



Water Resources Data West Virginia Water Year 1981

Appendix - Coal Areas and Special Projects



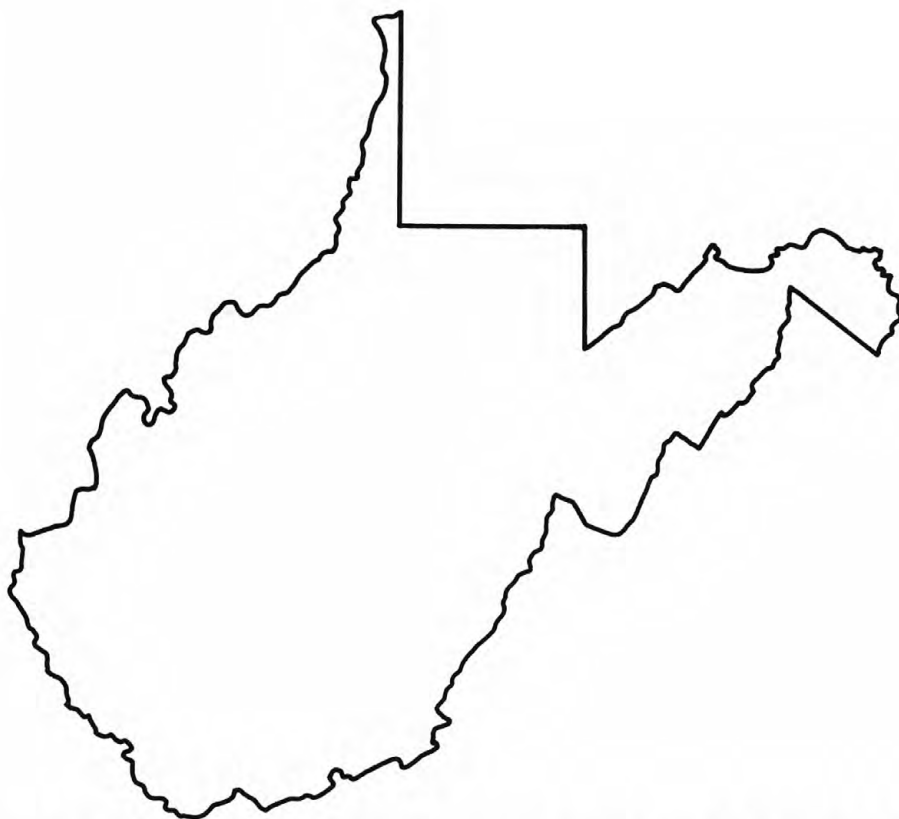
U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WV-81-A
Prepared in cooperation with the State of West Virginia
and with other agencies

1980													
OCTOBER							NOVEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4							1
5	6	7	8	9	10	11	2	3	4	5	6	7	8
12	13	14	15	16	17	18	9	10	11	12	13	14	15
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30	31		23	24	25	26	27	28	29
							30						
DECEMBER													
S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4	5	6						
7	8	9	10	11	12	13	7	8	9	10	11	12	13
14	15	16	17	18	19	20	14	15	16	17	18	19	20
21	22	23	24	25	26	27	21	22	23	24	25	26	27
28	29	30	31				28	29	30	31			
1981													
JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
				1	2	3	1	2	3	4	5	6	7
4	5	6	7	8	9	10	8	9	10	11	12	13	14
11	12	13	14	15	16	17	15	16	17	18	19	20	21
18	19	20	21	22	23	24	22	23	24	25	26	27	28
25	26	27	28	29	30	31							
MARCH													
S	M	T	W	T	F	S	S	M	T	W	T	F	S
							1	2	3	4	5	6	7
							8	9	10	11	12	13	14
							15	16	17	18	19	20	21
							22	23	24	25	26	27	28
							29	30	31				
APRIL							MAY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
			1	2	3	4						1	2
5	6	7	8	9	10	11	3	4	5	6	7	8	9
12	13	14	15	16	17	18	10	11	12	13	14	15	16
19	20	21	22	23	24	25	17	18					



Water Resources Data West Virginia Water Year 1981

Appendix - Coal Areas and Special Projects



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT WV-81-A
Prepared in cooperation with the State of West Virginia
and with other agencies

UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

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Charleston, West Virginia 25301

1982

PREFACE

"Water Resources Data" reports are published annually by States. Chief Hydrologist Philip Cohen and Assistant Chief Hydrologist for Scientific Publications and Data Management, James E. Biesecker, have general responsibility for this U.S. Geological Survey publication series.

This appendix to "Water Resources Data for West Virginia, Water Year 1981," was prepared by personnel of the West Virginia District, Water Resources Division, U.S. Geological Survey, under the supervision of David H. Appel, District Chief, and Stanley P. Sauer, Regional Hydrologist, Northeastern Region.

The first section of this appendix is published to meet the hydrologic data requirements of Public Law 95-87.

The second section is published to make available the hydrologic data collected for the Tug Fork-Twelvepole Creek basin report.

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15. Supplementary Notes Prepared in cooperation with the State of West Virginia and other agencies.				
16. Abstract (Limit: 200 words) The first section of this report contains data collected during the 1981 water year for the West Virginia Coal Hydrology monitoring project. Records consist of discharge and water-quality data collected at 246 sites in July, at 29 sites in August, and sediment data for 235 sites collected in July. The second section of this report contains data collected during the period January 1978 to December 1981 for the water resources study of the Tug Fork and Twelvepole Creek basins. Records consist of physical data for 347 wells, water level data for two wells, quality analyses of water from 328 wells, and discharge, chemical and biological data for 91 sites sampled several times.				
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INTRODUCTION

Water resources data for the 1981 water year for West Virginia consists of records of stage, discharge, and water quality of streams and springs; stage and contents of lakes and reservoirs; quality and levels of ground water. The records for water year 1981 have been published in U.S. Geological Survey Water Data Report WV-81-1. Starting with water year 1979 this separate appendix that contains data specifically related to coal areas and special projects is being published.

Public Law 95-87, the "Surface Mining Control and Reclamation Act of 1977," signed into law on August 3, 1977, initiated a need for water-resources information and analysis on a scale never before required nationally. In recognizing the potentially adverse impacts that mining of coal may have on water resources, the law requires that each mining-permit applicant make an analysis of the potential effects of the proposed mine on the hydrology of the mine site and adjacent area. The law also requires that "an appropriate Federal or State agency" provide to each mining-permit applicant "hydrologic information on the general area prior to mining." The Water Resources Division of the U. S. Geological Survey was funded directly by the Congress to acquire, interpret, and disseminate hydrologic data on the coal areas of the Nation. The data presented in this appendix were collected specifically to meet the requirements of this law and to establish a data base from which hydrologically significant changes can be monitored.

