46.51	46.66	46.03	46.88	---	49.03	47.67	---	---
23	48.86	49.77	49.71	46.26	46.10	46.20	47.00	---	49.26	47.58	---	---
24	49.16	48.94	49.72	45.88	45.92	46.20	---	---	49.56	47.60	---	---
25	49.21	48.63	49.72	45.89	45.97	46.39	---	---	49.67	47.63	---	---
26	49.20	48.39	49.34	45.79	46.45	46.64	---	---	47.92	47.72	---	---
27	49.14	49.53	49.48	45.98	46.51	46.68	---	---	47.43	47.78	---	---
28	49.25	50.15	49.54	46.12	47.55	46.65	---	---	47.24	47.74	---	---
29	48.92	50.28	49.63	46.63	47.45	46.66	---	---	47.97	47.68	---	---
30	48.55	50.00	49.06	46.45	---	46.69	---	---	48.64	47.62	---	---
31	48.76	---	48.36	45.94	---	46.27	---	---	---	---	---	---
MAX	49.76	50.63	49.93	48.06	47.55	48.55	48.25	---	49.67	49.00	48.69	---

CAL YR 1995 LOW 53.89

WTR YR 1996 LOW 50.63



GROUND-WATER RECORDS

MADISON COUNTY--Continued.

395357083304400. Local number, M-4.

LOCATION.--Lat 39°53'57", long 83°30'44" Hydrologic Unit 05060002, 3.5 mi northwest of London, Ohio.

Owner.--State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 10 in., depth 49 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1,112 ft above sea level, from topographic map.

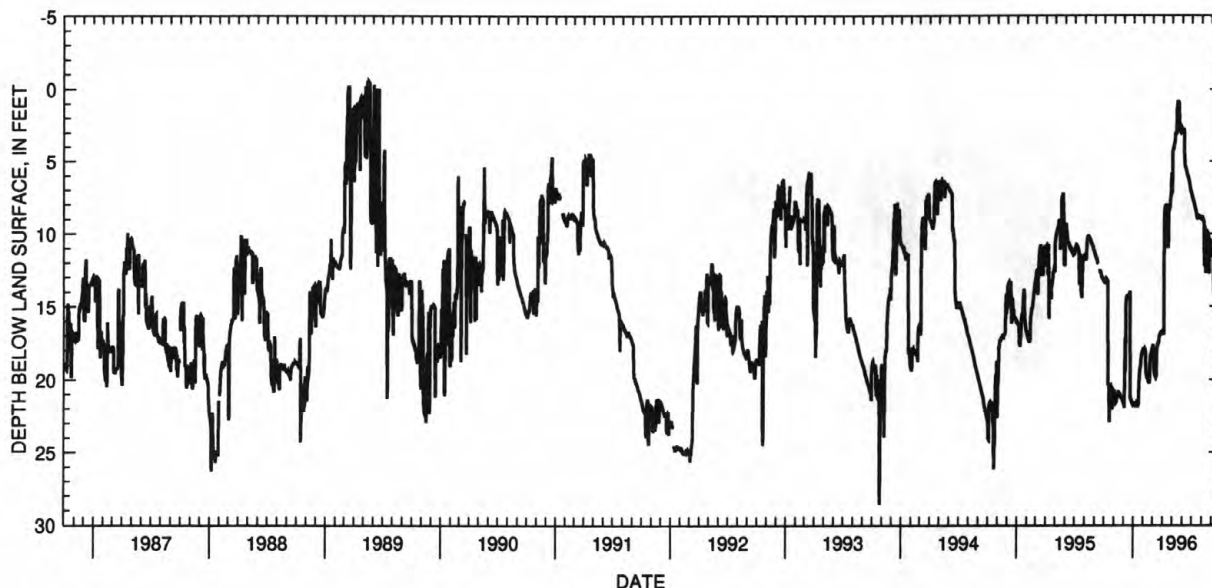
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 28.60 ft below land-surface datum, Oct. 26, 1994;
minimum daily low 0.50 ft above land-surface datum, May 13-14, 16, 1989.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.30	20.80	21.65	21.70	17.90	17.75	16.80	4.35	2.80	7.40	8.85	10.80
2	13.35	20.80	21.70	21.80	17.90	17.60	16.80	4.20	2.80	7.45	8.85	10.85
3	13.35	21.10	21.75	21.65	17.85	17.85	16.55	4.15	2.80	7.55	8.95	11.05
4	13.40	21.15	21.95	21.70	17.95	19.05	16.95	4.15	2.75	7.65	9.00	11.00
5	13.40	21.10	19.25	21.75	17.95	19.40	9.20	4.00	2.75	7.75	9.05	11.05
6	13.30	21.10	17.20	21.65	17.95	19.50	8.60	3.80	2.75	7.80	9.20	13.30
7	13.20	21.55	19.45	21.60	17.90	19.60	8.20	3.75	4.60	7.90	9.15	13.85
8	13.25	21.50	14.90	21.60	18.95	19.70	8.15	3.70	5.15	7.95	12.10	14.10
9	13.20	21.20	14.45	21.70	19.55	19.80	8.10	3.25	5.35	8.15	12.25	14.35
10	13.25	21.20	14.40	21.70	19.60	19.85	8.10	3.05	5.40	8.25	9.50	14.45
11	13.30	21.10	14.35	21.60	19.65	19.80	8.05	3.05	5.45	8.30	12.20	13.80
12	13.30	21.15	14.30	21.65	19.85	19.75	8.05	3.00	5.55	8.35	12.20	13.85
13	20.40	21.10	14.30	21.65	19.85	18.45	8.05	3.15	5.65	8.40	12.75	13.95
14	20.25	20.85	14.30	21.85	19.40	17.90	8.30	1.55	5.75	8.60	9.85	14.10
15	20.30	20.85	14.30	21.85	19.95	17.70	9.45	1.25	5.85	8.70	11.05	14.25
16	20.40	20.90	14.35	21.75	20.10	17.60	9.50	1.00	5.95	8.85	11.25	14.25
17	22.85	20.95	14.40	21.60	20.10	17.50	11.00	.80	6.00	8.95	9.95	14.45
18	22.85	20.95	14.25	20.70	20.20	17.50	10.75	.85	6.00	8.95	9.90	14.55
19	20.80	21.00	14.15	20.00	20.20	17.50	8.30	.85	6.10	8.75	9.95	14.65
20	20.80	21.00	14.10	19.50	20.25	17.30	8.25	.90	6.25	8.75	10.05	14.70
21	20.55	21.10	13.95	19.30	19.00	17.05	8.30	1.00	6.30	8.75	11.30	14.70
22	20.50	21.15	21.35	19.15	18.55	17.00	8.30	2.20	6.45	8.80	10.15	14.85
23	20.60	21.25	21.20	19.00	18.35	17.00	8.20	2.65	6.45	8.85	12.80	14.95
24	20.45	21.25	21.30	18.65	18.30	16.90	7.75	2.90	6.70	8.90	10.50	15.05
25	21.40	21.25	21.40	18.55	18.25	16.75	7.50	2.95	6.80	8.90	10.35	15.15
26	22.05	21.20	21.45	18.30	18.10	16.90	7.45	2.95	6.95	8.90	11.65	16.45
27	21.95	21.20	21.60	18.15	18.10	16.90	6.40	3.00	7.05	8.95	10.45	15.25
28	20.70	21.50	21.65	18.25	17.90	16.75	5.80	2.95	7.15	8.95	10.55	15.35
29	20.80	21.50	21.70	18.05	17.90	16.75	7.30	2.95	7.15	8.90	10.65	15.40
30	20.75	21.55	21.65	18.00	---	16.75	6.85	2.70	7.25	8.95	10.90	15.45
31	20.80	---	21.65	17.95	---	16.65	---	2.75	---	8.85	10.70	---
MAX	22.85	21.55	21.95	21.85	20.25	19.85	16.95	4.35	7.25	8.95	12.80	16.45

CAL YR 1995 LOW 22.85
WTR YR 1996 LOW 22.85

GROUND-WATER RECORDS

243

MADISON COUNTY--Continued

395740083255700. Local number, M-3.

LOCATION.--Lat 39°57'40", long 83°25'57", Hydrologic Unit 05060002, 5.2 mi north of London.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 290 ft, cased to 145 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,020 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--November 1974 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum measured low, 12.01 ft below land-surface datum, Dec. 18, 1991;
minimum daily low, 3.93 ft below land-surface datum, Feb. 25, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 20, 1995	6.40
Mar. 18, 1996	5.35
May 23, 1996	4.92

GROUND-WATER RECORDS

MAHONING COUNTY

410042080453800. Local number, MA-1.

LOCATION.--Lat 41°00'42", long 80°45'38", Hydrologic Unit, 05030103, in county fairgrounds at south edge of Canfield.

Owner: Canfield Water Department.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 170 ft, cased to 99.5 ft.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 1,160 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter at land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Influenced by seasonal water demand at county fairgrounds.

PERIOD OF RECORD.--May 1946 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 110.75 ft below land-surface datum, Sept. 18, 1946;
minimum measured low, 29.42 ft below land-surface datum, Apr. 1, 1993.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 19, 1995	34.72	Apr. 10, 1996	32.47

GROUND-WATER RECORDS

245

MARION COUNTY

403413083170500. Local number, MN-4.

LOCATION.--Lat 40°34'13", long 83°17'05", Hydrologic Unit 05060001, 1.9 mi southeast of New Bloomington.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth drilled 290 ft, present depth 286 ft, cased to 33 ft.

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

DATUM.--Elevation of land-surface datum is 915.96 ft above sea level.

Measuring point: Floor of shelter 3.00 ft above land-surface datum.

REMARKS.--Influenced by seasonal water demand for nearby wildlife refuge.

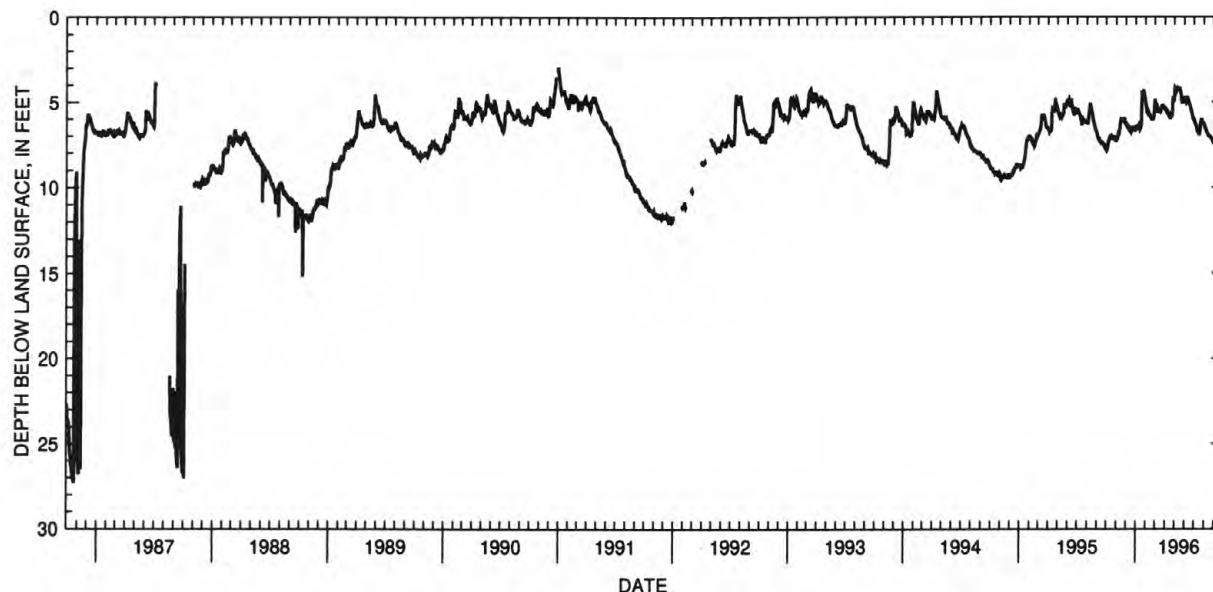
PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.57 ft below land-surface datum, Aug. 14, 1983;
minimum daily low, 0.61 ft below land-surface datum, Mar. 18, 1974.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.80	7.25	6.25	6.45	5.05	4.85	5.45	4.45	4.90	6.10	6.35	7.40
2	7.85	7.05	6.35	6.45	5.20	5.00	5.45	4.20	4.95	6.10	6.35	7.45
3	7.80	7.15	6.35	6.45	5.35	5.25	5.35	4.25	4.90	6.20	6.45	7.45
4	7.80	7.20	6.40	6.55	5.55	5.30	5.50	4.40	4.95	6.25	6.52	7.50
5	7.75	7.15	6.45	6.60	5.60	5.15	5.55	4.45	5.00	6.30	6.50	7.55
6	7.45	7.05	6.45	6.60	5.65	5.15	5.50	4.40	4.95	6.35	6.55	7.55
7	7.35	6.90	6.50	6.45	5.60	5.25	5.50	4.30	4.85	6.35	6.65	7.50
8	7.35	6.95	6.55	6.45	5.55	5.35	5.55	4.25	4.85	6.40	6.70	7.55
9	7.30	6.95	6.50	6.40	5.65	5.55	5.60	4.30	4.75	6.55	6.75	7.60
10	7.15	6.80	6.55	6.50	5.65	5.65	5.65	4.25	4.75	6.65	6.80	7.70
11	7.15	6.65	6.60	6.50	5.70	5.60	5.65	4.15	4.80	6.75	6.85	7.70
12	7.10	6.65	6.70	6.35	5.80	5.50	5.65	4.10	4.85	6.75	6.85	7.65
13	7.05	6.35	6.75	6.40	5.80	5.50	5.65	4.20	4.90	6.75	6.90	7.65
14	6.95	6.15	6.65	6.45	5.70	5.50	5.90	4.35	4.95	6.85	6.95	7.70
15	7.00	6.10	6.70	6.60	5.85	5.55	5.85	4.30	5.05	6.85	7.05	7.75
16	7.15	6.15	6.75	6.55	5.90	5.55	5.75	4.25	5.15	6.90	7.00	7.80
17	7.15	6.20	6.80	6.40	5.90	5.55	5.95	4.15	5.15	6.90	7.00	7.75
18	7.10	6.10	6.75	6.35	6.00	5.60	5.95	4.25	5.20	6.90	7.00	7.85
19	7.15	6.10	6.60	5.45	6.00	5.55	5.90	4.35	5.25	6.70	7.05	7.85
20	7.00	6.05	6.50	4.80	6.05	5.35	5.85	4.40	5.35	6.45	7.05	7.90
21	7.05	6.00	6.50	4.40	6.05	5.35	5.85	4.55	5.45	6.30	7.05	7.90
22	7.15	6.00	6.55	4.45	6.05	5.20	5.90	4.70	5.50	6.15	7.10	7.85
23	7.15	6.10	6.55	4.55	6.00	5.25	5.75	4.90	5.60	6.05	7.15	7.80
24	7.20	6.15	6.55	4.45	6.00	5.25	5.65	5.05	5.65	6.05	7.15	7.95
25	7.20	6.15	6.50	4.45	6.00	5.15	5.30	5.05	5.75	6.05	7.15	7.95
26	7.15	6.10	6.50	4.30	5.90	5.25	4.70	5.00	5.85	6.15	7.15	8.05
27	7.00	5.95	6.50	4.55	5.85	5.35	4.90	5.00	5.95	6.25	7.25	8.05
28	7.15	6.25	6.65	4.65	5.40	5.30	4.95	4.95	5.95	6.25	7.35	8.00
29	7.25	6.25	6.70	4.70	5.05	5.30	5.00	4.85	6.00	6.25	7.35	7.95
30	7.35	6.25	6.70	4.80	---	5.35	4.80	4.80	6.00	6.25	7.40	7.85
31	7.25	---	6.60	4.95	---	5.30	---	4.82	---	6.30	7.40	---
MAX	7.85	7.25	6.80	6.60	6.05	5.65	5.95	5.05	6.00	6.90	7.40	8.05

CAL YR 1995 LOW 8.85

WTR YR 1996 LOW 8.05



GROUND-WATER RECORDS

MARION COUNTY--Continued

403443083230400. Local number, MN-1.

LOCATION.--Lat 40°34'43, long 83°23'04", Hydrologic Unit 05060001, SR 37 at Baptist Church in LaRue.

Owner: Village of LaRue.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 4 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 930 ft above sea level, from topographic map.

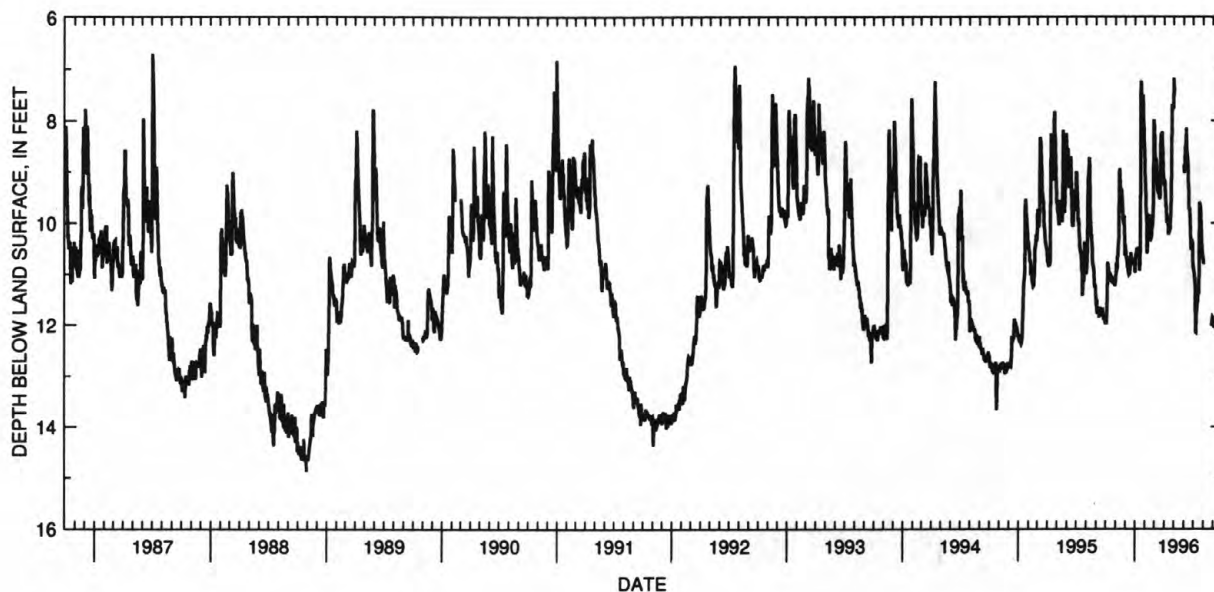
Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--March 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 14.87 ft below land-surface datum, Oct. 29, 1988;
minimum daily low, 5.67 ft below land-surface datum, Jan. 23, 1959.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.93	11.14	10.41	10.97	9.02	8.17	9.25	7.18	8.87	10.89	10.75	11.86
2	11.96	10.00	10.53	10.76	9.19	8.46	9.15	7.51	9.00	10.92	10.80	12.05
3	11.99	10.91	10.54	10.59	9.42	8.83	9.22	---	9.02	10.93	---	12.01
4	11.90	10.77	10.63	10.67	9.67	8.97	9.37	---	8.90	11.00	---	12.00
5	11.70	10.91	10.67	10.57	9.81	8.85	9.60	---	8.49	11.14	---	12.01
6	11.27	10.90	10.65	10.55	9.98	8.73	9.64	---	8.55	11.05	---	11.95
7	10.81	10.63	10.69	10.48	10.59	8.81	9.70	---	8.45	11.35	---	11.92
8	10.76	10.66	10.86	10.51	10.53	8.90	9.75	---	8.15	12.14	---	11.98
9	10.83	10.52	10.82	10.52	10.00	9.15	10.00	---	8.34	12.15	---	11.90
10	10.89	10.39	10.93	10.59	9.83	9.31	9.86	7.54	8.67	11.77	---	12.07
11	10.97	10.29	10.94	10.47	9.94	9.36	9.92	---	8.63	11.76	---	12.00
12	10.99	9.70	10.99	10.54	10.03	9.37	9.92	---	8.67	11.67	---	12.07
13	11.02	8.94	11.01	10.48	9.84	9.40	10.04	---	8.82	11.58	---	12.04
14	11.02	8.99	11.00	10.53	9.94	9.42	10.23	---	8.95	11.54	---	12.12
15	11.00	9.14	10.94	10.93	10.10	9.40	10.15	---	9.15	11.50	---	12.14
16	11.01	9.41	10.84	10.80	10.18	9.44	10.15	---	9.38	11.30	---	12.02
17	11.14	9.62	10.86	10.50	10.24	9.50	10.19	---	9.72	11.34	---	12.04
18	11.10	9.73	10.76	9.65	10.36	9.53	10.10	---	9.70	11.40	---	12.10
19	11.16	9.45	10.58	7.24	10.27	9.43	10.13	---	9.72	10.76	---	12.00
20	11.10	9.32	10.71	7.30	10.28	8.95	9.99	---	9.75	9.59	---	12.03
21	11.09	9.50	10.75	7.79	10.28	8.26	9.87	---	9.93	9.61	---	11.93
22	11.11	9.61	10.79	8.00	10.16	8.32	9.75	---	10.37	9.66	---	12.05
23	11.19	9.72	10.75	7.85	9.85	8.50	9.40	---	10.46	9.69	---	12.04
24	11.15	9.94	10.77	7.63	10.10	8.35	8.40	---	10.52	9.84	---	12.02
25	11.19	9.89	10.69	7.50	9.88	8.22	7.69	---	10.32	10.09	---	12.09
26	11.15	10.02	10.73	7.70	9.88	8.50	7.82	---	10.34	10.20	12.00	12.10
27	11.10	9.85	10.75	8.00	9.50	8.63	---	---	10.35	10.38	12.02	12.09
28	11.06	10.05	10.78	8.16	8.00	8.81	---	---	10.40	10.50	11.90	11.80
29	11.16	10.07	10.81	8.39	7.99	9.03	---	---	10.71	10.59	11.90	11.52
30	11.24	10.63	10.77	8.52	---	9.16	7.77	---	10.80	10.67	11.85	11.65
31	11.13	---	10.74	8.76	---	9.23	---	---	---	10.65	11.88	---
MAX	11.99	11.14	11.01	10.97	10.59	9.53	10.23	7.54	10.80	12.15	12.02	12.14

CAL YR 1995 LOW 12.37
WTR YR 1996 LOW 12.15

GROUND-WATER RECORDS

247

MARION COUNTY--Continued

403601083110400. Local number, MN-2.

LOCATION.--Lat 40°36'01, long 83°11'04", Hydrologic Unit 05060001, water treatment plant 2 mi west of Marion.

Owner: Marion Water Department.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 67 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 910 ft above sea level, from topographic map.

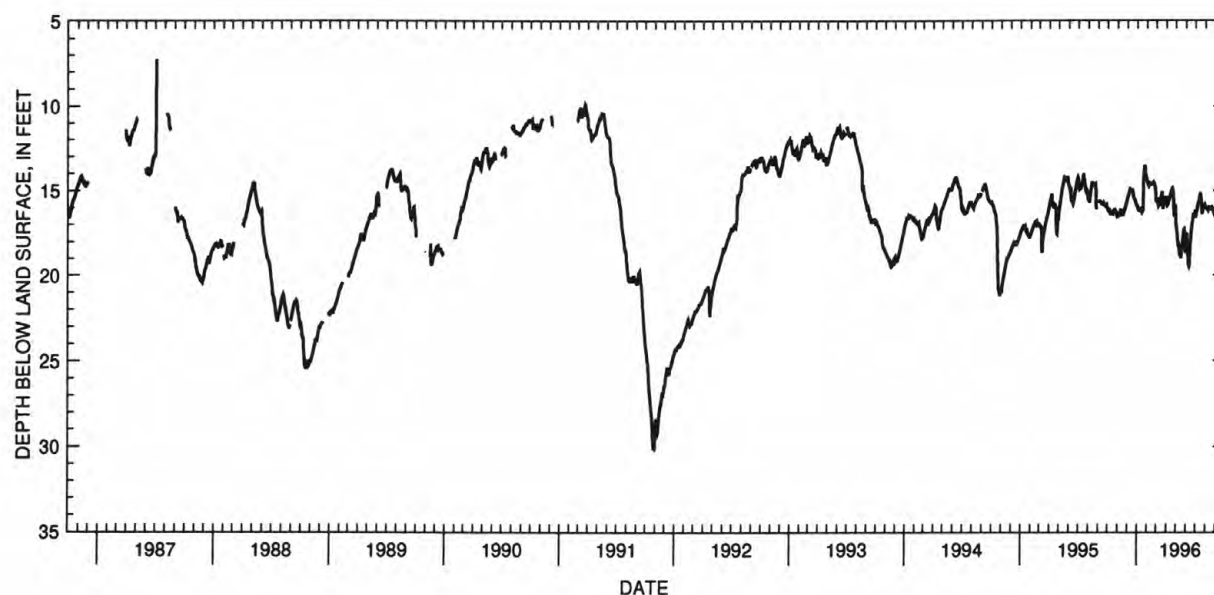
Measuring point: Floor of instrument shelter 2.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 49.50 ft below land-surface datum, Feb. 11, 1956;
minimum daily low, 7.00 ft below land-surface datum, July 12, 1987.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.08	16.54	15.51	15.91	14.40	15.70	15.58	16.80	18.49	16.62	15.96	16.53
2	16.18	16.50	15.49	15.96	14.52	15.57	15.67	17.11	18.02	16.53	15.98	16.59
3	16.21	16.52	15.38	16.04	14.59	15.52	15.80	17.27	17.65	16.37	16.03	16.62
4	16.25	16.52	15.33	16.10	14.66	15.52	15.90	17.41	17.51	16.31	16.06	16.64
5	16.25	16.50	15.25	16.18	14.69	15.45	15.87	17.54	18.17	16.22	16.10	16.66
6	16.21	16.41	15.20	16.18	14.72	15.73	15.82	17.86	18.53	16.13	16.12	16.88
7	16.29	16.32	15.11	16.13	14.69	15.92	15.72	18.06	18.58	16.03	16.10	16.96
8	16.31	16.30	15.06	16.16	14.64	15.87	15.67	18.23	18.95	15.92	16.07	17.02
9	16.34	16.29	14.96	16.14	14.68	15.88	15.60	18.26	19.20	15.81	16.13	17.16
10	16.38	16.18	14.91	16.19	14.68	15.88	15.53	18.22	19.43	15.75	16.07	17.21
11	16.40	16.19	14.92	16.18	14.63	15.83	15.44	18.36	19.49	15.69	16.04	17.20
12	16.40	16.37	14.99	16.12	14.66	15.70	15.35	18.69	19.45	15.59	16.00	17.20
13	16.38	16.45	15.00	16.13	14.66	15.60	15.26	18.85	18.85	15.48	16.02	17.18
14	16.30	16.45	14.98	16.17	14.55	15.52	15.21	18.57	18.45	15.37	16.08	17.16
15	16.29	16.42	15.00	16.22	14.60	15.43	15.16	18.54	18.15	15.30	16.10	17.17
16	16.34	16.45	14.99	16.18	14.64	15.36	15.03	18.89	17.89	15.22	16.08	17.19
17	16.36	16.45	14.99	16.13	14.63	15.24	15.01	19.00	17.67	15.14	16.07	17.24
18	16.29	16.36	14.99	16.20	14.58	15.16	14.96	18.69	17.45	15.26	16.06	17.38
19	16.27	16.36	15.12	16.14	14.56	15.05	14.86	18.50	17.28	15.56	16.05	17.41
20	16.21	16.29	15.35	15.19	14.52	15.44	14.85	18.43	17.08	15.92	16.02	17.40
21	16.17	16.20	15.43	14.41	14.55	16.00	14.95	18.22	16.92	16.24	16.01	17.38
22	16.18	16.18	15.43	13.89	14.59	16.12	14.98	18.04	16.77	16.38	16.06	17.36
23	16.20	16.10	15.46	13.70	14.59	15.89	15.30	17.82	16.64	16.27	16.07	17.31
24	16.16	16.10	15.50	13.54	14.64	15.77	16.02	17.61	16.50	16.17	16.18	17.39
25	16.20	16.04	15.55	13.58	14.75	15.66	16.39	17.42	16.52	16.07	16.21	17.43
26	16.22	15.95	15.60	13.67	14.78	15.68	16.58	17.32	16.50	16.01	16.26	17.44
27	16.27	15.84	15.69	13.99	14.90	15.68	16.23	17.29	16.45	15.97	16.32	17.44
28	16.34	15.83	15.78	14.11	15.31	15.57	15.96	17.60	16.36	15.94	16.36	17.43
29	16.45	15.74	15.85	14.15	15.57	15.51	15.85	18.22	16.38	15.87	16.41	17.39
30	16.50	15.65	15.88	14.22	---	15.46	16.35	18.52	16.57	15.83	16.47	17.43
31	16.55	---	15.88	14.31	---	15.34	---	18.69	---	15.92	16.51	---
MAX	16.55	16.54	15.88	16.22	15.57	16.12	16.58	19.00	19.49	16.62	16.51	17.44

CAL YR 1995 LOW 18.65
WTR YR 1996 LOW 19.49

GROUND-WATER RECORDS

MEDINA COUNTY

410120081431800. Local number, MD-3.

LOCATION.--Lat 41°01'20", long 81°43'18", Hydrologic Unit 05040001, Auble Street at water treatment plant in Wadsworth.

Owner: Wadsworth Water Department.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 275 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1180 ft above sea level, from topographic map.

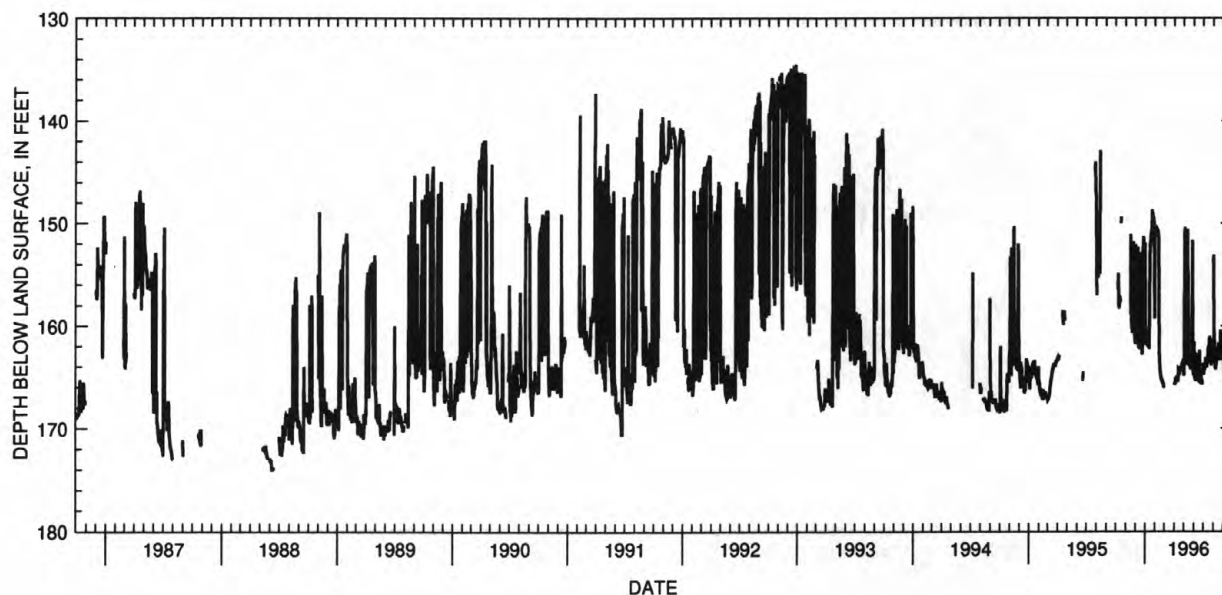
Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--December 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 186.74 ft below land-surface datum, Jan. 21, 1975;
minimum daily low, 134.50 ft below land-surface datum, Dec. 26, 1992.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	155.20	161.80	151.90	150.40	---	---	164.80	164.80	163.70	153.80	163.30
2	---	---	152.70	159.00	150.80	---	165.60	164.90	161.60	164.30	153.10	163.30
3	---	---	152.10	161.00	150.90	---	165.70	162.80	164.60	164.80	161.80	163.40
4	---	---	161.00	161.40	151.10	---	165.70	151.10	165.00	164.10	160.60	163.50
5	---	---	161.30	161.90	151.00	---	165.60	150.40	165.00	164.30	162.50	164.50
6	---	---	160.50	161.70	151.30	---	165.20	163.10	165.40	164.10	163.30	165.00
7	---	---	160.90	161.10	151.10	---	165.10	163.70	165.00	163.90	163.90	165.00
8	---	---	161.70	161.50	150.60	---	165.40	163.70	164.40	163.80	164.30	163.40
9	156.50	157.70	153.40	161.50	150.70	---	---	163.80	162.70	163.10	163.90	163.60
10	154.90	---	152.30	162.10	150.70	---	---	163.20	164.80	163.50	163.50	164.50
11	157.80	---	159.70	161.80	150.90	---	---	163.50	165.20	163.90	162.10	164.50
12	158.30	---	161.80	161.80	151.20	---	---	162.70	165.00	164.10	162.90	164.30
13	158.00	---	162.20	161.70	151.10	---	165.30	150.60	165.30	163.40	162.90	163.80
14	157.20	---	161.80	161.10	157.50	---	165.50	163.40	165.40	163.60	162.80	152.50
15	157.10	---	162.30	162.30	162.20	---	164.30	154.60	165.20	163.70	163.40	149.60
16	157.70	---	161.70	153.50	163.50	---	164.40	163.80	165.30	162.30	163.00	161.30
17	---	158.90	152.90	152.40	164.00	---	164.70	163.80	165.20	162.10	161.90	151.60
18	150.00	151.10	161.00	152.10	164.60	---	164.70	163.90	165.00	162.30	161.70	151.60
19	149.40	157.70	161.20	151.70	164.80	---	164.30	162.90	162.40	162.30	162.70	161.80
20	---	158.80	161.50	150.70	165.00	---	164.30	163.80	165.00	161.50	163.40	---
21	---	160.30	161.80	150.80	165.20	---	164.00	163.80	165.60	161.00	162.40	159.80
22	---	152.70	161.30	150.80	165.30	---	164.30	164.30	164.80	161.90	162.00	159.20
23	---	160.70	162.70	148.70	165.30	---	164.00	162.90	164.30	162.50	162.20	162.80
24	---	160.20	162.70	---	165.20	---	164.30	164.10	164.40	162.60	160.40	163.70
25	---	151.80	161.20	149.00	165.60	---	163.80	163.20	165.50	163.20	160.80	163.80
26	---	159.50	153.50	149.70	165.60	---	163.90	164.10	165.80	163.90	162.40	163.30
27	---	152.20	151.30	---	165.60	---	163.60	162.70	165.30	163.00	163.10	154.00
28	---	160.20	151.60	149.50	165.80	---	164.00	151.70	165.80	163.00	163.30	---
29	---	160.40	159.70	149.60	166.10	---	163.30	163.70	---	161.30	162.80	---
30	---	160.70	152.30	149.90	---	---	163.40	163.90	---	---	162.90	---
31	---	---	152.30	159.30	---	---	---	164.90	---	---	162.50	---
MAX	158.30	160.70	162.70	162.30	166.10	---	165.70	164.90	165.80	164.80	164.30	165.00

CAL YR 1995 LOW 167.20
WTR YR 1996 LOW 166.10

GROUND-WATER RECORDS

249

MERCER COUNTY

402833084375200. Local number, MR-2.

LOCATION.--Lat 40°28'33", long 84°37'52", Hydrologic Unit 05120101, at AVCO Mfg. Co. building in Coldwater.