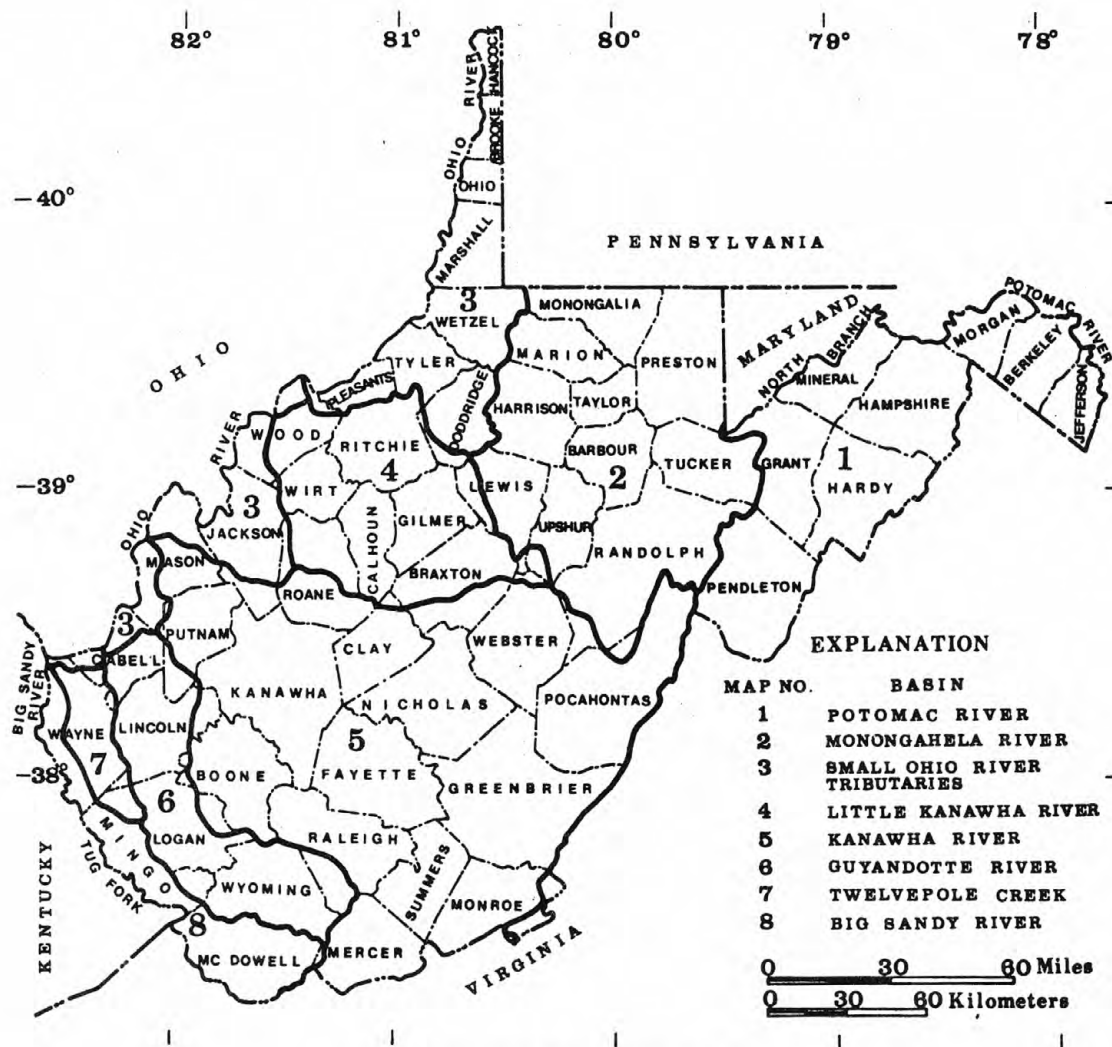
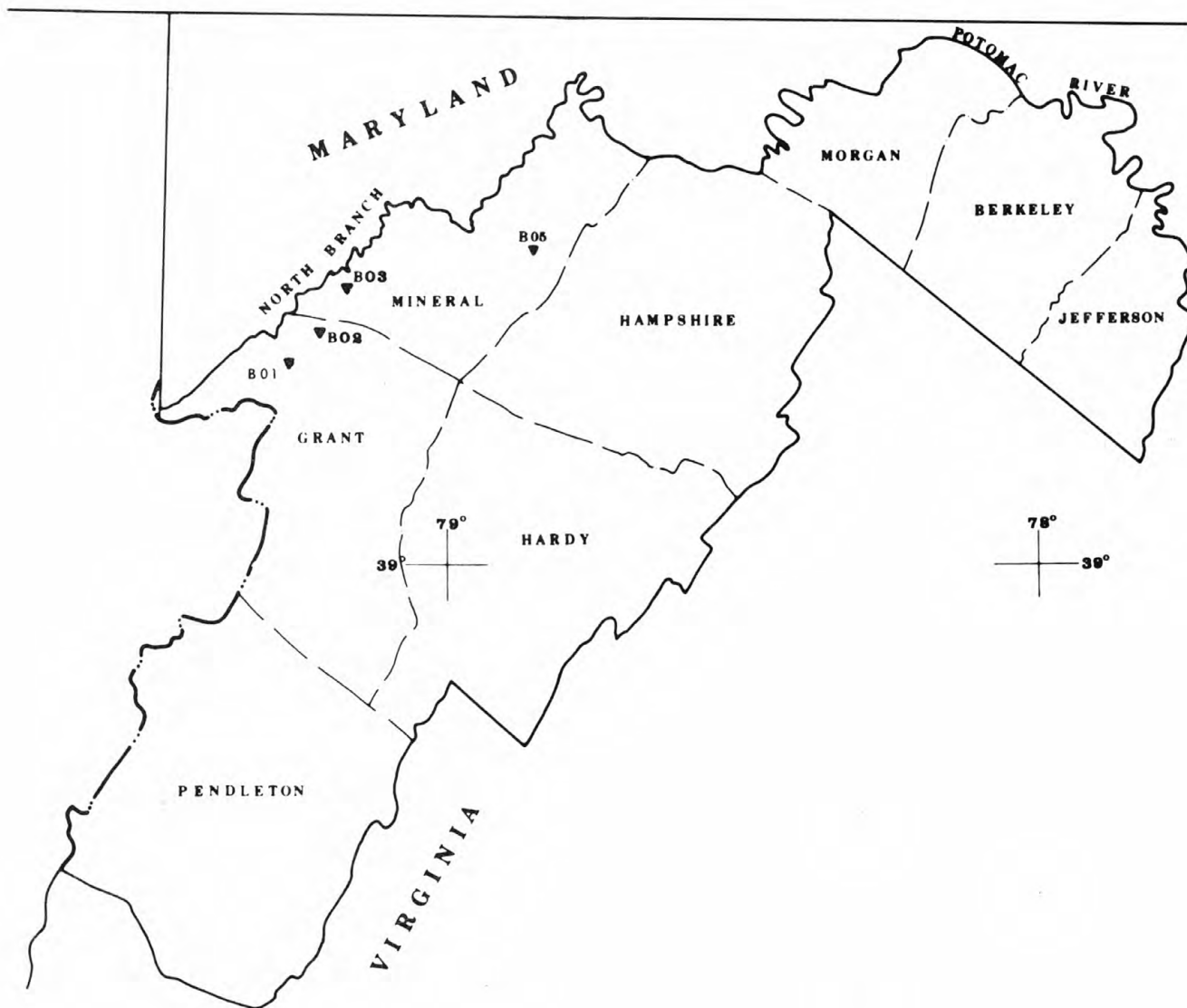


Figure 1.--Map of West Virginia showing major drainage basins.

PENNSYLVANIA



EXPLANATION

▼ AO1 Stream sampling site

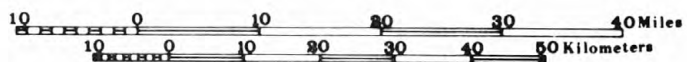


Figure 2.--Location of sampling sites in the Potomac River basin.