Owner: New Idea Farm Equipment Co.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 253 ft, cased.

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

DATUM.--Elevation of land-surface datum is 915 ft above sea level, from topographic map.

Measuring point: Top of platform 1.2 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

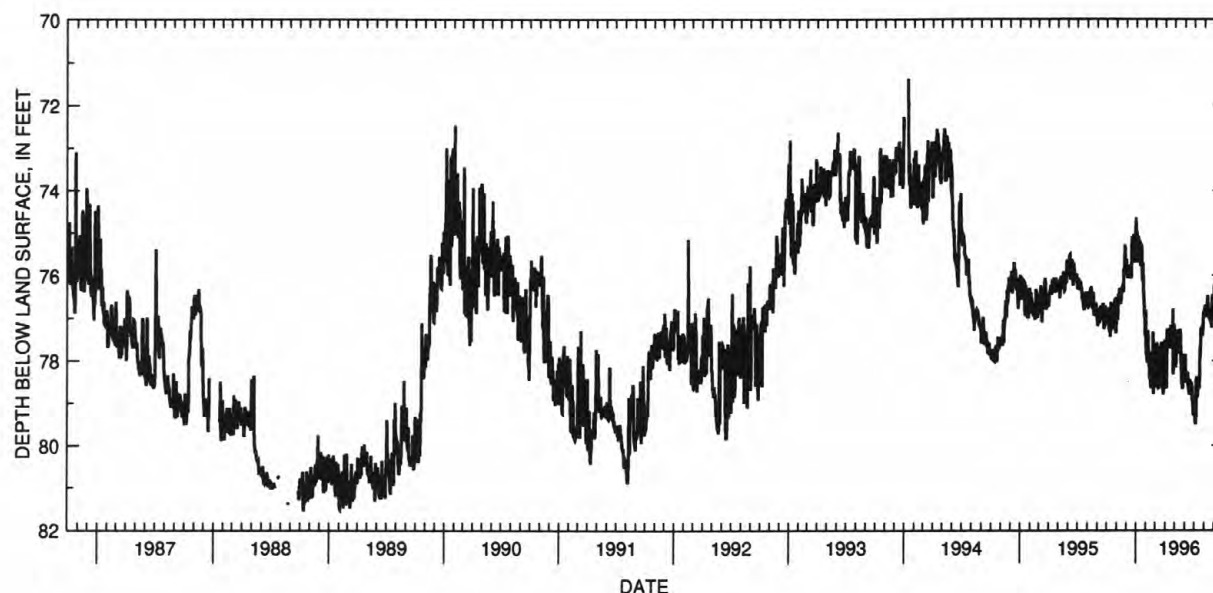
PERIOD OF RECORD.--February 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 81.60 ft below land-surface datum, Sept. 15, 1988;

minimum daily low, 60.13 ft below land-surface datum, Feb. 14, 1967.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77.06	77.02	75.61	74.81	77.60	78.29	78.33	77.68	77.88	79.29	76.84	76.22
2	76.86	76.68	75.76	75.12	77.85	78.38	78.53	77.41	78.15	79.06	76.83	76.45
3	76.95	77.02	75.81	74.95	77.87	78.39	77.73	77.65	77.86	79.23	76.69	76.71
4	77.02	77.05	75.86	75.13	77.95	78.24	78.38	78.16	78.28	79.40	76.77	76.78
5	76.76	76.85	76.03	75.61	77.93	77.73	78.66	77.87	78.52	79.48	76.84	76.91
6	77.03	76.52	76.06	75.68	77.94	77.58	77.88	77.51	78.27	79.48	76.97	77.03
7	77.00	76.44	75.95	75.08	77.30	78.35	77.25	77.76	78.36	78.50	76.95	77.19
8	77.21	76.53	75.78	75.11	77.72	78.06	77.58	77.82	78.43	78.37	76.95	77.34
9	77.29	76.60	75.94	75.25	78.04	77.91	77.61	77.76	78.50	78.67	76.83	77.42
10	77.27	76.30	75.98	75.61	78.06	78.66	77.34	77.81	78.27	78.85	76.86	77.67
11	77.22	76.39	75.75	75.24	78.07	78.67	77.36	77.34	78.39	78.87	76.47	77.70
12	77.45	76.47	75.91	75.19	78.43	77.96	77.58	77.28	78.60	78.69	76.66	77.55
13	77.21	76.64	75.96	75.52	78.09	78.26	77.60	77.65	78.55	78.48	76.79	77.67
14	76.65	76.66	75.99	75.64	77.93	77.80	77.61	77.46	78.73	78.51	76.81	77.77
15	76.64	76.59	76.04	75.78	78.44	78.04	77.35	77.66	78.73	78.55	76.89	77.85
16	77.13	76.40	76.07	75.27	78.65	78.38	77.68	77.85	78.81	78.64	77.00	77.95
17	76.98	76.29	75.95	75.28	78.13	77.66	77.71	77.48	78.44	78.66	77.02	78.33
18	77.03	76.29	75.51	75.29	77.86	78.20	77.17	77.26	78.52	78.26	76.93	78.39
19	77.28	76.35	75.08	75.88	77.81	77.89	77.60	77.51	78.52	77.68	76.97	78.44
20	77.04	76.35	75.36	76.09	78.31	77.57	77.26	77.72	78.54	77.87	77.11	78.33
21	77.07	76.19	75.63	76.15	78.51	78.27	77.72	78.18	78.54	77.41	77.02	78.32
22	76.88	76.38	75.66	75.70	77.98	78.41	77.29	78.31	78.54	77.22	77.02	78.53
23	76.85	75.87	75.25	76.14	77.33	78.66	77.50	78.50	78.60	77.34	77.19	78.66
24	76.97	75.86	75.07	76.38	78.69	78.33	77.56	78.57	78.58	77.22	77.23	78.55
25	77.15	75.86	75.04	76.55	78.78	77.90	76.78	78.67	78.95	77.21	76.58	78.44
26	76.58	75.60	75.31	76.72	78.22	78.80	78.32	78.61	78.79	77.37	76.45	78.18
27	76.57	75.28	75.59	76.96	77.65	78.61	78.06	78.09	79.06	77.43	76.63	78.08
28	76.61	75.97	75.69	76.88	78.46	77.93	77.53	77.86	79.26	77.15	76.85	78.01
29	77.31	75.89	75.54	77.42	78.63	78.19	77.15	78.27	79.26	76.99	76.70	78.05
30	77.36	75.86	75.16	77.22	---	78.25	77.54	78.39	79.27	76.84	76.77	78.21
31	77.01	---	74.65	76.82	---	77.52	---	78.11	---	76.89	76.78	---
MAX	77.45	77.05	76.07	77.42	78.78	78.80	78.66	78.67	79.27	79.48	77.23	78.66

CAL YR 1995 LOW 77.45
WTR YR 1996 LOW 79.48

GROUND-WATER RECORDS

MIAMI COUNTY

395848084085500. Local number, MI-3.

LOCATION.--Lat 39°58'48", long 84°08'55", Hydrologic Unit 05080001, 2.0 mi northeast of Tipp City.

Owner: Fulton Fruit Farms.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 5 in., depth 48 ft, cased.

INSTRUMENTATION.--Periodic measurement with chalked tape by ODNR personnel.

DATUM.--Elevation of land-surface datum is 804.78 ft above sea level. (Levels by Miami Conservancy District.)

Measuring point: Floor of shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1966 to September 1982 continuous, periodic thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 15.61 ft below land-surface datum, Feb. 4, 1971;
minimum daily low, 7.53 ft below land-surface datum, Feb. 25, 1975.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL
Oct. 17, 1995	11.09
Mar. 22, 1996	10.25
July 16, 1996	9.99

GROUND-WATER RECORDS

251

MIAMI COUNTY--Continued

400208084112900. Local number, MI-44.

LOCATION.--Lat 40°02'08", long 84°11'29", Hydrologic Unit 05080001, on left bank of Great Miami River 0.7 mi east of city hall in Troy.

Owner: City of Troy.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled public supply water-table well, diameter 26 in, depth 105 ft, screened below 89 ft.

PERIOD OF RECORD.--August 1974 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

400208084112900 - MI-44

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K) (00935)	BICAR- BONATE IT-FLD (MG/L) AS HCO3) (99440)	ALKA- LITY, CARBON- ATE IT-FLD (MG/L) CAC03) (99430)
DEC 06...	1040	755	7.6	6.5	12.5	<10	79	32	21	2.2	345	283
APR 23...	1030	759	7.4	7.0	13.5	15	88	31	22	2.7	342	281
AUG 12...	1000	743	7.2	25.0	13.5	<10	81	33	22	2.5	354	290

DATE	SULFATE DIS- SOLVED (MG/L) AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	SILICA, DIS- SOLVED (MG/L) AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L) AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L) AS P) (00671)	ARSENIC TOTAL AS AS) (01002)	ARSENIC DIS- SOLVED (MG/L) AS AS) (01000)
DEC 06...	62	34	0.80	13	404	<0.010	<0.050	0.320	<0.010	1	1
APR 23...	65	38	0.70	11	406	<0.010	0.250	0.290	<0.010	--	--
AUG 12...	63	35	0.90	13	424	0.010	0.050	0.360	0.010	<1	<1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L) AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L) AS CU) (01042)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L) AS PB) (01051)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L) AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L) AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L) AS C) (00680)
DEC 06...	--	<1	<1	--	1400	<1	--	44	<10	--	0.8
APR 23...	--	--	--	--	960	--	--	76	--	--	1.1
AUG 12...	<1	<1	<1	<1	1500	<1	<1	48	<10	<3	1.4

GROUND-WATER RECORDS

MONTGOMERY COUNTY

393757084173600. Local number MT-928.

LOCATION.--Lat 39°37'57", long 84°17'36", Hydrologic Unit 05080002, on right bank of Great Miami River 0.2 mi south of Linden Ave. bridge, Miamisburg.

Owner: City of Miamisburg.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled municipal supply water-table well, diameter 20 in., depth 95 ft, screened below 70 ft. PERIOD OF RECORD.--September 1983 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

393757084173600 - MT-928

DATE	TIME	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	SODIUM, DIS- SOLVED (MG/L) AS NA (00930)	POTAS- SIUM, DIS- SOLVED (MG/L) AS K (00935)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	ALKA- LILITY, CARBON- ATE IT-FLD (MG/L CAC03) (99430)
DEC 06...	1250	864	7.5	4.5	14.5	<10	84	32	40	3.5	296	242
APR 23...	1315	896	7.3	6.5	12.5	18	89	31	48	3.5	313	256
AUG 12...	1230	972	7.3	27.0	11.5	<10	97	36	51	3.8	317	260

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)
DEC 06...	62	76	0.30	9.0	464	0.030	1.60	<0.015	0.030	1	1
APR 23...	61	85	0.40	7.7	498	0.030	3.80	0.020	0.020	--	--
AUG 12...	58	110	0.30	8.0	566	0.030	4.10	0.020	0.040	<1	1

DATE	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
DEC 06...	--	<1	7	--	<3	<1	--	180	<10	--	1.2
APR 23...	--	--	--	--	4	--	--	180	--	--	1.7
AUG 12...	<1	<1	2	2	3	<1	<1	150	<10	<3	1.2

GROUND-WATER RECORDS

253

MONTGOMERY COUNTY--Continued

394012084151700. Local number, MT-55.

LOCATION.--Lat 39°40'12", long 84°15'17", Hydrologic Unit 05080002, Elm Street in West Carrollton.

Owner: Oxford Paper Company.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 84 ft, cased.

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

DATUM.--Elevation of land-surface datum is 717.6 ft above sea level.

Measuring point: Floor of instrument shelter 0.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

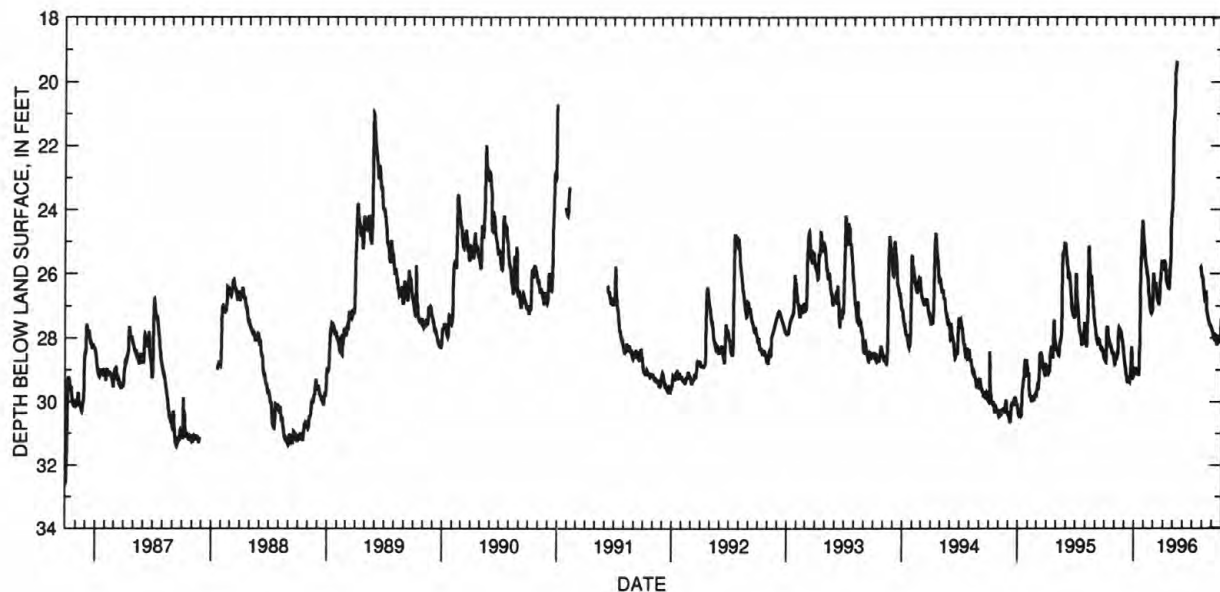
PERIOD OF RECORD.--April 1970 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 58.57 ft below land-surface datum, Nov. 24, 1974;
minimum daily low, 19.35 ft below land-surface datum, May 9, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28.64	28.74	28.61	29.10	25.07	26.05	25.91	21.97	---	---	26.11	27.73
2	28.68	28.83	28.69	29.06	25.16	25.98	25.74	21.23	---	---	26.11	27.80
3	28.73	28.82	28.76	29.05	25.28	26.19	25.63	21.12	---	---	26.24	27.88
4	28.74	28.69	28.83	29.02	25.48	26.27	25.61	21.10	---	---	26.34	27.92
5	28.75	28.56	28.90	29.02	25.54	26.38	25.57	20.59	---	---	26.42	27.93
6	28.37	28.61	29.02	28.92	25.65	26.46	25.66	19.69	---	---	26.60	27.88
7	28.07	28.64	29.10	28.95	25.75	26.43	25.69	19.67	---	---	26.65	27.94
8	27.70	28.67	29.18	29.00	25.77	26.26	25.81	19.66	---	---	26.78	28.08
9	27.66	28.58	29.20	28.96	25.90	26.33	25.88	19.35	---	---	26.84	28.04
10	27.63	28.49	29.31	29.06	25.89	26.43	26.11	---	---	---	26.92	28.08
11	27.77	28.49	29.35	29.05	26.01	26.48	26.22	---	---	---	26.87	28.04
12	27.93	28.37	29.41	29.11	26.06	26.57	26.27	---	---	---	26.91	28.12
13	28.03	27.96	29.33	29.11	26.11	26.70	26.05	---	---	---	26.53	27.91
14	28.07	27.73	29.36	29.08	26.25	26.78	26.34	---	---	---	26.98	27.93
15	28.03	27.70	29.41	29.18	26.49	26.83	26.38	---	---	---	27.11	28.17
16	28.10	27.73	29.36	29.13	26.63	26.84	26.36	---	---	---	27.21	28.23
17	28.21	27.82	29.33	28.98	26.68	26.87	26.37	---	---	---	27.26	28.17
18	28.23	27.80	29.35	28.44	26.78	26.94	26.44	---	---	---	27.31	28.10
19	28.24	27.78	29.37	28.22	26.91	26.94	26.45	---	---	---	27.38	28.14
20	28.30	27.77	29.23	27.27	27.03	26.85	26.41	---	---	---	27.40	28.14
21	28.20	27.81	29.16	26.36	27.10	26.67	26.17	---	---	---	27.45	28.08
22	28.30	27.85	29.16	25.71	27.16	26.48	25.91	---	---	---	27.53	28.07
23	28.38	27.96	28.58	25.39	27.21	26.20	25.75	---	---	---	27.56	27.93
24	28.39	28.01	28.38	25.15	27.22	26.14	25.63	---	---	---	27.58	28.04
25	28.52	28.03	28.27	24.88	27.18	25.99	24.75	---	---	---	27.59	28.10
26	28.48	28.10	28.71	24.48	27.19	25.88	24.27	---	---	25.79	27.60	28.11
27	28.47	28.19	28.88	24.33	27.17	25.65	24.08	---	---	25.78	27.63	28.11
28	28.41	28.30	29.07	24.43	27.01	25.57	24.05	---	---	25.86	27.64	27.89
29	28.50	28.41	29.16	24.64	26.58	25.69	23.94	---	---	25.97	27.66	27.45
30	28.61	28.49	29.20	24.79	---	25.76	23.08	---	---	26.04	27.70	27.44
31	28.70	---	29.18	24.97	---	25.81	---	---	---	26.10	27.73	---
MAX	28.75	28.83	29.41	29.18	27.22	26.94	26.45	21.97	---	26.10	27.73	28.23

CAL YR 1995 LOW 30.46

WTR YR 1996 LOW 29.41



GROUND-WATER RECORDS

MONTGOMERY COUNTY--Continued

394025084162800. Local number, MT-49.

LOCATION.--Lat 39°40'25", long 84°16'28", Hydrologic Unit 05080002, 1.2 mi west of city hall in West Carrollton.

Owner: Metal Shredders, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 220 ft, cased.

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

DATUM.--Elevation of land-surface datum is 714.61 ft above sea level. (Levels by Miami Conservancy District.)

Measuring point: Floor of shelter 2.50 ft above land-surface datum.

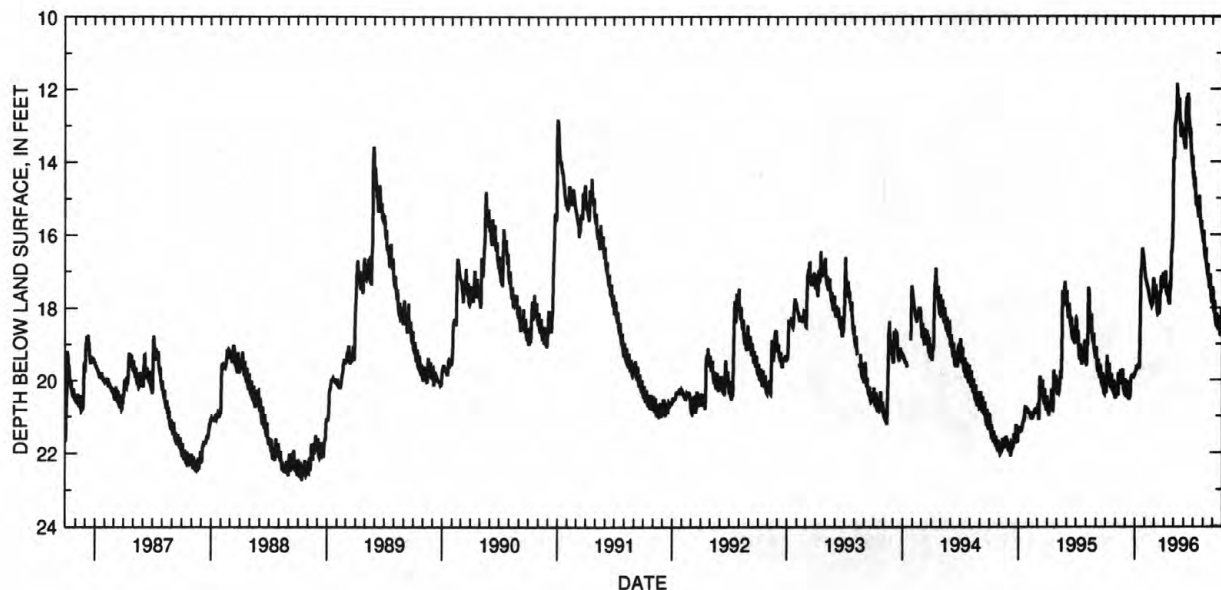
PERIOD OF RECORD.--November 1947 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 36.30 ft below land-surface datum, Dec. 8, 1974;

minimum daily low, 10.58 ft below land-surface datum, Jan. 23, 1959.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.96	20.44	20.39	19.87	16.89	17.19	17.25	14.00	13.34	14.26	16.11	17.50
2	20.27	20.48	20.39	19.85	16.97	17.32	17.15	13.88	13.18	14.39	16.19	17.49
3	20.30	20.48	19.96	19.79	17.07	17.46	17.26	13.92	13.49	14.50	16.20	17.55
4	20.36	20.46	20.32	19.78	17.15	17.57	17.36	13.81	13.52	14.26	15.89	17.93
5	20.30	20.06	20.43	19.77	17.22	17.71	17.40	13.03	13.60	14.64	16.33	18.07
6	19.93	20.28	20.45	19.73	17.26	17.77	17.40	12.93	13.66	14.63	16.45	18.13
7	19.65	20.28	20.45	19.67	17.29	17.48	17.00	12.92	13.61	14.41	16.54	18.13
8	19.31	20.31	20.21	19.68	17.33	17.46	17.43	12.85	13.10	14.76	16.61	17.81
9	19.61	20.26	20.09	19.66	17.39	17.56	17.54	12.79	12.53	14.93	16.67	18.22
10	19.71	20.39	20.08	19.70	17.39	17.59	17.59	12.64	12.35	15.06	16.67	18.31
11	19.81	20.39	20.10	19.66	17.45	17.96	17.62	12.60	12.24	15.17	16.36	18.37
12	19.87	19.84	20.19	19.65	17.45	18.08	17.67	11.84	12.22	15.21	16.76	18.43
13	19.90	19.79	20.43	19.66	17.49	18.14	17.52	12.08	12.35	15.18	16.88	18.50
14	19.77	19.87	20.52	19.66	17.55	18.18	17.37	12.26	12.46	14.99	16.95	18.50
15	19.54	19.95	20.53	19.69	17.61	18.17	17.72	12.35	12.11	15.27	17.03	18.15
16	19.98	20.03	20.53	19.64	17.67	17.97	17.82	12.37	12.25	15.30	17.09	18.44
17	20.06	20.06	20.18	19.59	17.73	17.77	17.85	12.44	12.72	15.42	17.06	18.51
18	20.17	19.97	20.46	19.24	17.77	18.17	17.87	12.44	12.87	15.41	16.79	18.58
19	20.19	19.71	20.45	18.43	17.81	18.07	17.91	12.25	13.01	15.22	17.19	18.59
20	20.22	20.00	20.17	17.56	17.85	17.89	17.77	12.70	13.12	15.03	17.31	18.62
21	20.08	20.08	19.96	17.14	17.88	17.60	17.27	12.89	13.25	14.93	17.40	18.49
22	19.82	20.12	19.92	16.95	17.89	17.56	17.50	13.05	13.23	15.37	17.39	18.23
23	20.17	19.85	19.89	16.93	17.93	17.56	17.42	13.20	13.08	15.51	17.46	18.59
24	20.25	19.76	19.87	16.77	17.95	17.14	16.98	13.33	13.51	15.57	17.46	18.68
25	20.29	19.72	19.86	16.46	17.92	17.28	16.49	13.28	13.69	15.68	17.09	18.76
26	20.31	19.69	19.86	16.37	17.90	17.28	16.49	13.07	13.78	15.78	17.55	18.78
27	20.33	20.14	19.89	16.49	17.88	17.29	16.39	13.04	13.93	15.85	17.65	18.72
28	20.28	20.26	19.90	16.51	17.58	17.37	16.16	13.09	14.05	15.61	17.72	18.42
29	19.99	20.28	19.91	16.62	17.28	17.44	16.04	13.14	14.04	15.92	17.79	18.02
30	20.35	20.26	19.89	16.67	---	17.43	14.63	13.23	13.84	15.96	17.85	18.36
31	20.41	---	19.87	16.77	---	17.05	---	13.37	---	16.02	17.85	---
MAX	20.41	20.48	20.53	19.87	17.95	18.18	17.91	14.00	14.05	16.02	17.85	18.78

CAL YR 1995 LOW 21.40
WTR YR 1996 LOW 20.53

GROUND-WATER RECORDS

255

MONTGOMERY COUNTY--Continued

394425084113200. Local number, MT-3.

LOCATION.--Lat 39°44'25", long 84°11'32", Hydrologic Unit 05080002, Patterson Blvd. at Stewart St., in Dayton.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 80 ft, cased.

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

DATUM.--Elevation of land-surface datum is 744 ft above sea level, from topographic map.

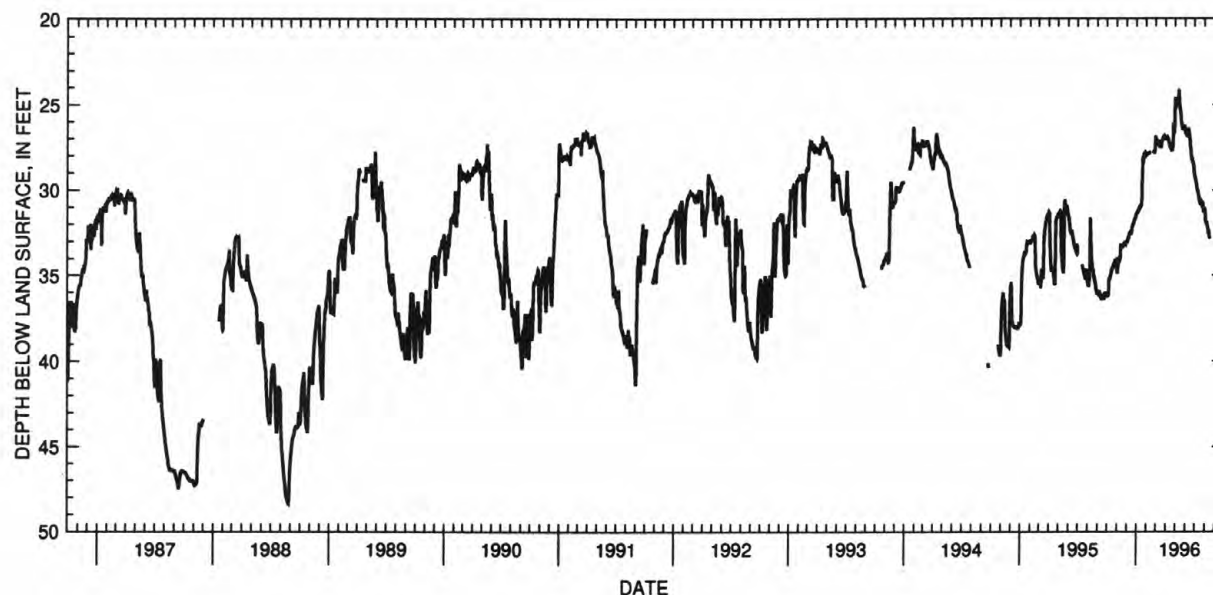
Measuring point: Floor of instrument shelter 1.20 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1945 to June 1974. Reactivated June 1980.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 79.45 ft below land-surface datum, Apr. 6, 1971;
minimum daily low, 24.13 ft below land-surface datum, May 12, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.17	34.57	33.04	31.40	27.93	26.83	27.02	24.57	26.52	29.25	31.11	---
2	36.21	34.80	33.04	31.36	27.96	27.03	26.95	24.78	26.60	29.18	31.20	---
3	36.21	34.79	33.04	31.32	27.94	27.19	26.85	25.03	26.69	29.33	31.52	---
4	36.21	34.52	33.04	31.32	27.92	27.23	26.99	25.05	26.69	29.41	31.71	---
5	36.17	34.38	32.90	31.32	27.80	27.18	27.01	24.95	26.72	29.54	31.90	---
6	35.99	34.21	32.90	31.29	---	27.18	27.01	24.68	26.81	29.62	31.90	---
7	35.46	34.19	32.78	31.19	---	27.14	26.96	24.76	26.82	29.76	31.90	---
8	35.17	34.19	32.78	31.16	27.75	27.19	27.00	24.89	26.66	29.89	32.00	---
9	35.15	34.08	32.65	31.10	27.79	27.28	27.04	24.90	26.51	30.02	32.03	---
10	35.15	33.95	32.58	31.13	27.80	27.32	27.05	24.75	26.47	30.02	32.18	---
11	35.15	33.98	32.51	31.09	27.80	27.27	27.09	24.78	26.43	30.06	32.32	---
12	35.01	33.91	32.47	31.00	27.83	27.23	27.28	24.13	26.44	30.22	32.46	---
13	34.95	33.26	32.46	30.97	27.82	27.33	27.42	24.29	26.64	30.35	32.46	---
14	34.88	33.27	32.54	30.96	---	27.41	27.44	24.87	26.87	30.45	32.34	---
15	34.74	33.28	32.54	31.01	---	27.43	27.43	25.07	26.91	30.55	32.64	---
16	34.62	33.28	32.47	30.90	---	27.43	27.49	25.27	27.09	30.69	32.77	---
17	34.61	33.27	32.47	30.85	---	27.48	27.49	25.31	27.37	30.78	32.82	---
18	34.59	33.32	32.27	30.68	---	27.48	27.55	25.51	27.51	30.80	32.85	---
19	34.59	33.32	32.13	29.47	---	27.43	27.69	25.69	27.67	30.77	---	---
20	34.55	33.23	32.10	28.66	---	27.11	27.69	25.95	27.90	30.67	---	---
21	34.44	33.23	32.05	28.09	27.77	27.11	27.66	26.16	28.22	30.66	---	---
22	34.32	33.21	31.98	28.16	27.77	27.05	27.66	26.25	28.15	30.74	---	---
23	34.32	33.17	31.94	28.19	27.76	27.00	27.66	26.35	28.08	30.86	---	---
24	34.32	33.17	31.94	28.07	27.80	27.00	27.18	26.44	28.37	30.83	---	---
25	34.28	33.07	31.79	27.87	27.80	26.92	26.35	26.43	28.37	30.69	---	---
26	34.21	33.03	31.77	27.84	27.78	26.92	26.39	26.40	28.33	30.75	---	---
27	34.09	33.14	31.69	28.13	27.78	26.86	26.54	26.35	28.52	30.99	---	---
28	34.09	33.17	31.68	27.95	27.51	26.85	26.66	26.20	28.65	31.13	---	---
29	34.08	33.08	31.65	27.95	26.99	26.93	26.62	26.32	28.83	31.27	---	---
30	34.06	33.04	31.59	27.96	---	26.95	25.36	26.23	29.16	31.27	---	---
31	34.37	---	31.47	27.96	---	27.02	---	26.38	---	31.10	---	---
MAX	36.21	34.80	33.04	31.40	27.96	27.48	27.69	26.44	29.16	31.27	32.85	---

CAL YR 1995 LOW 37.88
WTR YR 1996 LOW 36.21

GROUND-WATER RECORDS

MONTGOMERY COUNTY--Continued

394533084113800. Local number, MT-6.

LOCATION.--Lat 39°45'33", long 84°11'38", Hydrologic Unit 05080002, 3rd and Ludlow Sts., Dayton.

Owner: City of Dayton

AQUIFER.--Sand and gravel of Pleistocene age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 60 ft, cased.

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

DATUM.--Elevation of land-surface datum is 740 ft above sea level, from topographic map.

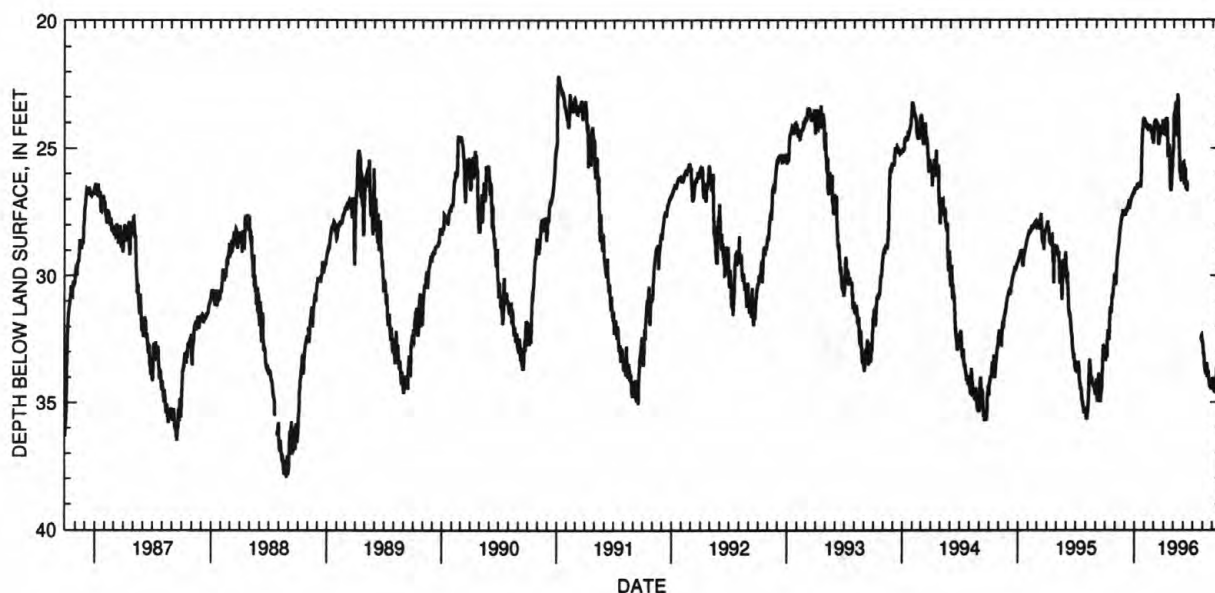
Measuring point: Floor of instrument shelter 13.00 ft below land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--February 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.20 ft below land-surface datum, Oct. 2, 1970;
minimum daily low, 21.23 ft below land-surface datum, Feb. 26, 1982.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.81	30.18	27.65	26.60	23.97	24.12	24.33	23.85	25.71	---	32.63	34.03
2	33.39	30.38	27.54	26.54	24.03	23.94	24.32	23.72	25.63	---	33.11	34.07
3	32.93	30.16	27.53	26.60	24.09	24.03	24.46	23.75	26.42	---	33.09	34.23
4	33.06	29.82	27.50	26.60	24.14	24.01	24.47	23.91	25.94	---	33.05	34.34
5	32.90	29.61	27.48	26.60	24.16	23.87	24.20	23.58	25.96	---	33.39	34.43
6	33.26	29.42	27.47	26.54	24.18	23.94	23.93	23.40	25.77	---	33.60	34.59
7	32.62	29.17	27.38	26.48	24.10	23.97	23.87	23.20	26.51	---	33.64	34.60
8	32.38	29.07	27.35	26.50	24.12	24.00	23.87	23.58	26.56	---	33.69	34.39
9	32.23	29.00	27.30	26.37	24.14	24.05	23.81	24.31	26.57	---	33.89	34.50
10	32.12	28.81	27.26	26.45	24.18	24.08	24.03	24.53	26.42	---	33.74	34.59
11	32.54	28.78	27.22	26.41	24.19	24.03	24.26	23.89	26.30	---	33.55	34.53
12	32.48	28.70	27.18	26.39	24.22	24.18	25.30	23.41	26.69	---	33.68	34.66
13	32.52	28.47	27.01	26.40	24.20	24.44	25.30	22.89	---	---	33.44	34.13
14	31.88	28.28	27.39	26.41	24.08	24.87	24.96	23.06	26.71	---	33.70	33.83
15	31.61	28.16	27.27	26.45	24.17	24.84	24.98	23.11	---	---	33.91	33.57
16	31.27	28.07	27.19	26.38	24.23	24.70	24.85	24.29	---	---	33.89	33.60
17	31.26	27.98	27.18	26.54	24.21	24.53	25.13	24.88	---	---	34.00	33.68
18	31.39	27.84	27.01	26.50	24.25	24.61	25.63	25.17	---	---	33.73	33.61
19	31.47	27.75	26.99	26.30	24.21	24.44	26.27	25.50	---	---	34.01	33.52
20	31.28	27.79	26.99	25.93	24.24	24.36	26.52	25.91	---	---	34.15	33.41
21	30.98	27.65	26.91	25.35	24.33	24.33	26.61	26.00	---	---	34.08	33.36
22	30.73	27.64	26.90	24.83	24.25	24.20	26.69	25.95	---	---	34.37	33.21
23	30.84	27.56	26.88	24.43	24.55	24.15	26.55	26.19	---	---	34.39	33.25
24	30.81	27.58	26.84	24.25	24.66	24.11	26.17	26.29	---	---	34.39	33.27
25	30.58	27.53	26.79	24.21	24.58	24.44	25.94	26.05	---	32.55	34.17	33.22
26	30.43	27.41	26.76	23.94	24.68	24.39	25.85	25.80	---	32.52	34.19	33.27
27	30.39	27.64	26.77	23.89	24.84	24.15	25.39	25.81	---	32.38	34.50	33.99
28	30.19	27.59	26.77	23.89	24.59	23.89	25.13	25.77	---	32.35	34.25	33.52
29	29.98	27.54	26.74	23.86	24.41	24.07	25.11	25.77	---	32.48	34.37	33.17
30	29.91	27.51	26.67	23.87	---	24.18	24.63	25.58	---	32.63	34.29	32.88
31	30.05	---	26.55	23.93	---	24.35	---	25.56	---	32.63	34.40	---
MAX	33.39	30.38	27.65	26.60	24.84	24.87	26.69	26.29	26.71	32.63	34.50	34.66

CAL YR 1995 LOW 35.65
WTR YR 1996 LOW 34.66

GROUND-WATER RECORDS

257

MONTGOMERY COUNTY--Continued

394811084095000. Local number, MT-74.

LOCATION.--Lat 39°48'11", long 84°09'50", Hydrologic Unit 05080002, Miami Well Field in Dayton.

Owner: City of Dayton.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 750 ft above sea level, from topographic map.

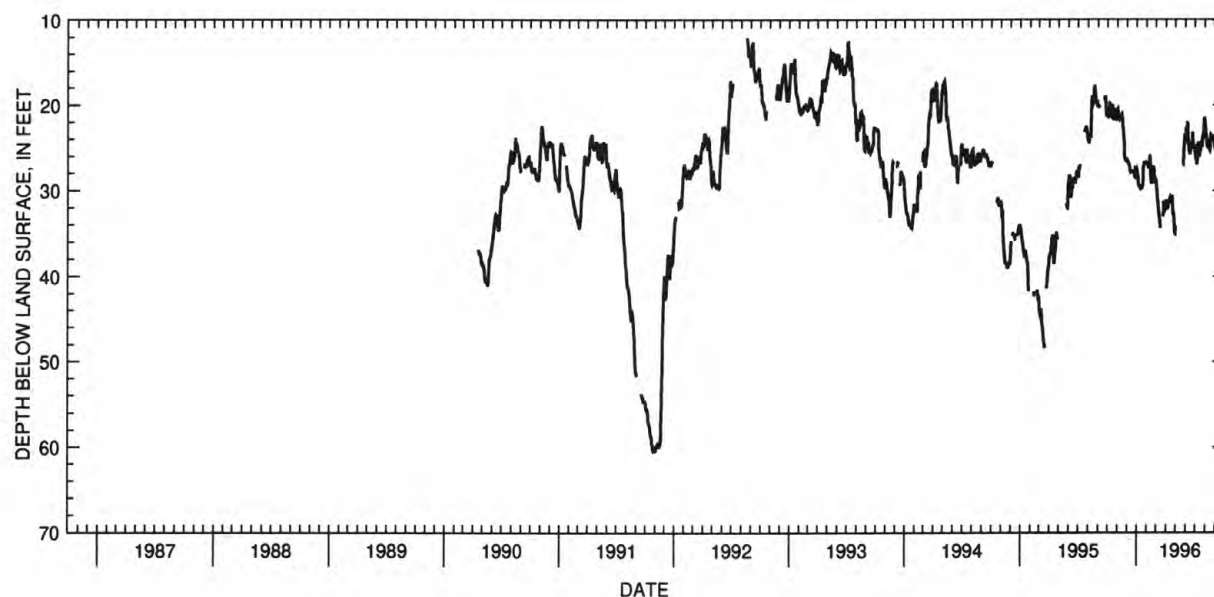
Measuring point: Floor of instrument shelter 4.0 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 18, 1990 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.50 ft below land-surface datum, Oct. 31-Nov. 1, 1991;
minimum daily low, 12.05 ft below land-surface datum, Aug. 20, 1992.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.64	20.64	26.56	27.57	26.84	28.80	31.26	34.13	23.95	25.58	21.95	25.04
2	21.05	20.56	26.59	27.86	26.91	29.36	31.18	---	24.00	25.77	22.35	25.08
3	21.40	21.12	26.54	28.19	26.96	29.75	31.85	---	22.65	26.14	23.17	25.23
4	21.38	21.19	26.66	28.24	26.98	30.26	32.05	---	24.30	26.34	23.37	25.20
5	21.25	21.11	26.72	29.06	26.90	30.85	32.08	---	24.39	26.49	23.56	25.38
6	20.95	21.10	26.75	29.31	26.92	31.25	32.13	---	22.84	26.80	24.03	25.51
7	20.54	21.39	26.90	29.43	27.14	31.63	31.77	---	22.13	26.93	24.48	24.22
8	19.87	21.59	27.01	29.46	27.12	32.00	31.37	---	22.15	25.42	24.86	24.02
9	19.90	21.60	27.14	29.50	27.24	32.50	31.29	---	23.92	24.81	24.87	23.82
10	20.14	21.44	27.45	29.59	26.02	32.82	31.42	---	24.16	24.47	24.95	23.52
11	20.39	21.48	27.79	29.72	25.99	33.22	31.45	---	24.83	24.30	24.94	23.39
12	21.14	21.44	27.87	29.78	26.12	33.33	31.38	---	25.24	25.95	24.53	23.13
13	21.27	21.13	27.84	29.72	27.65	33.88	31.13	---	25.50	26.10	24.45	22.61
14	21.37	21.08	27.83	29.61	28.60	34.38	30.92	---	25.55	25.89	24.89	22.20
15	21.25	21.23	27.85	29.57	29.25	---	30.78	---	25.79	25.87	25.21	21.88
16	20.28	21.52	27.87	29.48	28.73	---	30.92	---	25.18	24.76	25.29	21.69
17	19.96	22.05	27.86	29.49	28.97	---	30.86	---	25.50	25.39	25.00	21.24
18	21.15	22.48	27.81	29.46	28.20	---	30.71	---	24.67	25.47	24.05	---
19	21.65	22.80	27.64	29.26	27.20	---	30.63	---	24.67	24.33	23.58	22.10
20	21.70	23.11	---	28.60	27.27	---	30.51	---	24.63	24.87	23.66	22.18
21	21.67	23.49	27.56	27.57	27.28	---	31.22	---	24.35	24.82	23.78	22.24
22	20.57	24.55	27.87	26.89	27.26	33.03	32.10	---	24.91	24.38	23.55	21.97
23	20.45	25.75	27.99	26.67	27.27	32.82	32.63	---	23.17	24.44	24.07	21.40
24	21.25	26.16	28.05	26.70	27.90	32.35	32.73	26.92	24.16	23.86	24.08	20.94
25	21.38	26.31	28.41	26.70	28.87	31.26	32.60	26.93	24.74	23.64	23.83	20.75
26	21.40	26.38	28.42	26.62	28.86	32.37	33.35	26.08	24.92	23.35	23.52	20.44
27	21.47	26.49	27.42	26.63	28.60	32.35	34.20	24.77	24.96	23.84	23.65	20.14
28	21.62	26.52	27.43	26.70	28.74	31.71	34.95	24.40	24.86	23.82	24.08	19.80
29	21.71	26.39	27.43	26.68	28.73	31.59	35.00	24.01	24.68	22.10	24.22	19.74
30	21.72	26.38	27.48	26.64	---	31.52	34.25	23.40	24.88	21.51	24.34	19.68
31	21.71	---	27.40	26.71	---	31.37	---	23.67	---	21.63	24.80	---
MAX	21.72	26.52	28.42	29.78	29.25	34.38	35.00	34.13	25.79	26.93	25.29	25.51

CAL YR 1995 LOW 48.40
WTR YR 1996 LOW 35.00

GROUND-WATER RECORDS

MUSKINGUM COUNTY

395804081593200. Local number, MU-1A.

LOCATION.--Lat 39°58'04", long 81°59'32", Hydrologic Unit 05040004, 2.2 mi northeast of the "Y" bridge in Zanesville.

Owner: Zanesville Water Department.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 109 ft, cased.

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

DATUM.--Elevation of land-surface datum is 700 ft above sea level, from topographic map.

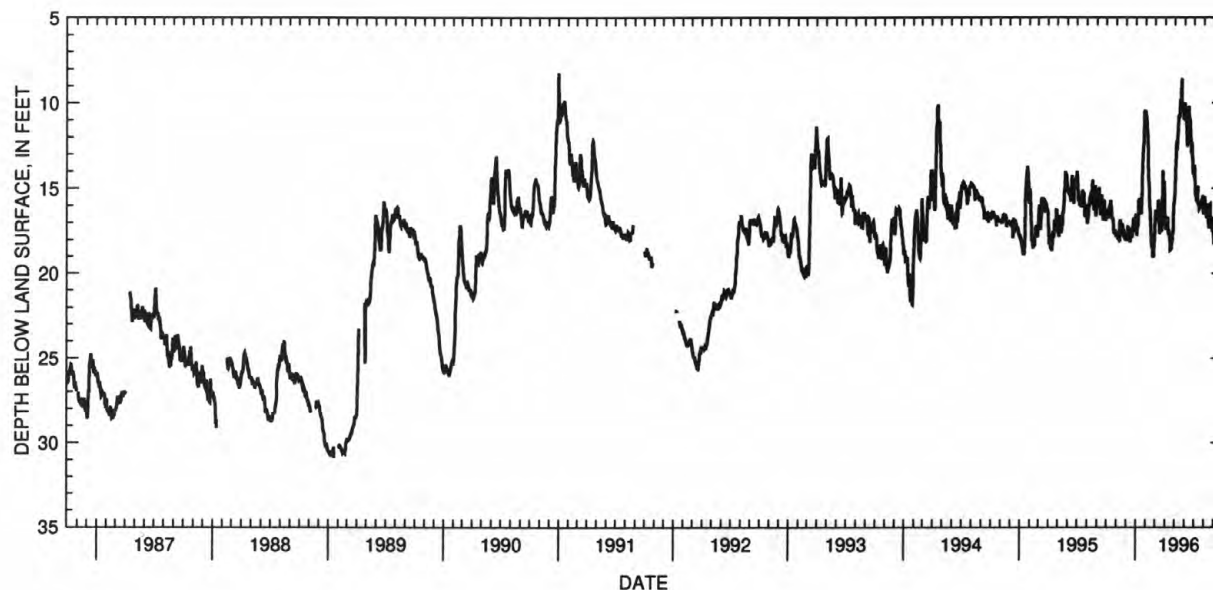
Measuring point: Floor of instrument shelter 4.48 ft above land-surface datum.

REMARKS.--Water level affected by nearby municipal wells and by stage of the Muskingum River. Prior to water year 1978, well depth reported as 132 ft.

PERIOD OF RECORD.--May 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.25 ft below land-surface datum, Aug. 1-2, 1954;
minimum daily low, 8.22 ft below land-surface datum, Jan. 1, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.74	17.56	17.62	16.46	10.88	16.79	16.54	15.61	10.00	14.43	16.46	18.17
2	16.37	17.66	17.89	16.93	10.75	16.27	17.23	14.93	10.86	13.63	15.66	18.27
3	16.40	17.67	17.96	17.20	11.13	16.32	17.29	13.77	11.04	14.42	15.46	17.70
4	16.66	17.73	18.04	17.75	11.46	16.32	17.39	13.72	10.98	15.18	15.93	17.35
5	16.37	17.67	17.88	17.25	11.63	16.57	16.96	12.72	10.51	15.47	16.09	17.10
6	16.58	17.67	17.78	16.97	11.95	16.79	16.95	12.20	11.30	15.29	16.14	17.49
7	16.72	17.55	17.24	17.16	12.15	16.78	17.21	12.69	11.91	15.64	16.33	17.53
8	16.58	17.93	17.17	17.21	13.75	16.23	16.79	12.69	12.48	15.68	16.70	17.43
9	16.18	17.95	17.65	16.13	14.45	16.42	16.65	12.10	12.48	14.95	16.62	17.20
10	16.06	17.80	17.95	15.63	14.55	16.15	17.48	11.87	10.86	15.73	16.33	16.70
11	16.42	17.84	17.77	16.21	14.87	15.66	17.67	11.41	10.86	15.79	16.55	16.10
12	16.04	16.99	17.95	15.78	15.43	15.84	17.37	10.99	10.70	15.27	16.72	17.07
13	15.93	16.81	18.08	15.56	16.00	16.35	17.57	10.70	10.20	14.86	15.87	17.30
14	15.75	17.04	18.09	16.05	16.21	17.15	17.63	10.80	10.95	---	16.31	17.40
15	15.75	17.40	17.95	15.64	16.48	17.65	17.80	10.82	11.26	---	17.00	17.46
16	16.24	17.55	17.32	16.01	17.05	17.19	18.10	10.80	11.46	15.85	17.31	17.68
17	16.10	17.70	17.52	16.26	17.60	17.11	18.62	9.79	10.91	16.15	16.88	16.90
18	16.70	17.60	17.55	16.49	18.00	17.10	18.60	10.27	11.60	16.12	16.40	17.43
19	16.70	17.06	17.70	15.95	18.46	17.44	17.97	10.04	12.10	15.89	15.93	17.86
20	16.75	17.03	17.87	15.15	18.35	17.52	18.63	9.94	12.26	15.88	15.90	17.92
21	16.67	17.45	17.50	14.25	17.93	17.45	18.30	8.88	12.89	15.84	16.60	18.01
22	16.88	17.61	17.42	13.27	19.00	16.96	18.11	8.55	12.93	15.80	16.87	17.91
23	17.03	17.67	17.09	12.74	19.07	15.79	18.18	10.29	12.29	16.04	17.04	17.70
24	17.53	17.64	17.05	12.56	19.00	15.34	17.65	10.50	13.00	15.75	17.25	17.59
25	17.64	17.59	16.68	12.37	18.88	13.95	17.50	10.50	13.34	16.03	17.05	16.98
26	17.40	17.69	16.99	11.18	18.89	14.86	17.69	10.51	13.72	16.14	17.50	17.05
27	17.60	17.85	17.19	10.50	18.15	14.86	16.50	10.50	14.18	16.04	17.07	17.65
28	17.54	17.94	17.32	10.68	17.97	14.99	15.83	10.57	13.73	15.39	17.08	18.00
29	17.40	18.04	17.27	10.43	17.40	14.58	15.94	11.00	13.98	16.23	16.65	18.07
30	17.65	17.75	17.42	10.68	---	15.56	15.51	10.02	14.07	16.39	17.45	17.58
31	17.81	---	17.25	10.45	---	16.50	---	10.14	---	16.39	17.92	---
MAX	17.81	18.04	18.09	17.75	19.07	17.65	18.63	15.61	14.18	16.39	17.92	18.27

CAL YR 1995 LOW 18.84
WTR YR 1996 LOW 19.07

GROUND-WATER RECORDS

259

PICKAWAY COUNTY

393327082571600. Local number, PK-7.

LOCATION.--Lat 39°33'27", long 82°57'16", Hydrologic Unit 05060002, 3.1 mi south of Circleville.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 6 in., depth drilled 172 ft, present depth 169 ft, cased to 164 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 705 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1972 to September 1982 continuous, October 1982 to April 1985 periodic, continuous thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.80 ft below land-surface datum, Sept. 15, 1977;

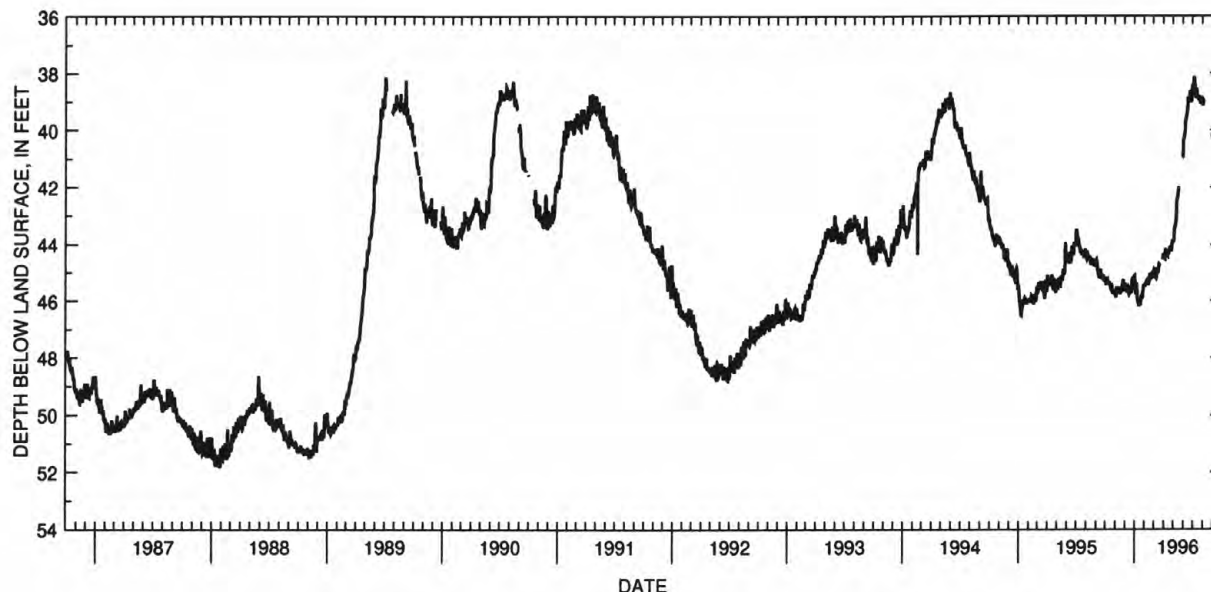
minimum daily low, 38.13 ft below land-surface datum, July 7, 1996.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45.15	45.77	45.57	45.13	45.48	45.15	44.38	43.88	40.93	38.47	39.02	40.19
2	45.26	45.78	45.61	45.11	45.48	45.04	44.44	43.90	40.60	38.47	39.11	40.10
3	45.31	45.85	45.43	45.43	45.48	44.92	44.44	43.89	40.37	38.57	39.11	40.20
4	45.39	45.85	45.43	45.60	45.43	44.94	44.52	43.79	40.28	38.57	38.98	40.39
5	45.38	45.77	45.51	45.73	45.39	44.93	44.53	43.48	40.28	38.38	39.00	40.56
6	45.34	45.55	45.65	45.73	45.35	45.02	44.50	43.40	40.22	38.21	---	40.57
7	45.33	45.51	45.66	45.49	45.34	45.10	44.18	43.40	40.05	38.13	---	40.61
8	45.23	45.64	45.66	45.47	45.31	45.19	44.17	43.37	40.04	38.22	---	40.60
9	45.22	45.64	45.64	45.78	45.40	45.20	44.32	43.25	39.78	38.55	---	40.67
10	45.34	45.65	45.58	45.93	45.44	45.15	44.35	43.21	39.59	38.71	---	40.79
11	45.39	45.64	45.55	45.95	45.29	45.00	44.37	43.06	39.59	38.82	---	40.83
12	45.39	45.56	45.66	46.05	45.41	44.94	44.35	42.70	39.54	38.81	---	40.83
13	45.38	45.56	45.70	46.05	45.45	44.94	44.38	42.43	39.47	38.78	---	40.87
14	45.36	45.64	45.70	46.05	45.38	44.93	44.34	42.40	39.41	38.54	---	40.88
15	45.33	45.67	45.77	46.16	45.34	44.98	44.30	42.40	39.33	38.70	---	40.88
16	45.39	45.74	45.76	46.16	45.33	44.97	44.30	42.28	39.15	38.82	---	40.88
17	45.47	45.74	45.68	46.14	45.29	44.81	44.35	42.17	38.95	38.87	---	40.94
18	45.48	45.65	45.49	46.09	45.12	44.71	44.31	42.07	38.89	38.88	---	40.94
19	45.57	45.65	45.52	46.13	45.04	44.72	44.18	41.98	38.89	38.82	---	41.16
20	45.56	45.64	45.68	46.13	45.12	44.77	44.15	---	38.83	38.89	---	---
21	45.51	45.63	45.70	46.00	45.15	44.78	44.12	---	38.87	38.88	---	---
22	45.49	45.65	45.70	45.86	45.17	---	44.08	---	38.87	38.81	---	41.35
23	45.59	45.64	45.69	45.79	45.18	---	44.17	---	38.69	38.88	---	---
24	45.72	45.46	45.42	45.88	45.16	---	44.20	---	38.62	38.96	---	---
25	45.72	45.40	45.26	45.89	45.13	---	44.19	---	38.93	38.97	---	---
26	45.72	45.31	45.17	45.88	45.02	---	44.10	---	39.02	39.06	---	---
27	45.69	45.25	45.34	45.69	45.00	---	44.12	---	39.01	39.06	---	---
28	45.62	45.56	45.49	45.66	45.14	---	44.01	---	38.98	38.93	---	---
29	45.71	45.57	45.54	45.51	45.20	44.50	43.83	---	38.94	38.84	---	---
30	45.70	45.59	45.53	45.48	---	44.53	43.88	40.97	38.65	38.89	40.27	---
31	45.76	---	45.29	45.48	---	44.34	---	40.95	---	38.98	40.27	---
MAX	45.76	45.85	45.77	46.16	45.48	45.20	44.53	43.90	40.93	39.06	40.27	41.35

CAL YR 1995 LOW 46.51

WTR YR 1996 LOW 46.16



GROUND-WATER RECORDS

PICKAWAY COUNTY--Continued

393402082572500. Local number, PK-4.

LOCATION.--Lat 39°34'02", long 82°57'25", Hydrologic Unit 05060002, 2 mi south of Circleville.

Owner: E.I. DuPont DeNemours.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 136 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 707 ft above sea level, from topographic map.

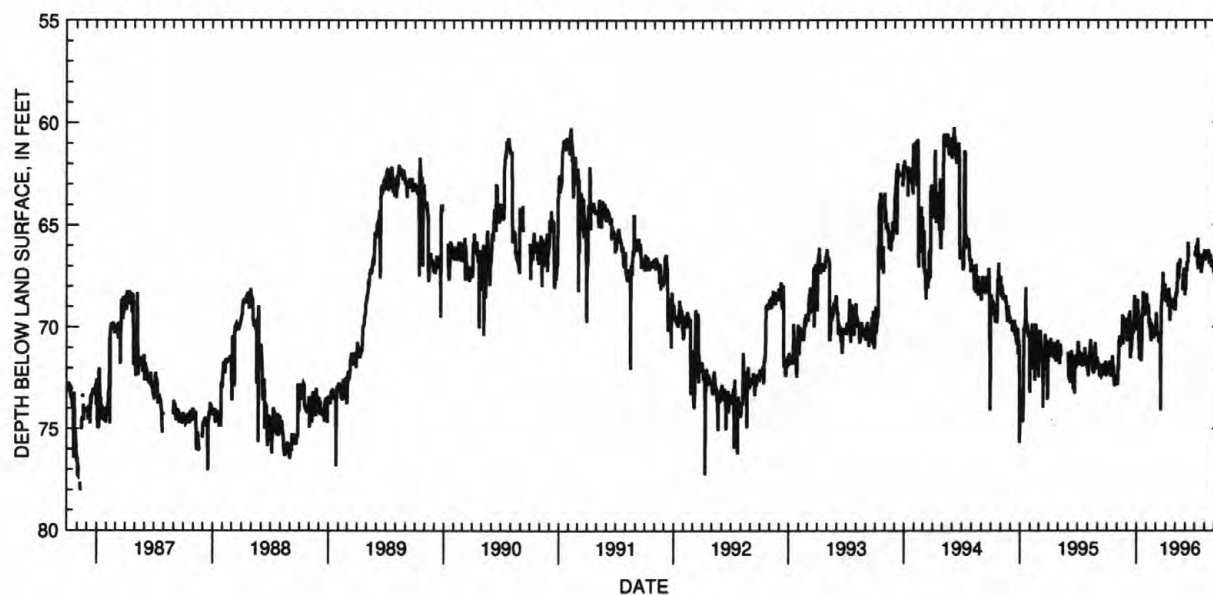
Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--January 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 80.15 ft below land-surface datum, Nov. 3, 1972;
minimum daily low, 47.40 ft below land-surface datum, Feb. 25, 1960.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	72.05	72.40	70.70	70.00	68.35	69.95	68.55	68.65	68.20	66.45	66.60	67.20
2	72.15	72.85	69.80	69.75	68.90	69.30	68.80	68.35	67.80	66.35	66.75	67.35
3	72.15	72.50	69.85	68.70	69.20	69.55	68.70	68.30	67.25	66.55	66.60	68.40
4	72.15	71.85	69.95	68.65	68.90	70.05	68.50	68.50	67.20	66.10	66.40	68.00
5	72.25	72.10	69.55	69.45	69.25	70.45	68.60	68.10	67.20	66.10	66.25	68.15
6	72.05	71.45	69.65	69.15	69.40	70.35	68.60	68.35	66.80	66.55	66.55	67.10
7	72.05	70.65	69.95	70.15	68.90	70.35	68.65	67.45	66.90	66.15	66.30	68.15
8	71.65	70.65	69.35	70.85	69.85	70.20	69.00	67.05	66.75	65.85	66.40	68.75
9	71.90	70.45	69.60	71.35	69.70	70.55	68.85	66.85	65.85	66.95	66.25	68.20
10	72.15	70.95	69.80	71.55	70.05	70.75	68.10	---	66.55	65.65	66.50	68.10
11	72.40	70.85	69.20	71.20	69.65	70.70	68.55	67.65	---	67.05	66.45	67.40
12	72.35	70.85	71.50	71.10	69.65	70.55	68.40	67.15	---	67.15	66.20	66.75
13	72.15	70.45	71.15	71.15	70.35	70.45	69.55	66.80	---	66.80	66.40	66.60
14	72.20	70.85	70.85	71.55	70.50	70.40	69.70	67.10	---	66.40	66.50	67.05
15	72.35	70.45	71.20	71.65	70.70	70.60	68.75	66.65	---	66.70	66.75	67.15
16	72.20	70.35	70.90	71.45	69.80	74.10	68.70	---	---	67.05	66.70	67.25
17	71.40	70.10	70.75	70.30	70.05	69.75	68.85	---	---	67.00	66.65	68.00
18	71.70	69.40	70.35	69.45	70.20	68.75	68.70	---	---	67.05	66.55	68.15
19	71.90	70.85	70.10	69.45	70.15	68.85	68.85	---	---	66.90	66.50	71.60
20	71.85	70.35	69.75	68.90	70.00	68.35	68.65	---	---	67.35	67.00	71.50
21	72.05	69.50	70.25	68.25	70.05	68.30	69.10	---	---	67.30	67.05	71.50
22	72.40	70.10	70.25	68.45	70.55	67.65	68.80	68.05	---	66.90	66.90	70.50
23	72.65	69.90	69.75	68.45	70.30	67.30	69.00	68.20	---	67.05	66.80	70.50
24	72.90	69.70	69.25	68.95	70.50	68.05	68.80	67.40	---	66.85	66.85	70.85
25	72.70	69.60	68.45	69.45	70.25	68.00	68.60	67.60	---	66.70	66.75	71.05
26	72.65	69.90	68.85	68.60	70.00	68.65	69.15	67.25	---	66.50	66.90	70.80
27	72.75	69.70	69.90	68.55	70.25	68.70	68.95	67.10	---	66.50	67.00	70.90
28	72.50	69.85	69.75	68.80	69.95	68.15	68.95	67.55	---	66.75	67.35	71.00
29	72.65	69.65	70.15	69.10	70.15	67.90	69.20	67.65	---	66.65	67.25	71.00
30	72.75	69.70	69.70	68.75	---	68.45	69.10	68.45	---	66.45	67.35	71.05
31	72.35	---	69.95	68.80	---	68.25	---	---	---	66.20	67.15	---
MAX	72.90	72.85	71.50	71.65	70.70	74.10	69.70	68.65	68.20	67.35	67.35	71.60

CAL YR 1995 LOW 74.65
WTR YR 1996 LOW 74.10

GROUND-WATER RECORDS

261

PICKAWAY COUNTY--Continued

393638082572300. Local number, PK-6.

LOCATION.--Lat 39°36'38", long 82°57'23", Hydrologic Unit 05060002, water works plant 1 mi northwest of Circleville.