Table 1.--Name, location, and drainage area for sites in the Potomac River basin.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.
B01.0	Stony River	Grant	48.8	4,7
B02.0	Abram Creek	"	21.8	"
B03.0	Abram Creek	Mineral	42.4	"
B05.0	Patterson Creek	"	219.	"

NORTH ATLANTIC SLOPE BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
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POTOMAC RIVER BASIN

01595200 B01.0 STONY RIVER NEAR MOUNT STORM, W. VA. (LAT 39 16 10 LONG 079 15 45)

JUL , 1981												
21...	0930	13	540	3.9	19.0	150	1.0	44	10	28	1.0	--

391843079124239 - B02.0 ABRAM CR @ HWY 50 BR NR MOUNT STORM WV (LAT 39 18 43 LONG 079 12 42)

JUL , 1981												
21...	0830	12	770	3.6	17.5	310	2.0	80	27	8.6	.2	0

01595300 B03.0 ABRAM CREEK AT OAKMONT W VA (LAT 39 22 00 LONG 079 10 45)

JUL , 1981												
21...	0720	28	520	3.9	19.0	190	1.0	49	17	6.6	.2	--

01604500 B05.0 PATTERSON CREEK NEAR HEADSVILLE, W. VA. (LAT 39 26 35 LONG 078 49 20)

JUL , 1981												
20...	1620	11	290	7.5	27.0	140	.0	41	8.2	5.2	.2	110

NORTH ATLANTIC SLOPE BASIN

5

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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POTOMAC RIVER BASIN--Continued

01595200 B01.0 STONY RIVER NEAR MOUNT STORM, W. VA. (LAT 39 16 10 LONG 079 15 45)

JUL , 1981 21...	210	2.9	357	.49	12.5	1900	1100	780	2700	0	2700
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391843079124239 - B02.0 ABRAM CR W HWY 50 BR NR MOUNT STORM WV (LAT 39 18 43 LONG 079 12 42)

JUL , 1981 21...	350	6.0	553	.75	17.9	960	520	440	7300	0	7300
---------------------	-----	-----	-----	-----	------	-----	-----	-----	------	---	------

01595300 B03.0 ABRAM CREEK AT OAKMONT W VA (LAT 39 22 00 LONG 079 10 45)

JUL , 1981 21...	270	15	356	.48	26.9	810	750	60	4100	4100	4
---------------------	-----	----	-----	-----	------	-----	-----	----	------	------	---

01604500 B05.0 PATTERSON CREEK NEAR HEADSVILLE, W. VA. (LAT 39 26 35 LONG 078 49 20)

JUL , 1981 20...	34	40	172	.23	5.1	470	450	20	40	0	40
---------------------	----	----	-----	-----	-----	-----	-----	----	----	---	----

NORTH ATLANTIC SLOPE BASIN

7

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
------	------	---	--	--

01595200 B01.0 STONY RIVER NEAR MOUNT STORM, W. VA. (LAT 39 16 10 LONG 079 15 45)

JUL , 1981				
21...	0930	13	4	.14

391843079124239 - B02.0 ABRAM CR @ HWY 50 BR NR MOUNT STORM WV (LAT 39 18 43 LONG 079 12 42)

JUL , 1981				
21...	0830	12	4	.13

01595300 B03.0 ABRAM CREEK AT OAKMONT W VA (LAT 39 22 00 LONG 079 10 45)

JUL , 1981				
21...	0720	28	15	1.1

01604500 B05.0 PATTERSON CREEK NEAR HEADSVILLE, W. VA. (LAT 39 26 35 LONG 078 49 20)

JUL , 1981				
20...	1620	11	--	--

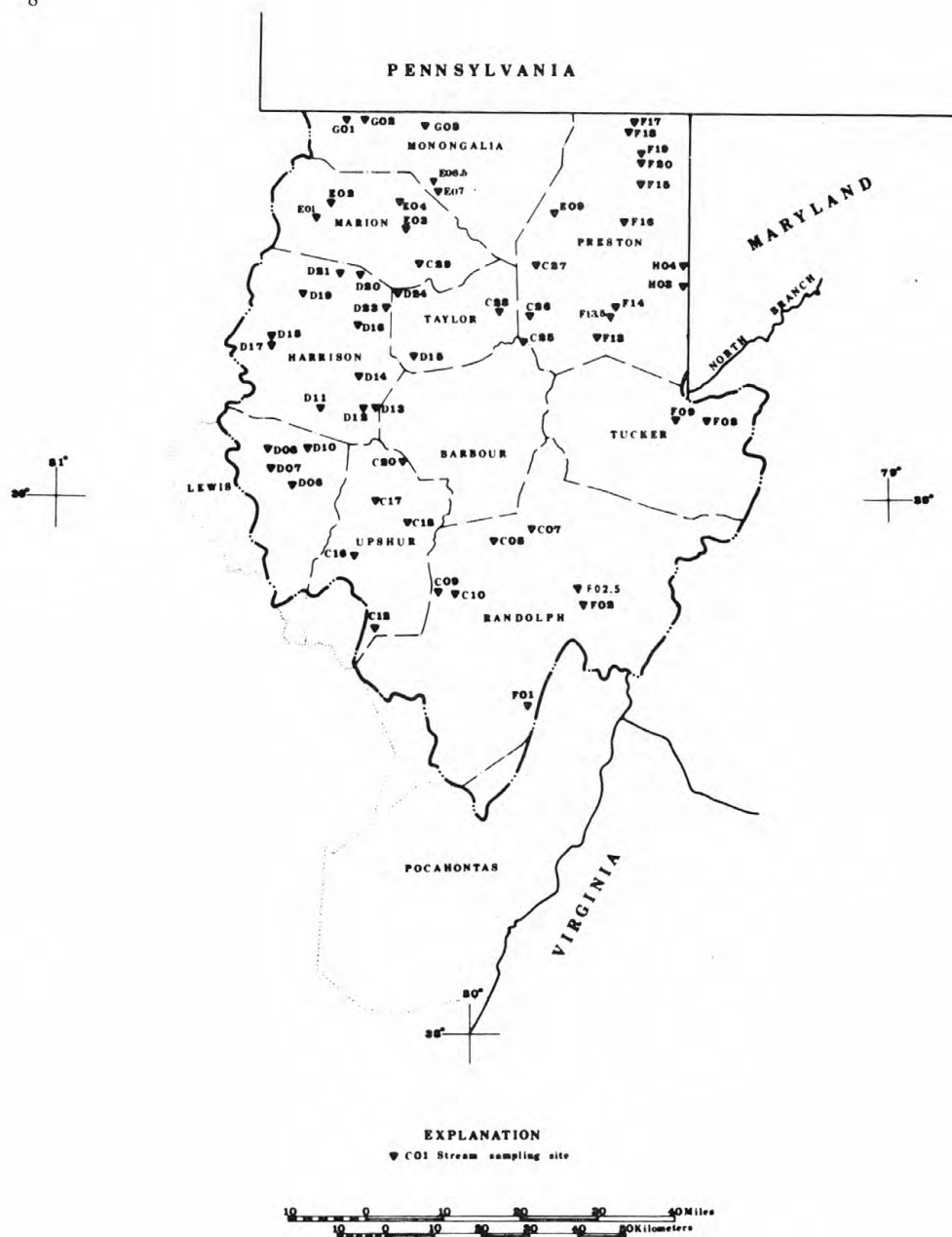


Figure 3.--Location of sampling sites in the Monongahela River basin.