Owner: Circleville Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 120 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 672 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

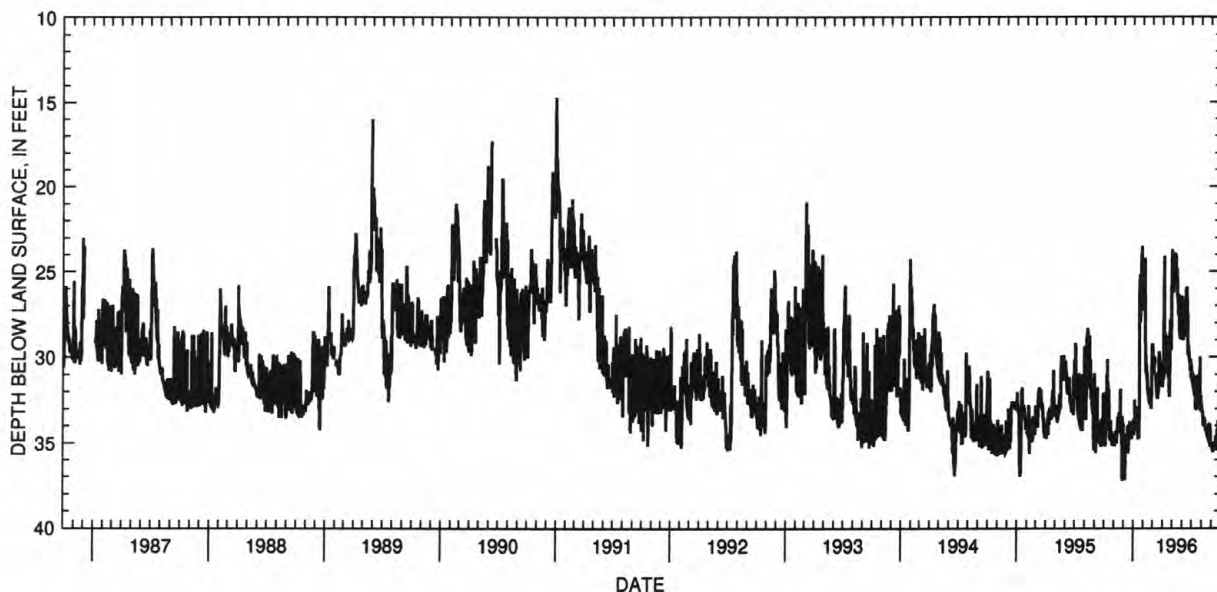
PERIOD OF RECORD.--July 1966 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.32 ft below land-surface datum, Feb. 24, 1977;

minimum daily low, 14.50 ft below land-surface datum, Feb. 2, 1969.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32.15	34.85	33.90	33.75	---	29.25	31.75	24.80	26.45	30.50	33.15	35.00
2	33.50	34.55	34.60	33.65	---	29.35	31.30	23.70	29.00	30.95	32.70	35.00
3	35.00	35.00	35.35	34.55	---	29.70	30.80	26.00	26.80	31.45	33.20	35.30
4	35.10	35.20	35.30	---	---	30.45	31.20	26.00	28.30	31.40	33.15	35.35
5	35.20	34.65	35.10	32.50	---	30.55	31.30	25.85	29.05	30.90	33.20	35.30
6	34.70	34.55	36.90	33.95	---	31.00	29.20	26.25	28.65	31.75	33.70	35.55
7	33.60	34.55	37.20	34.30	24.20	30.15	24.10	25.20	28.20	31.05	33.90	34.95
8	33.95	34.30	35.25	33.90	28.55	30.00	28.80	25.35	28.85	31.80	34.00	35.15
9	34.15	34.85	34.50	33.50	30.95	30.40	29.20	25.40	27.65	31.95	33.55	35.15
10	31.00	35.05	35.10	32.90	29.90	---	28.60	25.85	26.70	32.25	33.50	35.40
11	34.30	34.50	35.35	33.15	30.90	30.95	30.00	23.90	27.25	32.05	33.70	35.25
12	30.15	34.40	35.25	34.15	30.60	31.10	29.85	24.15	26.65	31.90	33.65	34.95
13	33.95	34.45	35.40	33.85	31.30	31.75	29.15	24.55	27.85	32.95	34.10	35.40
14	31.45	33.50	34.65	34.20	30.95	31.80	28.75	24.00	26.00	33.00	34.30	35.10
15	34.05	34.35	34.00	33.75	31.65	32.30	30.95	25.75	27.55	33.00	34.25	34.60
16	34.00	33.65	35.60	34.80	32.15	32.30	30.15	25.45	27.85	31.10	34.05	35.00
17	31.85	34.15	35.50	33.80	31.75	32.45	30.80	24.85	25.90	33.05	34.35	35.45
18	33.50	33.25	35.30	34.45	32.20	32.20	29.70	26.15	28.50	33.00	34.40	35.20
19	34.65	34.45	34.45	34.50	32.40	31.90	30.70	26.70	27.50	31.95	34.55	34.20
20	34.85	34.30	34.25	32.70	32.60	31.95	31.20	26.30	29.90	31.05	34.60	34.95
21	34.40	34.30	33.75	26.45	32.60	30.25	29.90	27.45	29.65	32.15	34.20	35.15
22	34.85	31.85	34.00	25.20	32.75	29.70	31.80	27.60	29.35	31.25	34.75	33.70
23	33.70	34.10	---	27.10	32.35	30.10	32.25	26.35	29.60	32.00	34.25	34.70
24	34.80	34.40	34.30	27.95	32.65	30.25	32.25	28.15	30.15	31.75	34.95	35.00
25	34.80	34.45	34.35	26.60	32.80	30.25	29.30	28.80	30.20	31.75	33.85	35.30
26	34.35	34.35	34.50	24.00	32.95	30.55	27.80	28.45	30.10	31.70	34.85	34.95
27	35.15	34.85	34.70	26.05	33.00	30.80	28.50	28.90	30.80	31.55	34.90	34.95
28	34.85	37.25	34.70	26.00	31.45	30.60	29.35	28.90	30.30	30.00	35.25	35.35
29	34.60	33.45	33.90	23.50	29.60	31.60	29.60	28.75	30.15	33.15	33.90	35.40
30	34.50	34.80	34.40	27.30	---	31.55	27.05	27.70	31.25	32.50	35.05	34.50
31	34.85	---	34.50	25.00	---	31.40	---	---	---	32.25	35.20	---
MAX	35.20	37.25	37.20	34.80	33.00	32.45	32.25	28.90	31.25	33.15	35.25	35.55

CAL YR 1995 LOW 37.25
WTR YR 1996 LOW 37.25

GROUND-WATER RECORDS

PICKAWAY COUNTY--Continued

393438083072200. Local number, PK-8.

LOCATION.--Lat 39°34'38", long 83°07'22", Hydrologic Unit 05060002, 0.5 mi south of Williamsport.

Owner: Village of Williamsport.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 10 in., depth 18 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 723 ft above sea level, from topographic map.

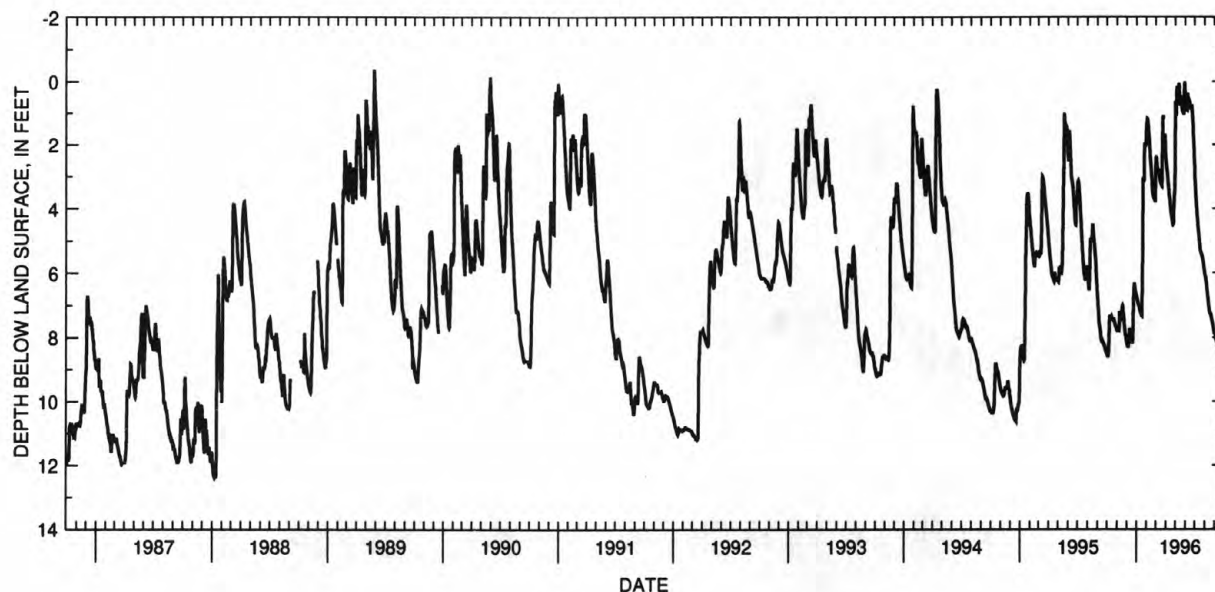
Measuring point: Floor of instrument shelter 0.9 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low 12.38 ft below land-surface datum, Jan. 9, 13-14, 1988;
minimum recorded daily low, 0.15 ft above land-surface datum, May 30, 1990.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.53	7.81	8.15	6.71	1.42	2.45	2.45	.62	.32	2.97	6.06	7.82
2	8.58	7.81	8.21	6.79	1.30	2.36	2.59	.69	.45	3.21	6.09	7.88
3	8.60	7.79	8.26	6.86	1.18	2.50	2.67	.99	.57	3.41	6.10	7.92
4	8.60	7.74	8.29	6.91	1.19	2.65	2.76	1.00	.67	3.59	6.16	8.00
5	8.54	7.76	8.30	6.94	1.27	2.77	2.86	.38	.78	3.78	6.25	8.08
6	8.22	7.78	8.30	6.96	1.39	2.82	2.94	.16	.89	3.94	6.34	8.12
7	8.01	7.79	8.24	6.98	1.54	2.83	3.08	.34	.90	4.07	6.45	8.13
8	7.60	7.64	8.08	6.98	1.66	2.81	3.17	.39	.44	4.23	6.56	8.14
9	7.36	7.18	7.95	7.00	1.83	2.77	3.30	.16	.37	4.36	6.64	8.21
10	7.30	7.30	7.72	7.11	1.97	2.82	3.42	.23	.53	4.51	6.72	8.27
11	7.36	7.33	7.80	7.15	2.15	2.91	3.53	.26	.65	4.63	6.80	8.28
12	7.40	7.34	7.90	7.22	2.34	2.98	3.64	.05	.65	4.73	6.89	8.28
13	7.41	7.44	7.99	7.23	2.49	3.05	3.73	.21	.67	4.83	6.99	8.27
14	7.39	7.45	8.06	7.23	2.66	3.14	3.84	.61	.62	4.92	7.08	8.26
15	7.37	7.42	8.13	7.24	2.73	3.19	3.95	.76	.64	5.02	7.17	8.33
16	7.41	7.14	8.15	7.32	2.92	3.21	4.05	.68	.73	5.14	7.22	8.42
17	7.44	7.02	8.16	7.33	3.06	3.24	4.13	.44	.81	5.28	7.24	8.49
18	7.45	7.01	8.17	6.72	3.22	3.26	4.20	.56	.83	5.33	7.24	8.59
19	7.46	7.05	8.17	5.64	3.38	3.28	4.28	.62	.86	5.36	7.25	8.64
20	7.45	7.18	8.05	3.57	3.54	3.13	4.33	.69	.86	5.39	7.31	8.71
21	7.40	7.31	7.62	3.03	3.60	1.99	4.40	.79	.74	5.41	7.36	8.76
22	7.45	7.44	6.88	3.09	3.64	1.36	4.47	.87	.80	5.43	7.41	8.83
23	7.50	7.55	6.55	3.17	3.67	1.12	4.50	.93	.92	5.46	7.46	8.92
24	7.52	7.66	6.32	3.18	3.67	1.07	4.48	.97	1.11	5.50	7.50	8.98
25	7.57	7.76	6.35	2.17	3.69	1.20	4.15	.99	1.35	5.56	7.55	9.04
26	7.62	7.85	6.44	1.93	3.72	---	3.80	1.01	1.64	5.61	7.60	9.09
27	7.64	7.92	6.51	2.01	3.76	---	3.59	1.01	1.89	5.68	7.66	9.11
28	7.65	7.94	6.59	2.05	3.76	---	3.46	.65	2.14	5.75	7.74	9.10
29	7.65	7.99	6.63	2.05	2.94	1.67	3.41	.24	2.39	5.84	7.79	8.72
30	7.74	8.08	6.64	2.00	---	1.97	1.70	.01	2.60	5.93	7.87	8.25
31	7.78	---	6.68	1.55	---	2.25	---	.15	---	5.99	7.87	---
MAX	8.60	8.08	8.30	7.33	3.76	3.28	4.50	1.01	2.60	5.99	7.87	9.11

CAL YR 1995 LOW 8.73
WTR YR 1996 LOW 9.11

GROUND-WATER RECORDS

263

PICKAWAY COUNTY--Continued

394742083094800. Local number, PK-9.

LOCATION.--Lat 39°47'42", long 83°09'48", Hydrologic Unit 05060002, at Pickaway Correctional Institute near Orient, Ohio.

Owner: State of Ohio.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth 45 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 770 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

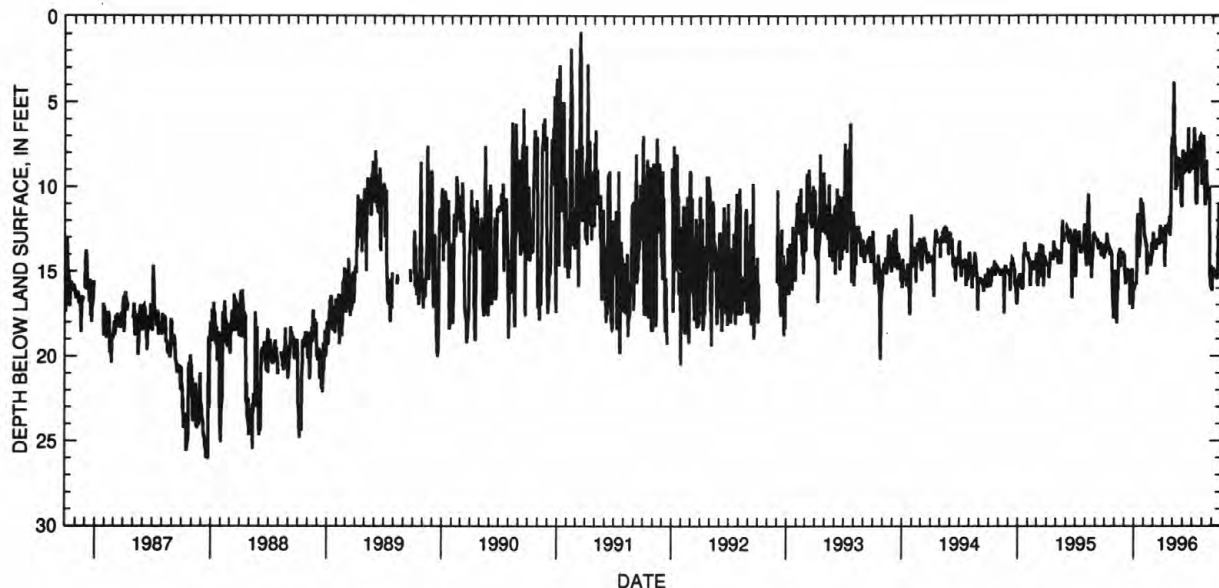
PERIOD OF RECORD.--October 1986 to current year.

REVISIONS.--Water levels published for the period July 2, 1993, to September 30, 1994, are in error. Depth to water surface values are 1 ft less than reported.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 26.10 ft below land-surface datum, Dec. 23, 1987; minimum daily low, 0.90 ft below land-surface datum, Mar. 17, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.85	17.15	14.10	16.00	12.80	12.90	13.35	3.85	9.15	8.80	8.75	15.40
2	13.85	15.45	14.85	16.00	12.90	13.25	12.50	4.55	9.30	9.00	8.25	15.40
3	13.85	14.95	15.10	15.80	13.05	13.50	12.45	6.85	9.05	7.70	7.00	15.00
4	13.80	15.45	15.10	15.75	13.10	13.50	13.20	7.95	8.75	6.65	7.90	15.00
5	13.75	16.05	15.70	15.75	13.10	13.50	14.75	8.00	9.05	6.55	8.70	15.00
6	13.35	16.60	15.75	15.75	13.45	13.50	13.85	7.60	9.15	8.10	9.35	15.05
7	12.75	17.50	15.10	15.75	13.40	13.25	13.50	8.40	9.05	8.25	10.25	15.00
8	12.95	18.10	15.15	15.80	13.40	13.20	12.30	10.15	8.65	7.35	11.10	15.05
9	13.15	16.95	15.30	14.35	14.60	13.75	12.35	10.15	8.00	9.60	10.95	15.15
10	13.30	16.00	15.30	12.45	15.20	13.45	12.65	9.80	8.25	10.60	10.30	15.00
11	13.40	16.00	14.90	11.70	14.75	13.40	12.45	9.95	8.25	10.95	9.80	15.15
12	13.45	15.20	14.85	11.60	13.85	13.35	12.40	9.95	8.25	11.00	8.45	15.15
13	13.45	13.90	15.35	13.35	14.10	13.30	12.40	8.25	8.30	11.05	9.45	15.25
14	13.50	14.45	15.20	13.25	14.35	13.10	12.50	8.55	8.50	10.65	9.90	15.30
15	13.60	14.35	15.00	13.85	14.00	13.15	12.55	8.55	8.40	9.30	10.35	15.40
16	13.65	13.80	15.00	14.20	14.30	13.20	12.15	8.50	6.55	8.35	10.70	15.40
17	14.05	13.65	15.05	13.80	14.35	13.30	12.30	8.30	8.35	7.60	10.75	15.40
18	13.95	14.25	15.90	13.50	14.50	13.35	12.20	8.60	8.95	7.35	10.20	14.20
19	13.70	14.75	16.90	13.45	14.60	13.35	11.75	8.95	9.15	8.10	10.70	13.05
20	13.80	14.30	16.90	11.95	14.60	13.10	12.45	8.80	9.25	8.55	10.35	10.95
21	13.85	14.30	15.25	10.70	14.60	12.35	12.75	8.80	7.80	7.95	10.00	11.80
22	13.95	14.15	16.00	11.60	14.50	12.35	12.90	8.85	8.65	7.05	10.40	11.85
23	14.00	13.90	16.20	12.15	14.40	12.50	11.90	9.35	9.10	7.25	13.55	10.95
24	15.25	13.90	15.20	12.20	13.30	12.50	9.85	9.80	8.90	7.05	15.25	11.80
25	16.25	13.90	14.95	12.15	14.15	12.50	7.95	10.90	8.10	7.00	15.40	13.70
26	16.60	14.20	14.85	10.95	13.90	12.70	7.05	10.90	7.85	7.05	15.95	14.70
27	16.70	13.90	17.25	11.20	13.80	12.70	7.20	11.15	8.15	7.85	15.15	14.15
28	17.45	14.00	17.05	11.60	13.60	12.90	7.75	11.20	8.70	9.70	14.75	14.80
29	17.80	14.00	16.20	11.65	12.70	13.25	7.75	8.50	8.80	9.90	14.75	14.80
30	16.60	14.00	16.05	12.00	---	13.30	5.40	7.85	8.15	9.55	16.00	14.70
31	16.95	---	16.00	12.40	---	13.30	---	8.75	---	8.55	16.15	---
MAX	17.80	18.10	17.25	16.00	15.20	13.75	14.75	11.20	9.30	11.05	16.15	15.40
CAL YR 1995	LOW 18.10											
WTR YR 1996	LOW 18.10											



GROUND-WATER RECORDS

PIKE COUNTY

390359083015100. Local number, PI-2.

LOCATION.--Lat 39°03'59", long 83°01'51", Hydrologic Unit 05060002, 1 mi west of Piketon.

Owner: Goodyear Atomic Corporation.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 60 ft, cased.

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

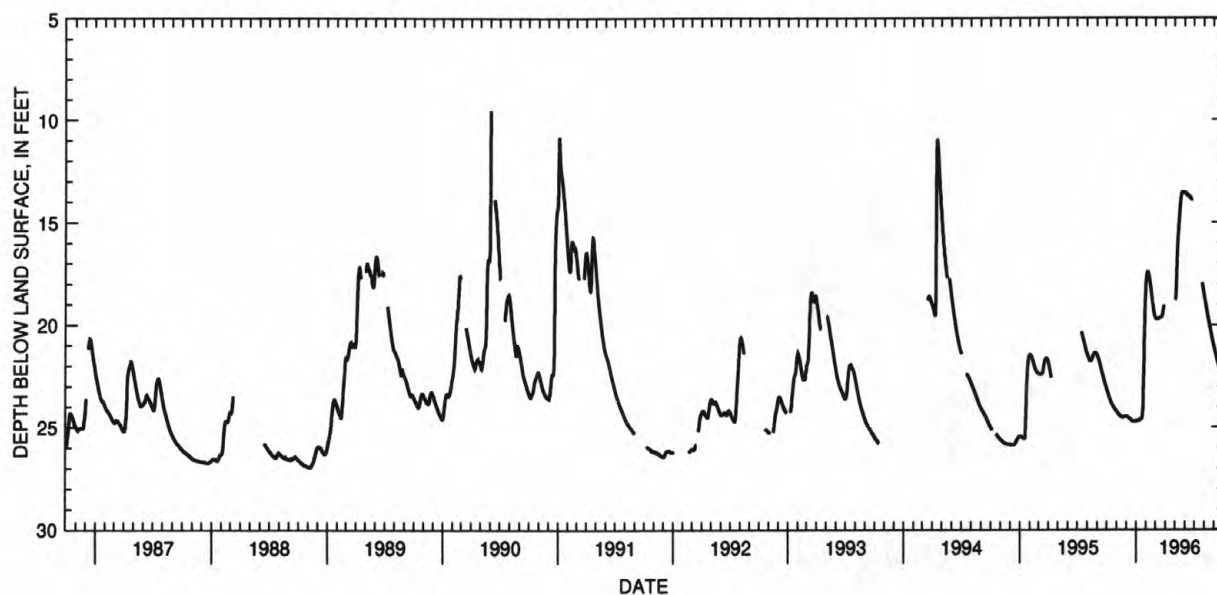
DATUM.--Elevation of land-surface datum is 550 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter, 3.00 ft above land-surface datum.

PERIOD OF RECORD.--September 1969 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 27.46 ft below land-surface datum, Feb. 15, 1977;
minimum daily low, 9.52 ft below land-surface datum, June 1, 1990.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.12	24.23	24.49	24.71	18.08	19.65	---	---	13.58	---	18.55	21.06
2	23.18	24.26	24.49	24.71	17.84	19.68	---	18.82	13.58	---	18.64	21.13
3	23.23	24.28	24.50	24.71	17.67	19.70	---	18.80	13.59	---	18.74	21.20
4	23.28	24.30	24.50	24.71	17.55	19.71	---	18.70	13.60	---	18.84	21.26
5	23.33	24.32	24.51	24.70	17.48	19.71	---	18.45	13.62	---	18.92	21.33
6	23.38	24.35	24.52	24.70	17.43	19.71	---	18.05	13.64	---	19.00	21.39
7	23.44	24.37	24.53	24.69	17.43	19.71	---	17.51	13.67	---	19.07	21.46
8	23.48	24.39	24.54	24.69	17.46	19.71	---	16.94	13.68	---	19.17	21.52
9	23.52	24.41	24.55	24.69	17.51	19.71	---	16.45	13.70	---	19.27	21.59
10	23.56	24.43	24.56	24.69	17.57	19.71	---	16.04	13.71	15.78	19.36	21.65
11	23.59	24.44	24.58	24.69	17.62	19.70	---	15.73	13.71	---	19.43	21.72
12	23.62	24.46	24.59	24.69	17.73	19.69	---	15.46	13.71	---	19.52	21.77
13	23.69	24.47	24.61	24.65	17.83	19.67	---	15.22	13.71	---	19.60	21.83
14	23.73	24.49	24.63	24.64	17.95	19.66	---	15.00	13.76	---	19.69	21.89
15	23.79	24.50	24.64	24.62	18.06	19.66	---	14.78	13.76	---	19.77	21.95
16	23.82	24.50	24.66	24.62	18.19	19.65	---	14.56	13.76	---	19.85	21.99
17	23.85	24.52	24.69	24.62	18.30	19.65	---	14.33	13.80	---	19.92	22.06
18	23.88	24.52	24.69	24.62	18.43	19.65	---	14.11	13.81	---	20.01	22.11
19	23.91	24.52	24.70	24.59	18.57	19.65	---	13.92	13.84	---	20.08	22.17
20	23.93	24.52	24.71	24.55	18.70	19.64	---	13.78	13.86	---	20.11	22.22
21	23.96	24.52	24.72	24.45	18.84	19.63	---	13.68	13.89	---	20.24	22.28
22	23.98	24.51	24.73	24.19	18.95	19.60	---	13.62	13.92	---	20.31	22.32
23	24.01	24.51	24.73	24.00	19.07	19.55	---	13.58	13.97	---	20.39	22.37
24	24.05	24.51	24.74	23.12	19.19	19.48	---	13.56	---	---	20.48	22.42
25	24.08	24.51	24.74	22.42	19.29	19.37	---	13.56	---	---	20.57	22.47
26	24.10	24.50	24.74	21.64	19.39	19.26	---	13.56	---	17.96	20.64	22.51
27	24.12	24.50	24.74	20.76	19.47	19.16	---	13.56	---	18.06	20.72	22.56
28	24.15	24.49	24.74	19.98	19.55	19.05	---	13.56	---	18.16	20.78	22.61
29	24.17	24.49	24.74	19.34	19.61	---	---	13.56	---	18.26	20.85	22.66
30	24.19	24.49	24.72	18.81	---	---	---	13.56	---	18.36	20.92	22.70
31	24.21	---	24.71	18.40	---	---	---	13.57	---	18.43	21.00	---
MAX	24.21	24.52	24.74	24.71	19.61	19.71	---	18.82	13.97	18.43	21.00	22.70

CAL YR 1995 LOW 25.56
WTR YR 1996 LOW 24.74

GROUND-WATER RECORDS

265

PORTAGE COUNTY

411401081025000. Local number, PO-1.

LOCATION.--Lat 41°14'01", long 81°02'50" Hydrologic Unit 05030103. Bauer Street in Windham.

Owner: Cristopher Minter.

AQUIFER.--Sandstone of Pennsylvanian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 980 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 0.60 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

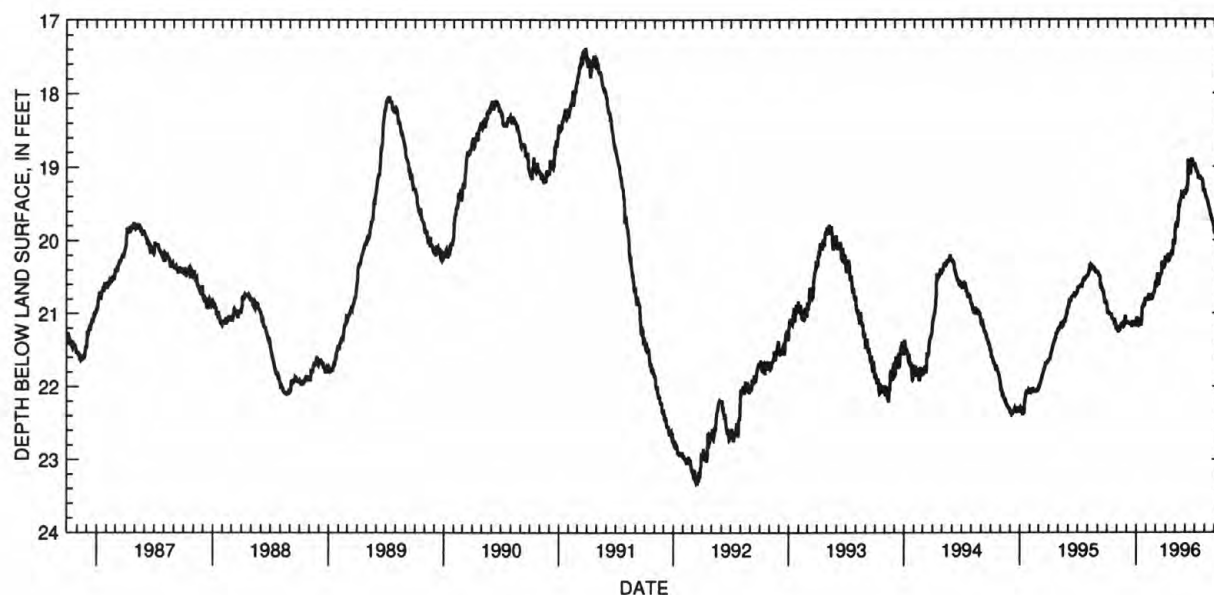
PERIOD OF RECORD.--May 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.32 ft below land-surface datum, Mar. 13, 1992;

minimum daily low, 14.59 ft below land-surface datum, June 24, 1947.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.93	21.22	21.12	21.07	20.80	20.58	20.25	19.80	19.37	19.00	19.34	19.90
2	21.00	21.17	21.14	21.07	20.82	20.55	20.24	19.79	19.34	19.00	19.37	19.90
3	21.00	21.23	21.11	21.10	20.82	20.63	20.23	19.81	19.33	19.01	19.40	19.92
4	21.00	21.25	21.13	21.13	20.82	20.63	20.25	19.82	19.28	19.05	19.42	19.93
5	21.00	21.25	21.13	21.17	20.82	20.52	20.26	19.82	19.33	19.06	19.42	19.97
6	20.97	21.24	21.13	21.17	20.82	20.45	20.23	19.82	19.33	19.06	19.43	19.97
7	21.01	21.19	21.13	21.11	20.78	20.48	20.20	19.76	19.26	19.06	19.45	19.97
8	21.02	21.24	21.14	21.08	20.73	20.52	20.21	19.77	19.21	19.06	19.45	19.88
9	21.02	21.25	21.14	21.07	20.78	20.60	20.20	19.75	18.90	19.08	19.47	19.94
10	21.02	21.23	21.14	21.14	20.78	20.62	20.20	19.71	19.01	19.14	19.49	19.97
11	21.02	21.17	21.14	21.13	20.79	20.60	20.21	19.50	19.04	19.15	19.51	20.00
12	21.02	21.20	21.15	21.08	20.81	20.54	20.21	19.53	19.05	19.15	19.53	20.00
13	21.02	21.18	21.15	21.10	20.81	20.50	20.21	19.56	19.07	19.12	19.55	19.99
14	21.02	21.15	21.14	21.11	20.74	20.49	20.25	19.52	19.07	19.14	19.56	19.97
15	21.02	21.15	21.15	21.17	20.80	20.48	20.24	19.48	19.08	19.15	19.56	19.99
16	21.07	21.18	21.17	21.16	20.81	20.50	20.18	19.46	19.10	19.16	19.60	20.01
17	21.09	21.20	21.18	21.07	20.81	20.46	20.20	19.44	19.10	19.17	19.62	20.04
18	21.08	21.15	21.18	21.01	20.81	20.45	20.19	19.43	18.99	19.17	19.65	20.04
19	21.08	21.16	21.12	20.91	20.80	20.44	20.14	19.42	18.90	19.16	19.67	20.06
20	21.08	21.13	21.12	20.94	20.79	20.29	20.15	19.38	18.89	19.17	19.67	20.07
21	21.07	21.11	21.14	20.90	20.74	20.32	20.20	19.39	18.92	19.17	19.69	20.07
22	21.10	21.13	21.15	20.90	20.74	20.32	20.20	19.40	18.91	19.17	19.71	20.08
23	21.12	21.15	21.15	20.86	20.73	20.35	20.15	19.41	18.96	19.17	19.72	20.08
24	21.14	21.16	21.13	20.88	20.72	20.35	20.02	19.42	18.95	19.20	19.75	20.08
25	21.15	21.15	21.12	20.91	20.72	20.34	19.99	19.42	18.98	19.20	19.75	20.13
26	21.15	21.09	21.12	20.88	20.69	20.36	20.02	19.36	18.99	19.32	19.75	20.13
27	21.13	21.03	21.14	20.80	20.68	20.39	20.05	19.35	18.99	19.32	19.78	20.20
28	21.15	21.15	21.17	20.86	20.60	20.34	20.06	19.32	18.98	19.33	19.82	20.19
29	21.21	21.14	21.17	20.82	20.60	20.28	20.04	19.35	18.98	19.33	19.83	20.17
30	21.21	21.12	21.16	20.78	---	20.29	19.88	19.37	18.95	19.32	19.89	20.16
31	21.22	---	21.12	20.80	---	20.25	---	19.37	---	19.32	19.89	---
MAX	21.22	21.25	21.18	21.17	20.82	20.63	20.26	19.82	19.37	19.33	19.89	20.20

CAL YR 1995 LOW 22.38
WTR YR 1996 LOW 21.25

GROUND-WATER RECORDS

PREBLE COUNTY

394438084335900. Local number, PR-2.

LOCATION.--Lat 39°44'38", long 84°33'59", Hydrologic Unit 05080002, Stover Rd 4 mi east of Eaton.

Owner: Eaton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 78.5 ft, cased.

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

DATUM.--Elevation of land-surface datum is 900 ft above sea level, from topographic map.