Table 2.--Name, location, and drainage area for sites in the Monongahela River basin.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.	Local No.	Name	County	Drain. Area (Mi ²)	Page No.
C07.0	Leading Creek	Randolph	47.7	10,22	D23.0	Thomas Fork	Harrison	4.50	14,24
C08.0	Roaring Creek	"	29.0	"	D24.0	Hustead Fork	Taylor	16.8	"
C09.0	Middle Fork River	"	41.3	"	E01.0	Buffalo Creek	Marion	29.5	"
C10.0	Cassity Fork	"	15.7	"	E02.0	Pyles Fork	"	18.5	"
C12.0	R Fk Buckhannon R	Upshur	25.4	"	E03.0	Buffalo Creek	"	115.	16,25
C16.0	French Creek	"	14.5	"	E04.0	Pawpaw Creek	"	28.6	"
C17.0	Fink Run	"	14.6	"	E06.5	Indian Creek	Monongahela	11.8	"
C18.0	Sand Run	"	14.3	"	E07.0	Indian Creek	"	19.7	"
C20.0	Pecks Run	"	10.4	"	E09.0	Deckers Creek	Preston	13.7	"
C25.0	Sandy Creek	Barbour	76.7	"	F01.0	Shavers Fork	Randolph	60.3	"
C26.0	Little Sandy Creek	Preston	25.4	"	F02.0	Shavers Fork	"	115.	"
C27.0	Three Fork Creek	"	40.8	12,23	F02.5	Shavers Fork	"	151	"
C28.0	Three Fork Creek	Taylor	90.4	"	F08.0	Beaver Creek	Tucker	20.2	"
C29.0	Tygart Valley River	Marion	1,366.	"	F09.0	N Fk Blackwater River	"	13.6	"
D06.0	Stonecoal Creek	Lewis	36.4	"	F13.0	Buffalo Creek	Preston	12.2	"
D07.0	Polk Creek	"	11.0	"	F13.5	Cheat River	"	972.	18,26
D08.0	Freemans Creek	"	22.4	"	F14.0	Saltlick Creek	"	34.6	"
D10.0	Hackers Creek	"	31.2	"	F15.0	Muddy Creek	"	15.2	"
D11.0	Lost Creek	Harrison	13.1	"	F16.0	Muddy Creek	"	33.2	"
D12.0	Gnatty Creek	"	32.7	"	F17.0	Big Sandy Creek	"	89.2	"
D13.0	Elk Creek	"	32.7	"	F18.0	Glade Run	"	4.94	"
D14.0	Brushy Fork	"	20.2	"	F19.0	Little Sandy Creek	"	28.9	"
D15.0	Simpson Creek	Taylor	33.4	14,24	F20.0	Beaver Creek	"	12.3	"
D16.0	Simpson Creek	Harrison	65.5	"	G01.0	West Virginia Fork	Monongalia	24.0	"
D17.0	Tenmile Creek	"	15.9	"	G02.0	Miracle Run	"	20.5	"
D18.0	Salem Creek	"	16.4	"	G03.0	Dolls Run	"	11.0	"
D19.0	Little Tenmile Creek	"	25.6	"	H03.0	Laurel Run	Preston	9.41	20,27
D20.0	West Fork River	"	759.	"	H04.0	Snowy Creek	"	19.0	"
D21.0	Bingamon Creek	"	32.3	"					

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
MONONGAHELA RIVER BASIN												
385646079512439 - C07.0LEADING CR @ HWY 219 BR @ ELKINS WV (LAT 38 56 46 LONG 079 51 24)												
JUL , 1981 22...	1650	11	90	6.3	22.0	29	--	8.4	2.0	3.2	.3	22
385605079570039 - C08.0ROARING CR @ HWY 21/1 BR @ NORTON WV (LAT 38 56 05 LONG 079 57 00)												
JUL , 1981 22...	1120	18	340	3.4	18.0	89	1.0	23	7.7	2.1	.1	--
384905080024139 - C09.0MIDDLE FK R @ HWY 35 BR @ CASSITY WV (LAT 38 49 05 LONG 080 02 41)												
JUL , 1981 22...	0915	40	37	5.0	18.0	11	--	2.7	1.0	1.5	.2	3
384933080020639 - C10.0CASSITY FK @ HWY 35 BR @ CASSITY WV (LAT 38 49 33 LONG 080 02 06)												
JUL , 1981 22...	1010	6.0	675	3.1	12.0	120	4.0	22	16	1.3	.1	--
384440080140939 - C12.0R F BUCKHANNON R @ HWY 48 BR @ NEWLONTON WV (LAT 38 44 40 LONG 080 14 09)												
JUL , 1981 21...	0845	11	42	7.0	22.0	14	--	4.2	.9	1.0	.1	18
385307080175339 - C16.0FRENCH CR @ HWY 20 BR @ FRENCH CREEK WV (LAT 38 53 07 LONG 080 17 53)												
JUL , 1981 22...	1120	4.0	120	7.0	23.0	35	--	9.9	2.4	5.0	.4	36
385946080142139 - C17.0FINK RUN @ HWY 119 BR @ BUCKHANNON WV (LAT 38 59 46 LONG 080 14 21)												
JUL , 1981 22...	0940	5.7	500	6.3	21.5	190	.3	58	10	19	.6	15
03052500 C18.0 SAND RUN NEAR BUCKHANNON, W. VA. (LAT 38 57 50 LONG 080 09 10)												
JUL , 1981 22...	1230	11	350	7.2	22.0	130	--	28	14	10	.4	13
390334080091839 - C20.0PECKS RUN @ HWY 1/13 BR @ TETER WV (LAT 39 03 34 LONG 080 09 18)												
JUL , 1981 22...	1410	3.0	640	7.3	25.0	300	.0	85	22	17	.4	65
391722079543439 - C25.0SANDY CR @ HWY 1 BR @ CLAUDE WV (LAT 39 17 22 LONG 079 54 34)												
JUL , 1981 23...	0910	13	370	3.9	20.5	83	2.0	24	5.6	2.5	.1	0
391958079520739 - C26.0L SANDY CR @ HWY 92/14 BR @ EVANSVILLE WV (LAT 39 19 58 LONG 079 52 07)												
JUL , 1981 23...	1150	5.9	420	3.7	21.0	93	2.0	27	6.3	3.1	.1	0

OHIO RIVER BASIN

11

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MONONGAHELA RIVER BASIN--Continued

385646079512439 - C07.0LEADING CR @ HWY 219 BR @ ELKINS WV (LAT 38 56 46 LONG 079 51 24)

JUL , 1981 22...	9.1	4.2	57	.08	1.6	1100	960	140	50	10	40
---------------------	-----	-----	----	-----	-----	------	-----	-----	----	----	----

385605079570039 - C08.0ROARING CR @ HWY 21/1 BR @ NORTON WV (LAT 38 56 05 LONG 079 57 00)

JUL , 1981 22...	100	2.4	197	.27	9.5	590	180	410	1100	0	1100
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384905080024139 - C09.0MIDDLE FK R @ HWY 35 BR @ CASSITY WV (LAT 38 49 05 LONG 080 02 41)

JUL , 1981 22...	8.3	--	28	.04	3.0	1600	1600	30	30	20	10
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384933080020639 - C10.0CASSITY FK @ HWY 35 BR @ CASSITY WV (LAT 38 49 33 LONG 080 02 06)

JUL , 1981 22...	200	.8	372	.51	6.0	4400	1400	3000	4500	0	4700
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384440080140939 - C12.0R F BUCKHANNON R @ HWY 48 BR @ NEWLONTON WV (LAT 38 44 40 LONG 080 14 09)

JUL , 1981 21...	6.7	--	26	.04	.77	300	260	40	10	0	10
---------------------	-----	----	----	-----	-----	-----	-----	----	----	---	----

385307080175339 - C16.0FRENCH CR @ HWY 20 BR @ FRENCH CREEK WV (LAT 38 53 07 LONG 080 17 53)

JUL , 1981 22...	6.8	380	58	.08	.63	1300	920	380	380	0	380
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385946080142139 - C17.0FINK RUN @ HWY 119 BR @ BUCKHANNON WV (LAT 38 59 46 LONG 080 14 21)

JUL , 1981 22...	190	17	372	.51	5.7	10000	9800	210	2100	0	2100
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03052500 C18.0 SAND RUN NEAR BUCKHANNON, W. VA. (LAT 38 57 50 LONG 080 09 10)

JUL , 1981 22...	130	1900	246	.33	7.3	1300	1300	40	1900	0	2100
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390334080091839 - C20.0PECKS RUN @ HWY 1/13 BR @ TETER WV (LAT 39 03 34 LONG 080 09 18)

JUL , 1981 22...	200	1500	466	.63	3.7	1300	1300	50	1500	0	1700
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391722079543439 - C25.0SANDY CR @ HWY 1 BR @ CLAUDE WV (LAT 39 17 22 LONG 079 54 34)

JUL , 1981 23...	130	900	218	.30	7.6	1300	450	850	900	60	840
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391958079520739 - C26.0L SANDY CR @ HWY 92/14 BR @ EVANSVILLE WV (LAT 39 19 58 LONG 079 52 07)

JUL , 1981 23...	150	3.3	261	.35	4.1	3200	200	3000	530	0	540
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
MONONGAHELA RIVER BASIN--Continued												
392617079505539 - C27.0THREE FK CR @ HWY 33 BR NR GLADESVILLE WV (LAT 39 26 17 LONG 079 50 55)												
JUL , 1981 23...	1300	29	340	4.0	21.0	100	.7	27	7.8	5.5	.2	0
392041079563739 - C28.0THREE FK CR @ HWY 50 BR @ THORNTON WV (LAT 39 20 41 LONG 079 56 37)												
JUL , 1981 23...	1045	47	280	4.3	20.0	85	.5	23	6.8	5.2	.2	0
03057000 C29.0 TYGART VALLEY RIVER AT COLFAX, W. VA. (LAT 39 26 15 LONG 080 07 55)												
JUL , 1981 22...	1800	616	190	7.7	25.0	65	.0	19	4.3	4.8	.3	16
390210080265639 - D06.0STONECOAL CR @ HWY 119 BR @ WESTON WV (LAT 39 02 10 LONG 080 26 56)												
JUL , 1981 22...	0830	13	380	7.0	21.0	140	.0	41	9.5	13	.5	42
390253080283839 - D07.0POLK CR @ HWY 33 BR @ WESTON WV (LAT 39 02 53 LONG 080 28 38)												
JUL , 1981 22...	0730	4.3	420	7.1	21.0	180	.0	50	13	8.5	.3	75
390627080294039 - D08.0FREEMANS CR @ BR @ VALLEY CHAPEL WV (LAT 39 06 27 LONG 080 29 40)												
JUL , 1981 21...	1515	6.7	580	7.4	30.0	280	--	77	21	6.3	.2	106
390520080232239 - D10.0HACKERS CR @ HWY 14 BR NR JANE LEW WV (LAT 39 05 20 LONG 080 23 22)												
JUL , 1981 21...	1115	17	860	7.3	25.0	310	.0	85	23	69	1.7	114
391000080220739 - D11.0LOST CR @ HWY 27/2 BR @ LOST CREEK WV (LAT 39 10 00 LONG 080 22 07)												
JUL , 1981 21...	1230	11	525	7.3	25.0	230	.0	66	15	16	.5	107
390947080154239 - D12.0GNATTY CR @ HWY 20/20 BR @ ROMINES MILLS WV (LAT 39 09 47 LONG 080 15 42)												
JUL , 1981 22...	1530	17	1250	7.8	23.0	520	.0	140	42	78	1.5	160
391023080140539 - D13.0ELK CR @ HWY 57/2 BR NR ROMINES MILLS WV (LAT 39 10 23 LONG 080 14 05)												
JUL , 1981 22...	1630	14	1870	7.9	24.5	950	.0	250	78	89	1.3	150
391353080172039 - D14.0BRUSHY FK @ HWY 42 BR NR STONEWOOD WV (LAT 39 13 53 LONG 080 17 20)												
JUL , 1981 20...	0915	5.2	1650	7.1	25.0	870	.0	230	72	58	.9	83

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MONONGAHELA RIVER BASIN--Continued

392617079505539 - C27.0THREE FK CR @ HWY 33 BR NR GLADESVILLE WV (LAT 39 26 17 LONG 079 50 55)

JUL , 1981 23...	120	7.7	231	.31	18.1	1100	.330	770	1200	0	1200
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392041079563739 - C28.0THREE FK CR @ HWY 50 BR @ THORNTON WV (LAT 39 20 41 LONG 079 56 37)

JUL , 1981 23...	100	980	186	.25	23.6	430	.310	120	980	0	980
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03057000 C29.0 TYGART VALLEY RIVER AT COLFAX, W. VA. (LAT 39 26 15 LONG 080 07 55)

JUL , 1981 22...	55	4.0	123	.17	205	290	.270	20	200	10	190
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390210080265639 - D06.0STONECOAL CR @ HWY 119 BR @ WESTON WV (LAT 39 02 10 LONG 080 26 56)

JUL , 1981 22...	100	550	236	.32	8.2	3000	2800	170	550	20	530
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390253080283839 - D07.0POLK CR @ HWY 33 BR @ WESTON WV (LAT 39 02 53 LONG 080 28 38)

JUL , 1981 22...	110	270	274	.37	3.1	2600	2500	110	270	40	230
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390627080294039 - D08.0FREEMANS CR @ BR @ VALLEY CHAPEL WV (LAT 39 06 27 LONG 080 29 40)

JUL , 1981 21...	190	--	411	.56	7.4	600	570	30	150	10	140
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390520080232239 - D10.0HACKERS CR @ HWY 14 BR NR JANE LEW WV (LAT 39 05 20 LONG 080 23 22)

JUL , 1981 21...	270	--	628	.85	28.8	1200	1200	20	220	40	180
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391000080220739 - D11.0LOST CR @ HWY 27/2 BR @ LOST CREEK WV (LAT 39 10 00 LONG 080 22 07)

JUL , 1981 21...	120	620	343	.47	10.2	2000	1900	90	620	30	590
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390947080154239 - D12.0GNATTY CR @ HWY 20/20 BR @ ROMINES MILLS WV (LAT 39 09 47 LONG 080 15 42)

JUL , 1981 22...	520	9.1	1030	1.4	47.3	810	800	10	250	80	170
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391023080140539 - D13.0ELK CR @ HWY 57/2 BR NR ROMINES MILLS WV (LAT 39 10 23 LONG 080 14 05)