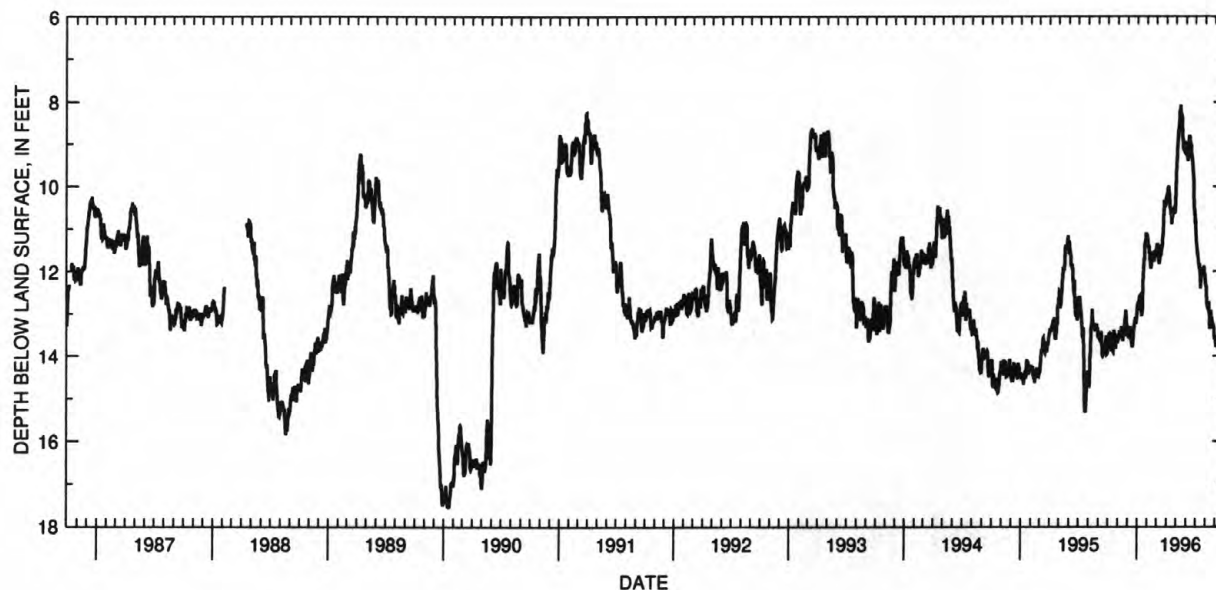
Measuring point: Floor of instrument shelter 1.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 17.58 ft below land-surface datum, Jan. 18, 1990;
minimum daily low, 7.94 ft below land-surface datum, May 4, 1975.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.71	13.60	13.34	12.88	11.35	11.50	10.22	9.72	9.28	10.97	12.21	13.55
2	13.80	13.62	13.55	12.81	11.20	11.34	10.39	9.48	9.22	11.11	12.33	13.63
3	13.77	13.58	13.45	12.72	11.34	11.42	10.18	9.34	9.03	11.28	12.31	13.78
4	13.82	13.58	13.50	12.81	11.43	11.37	10.16	9.17	9.10	11.41	12.36	13.76
5	13.49	13.50	13.48	12.75	11.41	11.35	10.02	8.97	9.37	11.36	12.69	13.70
6	13.46	13.50	13.59	12.73	11.42	11.49	10.06	8.95	9.39	11.61	12.81	13.69
7	13.50	13.40	13.55	12.69	11.57	11.68	9.99	8.73	9.34	11.52	12.80	13.68
8	13.50	13.49	13.47	12.59	11.54	11.76	10.08	8.74	9.22	11.62	12.81	13.51
9	13.47	13.56	13.30	12.58	11.73	11.82	10.18	8.65	9.16	11.71	12.90	13.63
10	13.48	13.50	13.46	12.87	11.71	11.73	10.32	8.56	8.82	11.80	12.91	13.82
11	13.64	13.42	13.42	12.92	11.83	11.72	10.46	8.29	8.82	11.82	12.82	13.80
12	13.89	13.44	13.61	12.80	11.93	11.52	10.50	8.19	8.82	11.94	12.71	13.63
13	13.85	13.30	13.62	12.90	11.90	11.60	10.54	8.26	8.94	11.89	12.98	13.50
14	13.77	13.57	13.66	12.89	11.78	11.63	10.62	8.07	9.00	11.88	13.03	13.50
15	13.66	13.48	13.72	13.06	11.77	11.48	10.62	8.33	9.04	11.94	13.33	13.50
16	13.78	13.51	13.80	12.98	11.74	11.50	10.71	8.34	9.00	12.10	13.33	13.47
17	13.89	13.65	13.76	12.87	11.70	11.46	10.89	8.40	9.32	12.41	13.17	13.54
18	13.90	13.53	13.73	12.56	11.62	11.41	10.70	8.28	9.23	12.15	12.92	13.65
19	13.67	13.52	13.64	12.14	11.53	11.37	10.72	8.41	9.33	12.05	13.06	13.67
20	13.39	13.50	13.49	11.99	11.59	11.17	10.62	8.68	9.35	12.02	13.18	13.70
21	13.43	13.53	13.31	11.86	11.63	11.11	10.60	8.90	9.49	11.97	13.18	13.70
22	13.53	13.44	13.33	11.70	11.77	10.88	10.59	8.92	9.62	11.96	13.17	13.48
23	13.46	13.27	13.25	11.73	11.61	10.64	10.53	9.11	9.67	12.03	13.28	13.55
24	13.54	13.13	13.21	11.37	11.58	10.50	10.51	9.11	9.80	12.04	13.34	13.55
25	13.82	13.03	13.16	11.32	11.57	10.35	10.52	9.13	10.34	11.96	13.24	13.49
26	13.80	12.91	13.09	11.29	11.55	10.35	10.61	9.11	10.51	12.11	13.27	13.34
27	13.51	13.01	13.22	11.25	11.49	10.50	10.61	9.11	10.55	12.01	13.31	13.28
28	13.62	13.23	13.22	11.09	11.65	10.39	10.55	9.10	10.67	11.87	13.34	13.03
29	13.64	13.35	13.15	11.13	11.60	10.44	10.35	8.94	10.82	12.15	13.50	13.12
30	13.70	13.35	13.06	11.23	---	10.37	9.96	8.98	10.81	12.05	13.61	13.00
31	13.64	---	12.98	11.11	---	10.29	---	9.05	---	12.11	13.51	---
MAX	13.90	13.65	13.80	13.06	11.93	11.82	10.89	9.72	10.82	12.41	13.61	13.82

CAL YR 1995 LOW 15.32
WTR YR 1996 LOW 13.90

GROUND-WATER RECORDS

267

RICHLAND COUNTY

404625082305100. Local number, R-4.

LOCATION.--Lat 40°46'25", long 82°30'51", Hydrologic Unit 05040002, at Ohio Brass Plant in Mansfield.

Owner: Ohio Brass Company

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 14 in., depth 127 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1150 ft above sea level, from topographic map.

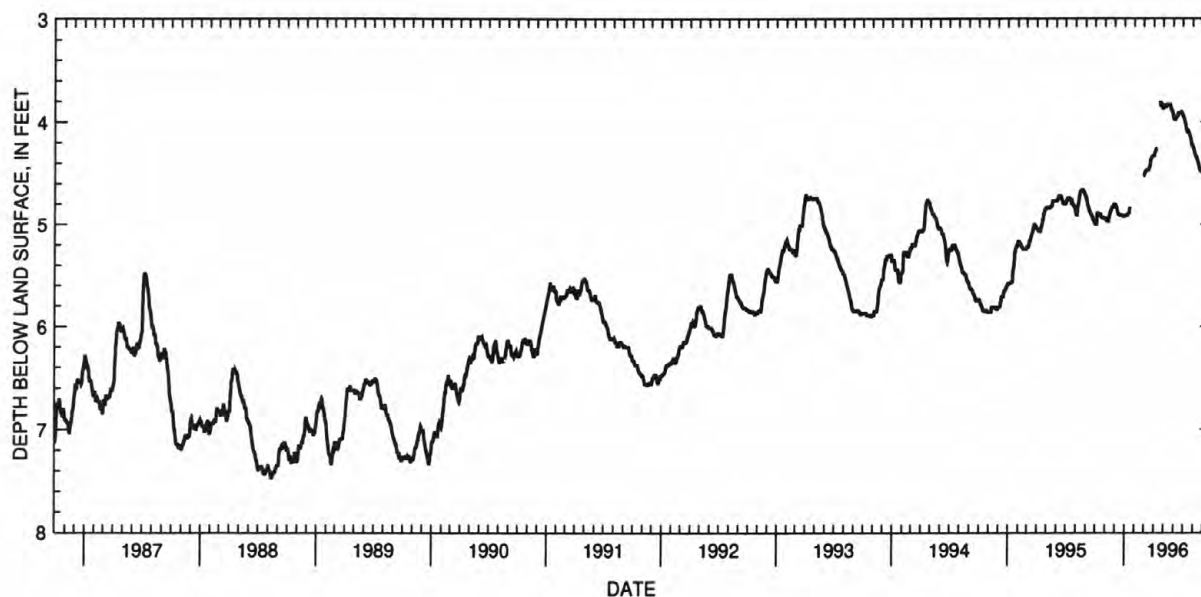
Measuring point: Top of platform 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1942 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 60.10 ft below land-surface datum, Oct. 12, 13, 19, 20, 1962;
minimum daily low, 3.80 ft below land-surface datum, Apr. 21, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.00	4.95	4.80	4.92	---	4.52	4.33	3.85	3.95	3.94	4.24	4.50
2	5.00	4.95	4.80	4.92	---	4.51	4.32	3.84	3.96	3.94	4.25	4.50
3	5.00	4.95	4.81	4.91	---	4.49	4.31	3.84	3.97	3.95	4.26	4.51
4	5.00	4.95	4.81	4.91	---	4.49	4.29	3.84	3.97	3.96	4.27	4.52
5	5.00	4.95	4.82	4.91	---	4.49	4.28	3.84	3.98	3.98	4.28	4.52
6	4.91	4.96	4.83	4.91	---	4.48	4.28	3.84	3.98	3.99	4.30	4.53
7	4.89	4.97	4.84	4.91	---	4.47	4.28	3.84	3.98	4.00	4.31	4.53
8	4.89	4.97	4.85	4.91	---	4.47	4.27	3.85	3.96	4.01	4.32	4.49
9	4.89	4.97	4.87	4.91	---	4.47	4.26	3.85	3.96	4.02	4.33	4.49
10	4.89	4.97	4.89	4.91	---	4.47	4.26	3.85	3.95	4.04	4.34	4.49
11	4.90	4.97	4.90	4.90	---	4.47	4.26	3.84	3.95	4.07	4.34	4.48
12	4.90	4.93	4.90	4.89	---	4.47	4.26	3.83	3.95	4.08	4.35	4.48
13	4.90	4.93	4.90	4.89	---	4.47	---	3.83	3.94	4.09	4.35	4.48
14	4.91	4.91	4.90	4.89	---	4.47	---	3.83	3.94	4.10	4.37	4.48
15	4.91	4.90	4.91	4.89	---	4.47	---	3.83	3.92	4.10	4.37	4.48
16	4.90	4.89	4.91	4.85	---	4.45	---	3.83	3.91	4.07	4.39	4.48
17	4.90	4.87	4.91	4.83	---	4.45	---	3.83	3.91	4.09	4.40	4.48
18	4.92	4.87	4.91	---	---	4.44	---	3.83	3.91	4.10	4.41	4.48
19	4.92	4.86	4.91	---	---	4.43	---	3.83	3.91	4.10	4.42	4.47
20	4.93	4.86	4.91	---	---	4.40	---	3.83	3.91	4.11	4.44	4.47
21	4.93	4.85	4.91	---	---	4.37	3.80	3.83	3.91	4.12	4.46	4.47
22	4.93	4.83	4.91	---	---	4.36	3.84	3.83	3.91	4.13	4.47	4.47
23	4.93	4.83	4.91	---	---	4.35	3.84	3.85	3.91	4.14	4.48	4.46
24	4.93	4.83	4.91	---	---	4.35	3.81	3.86	3.91	4.15	4.46	4.45
25	4.93	4.83	4.91	---	---	4.35	3.83	3.88	3.90	4.17	4.46	4.45
26	4.94	4.83	4.91	---	---	4.33	3.83	3.88	3.90	4.18	4.46	4.45
27	4.94	4.82	4.92	---	---	4.33	3.84	3.89	3.91	4.20	4.47	4.45
28	4.94	4.80	4.92	---	4.52	4.33	3.86	3.89	3.92	4.22	4.47	4.43
29	4.94	4.80	4.92	---	4.52	4.33	3.87	3.90	3.92	4.23	4.48	4.40
30	4.94	4.80	4.92	---	---	4.33	3.87	3.91	3.93	4.23	4.49	4.39
31	4.94	---	4.92	---	---	4.33	---	3.93	---	4.23	4.49	---
MAX	5.00	4.97	4.92	4.92	4.52	4.52	4.33	3.93	3.98	4.23	4.49	4.53

CAL YR 1995 LOW 5.59
WTR YR 1996 LOW 5.00

GROUND-WATER RECORDS

RICHLAND COUNTY--Continued

405753082360800. Local number, R-3.

LOCATION.--Lat 40°57'53", long 82°36'08", Hydrologic Unit 05040002, Voisard plant in Shiloh.

Owner: Voisard Corp.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 150 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1080 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.17 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water. Published in WDR OH Vol. 2 prior to 1995 water year.

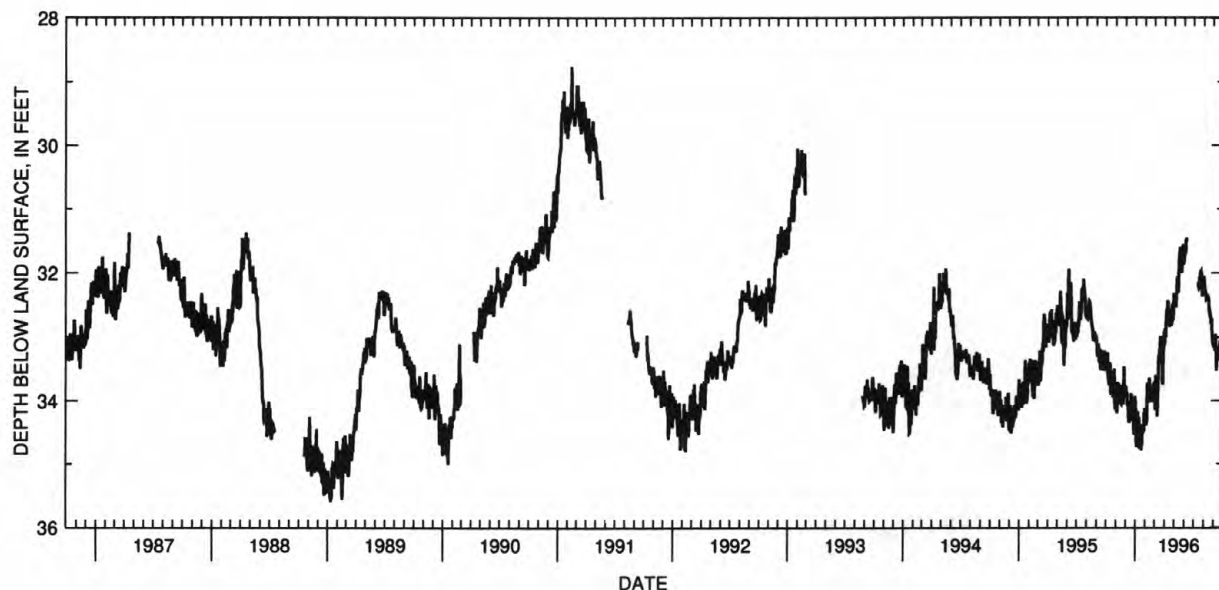
PERIOD OF RECORD.--April 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 35.90 ft below land-surface datum, Feb. 12, 1981;
minimum daily low, 23.68 ft below land-surface datum, June 15, 23, 1947.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33.38	33.99	33.77	34.00	34.25	33.90	33.10	32.41	31.81	---	32.05	33.00
2	33.41	33.78	33.88	34.02	34.28	33.69	33.11	32.48	31.71	---	32.08	33.04
3	33.39	33.99	33.78	34.22	34.31	34.13	32.87	32.43	31.64	---	32.16	33.11
4	33.39	34.18	33.91	34.51	34.39	34.14	32.95	32.48	31.58	---	32.23	33.13
5	33.37	34.18	33.89	34.72	34.35	33.60	33.00	32.49	31.71	---	32.27	33.21
6	33.24	34.00	33.86	34.72	34.31	33.66	32.77	32.53	31.67	---	32.31	33.18
7	33.53	33.71	34.06	34.46	34.02	33.76	32.66	32.51	31.48	---	32.31	32.96
8	33.63	34.00	34.06	34.29	33.72	33.88	32.59	32.34	31.51	---	32.33	32.97
9	33.62	34.05	34.01	34.17	33.83	34.22	32.59	32.28	31.45	---	32.42	33.04
10	33.71	33.74	34.06	34.54	33.73	34.25	32.54	32.13	---	---	32.41	33.39
11	33.74	33.77	34.24	34.53	33.86	34.08	32.45	32.05	---	---	32.40	33.53
12	33.75	33.89	34.35	34.26	34.01	33.76	32.45	32.17	---	---	32.34	33.41
13	33.65	33.86	34.33	34.29	34.01	33.57	32.59	32.24	---	---	32.38	33.23
14	33.40	33.83	34.06	34.42	33.64	33.32	32.80	32.31	---	---	32.39	33.15
15	33.49	33.84	34.11	34.77	33.94	33.29	32.62	32.11	---	32.15	32.35	33.23
16	33.84	34.03	34.28	34.72	33.99	33.28	32.73	31.88	---	32.22	32.41	33.23
17	33.91	34.04	34.32	34.42	33.84	33.20	32.84	31.74	---	32.24	32.46	33.31
18	33.80	33.92	34.23	34.41	33.90	33.19	32.73	31.70	---	32.23	32.56	33.32
19	33.86	33.95	33.91	34.73	33.88	33.00	32.55	31.71	---	32.06	32.62	33.31
20	33.60	33.86	33.89	34.79	33.93	32.99	32.63	31.60	---	32.12	32.61	33.25
21	33.54	33.76	34.10	34.69	34.02	33.13	32.83	31.73	---	32.08	32.61	33.16
22	33.84	33.83	34.10	34.69	34.00	33.24	32.78	31.78	---	31.96	32.68	33.05
23	33.90	33.98	34.08	34.38	33.88	33.43	32.79	31.87	---	31.99	32.74	33.22
24	33.89	34.06	34.07	34.48	33.98	33.38	32.79	32.00	---	31.98	32.79	33.20
25	33.95	33.96	34.09	34.52	33.98	33.38	32.49	31.97	---	32.03	32.73	33.36
26	33.85	33.79	34.10	34.40	33.84	33.73	32.56	31.79	---	32.17	32.70	33.37
27	33.50	33.46	34.38	34.48	33.73	33.73	32.66	31.65	---	32.34	32.87	33.09
28	33.73	33.89	34.52	34.49	33.99	33.41	32.74	31.56	---	32.34	33.03	33.14
29	34.06	33.90	34.53	34.19	33.98	33.19	32.51	31.76	---	32.22	33.05	33.32
30	34.14	33.87	34.45	34.21	---	33.15	32.32	31.87	---	32.06	33.08	33.39
31	34.07	---	33.93	34.12	---	32.91	---	31.83	---	32.09	33.06	---
MAX	34.14	34.18	34.53	34.79	34.39	34.25	33.11	32.53	31.81	32.34	33.08	33.53

CAL YR 1995 LOW 34.53

WTR YR 1996 LOW 34.79



GROUND-WATER RECORDS

269

ROSS COUNTY

391341083172200. Local number, RO-7.

LOCATION.--Lat 39°13'41", long 83°17'22", Hydrologic Unit 05060003, Highland County well field, 1 mi west of Bainbridge.

Owner: Highland County Water Company.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 67 ft, cased.

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

DATUM.--Elevation of land-surface datum is 740 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

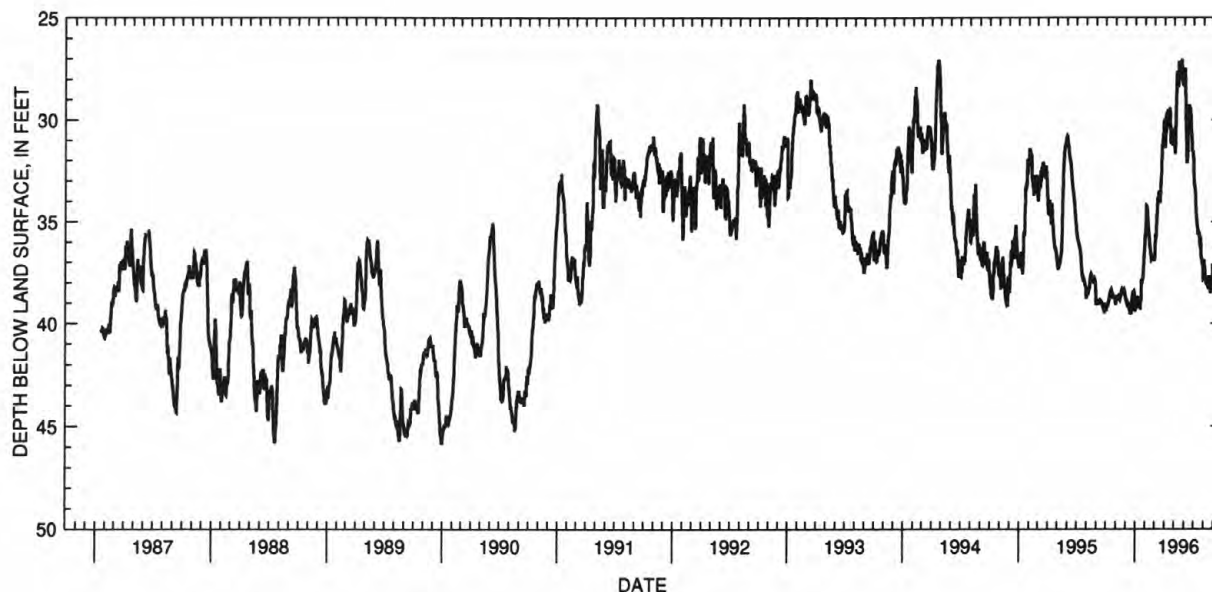
PERIOD OF RECORD.--February 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 45.88 ft below land-surface datum, Dec. 31, 1989;
minimum daily low, 20.93 ft below land-surface datum, Feb. 28, 1971.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39.10	39.08	38.64	39.42	35.85	36.87	31.07	31.00	28.05	32.53	37.82	38.08
2	39.40	39.00	38.71	39.23	35.62	36.78	31.28	31.19	28.07	32.84	37.79	38.07
3	39.28	38.82	38.80	39.31	35.36	36.67	31.39	31.56	27.46	33.18	36.86	38.02
4	39.24	38.83	38.88	39.23	35.29	35.59	30.40	31.69	27.99	33.20	37.21	37.52
5	39.11	38.77	38.94	38.97	34.20	35.79	30.66	30.83	29.07	33.28	37.27	37.58
6	39.10	38.68	38.98	38.88	34.22	35.83	29.68	29.79	29.97	33.58	37.42	37.45
7	39.19	38.68	39.02	38.81	34.24	35.59	30.26	28.98	30.58	33.86	37.78	36.35
8	39.08	38.66	38.97	38.74	34.49	34.61	30.40	28.25	31.16	34.21	37.87	36.92
9	39.01	38.81	39.04	38.71	34.79	34.79	29.58	27.60	31.78	34.59	37.97	37.26
10	38.96	38.81	39.03	38.72	34.99	34.40	29.96	28.37	32.14	34.78	37.97	37.47
11	38.85	38.72	39.08	38.82	35.25	34.07	29.49	27.99	31.79	34.96	38.05	37.69
12	38.79	38.75	39.15	39.00	35.47	33.78	30.09	28.41	31.69	35.25	38.06	37.58
13	38.67	38.78	39.13	39.02	35.61	34.06	29.77	28.08	30.37	35.11	37.86	37.12
14	38.61	38.82	39.25	39.05	35.81	33.76	30.08	28.36	30.08	35.50	38.03	37.07
15	38.51	38.74	39.32	39.17	36.05	33.50	30.02	27.12	29.82	35.63	38.13	36.79
16	38.44	38.67	39.42	39.22	36.19	33.78	30.27	27.86	29.25	35.41	38.22	37.20
17	38.48	38.65	39.50	39.23	36.31	33.80	29.39	27.97	29.37	35.62	38.21	36.65
18	38.43	38.59	39.50	39.08	36.46	33.99	30.25	27.28	29.46	35.50	37.67	36.06
19	38.37	38.44	39.50	38.84	36.58	34.08	30.48	27.67	29.46	35.57	37.89	36.47
20	38.46	38.45	39.47	38.75	36.72	33.59	31.01	27.99	29.89	35.90	38.06	36.60
21	38.48	38.36	39.34	37.88	36.84	32.94	31.19	27.35	29.68	36.07	38.11	36.83
22	38.58	38.41	38.98	37.92	36.80	32.67	30.77	27.66	30.18	36.25	38.19	36.14
23	38.58	38.41	38.73	37.94	36.68	32.66	31.02	27.86	30.54	35.72	38.51	36.38
24	38.72	38.42	38.62	37.88	36.69	31.68	30.42	27.01	30.71	36.43	38.38	36.23
25	38.72	38.42	38.49	37.84	36.69	31.23	31.08	27.60	31.10	36.81	37.88	35.95
26	38.70	38.34	38.44	37.63	36.70	31.27	31.26	27.89	31.47	36.74	37.86	36.01
27	38.59	38.40	38.43	37.36	36.80	30.85	30.44	28.16	31.57	36.86	38.23	36.60
28	38.65	38.35	38.40	37.10	36.88	30.64	31.01	28.17	31.51	36.98	37.79	37.02
29	38.71	38.38	38.50	36.82	36.88	30.85	31.18	28.28	31.76	37.07	37.91	37.37
30	38.77	38.54	38.60	36.49	---	29.96	30.42	28.30	31.79	37.11	37.08	37.79
31	38.79	---	38.68	36.13	---	30.61	---	27.53	---	37.39	37.66	---
MAX	39.40	39.08	39.50	39.42	36.88	36.87	31.39	31.69	32.14	37.39	38.51	38.08

CAL YR 1995 LOW 39.50

WTR YR 1996 LOW 39.50



GROUND-WATER RECORDS

ROSS COUNTY--Continued.

391913082580500. Local number, RO-8.

LOCATION.--Lat 39°19'13", long 82°58'05", Hydrologic Unit 05060003, Mead Paper wood yard in Chillicothe.

Owner: Mead Paper Corp.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 95 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 631.30 ft above sea level.

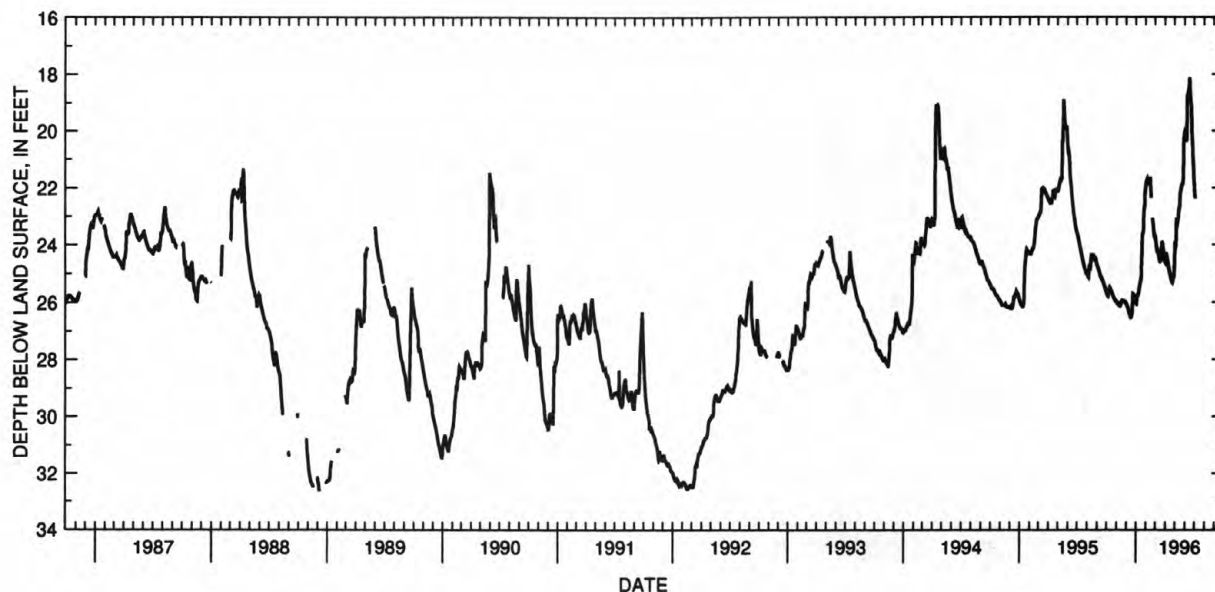
Measuring point: Floor of instrument shelter 3.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 32.65 ft below land-surface datum, Dec. 7, 1988;
minimum daily low, 18.14 ft below land-surface datum, June 16, 1996.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.67	25.98	26.05	26.04	21.87	23.71	24.62	23.92	20.05	22.05	---	---
2	25.70	25.99	26.07	26.05	21.82	23.82	24.54	23.96	19.98	22.21	---	---
3	25.74	26.02	26.10	25.88	21.74	23.96	24.35	24.09	19.97	22.39	---	---
4	25.78	26.05	26.13	25.76	21.73	24.05	24.34	24.13	19.88	---	---	---
5	25.79	26.05	26.15	25.76	21.70	24.15	24.36	23.55	20.17	---	---	---
6	25.70	26.03	26.18	25.77	21.76	24.20	24.41	23.07	20.38	---	---	---
7	25.70	26.04	26.22	25.77	21.85	24.19	24.49	23.29	20.33	---	---	---
8	25.63	26.09	26.24	25.73	21.85	24.14	24.56	23.31	19.47	---	---	---
9	25.53	26.11	26.29	25.63	21.86	24.22	24.62	23.26	18.76	---	---	---
10	25.49	26.13	26.37	25.55	21.86	24.28	24.71	23.10	18.74	---	---	---
11	25.51	26.14	26.37	25.49	21.73	24.32	24.77	23.13	18.74	---	---	---
12	25.51	26.14	26.39	25.42	21.75	24.41	24.83	23.03	18.66	---	---	---
13	25.54	26.11	26.43	25.36	21.75	24.50	24.91	22.78	18.57	---	---	---
14	25.59	26.08	26.51	25.31	21.63	24.56	24.96	22.72	18.58	---	---	---
15	25.59	26.01	26.54	25.27	21.85	24.58	25.01	22.72	18.42	---	---	---
16	25.61	25.98	26.54	25.23	22.06	24.55	25.07	22.59	18.14	---	---	---
17	25.64	25.96	26.52	25.11	22.37	24.43	25.10	22.23	18.16	---	---	---
18	25.70	25.94	26.45	24.73	---	24.44	25.15	22.21	18.53	---	---	---
19	25.73	25.95	26.40	24.38	---	24.46	25.21	22.13	18.86	---	---	---
20	25.75	25.94	26.25	23.75	---	24.40	25.26	22.05	19.04	---	---	---
21	25.79	25.94	25.93	23.63	23.09	23.95	25.28	21.98	19.04	---	---	---
22	25.82	25.95	25.70	23.62	23.18	23.94	25.32	21.93	19.53	---	---	---
23	25.83	25.96	25.71	23.60	23.28	23.99	25.33	21.90	20.01	---	---	---
24	25.86	25.97	25.77	23.53	23.42	24.03	25.25	21.90	20.31	---	---	---
25	25.89	25.97	25.81	22.98	23.53	24.13	25.01	21.85	20.57	---	---	---
26	25.90	25.97	25.84	22.77	23.62	24.23	25.13	21.84	20.85	---	---	---
27	25.91	25.97	25.89	22.68	23.72	24.29	25.13	21.66	21.12	---	---	---
28	25.94	26.02	25.94	22.66	23.74	24.37	25.02	20.94	21.36	---	---	---
29	25.96	26.02	25.97	22.24	23.69	24.49	24.90	20.32	21.61	---	---	---
30	25.96	26.02	25.99	22.09	---	24.55	24.37	20.19	21.83	---	---	---
31	25.98	---	26.01	21.94	---	24.59	---	20.18	---	---	---	---
MAX	25.98	26.14	26.54	26.05	23.74	24.59	25.33	24.13	21.83	22.39	---	---
CAL YR 1995	LOW 26.54											
WTR YR 1996	LOW 26.54											



GROUND-WATER RECORDS

271

SHELBY COUNTY

401707084103100. Local number, SH-5.

LOCATION.--Lat 40°17'07", long 84°10'31", Hydrologic Unit 05080001, at Sidney.

Owner: Stolle Corporation.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 300 ft, cased to 130 ft.

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

DATUM.--Elevation of land-surface datum is 1,028 ft above sea level, from topographic map.

Measuring point: Top of platform 1.7 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

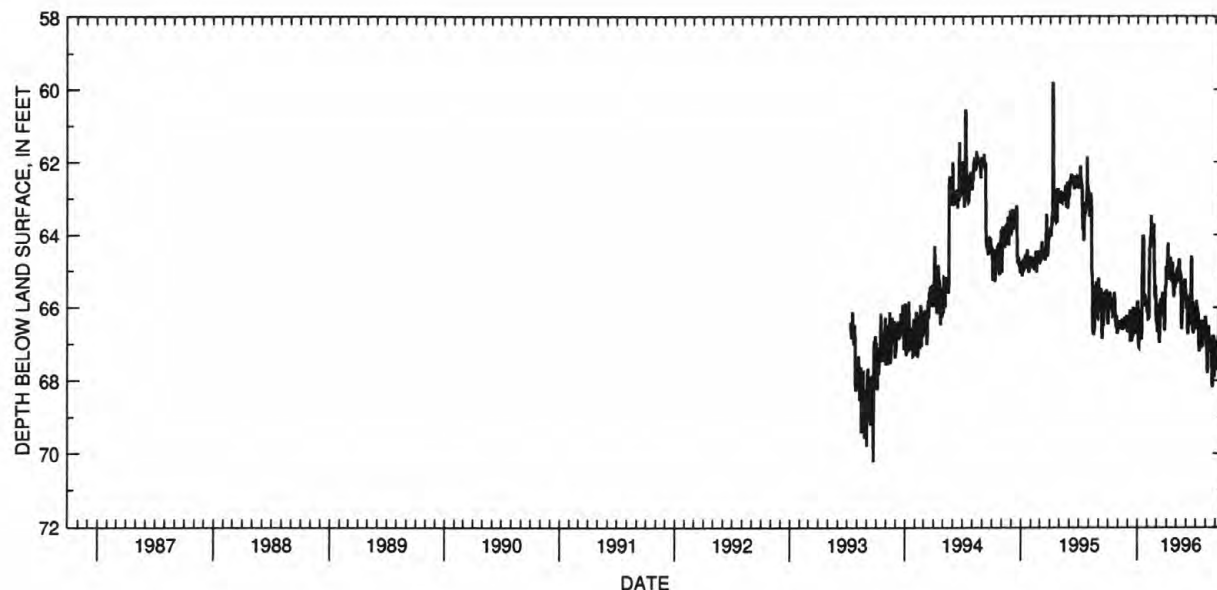
PERIOD OF RECORD.--July 1993 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 70.22 ft below land-surface datum, Sept. 23, 1993;
minimum daily low, 59.79 ft below land-surface datum, Apr. 10, 1995.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66.47	66.64	66.67	65.86	66.08	66.38	65.18	65.35	65.82	66.39	66.25	67.04
2	66.24	66.39	66.66	65.82	66.15	65.88	65.24	65.16	65.66	66.09	66.42	67.11
3	65.83	66.50	66.65	66.25	66.22	66.59	65.08	65.00	66.04	66.11	66.63	67.26
4	66.10	66.53	66.63	66.63	66.32	66.69	64.65	64.93	65.76	65.81	66.74	67.25
5	65.83	66.58	66.50	67.07	66.31	66.15	64.23	64.98	65.71	66.16	67.21	66.93
6	65.62	66.43	66.54	67.09	66.27	65.99	64.86	65.09	66.58	65.95	67.38	67.18
7	65.62	66.40	66.55	66.91	65.27	66.17	65.04	65.00	66.74	66.19	67.79	67.71
8	65.74	66.38	66.55	66.15	64.37	66.48	65.20	64.92	66.22	66.14	67.65	67.17
9	65.81	66.54	66.07	66.03	64.36	66.82	65.14	64.84	66.47	66.17	66.87	67.01
10	65.88	66.55	66.91	66.75	64.11	66.98	65.23	64.69	66.47	66.34	66.54	66.80
11	66.01	66.56	66.91	66.60	64.03	66.75	65.06	64.72	66.38	66.97	66.54	66.84
12	66.03	66.51	66.53	66.75	64.11	66.40	64.62	65.17	66.46	67.22	66.75	66.32
13	65.84	66.37	66.58	66.74	63.46	66.19	64.70	65.28	66.40	67.14	67.18	66.04
14	65.76	66.36	66.95	66.59	64.32	65.77	65.11	65.33	65.67	67.00	67.08	65.96
15	65.79	66.33	66.76	66.88	63.98	65.80	65.01	65.03	65.74	66.68	67.18	66.26
16	66.24	66.50	66.74	64.97	64.01	66.08	65.12	65.19	65.54	66.38	66.94	66.38
17	66.23	66.53	66.82	64.34	63.91	66.02	65.29	66.25	64.88	66.83	66.78	66.48
18	65.97	66.45	66.77	64.01	63.95	66.03	64.81	66.61	64.60	66.89	66.86	66.15
19	65.84	66.46	65.99	64.05	63.71	65.97	64.77	66.33	65.75	67.12	66.80	66.13
20	65.73	66.56	66.22	64.15	63.80	65.59	64.97	66.21	65.81	66.80	67.21	66.64
21	65.59	66.55	66.19	65.65	63.79	65.80	65.25	65.94	66.00	66.35	67.58	66.65
22	65.87	66.27	66.40	65.69	64.63	65.96	65.23	65.65	66.67	66.93	68.18	66.03
23	65.88	66.37	66.38	65.68	65.11	66.23	65.62	65.52	65.86	67.07	68.11	66.08
24	66.23	66.48	66.09	65.65	65.52	66.20	65.73	65.54	66.72	66.74	67.08	66.12
25	66.48	66.39	66.08	65.83	65.77	65.83	65.06	65.69	66.01	66.53	66.77	66.24
26	66.52	66.33	66.39	65.81	65.47	66.64	65.24	65.45	66.16	66.54	66.81	66.24
27	66.23	66.37	66.55	65.86	65.41	66.34	65.48	65.29	66.39	66.39	66.83	66.25
28	66.27	66.22	66.70	65.98	66.03	65.75	65.34	65.24	66.42	66.60	66.96	65.94
29	66.61	66.50	66.72	65.85	66.44	65.42	65.07	65.22	66.60	66.74	67.91	66.06
30	66.71	66.44	66.27	65.86	---	65.40	65.28	65.60	66.55	66.56	67.74	66.18
31	66.68	---	66.04	65.95	---	64.87	---	65.66	---	66.37	67.10	---
MAX	66.71	66.64	66.95	67.09	66.44	66.98	65.73	66.61	66.74	67.22	68.18	67.71

CAL YR 1995 LOW 66.95

WTR YR 1996 LOW 68.18



GROUND-WATER RECORDS

STARK COUNTY

404939081203800. Local number, ST-5A.

LOCATION.--Lat 40°49'39", long 81°20'38", Hydrologic Unit 05040001, Northeast well field off Harrisburg Rd, Canton.

Owner: Canton Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 12 in., depth 132 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 1.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1949 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 54.00 ft below land-surface datum, Feb. 10, 1956;

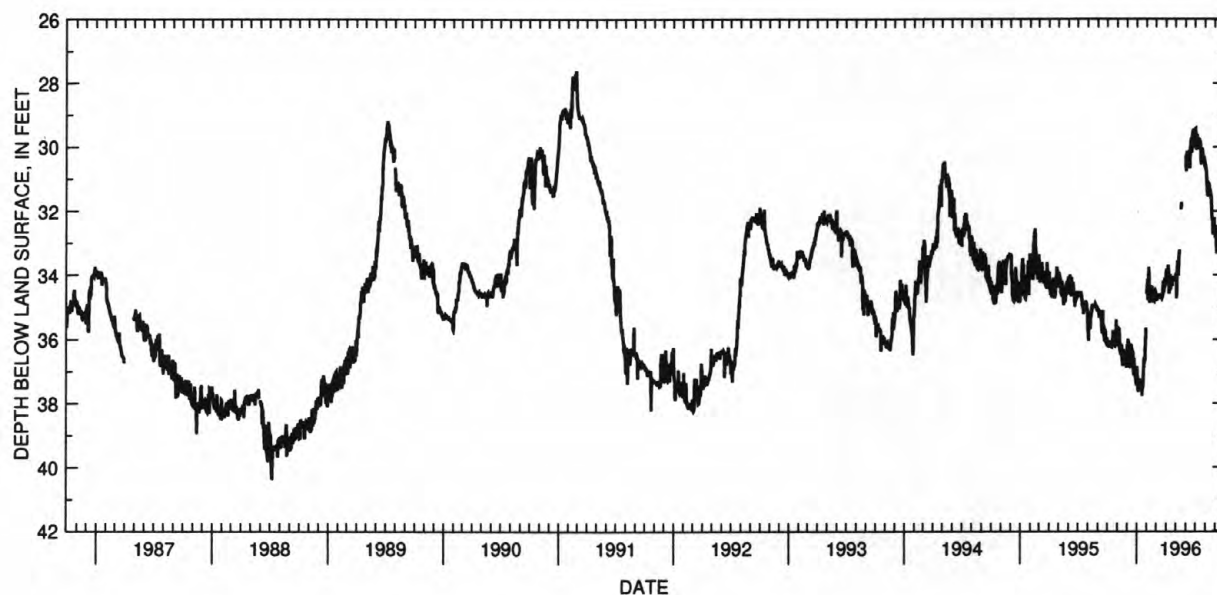
minimum daily low, 26.13 ft below land-surface datum, May 18, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.23	36.09	36.66	36.85	34.50	34.77	33.91	34.01	30.30	29.45	30.60	32.83
2	36.05	35.60	36.26	37.10	34.31	34.80	33.82	33.94	30.76	29.44	30.60	32.45
3	36.19	36.01	36.27	37.22	34.14	34.65	34.03	34.73	30.33	29.80	30.75	32.70
4	36.20	36.13	36.03	37.49	34.78	34.75	33.84	33.99	30.24	30.09	30.72	33.00
5	36.21	36.22	36.01	37.61	34.32	34.59	33.96	33.85	30.26	29.65	31.00	33.32
6	36.24	35.65	36.32	37.64	33.94	34.67	33.95	33.69	30.25	29.65	31.24	32.69
7	36.15	35.82	36.56	37.33	33.76	34.62	33.69	33.71	30.22	29.65	31.38	32.95
8	36.23	36.17	36.72	37.23	34.44	34.69	33.77	33.82	30.22	30.08	31.53	33.17
9	36.05	36.36	36.77	37.31	34.82	34.64	34.20	34.02	30.19	29.72	31.26	32.66
10	36.21	36.27	36.83	37.34	34.86	34.71	34.59	33.47	30.16	29.75	31.33	32.76
11	36.22	36.48	36.84	37.34	34.53	34.59	34.47	33.35	30.14	29.77	31.18	32.85
12	36.14	36.42	36.90	37.28	34.39	34.74	34.03	33.21	30.45	29.77	31.15	33.03
13	36.21	36.15	36.53	37.29	34.62	34.64	34.03	---	30.67	29.77	31.17	33.08
14	36.22	36.25	36.15	37.33	34.70	34.71	34.47	---	30.19	29.79	31.43	32.87
15	36.07	36.50	36.24	37.37	34.48	34.60	34.31	---	30.10	29.83	31.43	32.97
16	36.15	36.65	36.31	37.39	34.34	34.66	34.05	---	29.98	29.87	31.30	32.86
17	36.19	36.74	36.34	37.77	34.58	34.75	34.09	31.94	29.85	29.90	31.48	33.30
18	35.77	36.83	36.54	37.63	34.39	34.65	34.10	31.72	29.73	30.25	31.56	33.34
19	35.77	36.67	36.37	37.33	34.67	34.70	34.35	---	29.90	30.55	31.55	33.18
20	35.98	36.31	36.44	37.49	34.86	34.68	34.06	---	30.19	30.10	31.92	33.22
21	36.05	36.51	36.90	37.23	34.62	34.56	34.10	---	29.68	30.07	32.10	33.30
22	36.11	36.64	37.13	36.77	34.77	34.19	34.11	---	29.58	30.07	32.22	33.12
23	36.16	36.61	36.58	36.57	34.79	34.48	34.14	---	29.53	30.11	32.25	33.54
24	36.18	36.47	36.95	36.61	34.72	34.56	34.14	---	29.50	30.31	32.73	33.67
25	36.11	36.67	37.09	36.66	34.72	34.42	34.11	---	29.47	30.33	32.30	33.88
26	36.14	36.64	37.00	36.63	34.54	34.37	34.10	---	30.01	30.29	32.50	34.05
27	36.20	36.68	37.14	36.39	34.50	34.36	34.10	---	29.57	30.33	32.32	33.46
28	35.40	36.65	37.22	35.80	34.54	34.10	34.20	---	29.50	30.34	32.20	33.46
29	36.05	36.79	37.29	35.65	34.70	34.32	34.11	---	29.48	30.37	32.48	33.33
30	36.11	36.88	37.40	---	---	34.22	34.04	---	29.45	30.55	32.45	33.36
31	35.92	---	37.44	34.60	---	34.15	---	30.31	---	30.53	32.74	---
MAX	36.24	36.88	37.44	37.77	34.86	34.80	34.59	34.73	30.76	30.55	32.74	34.05

CAL YR 1995 LOW 37.44

WTR YR 1996 LOW 37.77



GROUND-WATER RECORDS

273

STARK COUNTY--Continued

405211081253500. Local number, ST-27.

LOCATION.--Lat 40°52'11", long 81°25'35", Hydrologic Unit 05040001, Dresler Rd near North Canton.

Owner: North Canton Water Department

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 55 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 1060 ft above sea level, from topographic map.

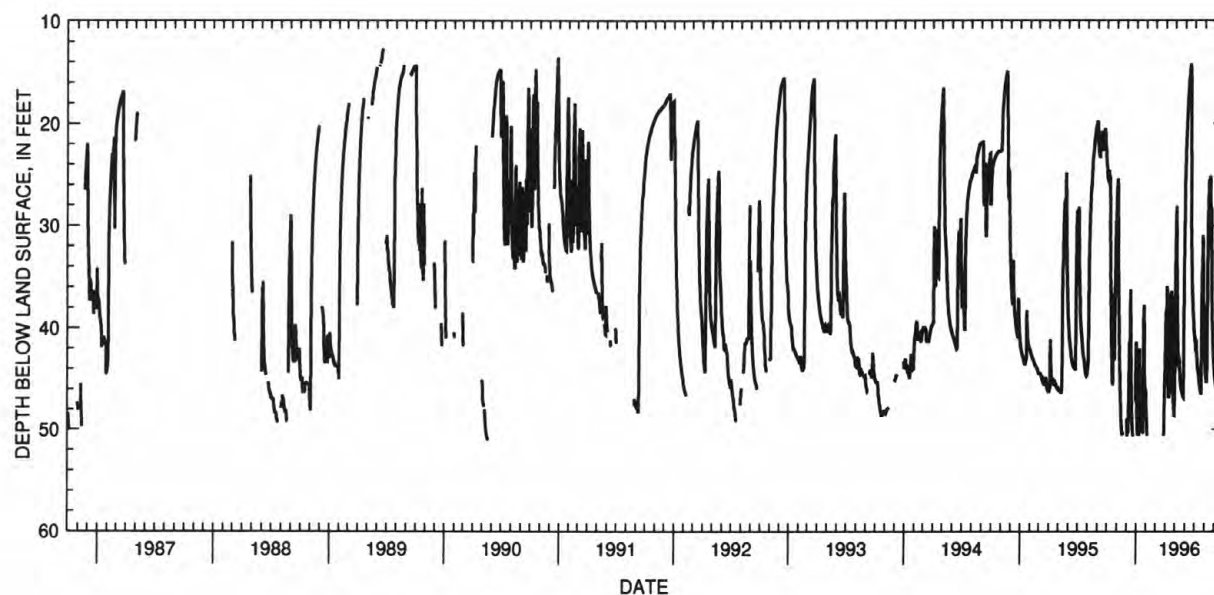
Measuring point: Floor of instrument shelter 2.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--April 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 51.10 ft below land-surface datum, May 20, 1990;
minimum daily low, 7.10 ft below land-surface datum, June 15, 1981.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.60	26.85	---	41.40	47.10	---	42.30	39.90	25.10	40.75	41.70	44.45
2	25.10	26.05	---	46.00	48.35	---	38.35	34.55	23.65	40.95	42.85	44.85
3	25.35	25.40	48.95	48.15	49.40	---	39.50	31.70	22.45	41.25	43.75	45.20
4	25.60	25.90	50.70	49.60	50.10	---	39.45	29.50	21.35	42.15	44.35	45.45
5	25.65	30.50	---	50.60	50.65	---	37.45	28.10	20.40	42.25	44.80	45.70
6	24.55	34.25	---	---	---	---	35.95	32.30	19.65	41.15	45.10	45.85
7	24.95	37.15	50.40	---	---	---	38.45	35.65	18.85	42.05	45.30	45.60
8	25.15	39.40	47.85	---	---	---	41.35	38.45	18.15	42.75	45.30	37.70
9	25.25	41.45	47.35	---	---	---	43.25	40.55	17.50	43.45	43.55	32.55
10	25.15	43.25	41.35	50.65	---	---	45.90	42.05	16.90	43.85	36.80	29.55
11	29.65	44.80	44.05	42.00	---	---	46.90	43.10	16.40	44.05	31.80	27.65
12	33.50	46.15	44.05	46.00	---	---	46.75	43.85	15.90	44.25	28.75	26.30
13	36.65	47.35	38.65	48.65	---	---	46.30	43.75	15.50	44.45	26.85	25.05
14	39.05	48.30	36.25	50.25	---	---	46.50	42.80	15.15	44.80	25.45	24.10
15	40.95	49.10	41.10	---	---	---	44.25	43.60	14.80	45.10	26.70	23.25
16	42.50	49.80	44.45	---	---	---	39.75	44.35	14.50	45.40	29.65	22.55
17	43.90	50.35	46.50	---	---	---	38.95	44.90	14.20	45.65	27.25	21.85
18	45.00	50.60	47.95	---	---	---	36.80	45.35	14.75	45.90	25.10	21.25
19	45.65	---	49.05	---	---	---	36.65	45.65	23.50	46.10	28.15	20.70
20	45.00	50.30	49.90	---	---	---	36.40	45.85	29.50	46.30	31.10	20.25
21	36.70	50.55	50.25	---	---	---	38.55	46.05	32.05	46.45	32.30	19.75
22	38.40	---	50.70	50.45	---	---	39.90	46.15	33.95	46.45	28.30	19.35
23	41.20	---	---	43.30	---	---	42.10	46.35	35.45	39.00	33.90	18.95
24	43.00	---	---	39.35	---	---	44.30	46.40	36.70	34.50	37.45	18.70
25	43.00	---	---	37.75	---	---	46.00	46.55	37.60	34.85	39.45	18.25
26	38.20	---	---	41.50	---	---	47.10	46.75	38.25	31.00	40.55	18.05
27	35.30	---	---	44.30	---	---	47.90	46.80	38.75	31.95	41.35	17.85
28	33.65	---	---	46.30	---	50.65	48.55	43.80	39.35	34.95	42.10	17.65
29	30.90	---	---	47.65	---	47.40	48.60	36.90	40.05	38.05	42.65	17.30
30	29.25	---	47.25	47.75	---	44.65	45.10	31.75	40.65	39.10	43.50	17.00
31	28.10	---	41.50	46.05	---	44.65	---	28.15	---	40.75	44.00	---
MAX	45.65	50.60	50.70	50.65	50.65	50.65	48.60	46.80	40.65	46.45	45.30	45.85

CAL YR 1995 LOW 50.70
WTR YR 1996 LOW 50.70

GROUND-WATER RECORDS

TUSCARAWAS COUNTY

403207081293800. Local number, TU-3.

LOCATION.--Lat 40°32'07", long 81°29'38", Hydrologic Unit 05040001, in the northwest part of Dover.

Owner: Dover City Water Department.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 62 ft, cased.

INSTRUMENTATION.--Monthly measurement with chalked tape by USGS personnel.

DATUM.--Elevation of land-surface datum is 880 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--May 1960 to September 1982 continuous, periodic thereafter.

REVISIONS.--The water level reported for Jan. 31, 1993, has been revised to 9.25 ft below land-surface datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 19.35 ft below land-surface datum, Nov. 29-30, Dec. 6-8, 1962;
minimum daily low, 3.20 ft below land-surface datum, July 15, 1969.

WATER LEVEL, IN FEET BELOW LAND-SURFACE DATUM
INSTANTANEOUS OBSERVATIONS

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
Oct. 2, 1995	12.75	Feb. 1, 1996	6.80	June 3, 1996	7.37
Oct. 31, 1995	12.45	Mar. 1, 1996	9.11	July 1, 1996	7.78
Dec. 1, 1995	12.58	Mar. 29, 1996	8.50	July 31, 1996	9.32
Jan. 9, 1996	12.97	Apr. 30, 1996	8.14	Sept. 3, 1996	10.83

GROUND-WATER RECORDS

275

TUSCARAWAS COUNTY--Continued.

403557081313600. Local number, TU-4.

LOCATION.--Lat 40°35'57", long 81°31'36", Hydrologic Unit 05040001, near Fire Dept. building in Strasburg.

Owner: Strasburg Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 42.5 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 920 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

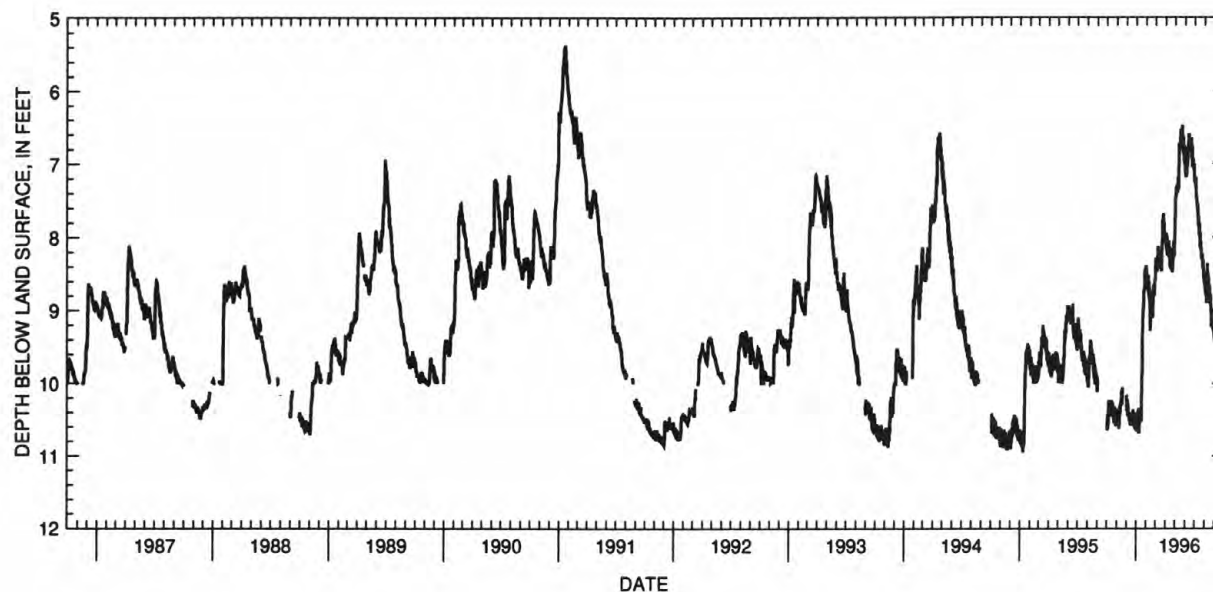
PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 10.95 ft below land-surface datum, Jan. 11, 1995;
minimum daily low, 4.05 ft below land-surface datum, July 13, 1969.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.38	10.17	10.49	8.38	8.28	7.94	7.48	6.98	7.18	8.46	9.20
2	10.59	10.55	10.17	10.66	8.54	8.40	8.12	7.49	7.17	7.23	8.73	9.43
3	10.65	10.35	10.37	10.41	8.54	8.29	7.94	7.32	7.18	7.32	8.54	9.27
4	10.43	10.51	10.38	10.62	8.58	8.45	8.18	7.41	7.10	7.18	8.80	9.50
5	10.62	10.39	10.22	10.40	8.67	8.47	8.00	7.29	7.15	7.46	8.65	9.52
6	10.48	10.44	10.46	10.53	8.51	8.28	8.24	7.34	7.02	7.46	8.88	9.50
7	10.23	10.54	10.28	10.54	8.75	8.35	8.06	7.36	7.03	7.54	8.88	9.27
8	10.40	10.61	10.43	10.34	8.59	8.12	8.23	7.39	6.91	7.55	8.80	9.48
9	10.38	10.62	10.45	10.63	8.83	8.34	8.10	7.18	6.77	7.66	8.35	9.37
10	10.45	10.39	10.40	10.69	8.66	8.17	8.05	7.34	6.79	7.54	8.61	9.31
11	10.28	10.30	10.52	10.51	8.88	8.41	8.27	7.33	6.67	7.73	8.49	9.40
12	10.44	10.44	10.50	10.52	8.72	8.18	8.15	6.72	6.59	7.85	8.74	9.39
13	10.45	10.25	10.55	10.35	9.28	8.37	8.13	6.82	6.77	7.70	8.54	9.51
14	10.27	10.29	10.56	10.53	9.10	8.37	8.40	6.75	6.74	7.93	8.83	9.42
15	10.41	10.29	10.56	10.39	9.01	8.34	8.36	6.77	6.75	7.98	8.83	9.45
16	10.23	10.09	10.54	10.51	9.01	8.42	8.16	6.71	6.75	7.82	8.66	9.46
17	10.41	10.30	10.41	10.52	9.03	8.26	8.44	6.53	6.83	8.14	8.85	9.39
18	10.24	10.26	10.51	10.18	9.06	8.45	8.21	6.57	6.73	7.94	8.91	9.54
19	10.45	10.08	10.52	9.86	9.09	8.46	8.40	6.58	6.79	8.18	8.78	9.54
20	10.27	10.05	10.47	9.11	9.10	8.12	8.31	6.57	6.65	8.05	8.99	9.55
21	10.43	---	10.55	9.12	8.95	8.07	8.25	6.57	6.93	8.26	9.01	9.52
22	10.43	---	10.36	8.97	8.85	8.00	8.48	6.47	6.77	8.26	9.23	9.54
23	10.48	---	10.58	8.98	8.66	7.74	8.35	6.74	7.04	8.31	9.05	9.44
24	10.53	---	10.39	8.75	8.79	7.86	8.21	6.62	7.03	8.22	9.15	9.61
25	10.53	---	10.59	8.72	8.64	7.67	8.25	6.64	6.93	8.33	8.98	9.64
26	10.32	---	10.41	8.71	8.80	7.96	8.04	6.87	6.98	8.43	9.20	9.66
27	10.54	---	10.61	8.45	8.61	7.79	8.27	6.77	7.07	8.30	9.25	9.56
28	10.36	---	10.41	8.55	8.57	7.95	8.10	6.75	7.00	8.50	9.25	9.62
29	10.59	---	10.63	8.45	8.56	7.96	8.05	7.00	7.15	8.55	9.30	9.33
30	10.40	---	10.44	8.40	---	7.94	7.77	6.87	7.25	8.55	9.15	9.34
31	10.59	---	10.64	8.50	---	8.04	---	7.11	---	8.64	9.38	---
MAX	10.65	10.62	10.64	10.69	9.28	8.47	8.48	7.49	7.25	8.64	9.38	9.66

CAL YR 1995 LOW 10.95

WTR YR 1996 LOW 10.69



GROUND-WATER RECORDS

TUSCARAWAS COUNTY--Continued

403653081321800. Local number, TU-1.

LOCATION.--Lat 40°36'53", long 81°32'18", Hydrologic Unit 05040001, 1.3 mi north of Strasburg.

Owner: Ray Libert.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 4 in., depth 23 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 928.24 ft above sea level.

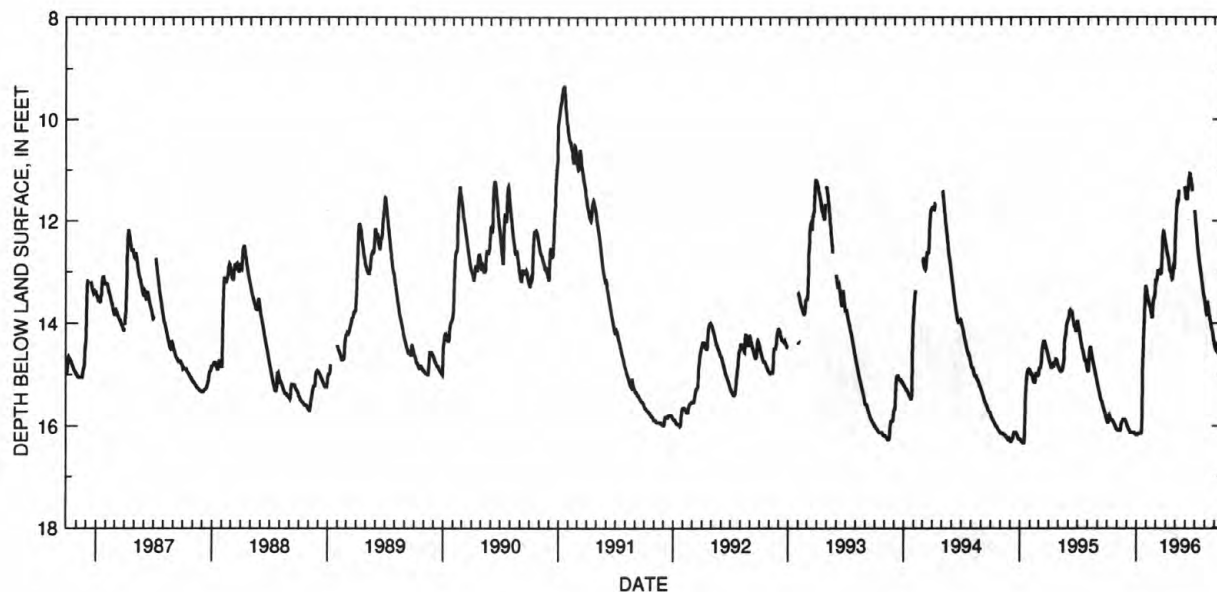
Measuring point: Floor of instrument shelter 0.90 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--July 1946 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.34 ft below land-surface datum, Jan. 11-14, 1995;
minimum daily low, 6.64 ft below land-surface datum, July 14, 1969.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.90	16.07	15.95	16.17	13.30	13.21	12.45	12.41	11.44	11.80	13.52	14.40
2	15.92	16.07	15.96	16.17	13.33	13.13	12.48	12.24	11.52	11.86	13.57	14.44
3	15.94	16.07	15.98	16.17	13.37	13.16	12.49	12.05	11.54	11.95	13.61	14.46
4	15.94	16.07	16.00	16.17	13.43	13.17	12.56	11.90	11.53	12.03	13.67	14.49
5	15.94	16.07	16.01	16.17	13.47	13.14	12.59	11.80	11.56	12.10	13.72	14.51
6	15.88	16.08	16.03	16.16	13.51	13.14	12.60	11.66	11.58	12.16	13.77	14.53
7	15.83	16.08	16.04	16.15	13.53	13.08	12.65	11.62	11.58	12.21	13.81	14.52
8	15.80	16.09	16.05	16.15	13.55	12.98	12.66	11.56	11.57	12.30	13.85	14.47
9	15.79	16.09	16.07	16.15	13.59	12.98	12.70	11.60	11.45	12.40	13.70	14.43
10	15.81	16.09	16.07	16.14	13.59	12.99	12.74	11.62	11.38	12.49	13.57	14.42
11	15.84	16.09	16.09	16.14	13.63	12.98	12.77	11.59	11.26	12.55	13.59	14.45
12	15.87	16.09	16.10	16.14	13.65	12.97	12.84	11.40	11.19	12.59	13.65	14.48
13	15.89	16.05	16.13	16.14	13.67	12.96	12.89	---	11.15	12.65	13.70	14.49
14	15.89	15.98	16.13	16.15	13.67	12.96	12.95	---	11.10	12.71	13.74	14.51
15	15.89	15.95	16.13	16.15	13.73	12.98	12.95	---	11.07	12.77	13.80	14.54
16	15.88	15.94	16.13	16.15	13.76	13.00	12.99	---	11.08	12.82	13.84	14.55
17	15.88	15.92	16.13	16.14	13.80	13.01	13.00	---	11.13	12.87	13.87	14.56
18	15.89	15.91	16.13	16.08	13.85	13.03	13.00	---	11.19	12.90	13.91	14.57
19	15.90	15.90	16.13	15.90	13.88	13.02	13.02	---	11.19	12.96	13.95	14.58
20	15.92	15.89	16.13	15.27	13.88	12.89	13.08	---	11.22	13.00	13.99	14.59
21	15.92	15.87	16.13	14.88	13.80	12.73	13.12	---	11.26	13.04	14.02	14.60
22	15.93	15.87	16.13	14.65	13.66	12.51	13.14	---	11.34	13.09	14.06	14.63
23	15.94	15.87	16.13	14.47	13.56	12.36	13.13	---	11.38	13.14	14.10	14.65
24	15.96	15.87	16.13	14.28	13.53	12.26	13.09	---	11.42	13.19	14.12	14.65
25	15.98	15.87	16.13	14.10	13.52	12.24	12.95	---	---	13.24	14.14	14.66
26	15.99	15.87	16.14	13.94	13.50	12.26	12.90	---	---	13.30	14.18	14.68
27	16.00	15.88	16.15	13.75	13.50	12.28	12.92	---	---	13.36	14.22	14.75
28	16.01	15.90	16.15	13.65	13.43	12.27	12.94	---	---	13.40	14.26	14.75
29	16.03	15.90	16.15	13.46	13.36	12.34	12.92	---	---	13.45	14.29	14.59
30	16.04	15.92	16.16	13.32	---	12.36	12.68	11.33	---	13.47	14.34	14.51
31	16.06	---	16.17	13.26	---	12.39	---	11.37	---	13.48	14.36	---
MAX	16.06	16.09	16.17	16.17	13.88	13.21	13.14	12.41	11.58	13.48	14.36	14.75

CAL YR 1995 LOW 16.34
WTR YR 1996 LOW 16.17

GROUND-WATER RECORDS

277

TUSCARAWAS COUNTY--Continued.

403823081324200. Local number, TU-5.

LOCATION.--Lat 40°38'23", long 81°32'42", Hydrologic Unit 05040001, Sugar Creek well field near Strasburg.

Owner: Canton Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 6 in., depth 100 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 937.93 ft above sea level.

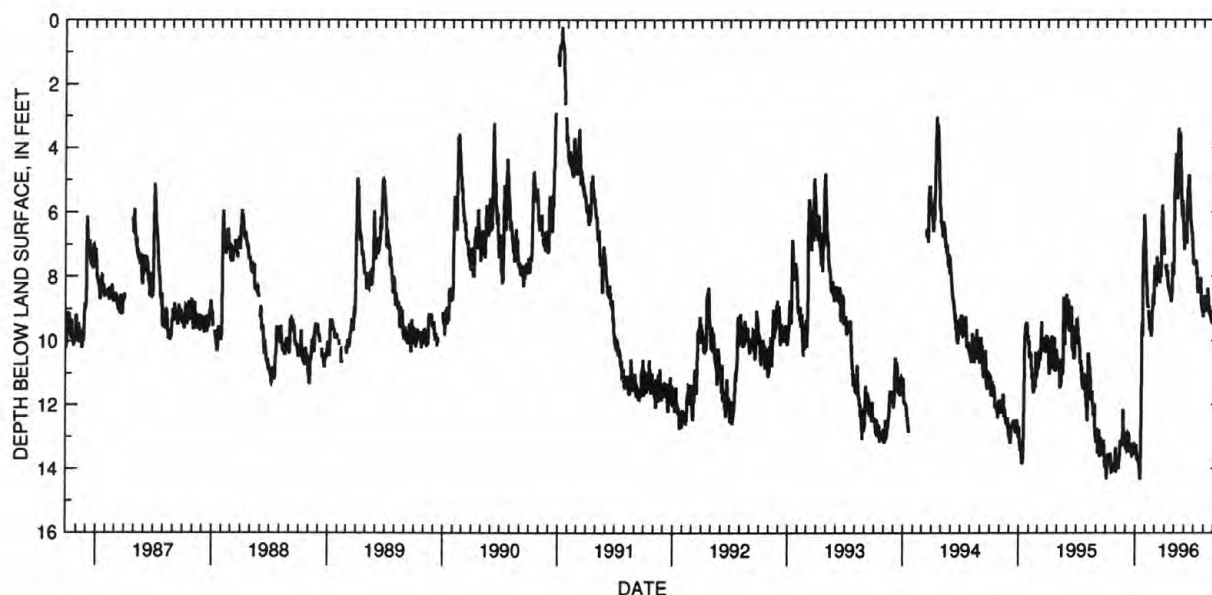
Measuring point: Floor of instrument shelter 4.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1960 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 14.35 ft below land-surface datum, Oct. 4, 1995 and Jan. 17, 1996;
minimum daily low, 0.20 ft below land-surface datum, Jan. 13, 1991.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.92	13.34	13.16	13.26	7.03	7.65	---	5.42	7.17	7.59	8.88	9.30
2	13.93	14.13	13.35	13.51	7.58	7.97	7.72	5.42	6.83	7.62	8.98	9.27
3	14.25	13.77	13.36	13.39	7.85	8.08	7.71	4.85	6.99	7.50	8.75	9.53
4	14.35	13.88	13.31	13.24	8.12	8.28	7.73	4.69	6.81	7.50	8.59	9.37
5	13.99	13.87	13.41	13.54	8.27	8.28	7.80	4.45	6.80	7.51	9.04	9.43
6	13.76	13.80	13.32	13.54	8.65	7.96	7.62	4.19	6.91	7.63	9.10	9.13
7	13.81	13.98	13.40	13.73	8.81	7.38	7.88	4.65	6.93	7.63	8.93	9.37
8	13.53	13.87	13.37	13.58	8.87	7.46	8.03	4.77	6.97	7.50	8.96	9.15
9	13.60	13.93	13.47	13.71	8.98	7.65	7.81	5.47	6.35	7.91	9.02	8.70
10	13.72	14.02	12.88	13.75	---	7.54	8.18	5.59	5.73	7.65	8.93	8.87
11	13.61	13.58	12.89	13.79	9.05	7.88	8.25	5.50	5.48	8.03	9.02	8.71
12	13.81	13.77	12.93	13.79	9.27	7.79	8.30	4.65	5.25	8.32	8.76	8.82
13	13.94	13.61	13.18	13.82	9.37	7.75	8.39	3.62	5.44	8.53	8.36	9.27
14	13.70	13.37	13.44	14.06	9.52	8.10	8.41	3.38	4.84	8.21	8.55	8.95
15	13.70	13.28	13.49	13.98	9.69	8.06	8.45	3.99	4.93	8.25	8.58	8.70
16	13.51	13.11	13.42	14.30	9.63	8.21	8.47	4.01	4.85	8.41	9.13	9.11
17	13.75	13.25	13.27	14.35	9.63	7.79	8.50	3.60	5.29	8.40	8.95	8.39
18	14.02	13.24	13.42	13.70	9.64	7.87	8.60	3.51	5.63	8.09	8.90	8.98
19	14.11	13.10	13.21	12.68	9.82	8.01	8.52	3.72	5.80	8.49	9.10	8.99
20	14.10	13.29	13.39	10.95	9.86	7.97	8.70	4.15	6.18	8.49	9.24	8.61
21	13.94	13.25	13.53	9.72	9.55	7.40	8.80	4.75	6.25	8.52	9.20	8.94
22	14.00	13.22	13.59	9.41	9.06	6.34	8.69	4.78	6.40	8.03	9.11	8.86
23	13.91	13.20	13.58	9.86	9.04	6.05	8.68	5.50	6.43	8.80	9.35	8.94
24	14.08	12.14	13.56	7.95	8.84	5.77	8.14	5.89	6.67	8.82	9.37	9.13
25	13.99	12.75	13.47	7.17	8.52	5.89	7.57	6.17	6.60	8.86	9.32	9.49
26	13.97	13.08	13.24	6.84	---	6.20	7.91	5.93	6.77	9.02	9.05	9.67
27	13.85	13.07	13.42	6.88	8.89	6.63	7.62	5.63	7.07	9.07	9.32	9.35
28	14.00	13.06	13.18	6.07	8.37	6.66	7.96	6.07	7.33	9.10	9.18	9.12
29	13.87	12.95	13.32	6.10	7.89	6.94	7.90	6.35	7.56	9.13	9.43	8.74
30	13.76	12.85	13.55	6.46	---	7.25	6.50	6.64	7.63	9.27	9.27	8.77
31	14.11	---	13.31	6.81	---	7.33	---	7.04	---	8.88	9.28	---
MAX	14.35	14.13	13.59	14.35	9.86	8.28	8.80	7.04	7.63	9.27	9.43	9.67

CAL YR 1995 LOW 14.35
WTR YR 1996 LOW 14.35

GROUND-WATER RECORDS

UNION COUNTY

401826083255200. Local number, U-4.

LOCATION.--Lat 40°18'26", long 83°25'52", Hydrologic Unit 05060001, 2.6 mi southeast of Raymond.