JUL , 1981 22...	920	13	1680	2.2	63.5	330	.320	10	490	0	510
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391353030172039 - D14.0BRUSHY FK @ HWY 42 BR NR STONEWOOD WV (LAT 39 13 53 LONG 080 17 20)

JUL , 1981 20...	940	4.7	1480	2.0	20.8	240	.230	10	80	10	70
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
MONONGAHELA RIVER BASIN--Continued												
391605080094739 - D15.0SIMPSON CR @ HWY 13/13 BR @ ROSEMONT WV (LAT 39 16 05 LONG 080 09 47)												
JUL , 1981 20...	1100	23	1500	6.9	22.5	430	.0	82	55	85	1.8	22
391842080170139 - D16.0SIMPSON CR @ HWY 24/1 BR NR BRIDGEPORT WV (LAT 39 18 42 LONG 080 17 01)												
JUL , 1981 20...	1630	30	1450	7.3	27.0	630	.0	170	51	79	1.4	36
391632080292039 - D17.0TENMILE CR @ HWY 31 BR @ MAKEN WV (LAT 39 16 32 LONG 080 29 20)												
JUL , 1981 20...	1800	.48	400	7.5	27.0	180	.0	52	11	9.7	.3	106
391817080291539 - D18.0SALEM CR @ HWY 5/9 BR NR MAKEN WV (LAT 39 18 17 LONG 080 29 15)												
JUL , 1981 20...	1830	1.9	405	7.7	26.5	110	--	33	6.2	37	1.6	110
392203080243739 - D19.0L TENMILE CR @ HWY 20 BR @ ROSEBUD WV (LAT 39 22 03 LONG 080 24 37)												
JUL , 1981 22...	0930	24	510	7.4	21.0	150	.0	45	9.7	38	1.3	48
03061000 D20.0 WEST FORK RIVER AT ENTERPRISE, W. VA. (LAT 39 25 20 LONG 080 16 40)												
JUL , 1981 22...	0715	324	1500	7.3	24.0	650	.0	180	49	93	1.6	51
392457080192939 - D21.0BINGAMON CR @ HWY 8 BR @ PINE BLUFF WV (LAT 39 24 57 LONG 080 19 29)												
JUL , 1981 22...	0830	20	2700	7.7	24.5	750	.0	240	37	340	5.4	94
392149080123139 - D23.0THOMAS FK @ HWY 73/73 BR @ SANTIAGO WV (LAT 39 21 49 LONG 080 12 31)												
JUL , 1981 20...	1515	.30	250	7.8	27.0	95	.0	29	5.4	7.4	.3	77
392335080114839 - D24.0HUSTEAD FK @ HWY 3/16 BR @ BOOTHSVILLE WV (LAT 39 23 35 LONG 080 11 48)												
JUL , 1981 20...	1330	1.1	290	7.5	27.0	110	.0	34	7.0	6.3	.3	76
393114080232039 - E01.0BUFFALO CR @ HWY 1/10 BR @ DEEP VALLEY WV (LAT 39 31 14 LONG 080 23 20)												
JUL , 1981 22...	1210	20	1950	8.0	21.5	390	.0	120	21	340	7.5	100
393320080212239 - E02.0PYLES FK @ HWY 250/5 BR NR METZ WV (LAT 39 33 20 LONG 080 21 22)												
JUL , 1981 22...	1325	25	110	7.4	23.0	51	.0	15	3.3	7.2	.4	34

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MONONGAHELA RIVER BASIN--Continued

391605080094739 - D15.0SIMPSON CR @ HWY 13/13 BR @ ROSEMONT WV (LAT 39 16 05 LONG 080 09 47)

JUL , 1981 20...	880	3.4	1340	1.8	83.2	10000	9600	380	2900	0	2900
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391842080170139 - D16.0SIMPSON CR @ HWY 24/1 BR NR BRIDGEPORT WV (LAT 39 18 42 LONG 080 17 01)

JUL , 1981 20...	760	1400	1250	1.7	101	2000	2000	30	1400	100	1300
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391632080292039 - D17.0TENMILE CR @ HWY 31 BR @ MAKEN WV (LAT 39 16 32 LONG 080 29 20)

JUL , 1981 20...	58	--	250	.34	.32	460	440	20	160	30	130
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391817080291539 - D18.0SALEM CR @ HWY 5/9 BR NR MAKEN WV (LAT 39 18 17 LONG 080 29 15)

JUL , 1981 20...	39	--	230	.31	1.1	320	290	30	40	10	30
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392203080243739 - D19.0L TENMILE CR @ HWY 20 BR @ ROSEBUD WV (LAT 39 22 03 LONG 080 24 37)

JUL , 1981 22...	170	5.3	340	.46	22.0	12000	12000	150	460	100	360
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03061000 D20.0 WEST FORK RIVER AT ENTERPRISE, W. VA. (LAT 39 25 20 LONG 080 16 40)

JUL , 1981 22...	790	15	1300	1.7	1140	1600	1500	120	1300	0	1300
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392457080192939 - D21.0BINGAMON CR @ HWY 8 BR @ PINE BLUFF WV (LAT 39 24 57 LONG 080 19 29)

JUL , 1981 22...	1300	--	2310	3.1	125	810	790	20	390	30	360
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392149080123139 - D23.0THOMAS FK @ HWY 73/73 BR @ SANTIAGO WV (LAT 39 21 49 LONG 080 12 31)

JUL , 1981 20...	30	--	137	.19	.11	320	280	40	40	10	30
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392335080114839 - D24.0HUSTEAD FK @ HWY 3/16 BR @ BOOTHSVILLE WV (LAT 39 23 35 LONG 080 11 48)

JUL , 1981 20...	55	--	169	.23	.50	410	380	30	30	0	30
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393114080232039 - E01.0BUFFALO CR @ HWY 1/10 BR @ DEEP VALLEY WV (LAT 39 31 14 LONG 080 23 20)

JUL , 1981 22...	870	91	1640	2.2	88.6	560	550	10	70	30	40
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393320080212239 - E02.0PYLES FK @ HWY 250/5 BR NR METZ WV (LAT 39 33 20 LONG 080 21 22)