Owner: State of Ohio.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled test artesian well, diameter 12 in., depth 350 ft, cased to 37 ft.

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

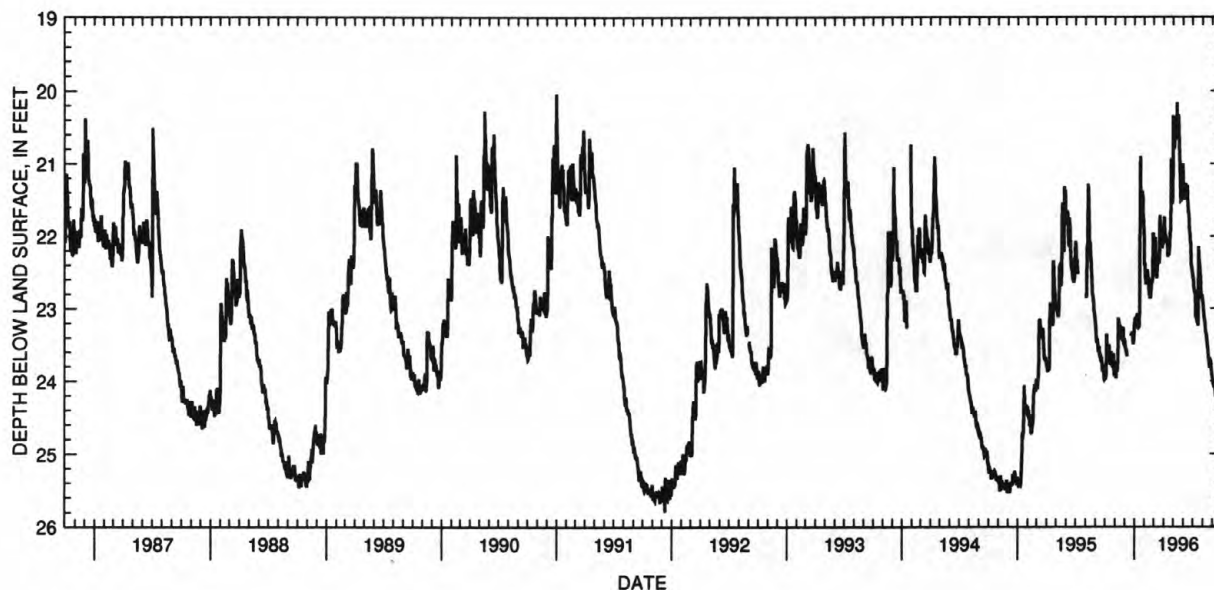
DATUM.--Elevation of land-surface datum is 1,040 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

PERIOD OF RECORD.--January 1973 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 25.79 ft below land-surface datum, Dec. 11, 1991;
minimum daily low, 19.32 ft below land-surface datum, Feb. 24, 1975.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.94	23.85	23.46	23.23	22.40	22.03	22.07	20.52	21.27	22.59	22.88	23.95
2	23.98	23.73	23.52	23.19	22.37	22.19	21.85	20.71	21.31	22.56	22.92	24.02
3	23.96	23.85	23.51	23.12	22.47	22.47	21.73	20.78	21.28	22.62	23.00	24.05
4	23.93	23.95	23.55	23.19	22.58	22.50	21.91	20.80	21.35	22.69	23.04	24.05
5	23.90	23.95	23.57	23.27	22.60	22.25	22.02	20.65	21.49	22.74	23.10	24.07
6	23.35	23.85	23.58	23.26	22.67	22.02	21.99	20.55	21.48	22.77	23.14	24.10
7	23.48	23.75	23.58	23.13	22.57	22.15	22.00	20.64	21.41	22.76	23.17	24.05
8	23.54	23.87	23.66	23.12	22.48	22.32	22.00	20.66	21.29	22.76	23.19	24.08
9	23.62	23.85	23.62	23.07	22.48	22.52	22.07	20.64	21.29	22.90	23.26	24.10
10	23.58	23.74	---	23.19	22.48	22.58	22.08	20.53	21.40	23.10	23.33	24.20
11	23.61	23.50	---	23.19	22.51	22.57	22.09	20.53	21.45	23.13	23.34	24.20
12	23.62	23.13	---	23.07	22.65	22.43	22.06	20.16	21.38	23.11	23.34	24.18
13	23.59	23.18	---	23.11	22.65	22.36	22.15	20.45	21.30	23.11	23.39	24.17
14	23.50	23.20	---	23.13	22.57	22.29	22.29	20.66	21.40	23.20	23.45	24.21
15	23.58	23.27	---	23.26	22.72	22.28	22.24	20.67	21.51	23.17	23.47	24.29
16	23.69	23.37	---	23.25	22.80	22.34	22.20	20.33	21.60	23.18	23.53	24.30
17	23.78	23.42	---	23.03	22.80	22.36	22.27	20.39	21.67	23.22	23.56	24.26
18	23.68	23.29	---	22.07	22.85	22.38	22.20	20.56	21.67	23.22	23.60	24.34
19	23.73	23.31	---	20.90	22.85	22.26	22.15	20.72	21.75	22.14	23.69	24.36
20	23.64	23.27	---	21.49	22.85	21.71	22.07	20.83	21.86	22.29	23.69	24.36
21	23.60	23.28	23.35	21.72	22.78	21.81	21.95	21.02	21.94	22.35	23.73	24.34
22	23.75	23.31	23.37	21.79	22.74	21.91	21.93	21.19	21.97	22.36	23.80	24.29
23	23.80	23.42	23.35	21.78	22.65	22.02	21.92	21.34	22.06	22.44	23.82	24.45
24	23.74	23.43	23.34	21.49	22.63	21.93	20.95	21.51	22.08	22.52	23.75	24.43
25	23.82	23.43	23.34	21.38	22.63	21.84	20.95	21.50	22.25	22.58	23.72	24.50
26	23.78	23.37	23.34	21.46	22.63	22.10	21.23	21.47	22.38	22.69	23.73	24.50
27	23.63	23.26	23.43	21.44	22.57	22.17	21.45	21.50	22.43	22.82	23.77	24.43
28	23.67	23.47	23.48	21.72	21.95	22.12	21.55	21.35	22.45	22.87	23.84	24.27
29	23.86	23.48	23.48	21.73	21.99	22.10	21.50	21.05	22.51	22.85	23.88	23.89
30	23.94	23.47	23.41	21.87	---	22.10	20.34	21.00	22.50	22.81	23.92	24.01
31	23.89	---	23.31	21.99	---	22.05	---	21.15	---	22.87	23.97	---
MAX	23.98	23.95	23.66	23.27	22.85	22.58	22.29	21.51	22.51	23.22	23.97	24.50

CAL YR 1995 LOW 25.47
WTR YR 1996 LOW 24.50

GROUND-WATER RECORDS

279

UNION COUNTY--Continued.

402010083321900. Local number, U-5.

LOCATION.--Lat 40°20'10", long 83°32'19", Hydrologic Unit 05060001, east of East Liberty.

Owner: Honda of America.

AQUIFER.--Limestone of Silurian Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth 145 ft, cased to 98 ft.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface is 1085 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 4.00 ft. above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--October 1991 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.25 ft below land-surface datum, Oct. 10, 1991;

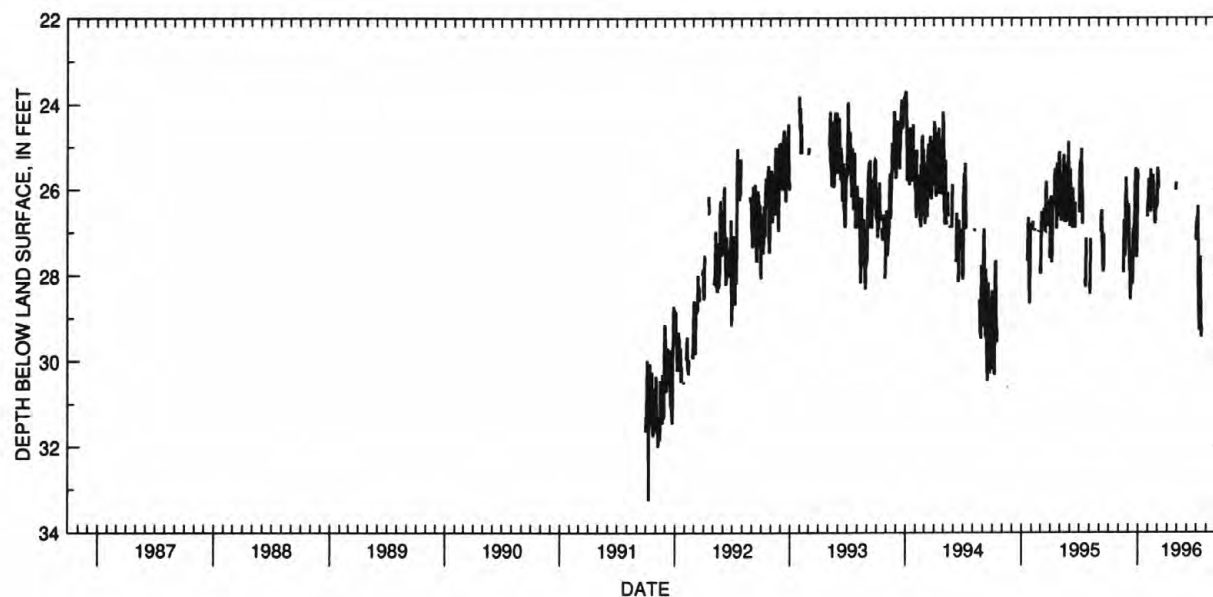
minimum daily low, 23.70 ft below land-surface datum, Jan. 4, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	26.88	25.54	26.64	26.42	26.05	---	---	27.19	---	---
2	26.94	---	26.89	25.76	26.24	26.27	---	---	---	26.85	---	---
3	---	---	26.34	---	26.31	25.49	---	---	---	26.82	---	---
4	---	---	26.44	---	26.25	25.60	---	---	---	26.67	---	---
5	---	---	27.03	26.17	25.75	25.60	---	---	---	27.07	---	---
6	---	---	27.74	---	26.34	25.97	---	---	---	26.79	---	---
7	---	---	27.58	---	26.37	---	---	---	---	26.38	---	---
8	26.72	---	28.16	---	26.17	---	---	---	---	27.99	---	---
9	---	---	28.58	---	26.52	---	---	---	---	28.60	---	---
10	---	---	28.18	---	26.40	---	---	---	---	28.83	---	---
11	---	---	27.60	---	25.53	---	---	---	---	29.26	---	---
12	---	---	27.52	---	25.92	---	---	---	---	29.29	---	---
13	---	---	27.41	---	26.10	---	---	---	---	28.85	---	---
14	---	---	27.66	---	26.05	---	---	---	---	27.56	---	---
15	---	---	28.21	---	26.43	---	---	---	---	28.29	---	---
16	---	---	28.07	---	26.28	---	---	---	---	28.86	---	---
17	---	27.94	27.21	---	26.15	---	---	---	---	29.45	---	---
18	---	27.77	26.92	---	25.65	---	---	---	---	29.22	---	---
19	---	26.92	27.05	---	25.97	---	---	---	---	---	---	---
20	---	26.76	26.96	---	26.39	---	---	---	---	---	---	---
21	---	26.71	26.87	---	26.33	---	---	---	---	---	---	---
22	---	27.55	26.82	---	26.36	---	---	---	---	---	---	---
23	---	27.24	26.25	---	26.69	---	---	---	---	---	---	---
24	---	26.35	25.99	---	26.80	---	---	---	---	---	---	---
25	---	25.96	25.69	---	26.64	---	---	---	---	---	---	---
26	---	25.72	25.50	---	26.40	---	---	---	---	---	---	---
27	---	26.23	27.21	---	26.22	---	---	---	---	---	---	---
28	---	26.37	27.58	---	26.34	---	---	---	---	---	---	---
29	---	26.82	27.34	---	26.19	---	26.02	---	---	---	---	---
30	---	27.15	26.97	---	---	---	25.83	---	---	---	---	---
31	---	---	26.08	---	---	---	---	---	---	---	---	---
MAX	26.94	27.94	28.58	26.17	26.80	26.42	26.05	---	---	29.45	---	---

CAL YR 1995 LOW 28.67

WTR YR 1996 LOW 29.45



GROUND-WATER RECORDS

VINTON COUNTY

391452082282900. Local number, V-1.

LOCATION.--Lat 39°14'52", long 82°28'29", Hydrologic Unit 05090101, State Highway garage in McArthur.

Owner: Vinton County School Board.

AQUIFER.--Sandstone of Mississippian Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in., depth 218 ft, cased.

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

DATUM.--Elevation of land-surface datum is 730 ft above sea level, from topographic map.

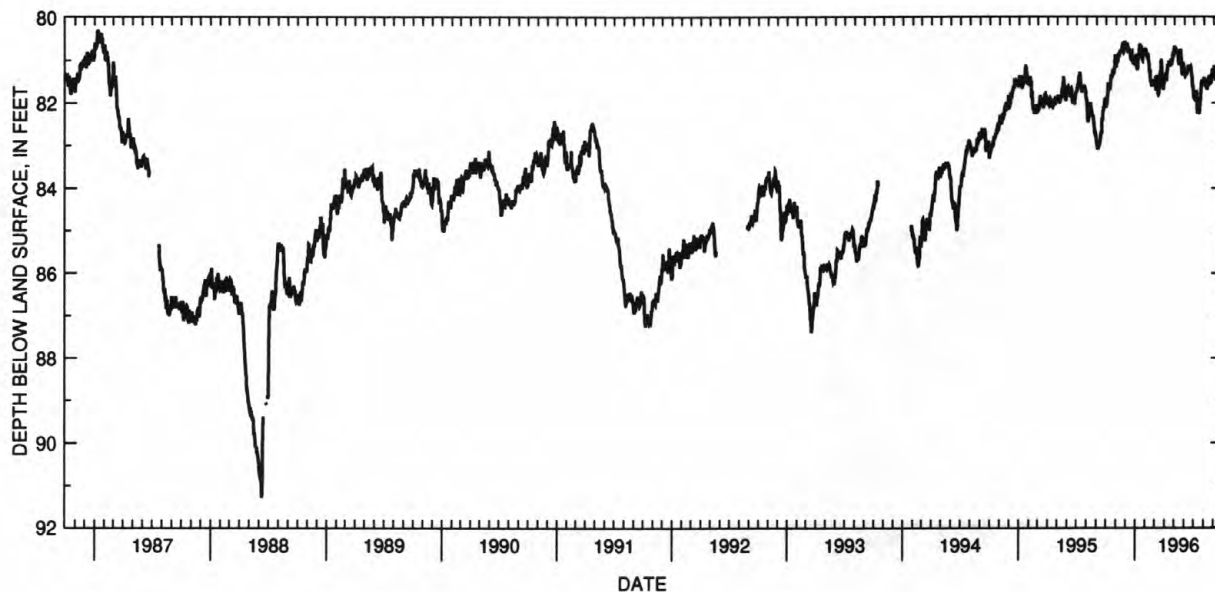
Measuring Point: Top of platform 2.50 ft below land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--September 1959 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 93.23 ft below land-surface datum, Apr. 12, 1979;
minimum daily low, 49.55 ft below land-surface datum, Mar. 20, 1963.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82.09	81.14	80.63	80.89	80.77	81.59	81.46	80.70	81.32	81.82	81.43	81.15
2	82.03	81.03	80.67	80.89	80.77	81.39	81.46	80.81	81.35	81.75	81.44	81.15
3	82.02	80.97	80.66	81.02	80.86	81.65	81.33	80.78	81.33	81.73	81.52	81.15
4	81.90	81.02	80.62	81.17	80.90	81.71	81.31	80.76	81.24	81.79	81.59	81.26
5	81.84	81.03	80.62	81.20	80.91	81.64	81.49	80.75	81.33	81.79	81.59	81.45
6	81.53	81.03	80.67	81.22	80.95	81.39	81.46	80.77	81.34	81.79	81.61	81.45
7	81.59	80.85	80.80	81.15	80.90	81.39	81.26	80.82	81.33	81.79	81.63	81.36
8	81.67	80.88	80.83	80.92	80.89	81.59	81.26	80.82	81.31	81.71	81.63	81.36
9	81.67	80.90	80.77	80.92	81.00	81.70	81.14	80.81	81.27	81.86	81.65	81.35
10	81.65	80.90	80.79	80.88	81.03	81.80	81.14	80.81	81.25	82.13	81.69	81.38
11	81.67	80.79	80.74	80.88	81.06	81.81	81.12	80.82	81.23	82.23	81.66	81.38
12	81.66	80.83	80.75	80.66	81.24	81.79	81.11	80.94	81.15	82.23	81.60	81.36
13	81.66	80.79	80.80	80.62	81.26	81.74	81.02	81.03	81.15	82.21	81.47	81.24
14	81.55	80.78	80.80	80.65	81.21	81.67	81.12	81.11	81.17	82.19	81.46	81.18
15	81.38	80.78	80.90	80.85	81.37	81.60	81.10	80.99	81.16	82.19	81.43	81.17
16	81.34	80.79	80.96	80.85	81.51	81.37	81.03	80.83	81.17	82.27	81.43	81.17
17	81.43	80.81	80.99	80.78	81.52	81.31	81.14	80.79	81.16	82.24	81.36	80.99
18	81.39	80.81	80.99	80.67	81.44	81.32	81.10	80.75	81.15	82.18	81.38	81.07
19	81.39	80.69	80.81	80.89	81.57	81.30	81.02	80.78	81.14	82.04	81.44	81.16
20	81.32	80.69	80.80	80.91	81.56	80.98	80.97	80.78	81.17	81.90	81.51	81.19
21	81.20	80.59	80.99	80.98	81.59	81.07	81.08	80.90	81.19	81.90	81.54	81.17
22	81.31	80.63	81.01	80.99	81.59	81.27	81.08	81.02	81.29	81.67	81.53	81.11
23	81.33	80.74	81.05	80.89	81.56	81.49	80.99	81.17	81.37	81.59	81.50	81.16
24	81.26	80.79	81.07	80.78	81.55	81.54	80.99	81.30	81.35	81.50	81.46	81.15
25	81.31	80.77	81.07	80.86	81.59	81.47	80.90	81.33	81.56	81.50	81.32	81.18
26	81.18	80.72	81.00	80.82	81.59	81.66	80.81	81.33	81.63	81.47	81.23	81.18
27	81.17	80.56	80.93	80.77	81.56	81.66	80.90	81.24	81.61	81.51	81.23	81.14
28	80.87	80.60	81.05	80.83	81.57	81.56	80.90	81.14	81.73	81.56	81.32	81.09
29	80.97	80.71	81.09	80.83	81.59	81.48	80.80	81.13	81.86	81.52	81.29	81.00
30	81.07	80.71	81.09	80.72	---	81.49	80.68	81.18	81.88	81.49	81.29	81.09
31	81.14	---	81.03	80.75	---	81.45	---	81.29	---	81.43	81.27	---
MAX	82.09	81.14	81.09	81.22	81.59	81.81	81.49	81.33	81.88	82.27	81.69	81.45
CAL YR 1995	LOW 83.07											
WTR YR 1996	LOW 82.27											



GROUND-WATER RECORDS

281

WARREN COUNTY

392712084191700. Local number, W-5.

LOCATION.--Lat 39°27'12", long 84°19'17", Hydrologic Unit 05080002, Union Rd., 2 mi east of Monroe.

Owner: Bob Proeschel.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 12 in., depth 121 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 660 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

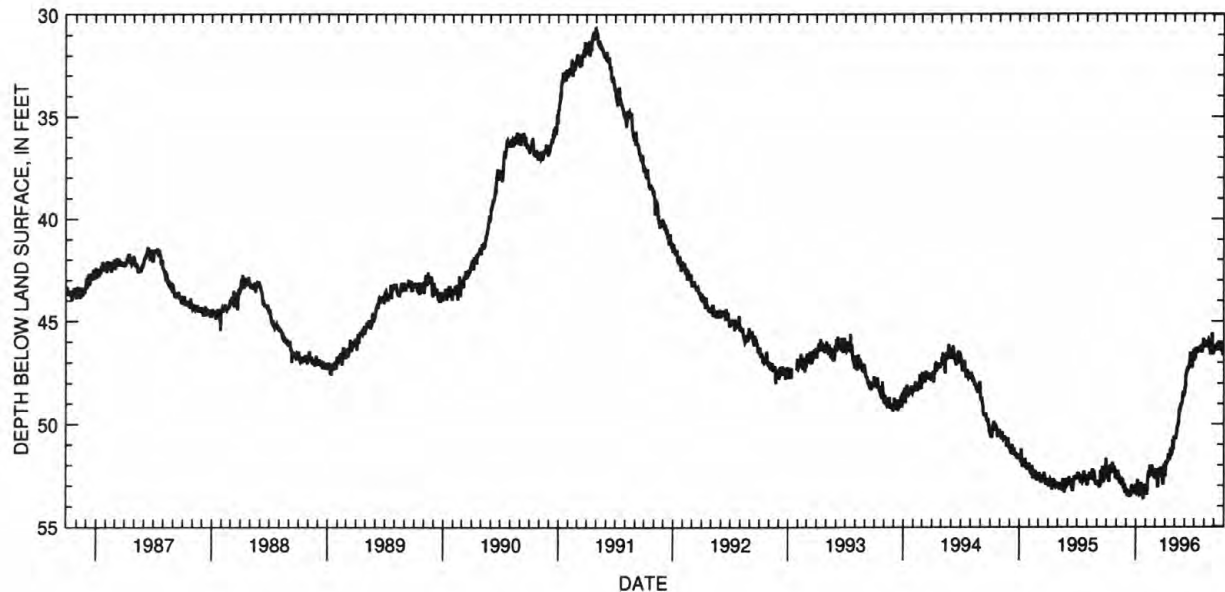
PERIOD OF RECORD.--March 1972 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 53.65 ft below land-surface datum, Jan. 25, 1996;
minimum daily low, 17.70 ft below land-surface datum, Apr. 30, 1975.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.35	52.40	53.20	53.10	53.05	52.15	52.50	50.60	48.45	46.40	45.90	46.40
2	52.45	52.30	53.15	52.95	53.05	52.50	52.55	50.65	48.45	46.40	45.95	46.40
3	52.30	52.55	53.30	53.25	53.25	52.65	52.25	50.70	48.25	46.45	46.00	46.45
4	52.20	52.70	53.40	53.30	53.45	52.50	51.80	50.75	48.10	46.70	46.15	46.25
5	52.10	52.60	53.45	53.25	53.30	52.40	52.00	50.65	48.20	46.75	46.20	46.20
6	52.20	52.35	53.45	52.90	53.25	52.45	51.95	50.60	47.65	46.70	46.20	46.20
7	52.60	52.25	53.35	52.70	52.95	52.45	51.90	50.50	47.55	46.60	46.20	46.25
8	52.60	52.55	53.25	53.10	52.45	52.60	51.85	50.35	47.45	46.25	46.10	46.40
9	52.80	52.65	53.45	53.30	52.55	53.00	51.80	50.20	47.40	46.35	46.25	46.35
10	52.75	52.50	53.40	53.35	52.30	53.10	51.80	50.05	47.40	46.55	46.05	46.30
11	52.25	52.85	53.45	53.40	52.55	52.85	51.70	50.15	47.20	46.40	46.00	46.15
12	52.20	52.85	53.55	53.35	52.55	52.15	51.45	50.05	47.25	46.35	46.00	46.05
13	52.05	52.80	53.50	53.35	52.35	52.35	51.70	50.00	47.30	46.50	46.05	46.10
14	52.05	52.70	53.35	53.25	52.00	52.20	51.75	49.75	47.25	46.45	46.15	46.10
15	52.20	52.70	53.30	53.50	52.15	52.20	51.55	49.55	47.20	46.45	45.95	46.40
16	52.40	52.80	53.50	53.20	52.35	52.35	51.75	49.25	47.20	46.45	45.90	46.20
17	52.25	52.75	53.45	53.00	52.10	52.35	51.60	49.25	47.10	46.40	45.95	46.30
18	52.20	52.60	53.20	52.85	52.20	52.45	51.25	49.20	47.00	46.40	46.25	46.35
19	52.05	52.70	52.95	53.35	52.05	52.10	51.20	49.25	46.75	46.20	46.30	46.20
20	51.85	52.65	53.10	53.40	52.05	52.45	51.50	49.20	46.55	46.40	46.25	46.05
21	51.95	52.95	53.10	53.50	52.05	52.55	51.55	49.10	46.55	46.25	46.40	45.95
22	52.25	52.70	53.10	53.25	52.15	52.25	51.30	49.05	46.80	46.20	46.60	46.30
23	52.20	53.00	53.25	52.95	52.45	52.60	51.50	49.00	46.65	46.20	46.50	46.25
24	52.25	53.15	53.20	53.60	52.50	52.35	51.20	49.00	46.65	46.30	46.20	46.30
25	52.15	53.10	53.15	53.65	52.50	52.75	50.75	48.95	47.10	46.25	46.05	46.45
26	52.05	53.00	53.10	53.00	52.15	52.95	51.15	48.80	47.25	46.50	45.95	46.20
27	52.20	52.90	53.35	53.10	52.35	52.85	51.25	48.50	46.85	46.45	45.55	46.00
28	52.35	53.35	53.35	53.15	52.60	52.15	51.10	48.40	46.65	46.35	46.20	46.35
29	52.65	53.30	53.35	53.10	52.60	52.05	50.60	48.50	46.60	46.15	46.50	46.65
30	52.55	53.10	53.10	52.95	---	51.95	50.70	48.65	46.50	46.00	46.60	46.55
31	52.45	---	52.95	53.05	---	52.10	---	48.55	---	45.90	46.45	---
MAX	52.80	53.35	53.55	53.65	53.45	53.10	52.55	50.75	48.45	46.75	46.60	46.65

CAL YR 1995 LOW 53.55

WTR YR 1996 LOW 53.65



GROUND-WATER RECORDS

WASHINGTON COUNTY

392553081281600. Local number, WA-2.

LOCATION.--Lat 39°25'53", long 81°28'16", Hydrologic Unit 05040004, near county fairgrounds north of Marietta.

Owner: Marietta Water Dept.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled unused water table well, diameter 8 in., depth, 50 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 605 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

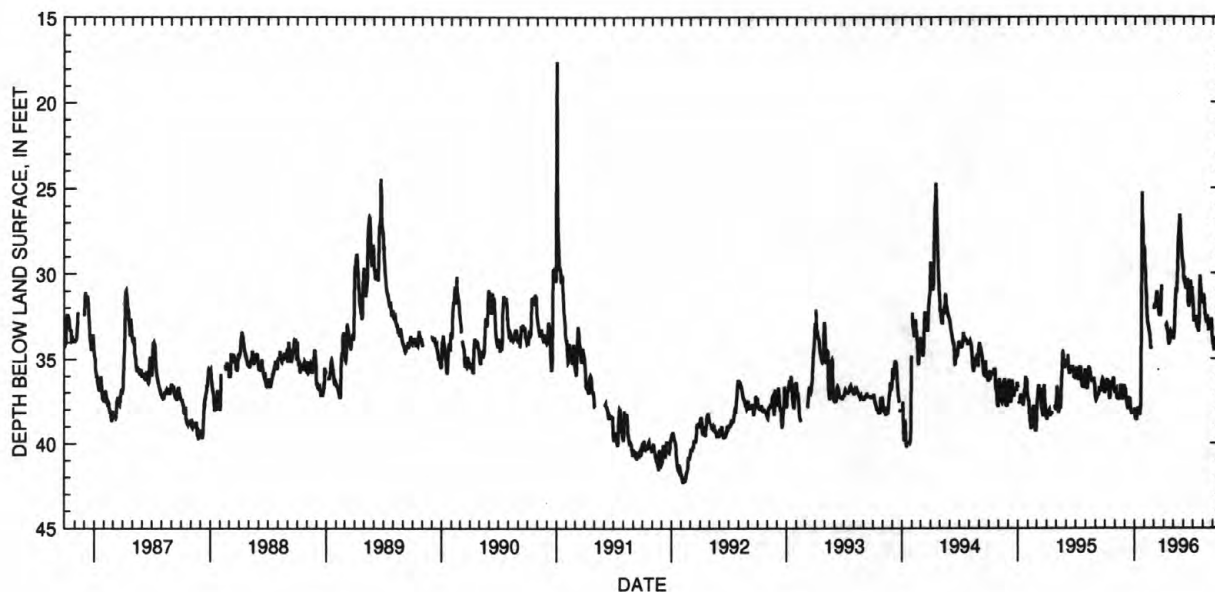
PERIOD OF RECORD.--August 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 42.30 ft below land-surface datum, Feb. 7-8, 1992;

minimum daily low, 17.60 ft below land-surface datum, Jan. 2, 1991.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36.85	37.00	36.80	37.95	29.20	32.10	---	33.80	30.35	31.70	31.35	34.10
2	36.80	36.90	36.80	38.25	29.60	31.80	32.67	33.55	30.35	32.45	31.20	34.10
3	36.80	36.95	36.75	38.45	30.00	32.00	---	33.30	30.45	32.75	31.35	34.40
4	36.55	36.90	36.85	38.55	30.45	32.05	---	32.65	30.50	32.75	31.45	34.45
5	36.45	36.85	37.20	38.55	30.85	31.80	---	32.30	30.45	32.65	31.90	34.45
6	36.30	37.00	37.35	38.60	31.40	31.75	---	31.85	30.65	32.75	32.10	34.40
7	36.25	37.35	37.50	38.60	31.75	31.70	33.00	31.30	30.85	32.75	32.40	34.05
8	36.20	37.25	37.60	38.50	32.40	31.25	33.05	30.85	30.85	32.65	32.45	33.85
9	36.40	37.35	37.80	38.00	32.60	31.15	33.00	31.00	30.85	32.55	32.70	33.80
10	36.40	37.35	37.85	37.95	32.75	31.05	33.10	31.15	30.45	32.50	32.75	33.80
11	36.30	37.40	37.95	37.95	33.00	31.25	33.25	30.75	30.40	32.85	32.70	33.75
12	36.45	37.40	37.95	37.90	33.00	31.40	33.35	30.35	30.40	33.10	32.60	34.00
13	36.85	37.40	37.55	38.00	33.05	31.55	33.55	29.65	30.40	33.15	32.45	34.00
14	37.25	37.35	37.35	38.15	33.25	31.85	33.75	28.60	30.95	33.15	32.55	33.90
15	37.35	37.35	37.30	38.30	33.40	32.05	34.00	27.90	31.70	33.15	32.70	33.85
16	37.40	37.15	37.40	38.30	33.45	32.30	34.10	27.80	31.70	33.30	32.80	33.85
17	36.95	37.00	37.40	38.30	33.55	32.45	34.10	27.50	31.90	33.35	33.10	33.30
18	36.70	36.60	37.35	38.25	33.70	32.45	34.05	27.15	31.90	33.35	33.30	32.70
19	36.55	36.60	37.80	38.00	34.15	32.45	33.95	26.85	31.60	32.95	33.30	32.55
20	36.50	36.75	38.00	37.55	34.35	32.45	33.90	26.55	31.00	32.35	33.25	32.20
21	36.45	37.10	38.05	36.25	34.35	32.45	33.50	26.95	30.60	30.85	33.25	32.10
22	36.40	37.25	38.20	28.70	34.30	32.10	33.45	27.40	30.50	30.10	33.10	32.25
23	36.40	37.30	38.25	25.25	---	31.15	33.50	27.80	30.50	30.60	32.80	32.60
24	36.35	37.40	38.30	26.35	---	30.80	33.50	28.15	31.00	30.70	32.80	33.00
25	36.35	37.45	---	27.05	---	30.70	33.40	28.40	30.95	31.05	32.70	33.15
26	36.20	37.20	---	27.35	---	---	33.35	28.75	30.85	31.25	32.70	33.25
27	36.10	36.55	---	28.30	---	---	33.70	29.05	30.80	31.45	32.70	33.50
28	36.30	36.65	---	28.55	---	---	33.80	29.30	31.30	31.70	33.10	33.60
29	36.75	36.65	---	28.55	---	---	33.65	29.45	31.30	31.70	33.65	33.55
30	36.90	36.65	---	28.40	---	---	33.80	29.40	31.70	31.65	33.75	33.20
31	37.00	---	---	28.80	---	---	---	29.50	---	31.55	34.10	---
MAX	37.40	37.45	38.30	38.60	34.35	32.45	34.10	33.80	31.90	33.35	34.10	34.45
CAL YR 1995	LOW 39.25											
WTR YR 1996	LOW 38.60											



GROUND-WATER RECORDS

283

WASHINGTON COUNTY--Continued.