JUL , 1981 22...	21	4.8	96	.13	6.4	1200	1100	60	70	20	50
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
MONONGAHELA RIVER BASIN--Continued												
03061500 E03.0 BUFFALO CREEK AT BARRACKVILLE, W. VA. (LAT 39 30 15 LONG 080 10 20)												
JUL , 1981 23...	0800	62	7000	8.0	20.0	1300	--	350	69	1500	18	110
393308080100339 - E04.0PAW PAW CR @ HWY 17 BR @ GRANT TOWN WV (LAT 39 33 08 LONG 080 10 03)												
JUL , 1981 22...	1515	23	725	7.8	23.0	230	.0	68	14	71	2.0	100
03062215 E06.5 INDIAN CREEK AT CROWN, WV (LAT 39 34 36 LONG 080 05 50)												
JUL , 1981 22...	1700	6.8	480	8.4	23.0	170	.0	50	12	48	1.6	100
393408080045039 - E07.0INDIAN CR @ HWY 45/2 BR @ OSGOOD WV (LAT 39 34 08 LONG 080 04 50)												
JUL , 1981 22...	1600	13	650	8.3	23.0	240	.0	70	17	38	1.1	110
393059079483739 - E09.0DECKERS CR @ HWY 27 BR @ REEDSVILLE WV (LAT 39 30 59 LONG 079 48 37)												
JUL , 1981 23...	1355	12	245	6.3	25.0	86	.2	25	5.8	6.4	.3	9
383702079521339 - F01.0SHAVERS FK @ HWY 250 BR @ CHEAT BRIDGE WV (LAT 38 37 02 LONG 079 52 13)												
JUL , 1981 22...	0745	47	43	5.5	17.0	17	.3	4.7	1.2	.7	.1	7
03068000 F02.0 SHAVERS FORK AT BEMIS, W. VA. (LAT 38 48 27 LONG 079 44 16)												
JUL , 1981 22...	1500	84	36	6.0	21.0	13	.0	3.7	1.0	.7	.1	7
03068800 F02.5 SHAVERS FORK BELOW BOWDEN, W. VA. (LAT 38 54 47 LONG 079 46 14)												
JUL , 1981 22...	1320	105	49	6.0	20.5	17	.0	5.2	1.0	.9	.1	10
390856079261839 - F08.0BEAVER CR @ HWY 93 BR NR DAVIS WV (LAT 39 08 56 LONG 079 26 18)												
JUL , 1981 21...	1300	15	1060	3.0	22.0	410	6.0	91	44	1.8	.0	0
390820079304039 - F09.0N FK BLACKWATER R @ HWY 27 BR @ COKETON WV (LAT 39 08 20 LONG 079 30 40)												
JUL , 1981 21...	1410	8.4	255	6.8	19.0	96	.0	26	7.6	4.6	.2	48
03069880 F13.0 BUFFALO CREEK NEAR ROWLESBURG, W. VA. (LAT 39 17 19 LONG 079 42 16)												
JUL , 1981 23...	0700	1.4	92	6.5	17.0	39	.0	12	2.1	2.0	.1	28

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MONONGAHELA RIVER BASIN--Continued

03061500 E03.0 BUFFALO CREEK AT BARRACKVILLE, W. VA. (LAT 39 30 15 LONG 080 10 20)

JUL , 1981 23...	3900	330	6820	9.2	1140	1400	1300	120	1600	200	1400
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393308080100339 - E04.0PAW PAW CR @ HWY 17 BR @ GRANT TOWN WV (LAT 39 33 08 LONG 080 10 03)

JUL , 1981 22...	170	32	507	.69	31.5	1400	1400	10	320	100	220
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03062215 E06.5 INDIAN CREEK AT CROWN, WV (LAT 39 34 36 LONG 080 05 50)

JUL , 1981 22...	150	--	368	.50	6.7	760	710	50	60	0	70
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393408080045039 - E07.0INDIAN CR @ HWY 45/2 BR @ OSGOOD WV (LAT 39 34 08 LONG 080 04 50)

JUL , 1981 22...	190	--	435	.59	15.3	810	780	30	180	0	190
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393059079483739 - E09.0DECKERS CR @ HWY 27 BR @ REEDSVILLE WV (LAT 39 30 59 LONG 079 48 37)

JUL , 1981 23...	74	11	171	.23	5.5	1200	740	460	520	0	520
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383702079521339 - F01.0SHAVERS FK @ HWY 250 BR @ CHEAT BRIDGE WV (LAT 38 37 02 LONG 079 52 13)

JUL , 1981 22...	7.9	.6	36	.05	4.5	640	530	110	40	10	30
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03068000 F02.0 SHAVERS FORK AT BEMIS, W. VA. (LAT 38 48 27 LONG 079 44 16)

JUL , 1981 22...	6.9	.6	33	.04	7.4	310	240	70	10	3	7
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03068800 F02.5 SHAVERS FORK BELOW BOWDEN, W. VA. (LAT 38 54 47 LONG 079 46 14)

JUL , 1981 22...	7.0	.8	56	.08	15.9	180	150	30	10	0	10
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390856079261839 - F08.0BEAVER CR @ HWY 93 BR NR DAVIS WV (LAT 39 08 56 LONG 079 26 18)

JUL , 1981 21...	540	1.6	856	1.1	34.7	7700	7700	10	21000	1000	20000
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390820079304039 - F09.0N FK BLACKWATER R @ HWY 27 BR @ COKETON WV (LAT 39 08 20 LONG 079 30 40)

JUL , 1981 21...	79	5.9	150	.20	3.4	1100	1100	10	1300	0	1300
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03069880 F13.0 BUFFALO CREEK NEAR ROWLESBURG, W. VA. (LAT 39 17 19 LONG 079 42 16)

JUL , 1981 23...	9.0	2.0	59	.08	.22	340	330	10	<10	--	4
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
MONONGAHELA RIVER BASIN--Continued												
03070000 F13.5 CHEAT RIVER AT ROWLESBURG, W. VA. (LAT 39 20 50 LONG 079 40 00)												
JUL , 1981 23...	0840	373	94	6.6	21.0	39	.0	12	2.3	1.8	.1	12
392105079394839 - F14.0SALTICK CR @ RR BR @ ROWLESBURG WV (LAT 39 21 05 LONG 079 39 48)												
JUL , 1981 23...	0750	21	110	6.5	15.5	38	--	11	2.6	2.3	.2	21
393518079355639 - F15.0MUDDY CR @ HWY 3 BR NR CUZZART WV (LAT 39 35 18 LONG 079 35 56)												
JUL , 1981 20...	1130	12	170	6.3	19.0	58	.4	15	5.1	.9	.1	0
393052079384239 - F16.0MUDDY CR @ HWY 26/23 BR @ RUTHBELLE WV (LAT 39 30 52 LONG 079 38 42)												
JUL , 1981 23...	1315	32	800	3.3	18.0	210	4.0	51	21	5.3	.2	0
394149079370839 - F17.0BIG SANDY CR @ HWY 4 BR @ CLIFTON MILLS WV (LAT 39 41 49 LONG 079 37 08)												
JUL , 1981 20...	0745	16	88	6.7	22.0	28	--	8.0	2.0	2.9	.2	17
394036079373539 - F18.0GLADE RUN @ HWY 8 BR @ BRANDONVILLE WV (LAT 39 40 36 LONG 079 37 35)												
JUL , 1981 20...	0845	2.9	620	6.8	18.5	290	.0	68	29	2.2	.1	35
393838079361239 - F19.0L SANDY CR @ HWY 3/4 BR NR BRANDONVILLE WV (LAT 39 38 38 LONG 079 36 12)												
JUL , 1981 20...	0930	10	270	5.5	20.0	100	.3	27	7.9	3.8	.2	3
393736079355839 - F20.0BEAVER CR @ HWY 3/4 BR NR BRANDONVILLE WV (LAT 39 37 36 LONG 079 35 58)												
JUL , 1981 20...	1030	13	270	5.8	18.0	99	.4	24	9.6	1.3	.1	4
394208080180239 - G01.0WEST VIRGINIA FK @ HWY 7 BR @ WANNA WV (LAT 39 42 08 LONG 080 18 02)												
JUL , 1981 23...	0950	7.1	175	7.7	9.5	72	.0	22	4.2	18	.9	45
394212080152739 - G02.0MIRACLE RUN @ HWY 7 BR @ BULA WV (LAT 39 42 12 LONG 080 15 27)												
JUL , 1981 23...	1030	5.3	370	7.6	21.0	100	.0	31	6.4	26	1.1	60
394227080065739 - G03.0DOLLS RUN @ HWY 7 BR NR CORE WV (LAT 39 42 27 LONG 080 06 57)												
JUL , 1981 23...	1115	6.6	5500	7.9	21.0	1100	.0	320	63	680	9.1	110