393241081353500. Local number, WA-3.

LOCATION.--Lat 39°32'41", long 81°35'35", Hydrologic Unit 05040004 near Beverly.

Owner: Tri-County Rural Water Association.

AQUIFER.--Sand and gravel of Quaternary Age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in., depth, 49 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 620 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 3.25 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

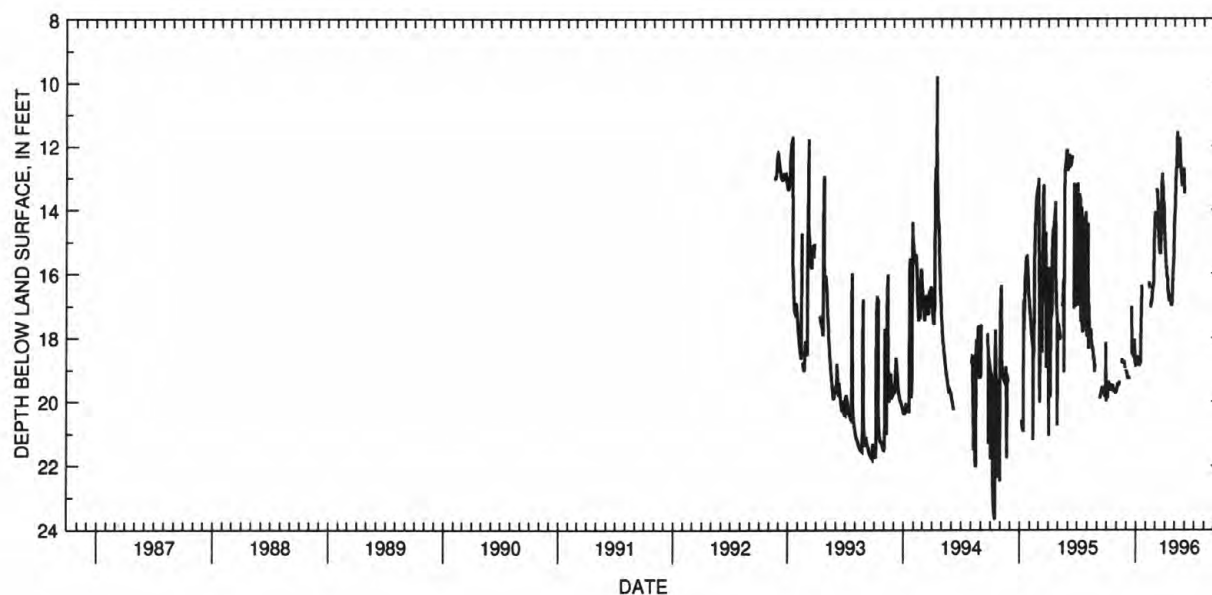
PERIOD OF RECORD.--November 1992 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 23.69 ft below land-surface datum, Oct. 16, 1994;
minimum daily low, 9.80 ft below land-surface datum, Apr. 16, 1994.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.00	19.65	---	18.85	---	14.35	14.85	14.60	13.50	---	---	---
2	19.90	19.65	19.05	18.90	---	14.05	15.15	14.25	---	---	---	---
3	19.90	19.55	19.00	18.75	---	14.15	15.20	14.05	---	---	---	---
4	19.85	19.55	19.05	18.65	---	14.15	15.50	13.85	---	---	---	---
5	19.85	19.45	19.10	18.65	---	---	15.75	13.15	---	---	---	---
6	19.85	19.45	19.10	18.55	---	---	15.80	12.85	---	---	---	---
7	19.45	19.45	19.25	18.65	---	13.40	15.80	12.65	---	---	---	---
8	19.45	19.50	19.25	18.65	---	13.35	16.00	12.70	---	---	---	---
9	19.35	19.45	19.20	18.70	---	13.60	16.10	11.90	---	---	---	---
10	19.45	19.45	19.25	18.65	---	13.70	16.15	11.55	---	---	---	---
11	19.55	19.35	19.25	18.75	---	13.95	16.45	12.20	---	---	---	---
12	19.55	19.40	19.25	18.85	---	14.55	16.50	12.10	---	---	---	---
13	19.65	---	19.30	18.85	16.25	14.75	16.65	12.50	---	---	---	---
14	19.60	---	---	18.80	16.45	15.00	16.75	12.65	---	---	---	---
15	19.45	---	19.15	18.85	---	15.10	16.80	12.65	---	---	---	---
16	19.50	---	---	18.75	---	15.30	16.85	11.75	---	---	---	---
17	19.50	---	19.05	18.75	---	15.35	16.80	11.80	---	---	---	---
18	19.45	---	---	18.15	17.05	15.35	16.75	12.15	---	---	---	---
19	19.65	18.65	---	17.10	16.80	15.35	16.75	12.40	---	---	---	---
20	19.55	18.80	17.00	16.35	16.90	14.55	16.70	12.60	---	---	---	---
21	19.50	18.75	18.45	---	16.85	14.25	16.90	12.80	---	---	---	---
22	19.50	18.70	18.50	---	16.65	13.30	17.00	12.80	---	---	---	---
23	19.65	18.75	18.50	---	16.50	12.95	16.95	12.95	---	---	---	---
24	19.65	18.75	18.50	---	16.45	12.85	16.95	13.15	---	---	---	---
25	19.60	18.75	18.45	---	16.35	13.05	16.85	13.25	---	---	---	---
26	19.65	18.75	18.55	---	16.35	13.35	16.40	13.25	---	---	---	---
27	19.65	18.75	18.55	---	16.25	13.55	16.00	13.25	---	---	---	---
28	19.65	18.95	18.65	---	14.95	13.75	15.80	13.15	---	---	---	---
29	19.65	18.90	18.05	---	14.80	13.80	15.70	13.10	---	---	---	---
30	19.75	18.90	18.75	---	---	14.05	15.30	12.70	---	---	---	---
31	19.65	---	18.75	---	---	14.35	---	13.05	---	---	---	---
MAX	20.00	19.65	19.30	18.90	17.05	15.35	17.00	14.60	13.50	---	---	---

CAL YR 1995 LOW 21.19

WTR YR 1996 LOW 20.00



GROUND-WATER RECORDS

WAYNE COUNTY

404655081553200. Local number, WN-3.

LOCATION.--Lat 40°46'55", long 81°55'32", Hydrologic Unit 05040003, OARDC-OSU Experiment Station near Wooster.

Owner: OARDC-OSU.

AQUIFER.--Shale of Mississippian Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 8 in., depth 20 ft, cased.

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

DATUM.--Elevation of land-surface datum is 1040 ft above sea level, from topographic map.

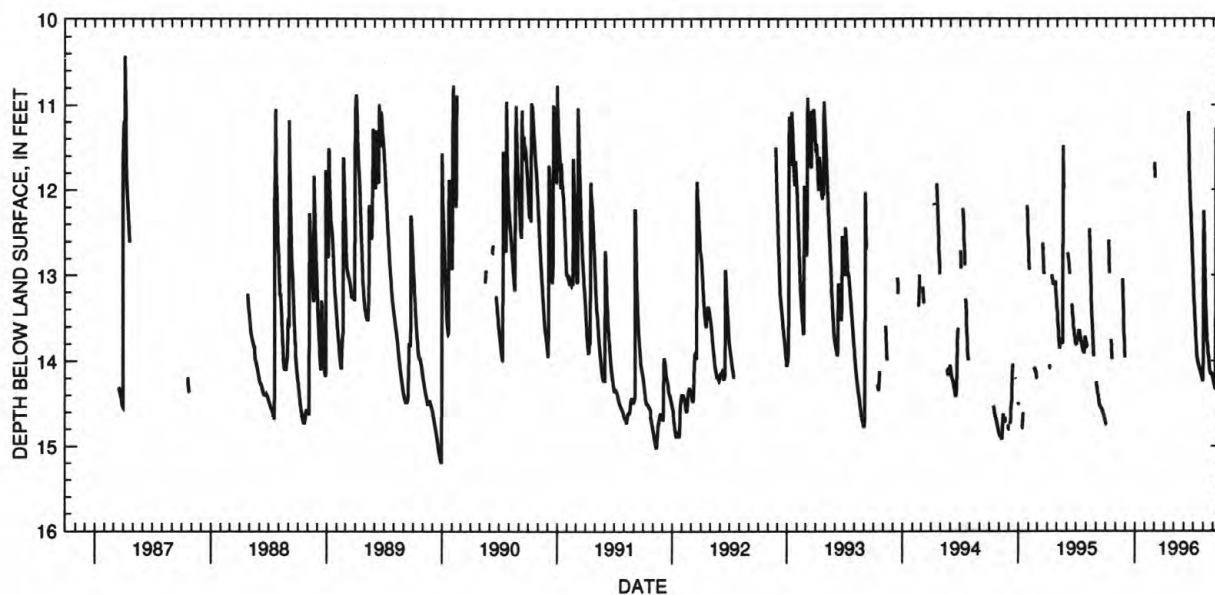
Measuring point: Floor of instrument shelter 3.50 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--June 1955 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 16.17 ft below land-surface datum, Jan. 27, 29, 1956;
minimum daily low, 10.43 ft below land-surface datum, Apr. 6, 1987.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.72	---	---	---	---	11.68	---	---	---	13.21	12.25	14.24
2	14.74	---	---	---	---	11.86	---	---	---	13.30	12.40	14.26
3	14.75	---	---	---	---	---	---	---	---	13.36	12.59	14.28
4	14.75	---	---	---	---	---	---	---	---	13.43	12.79	14.29
5	---	---	---	---	---	---	---	---	---	13.51	12.97	14.31
6	---	---	---	---	---	---	---	---	---	13.59	13.14	14.33
7	---	---	---	---	---	---	---	---	---	13.68	13.30	14.33
8	---	---	---	---	---	---	---	---	---	13.75	13.42	11.27
9	---	---	---	---	---	---	---	---	---	13.81	13.51	11.56
10	12.59	---	---	---	---	---	---	---	---	13.88	13.61	11.76
11	12.78	---	---	---	---	---	13.85	---	---	13.94	13.70	11.95
12	12.98	---	---	---	---	---	---	---	---	13.97	13.77	12.12
13	---	---	---	---	---	---	---	---	11.21	13.99	13.80	12.28
14	---	---	---	---	---	---	---	---	11.08	14.01	13.85	12.45
15	---	---	---	---	---	---	---	---	11.32	14.03	13.91	12.62
16	---	---	---	---	---	---	---	---	11.58	14.04	13.93	12.79
17	---	---	---	---	---	---	---	---	11.76	14.06	13.96	12.91
18	13.75	---	---	---	---	---	---	---	11.90	14.07	14.01	13.01
19	13.86	---	---	---	---	---	---	---	12.02	14.08	14.07	13.14
20	13.95	---	---	---	---	---	---	---	12.12	14.09	14.12	13.27
21	13.98	---	---	---	---	---	---	---	12.21	14.11	14.13	13.37
22	---	---	---	---	---	---	---	---	12.29	14.12	14.14	13.46
23	---	13.05	---	---	---	---	---	---	12.38	14.14	14.14	13.54
24	---	13.24	---	---	---	---	---	---	12.49	14.15	14.15	13.57
25	---	13.44	---	---	---	---	---	---	12.59	14.17	14.15	13.61
26	---	13.58	---	---	---	---	---	---	12.70	14.18	14.15	13.65
27	---	13.69	---	---	---	---	---	---	12.80	14.20	14.16	13.69
28	---	13.78	---	---	10.99	---	---	---	12.91	14.21	14.17	13.71
29	---	13.86	---	---	---	---	---	---	13.01	14.23	14.18	11.82
30	---	13.96	---	---	---	---	---	---	13.11	14.24	14.20	11.92
31	---	---	---	---	---	---	---	---	---	13.91	14.22	---
MAX	14.75	13.96	---	---	10.99	11.86	13.85	---	13.11	14.24	14.22	14.33

CAL YR 1995 LOW 14.79
WTR YR 1996 LOW 14.75

GROUND-WATER RECORDS

285

WAYNE COUNTY--Continued.

404802081583100. Local number, WN-2A.

LOCATION.--Lat 40°48'02", long 81°58'31", Hydrologic Unit 05040003, in well field by Killbuck Creek near Wooster.

Owner: Wooster Water Dept.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled test water table well, diameter 6 in., depth 65 ft, cased.

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

DATUM.--Elevation of land-surface datum is 855 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 6.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

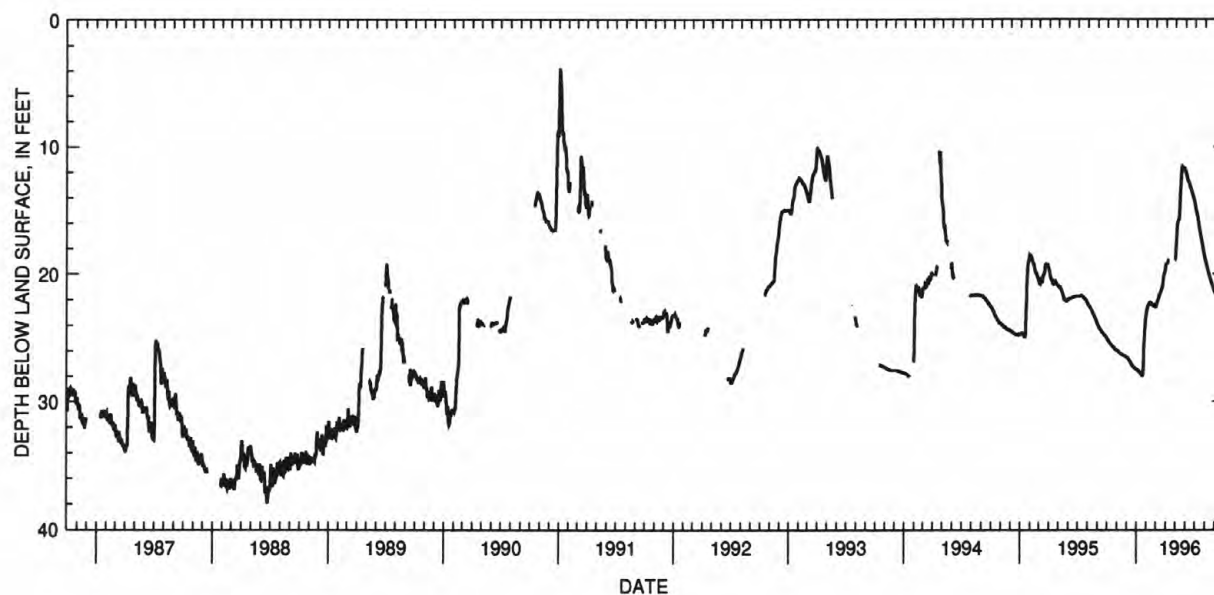
PERIOD OF RECORD.--July 1951 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 37.95 ft below land-surface datum, June 23, 1988;
minimum daily low, 2.35 ft below land-surface datum, Jan. 28, 1952.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.06	25.97	26.51	27.46	22.98	22.60	19.23	18.76	11.96	14.57	18.79	21.42
2	25.11	26.00	26.53	27.48	22.88	22.55	19.21	18.23	12.02	14.73	18.91	21.44
3	25.16	26.02	26.54	27.49	22.76	22.48	19.21	17.68	12.11	14.87	19.00	21.52
4	25.20	26.04	26.55	27.54	22.64	22.22	19.20	17.21	12.20	14.96	19.07	21.58
5	25.23	26.04	26.59	27.57	22.50	22.20	19.16	16.70	12.33	15.07	19.17	21.64
6	25.27	26.08	26.62	27.59	22.41	22.14	19.16	16.26	12.45	15.18	19.29	21.73
7	25.30	26.11	26.65	27.59	22.40	22.08	19.05	16.05	12.57	15.29	19.42	21.76
8	25.32	26.14	26.70	27.61	22.40	22.01	19.00	15.94	12.68	15.41	19.54	21.81
9	25.34	26.16	26.76	27.65	22.34	21.92	19.04	15.84	12.72	15.58	19.65	21.87
10	25.37	26.19	26.78	27.68	22.30	21.86	19.06	15.76	12.76	15.74	19.73	21.94
11	25.43	26.21	26.82	27.71	22.28	21.65	---	15.73	12.79	15.90	19.79	22.00
12	25.46	26.21	26.87	27.73	22.21	21.65	---	15.61	12.83	16.05	19.88	22.06
13	25.52	26.22	26.92	27.76	22.21	21.59	---	15.14	12.92	16.20	19.96	22.11
14	25.53	26.25	26.96	27.78	22.25	21.55	---	14.54	13.06	16.35	20.05	22.13
15	25.54	26.26	27.01	27.81	22.29	21.48	---	13.94	13.16	16.48	20.15	22.14
16	25.57	26.29	27.05	27.86	22.33	21.45	---	13.38	13.20	16.63	20.25	22.15
17	25.60	26.32	27.09	27.90	22.35	21.35	---	12.82	13.23	16.78	20.33	22.18
18	25.63	26.33	27.13	27.95	22.36	21.23	---	12.34	13.32	16.94	20.39	22.23
19	25.67	26.33	27.18	27.97	22.38	21.17	---	11.98	13.43	17.07	20.49	22.25
20	25.71	26.34	27.20	27.97	22.41	21.15	---	11.73	13.50	17.19	20.59	22.30
21	25.72	26.36	27.24	27.94	22.47	21.09	---	11.57	13.61	17.28	20.68	22.31
22	25.73	26.38	27.27	27.47	22.50	20.95	---	11.59	13.70	17.43	20.74	22.32
23	25.77	26.39	27.32	26.65	22.52	20.73	---	11.61	13.75	17.59	20.83	22.34
24	25.80	26.39	27.33	25.82	22.52	20.45	---	11.66	13.81	17.76	20.88	22.37
25	25.85	26.41	27.33	25.23	22.52	20.23	---	11.68	13.91	17.90	20.93	22.39
26	25.87	26.41	27.34	24.80	22.49	20.00	---	11.68	14.01	18.06	21.00	22.43
27	25.91	26.42	27.37	24.36	22.53	20.00	---	11.68	14.11	18.19	21.09	22.46
28	25.91	26.44	27.39	23.99	22.59	19.94	---	11.69	14.24	18.30	21.16	22.48
29	25.93	26.46	27.42	23.55	22.60	19.81	18.88	11.75	14.36	18.42	21.24	22.48
30	25.93	26.48	27.45	23.30	---	19.71	18.88	11.81	14.44	18.54	21.32	22.51
31	25.95	---	27.46	23.13	---	19.51	---	11.89	---	18.66	21.37	---
MAX	25.95	26.48	27.46	27.97	22.98	22.60	19.23	18.76	14.44	18.66	21.37	22.51

CAL YR 1995 LOW 27.46

WTR YR 1996 LOW 27.97



GROUND-WATER RECORDS

WAYNE COUNTY--Continued

405745081510200. Local number, WN-7.

LOCATION.--Lat 40°57'45", long 81°51'02", Hydrologic Unit 05040001, in well field along Steele Ditch near Sterling.

Owner: Rittman Water Department

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 123 ft, cased.

INSTRUMENTATION.--Type F continuous recorder.

DATUM.--Elevation of land-surface datum is 965 ft above sea level, from topographic map.

Measuring point: Floor of instrument shelter 5.00 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

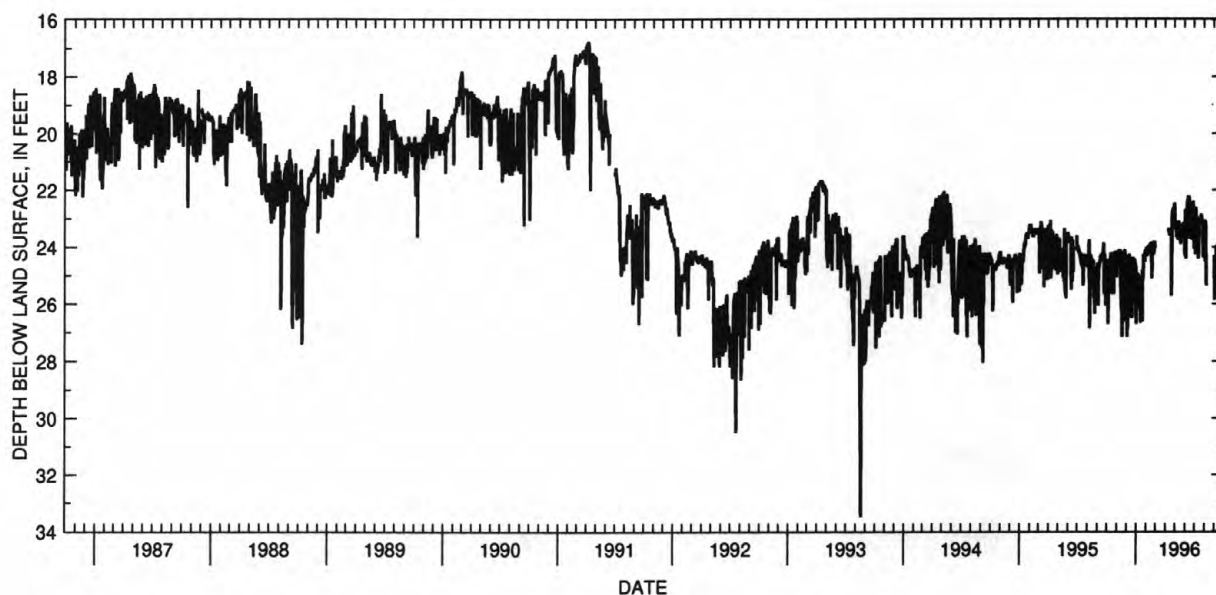
PERIOD OF RECORD.--April 1979 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 33.50 ft below land-surface datum, Aug. 19, 1993;

minimum daily low, 5.38 ft below land-surface datum, Jan. 17, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24.45	25.05	24.95	26.70	24.15	---	---	23.30	24.30	23.90	23.20	24.30
2	24.75	24.15	26.30	25.10	24.00	---	---	23.35	24.05	22.75	23.05	25.85
3	24.80	24.25	26.15	24.90	24.10	---	---	23.25	22.70	22.75	24.50	24.80
4	24.80	24.35	27.15	24.95	24.30	---	---	23.35	24.40	24.25	23.10	24.45
5	26.70	24.25	26.55	24.95	24.25	---	---	23.25	22.80	22.60	23.30	24.45
6	24.85	24.30	26.85	25.10	24.20	---	---	23.65	22.65	22.80	24.90	24.55
7	24.60	24.15	24.35	24.95	24.10	---	---	23.45	22.70	23.95	25.35	24.20
8	24.45	24.15	24.50	25.00	23.95	---	---	23.45	23.55	22.95	---	23.95
9	24.65	24.15	26.15	26.15	24.05	---	---	23.35	22.40	23.05	---	25.80
10	24.50	24.10	24.25	25.40	24.00	---	---	23.75	22.35	23.00	---	24.20
11	24.50	24.65	24.35	25.20	24.00	---	23.45	23.15	22.45	23.85	---	24.10
12	24.60	24.10	24.45	25.10	24.15	---	23.35	23.10	22.25	23.20	---	23.95
13	24.40	24.25	24.50	25.10	23.95	---	23.50	23.20	22.25	24.40	---	23.85
14	24.25	25.85	24.50	26.65	23.90	---	23.60	23.25	22.30	24.20	---	23.80
15	24.25	24.15	26.15	26.10	23.95	---	23.40	23.25	23.70	23.20	---	24.60
16	24.20	26.30	24.40	25.25	23.85	---	23.40	23.35	23.65	23.00	---	23.80
17	25.65	24.65	24.65	26.00	24.00	---	23.50	23.30	23.15	23.20	---	23.70
18	24.25	27.15	26.45	25.30	24.00	---	23.55	23.70	23.00	23.20	---	23.75
19	24.25	26.60	26.45	26.60	25.10	---	23.55	23.90	23.00	23.00	---	23.90
20	25.35	24.50	24.35	26.55	23.95	---	25.70	23.70	23.15	23.05	---	23.75
21	24.30	24.70	24.50	24.80	23.95	---	24.40	23.60	23.25	23.05	---	23.90
22	24.20	26.50	24.35	25.15	24.00	---	23.00	23.75	22.60	22.85	---	23.90
23	25.65	24.50	24.55	24.65	23.80	---	22.75	23.65	22.50	23.00	---	23.85
24	24.30	24.40	25.95	24.25	24.20	---	22.75	23.50	23.75	23.05	---	23.70
25	24.30	24.35	24.60	24.40	24.20	---	22.80	23.55	22.65	23.10	---	23.80
26	24.40	24.10	24.45	24.25	24.15	---	22.60	23.20	22.40	23.10	---	23.70
27	24.15	24.20	24.45	24.35	23.85	---	22.75	23.15	22.45	23.30	---	23.70
28	24.25	24.35	24.50	24.50	23.85	---	22.85	23.30	23.40	24.35	---	23.85
29	24.45	24.85	24.60	24.20	24.05	---	22.50	23.15	22.60	23.25	---	23.60
30	24.35	26.60	25.80	24.10	---	---	22.45	23.25	24.05	23.35	---	23.60
31	24.30	---	24.65	24.30	---	---	---	23.45	---	23.10	---	---
MAX	26.70	27.15	27.15	26.70	25.10	---	25.70	23.90	24.40	24.40	25.35	25.85
CAL YR 1995	LOW 27.15											
WTR YR 1996	LOW 27.15											



GROUND-WATER RECORDS

287

WAYNE COUNTY--Continued

405805081462300. Local number, WN-6.

LOCATION.--Lat 40°58'05", long 81°46'23", Hydrologic Unit 05040001, Salt Street, Rittman.

Owner: Tenneco, Inc.

AQUIFER.--Sand and gravel of Pleistocene Age.

WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in., depth 180 ft, cased.

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

DATUM.--Elevation of land-surface datum is 960 ft above sea level, from topographic map.

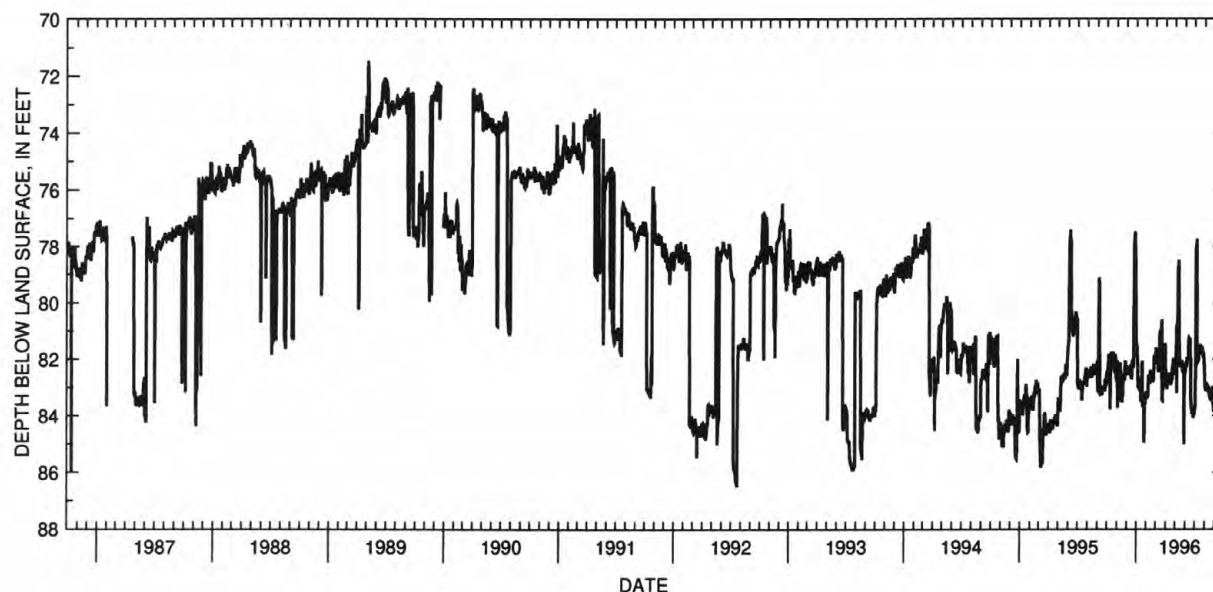
Measuring point: Floor of instrument shelter 2.30 ft above land-surface datum.

REMARKS.--Station operated by Ohio Department of Natural Resources, Division of Water.

PERIOD OF RECORD.--May 1971 to current year.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily low, 92.80 ft below land-surface datum, July 21, 1971;
minimum daily low, 69.87 ft below land-surface datum, Apr. 22, 1984.DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MAXIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82.41	82.65	82.23	81.54	83.19	81.90	82.44	82.18	82.45	83.77	82.76	83.69
2	82.47	82.05	82.49	81.50	83.24	81.58	82.97	82.21	82.35	83.73	82.90	83.66
3	82.46	83.72	82.30	81.60	83.27	82.08	82.75	82.19	82.15	83.48	83.03	83.66
4	82.32	83.46	82.51	81.92	83.35	82.17	82.80	82.07	82.11	78.14	83.10	83.69
5	82.24	83.51	82.50	82.26	83.34	81.73	83.06	80.75	82.24	78.02	83.10	83.75
6	81.82	83.42	82.45	83.03	83.24	81.61	82.97	83.20	82.24	77.93	83.07	83.72
7	81.97	82.95	82.44	82.93	82.95	81.74	82.73	81.05	81.93	77.73	83.09	83.31
8	82.09	83.01	82.46	82.81	82.56	81.93	82.74	82.04	82.07	81.48	82.97	83.31
9	82.03	82.65	82.31	82.66	82.65	82.28	82.74	78.87	82.00	81.54	83.02	83.27
10	82.03	82.41	82.31	83.07	82.64	82.47	82.78	78.87	81.95	81.99	83.06	83.41
11	83.77	82.11	82.35	83.08	82.63	82.28	82.74	78.47	81.91	82.06	83.06	83.41
12	82.97	82.33	82.47	82.74	82.83	81.92	82.51	78.62	81.34	82.02	82.97	83.28
13	82.03	83.21	82.47	82.84	82.83	81.56	82.56	81.43	81.26	82.07	83.00	83.26
14	81.79	83.20	82.18	82.93	82.39	81.10	82.90	81.39	81.29	81.56	83.08	83.24
15	81.79	83.19	82.36	83.40	82.68	80.97	82.85	82.26	81.29	81.70	83.12	83.35
16	82.15	83.39	82.58	83.38	82.78	81.10	82.75	82.15	81.29	81.78	83.29	83.35
17	82.27	83.53	82.72	83.06	82.74	80.93	82.90	82.15	81.92	81.77	83.33	83.46
18	82.06	83.27	82.57	83.06	82.74	80.97	82.87	82.23	81.89	81.61	83.40	83.57
19	82.14	83.32	82.14	82.06	82.73	80.90	82.58	82.27	83.51	81.46	83.42	83.63
20	81.90	82.95	82.01	83.65	82.71	80.59	82.59	82.17	83.64	81.60	83.36	83.62
21	81.74	82.54	82.27	83.66	82.76	83.45	82.78	82.11	83.75	81.61	83.32	83.60
22	82.08	82.69	82.27	83.66	82.77	83.46	82.37	82.10	83.72	81.57	83.28	83.43
23	82.19	82.61	82.23	83.30	82.72	83.03	82.26	82.24	83.84	81.58	83.14	83.64
24	82.11	82.76	78.00	83.25	82.61	83.03	82.26	82.44	83.80	81.61	83.16	83.60
25	82.50	82.71	77.74	84.96	82.05	82.45	82.04	82.45	83.94	81.57	83.07	83.87
26	82.02	82.41	77.48	84.50	81.91	82.81	81.97	82.40	84.03	81.75	82.96	83.87
27	81.82	82.04	77.50	83.35	81.85	82.93	82.12	82.28	84.03	81.90	82.96	83.66
28	82.04	82.45	78.37	83.60	81.95	82.10	82.56	82.28	83.95	81.90	83.85	83.55
29	82.45	82.49	78.42	83.43	81.99	81.62	82.41	85.02	83.91	81.75	83.85	83.73
30	82.68	82.46	80.84	83.24	---	81.62	82.15	82.53	83.90	82.16	83.83	83.96
31	82.79	---	80.80	83.19	---	81.43	---	82.54	---	82.22	83.80	---
MAX	83.77	83.72	82.72	84.96	83.35	83.46	83.06	85.02	84.03	83.77	83.85	83.96

CAL YR 1995 LOW 85.78
WTR YR 1996 LOW 85.02

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CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
<i>Length</i>		
inch (in.)	2.54×10^1	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^0	kilometer
<i>Area</i>		
acre	4.047×10^3	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi ²)	2.590×10^0	square kilometer
<i>Volume</i>		
gallon (gal)	3.785×10^0	liter
	3.785×10^0	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^3	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft ³)	2.832×10^1	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft ³ /s) d]	2.447×10^3	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^3	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
<i>Flow</i>		
cubic foot per second (ft ³ /s)	2.832×10^1	liter per second
	2.832×10^1	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^1	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
<i>Mass</i>		
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.

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