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MONONGAHELA RIVER BASIN--Continued

03070000 F13.5 CHEAT RIVER AT ROWLESBURG, W. VA. (LAT 39 20 50 LONG 079 40 00)

JUL , 1981 23...	24	1.7	58	.08	58.4	150	140	10	10	0	10
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392105079394839 - F14.0SALTICK CR @ RR BR @ ROWLESBURG WV (LAT 39 21 05 LONG 079 39 48)

JUL , 1981 23...	14	2.4	64	.09	3.6	240	230	10	<10	--	2
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393518079355639 - F15.0MUDDY CR @ HWY 3 BR NR CUZZART WV (LAT 39 35 18 LONG 079 35 56)

JUL , 1981 20...	55	1.6	102	.14	3.3	760	710	50	680	30	650
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393052079384239 - F16.0MUDDY CR @ HWY 26/23 BR @ RUTHBELLE WV (LAT 39 30 52 LONG 079 38 42)

JUL , 1981 23...	310	2.2	500	.68	43.2	13000	8200	4800	3400	200	3200
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394149079370839 - F17.0BIG SANDY CR @ HWY 4 BR @ CLIFTON MILLS WV (LAT 39 41 49 LONG 079 37 08)

JUL , 1981 20...	18	3.8	57	.08	2.4	520	360	160	80	10	70
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394036079373539 - F18.0GLADE RUN @ HWY 8 BR @ BRANDONVILLE WV (LAT 39 40 36 LONG 079 37 35)

JUL , 1981 20...	240	3.1	421	.57	3.3	940	920	20	540	190	350
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393838079361239 - F19.0L SANDY CR @ HWY 3/4 BR NR BRANDONVILLE WV (LAT 39 38 38 LONG 079 36 12)

JUL , 1981 20...	97	3.7	183	.25	4.9	440	430	10	1200	0	1200
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393736079355839 - F20.0BEAVER CR @ HWY 3/4 BR NR BRANDONVILLE WV (LAT 39 37 36 LONG 079 35 58)

JUL , 1981 20...	97	2.4	187	.25	6.5	1100	1000	90	1300	0	1300
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394208080180239 - G01.0WEST VIRGINIA FK @ HWY 7 BR @ WANNA WV (LAT 39 42 08 LONG 080 18 02)

JUL , 1981 23...	31	4.5	106	.14	2.0	1100	1000	70	70	20	50
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394212080152739 - G02.0MIRACLE RUN @ HWY 7 BR @ BULA WV (LAT 39 42 12 LONG 080 15 27)

JUL , 1981 23...	72	21	228	.31	3.2	930	890	40	60	0	60
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394227080065739 - G03.0DOLLS RUN @ HWY 7 BR NR CORE WV (LAT 39 42 27 LONG 080 06 57)

JUL , 1981 23...	2420	94	3900	5.3	69.5	540	460	80	200	10	190
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
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MONONGAHELA RIVER BASIN--Continued

392258079293139 - H03.0LAUREL RN @ HWY 94/2 BR @ TURNER DOUGLAS WV (LAT 39 22 58 LONG 079 29 31)

JUL , 1981												
23...	1145	4.2	200	3.7	17.5	39	.5	11	2.9	.7	.0	0

392512079294139 - H04.0SNOWY CR @ HWY 98 BR @ CORINTH WV (LAT 39 25 12 LONG 079 29 41)

JUL , 1981												
23...	1030	20	134	6.6	15.0	51	.0	16	2.6	2.9	.2	21

OHIO RIVER BASIN

21

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MONONGAHELA RIVER BASIN--Continued

392258079293139 - H03.0LAUREL RN @ HWY 94/2 BR @ TURNER DOUGLAS WV (LAT 39 22 58 LONG 079 29 31)

JUL , 1981 23...	61	.7	112	.15	1.2	1900	800	1100	1400	0	1400
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392512079294139 - H04.0SNOWY CR @ HWY 98 BR @ CORINTH WV (LAT 39 25 12 LONG 079 29 41)

JUL , 1981 23...	28	3.6	83	.11	4.4	2000	1900	100	310	20	290
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
385646079512439 - C07.0LEADING CR @ HWY 219 BR @ ELKINS WV (LAT 38 56 46 LONG 079 51 24)				
JUL , 1981				
22...	1650	11	15	.45
385605079570039 - C08.0ROARING CR @ HWY 21/1 BR @ NORTON WV (LAT 38 56 05 LONG 079 57 00)				
JUL , 1981				
22...	1120	18	0	.00
384905080024139 - C09.0MIDDLE FK R @ HWY 35 BR @ CASSITY WV (LAT 38 49 05 LONG 080 02 41)				
JUL , 1981				
22...	0915	40	30	3.2
384933080020639 - C10.0CASSITY FK @ HWY 35 BR @ CASSITY WV (LAT 38 49 33 LONG 080 02 06)				
JUL , 1981				
22...	1010	6.0	7	.11
384440080140939 - C12.0R F BUCKHANNON R @ HWY 48 BR @ NEWLONTON WV (LAT 38 44 40 LONG 080 14 09)				
JUL , 1981				
21...	0845	11	3	.09
385307080175339 - C16.0FRENCH CR @ HWY 20 BR @ FRENCH CREEK WV (LAT 38 53 07 LONG 080 17 53)				
JUL , 1981				
22...	1120	4.0	15	.16
385946080142139 - C17.0FINK RUN @ HWY 119 BR @ BUCKHANNON WV (LAT 38 59 46 LONG 080 14 21)				
JUL , 1981				
22...	0940	5.7	38	.58
03052500 C18.0 SAND RUN NEAR BUCKHANNON, W. VA. (LAT 38 57 50 LONG 080 09 10)				
JUL , 1981				
22...	1230	11	75	2.2
390334080091839 - C20.0PECKS RUN @ HWY 1/13 BR @ TETER WV (LAT 39 03 34 LONG 080 09 18)				
JUL , 1981				
22...	1410	3.0	8	.06
391722079543439 - C25.0SANDY CR @ HWY 1 BR @ CLAUDE WV (LAT 39 17 22 LONG 079 54 34)				
JUL , 1981				
23...	0910	13	2	.07
391958079520739 - C26.0L SANDY CR @ HWY 92/14 BR @ EVANSVILLE WV (LAT 39 19 58 LONG 079 52 07)				
JUL , 1981				
23...	1150	5.9	4	.06

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
392617079505539 - C27.0THREE FK CR @ HWY 33 BR NR GLADESVILLE WV (LAT 39 26 17 LONG 079 50 55)				
JUL , 1981				
23...	1300	29	4	.31
392041079563739 - C28.0THREE FK CR @ HWY 50 BR @ THORNTON WV (LAT 39 20 41 LONG 079 56 37)				
JUL , 1981				
23...	1045	47	2	.25
03057000 C29.0 TYGART VALLEY RIVER AT COLFAX, W. VA. (LAT 39 26 15 LONG 080 07 55)				
JUL , 1981				
22...	1800	616	5	8.3
390210080265639 - D06.0STONECOAL CR @ HWY 119 BR @ WESTON WV (LAT 39 02 10 LONG 080 26 56)				
JUL , 1981				
22...	0830	13	61	2.1
390253080283839 - D07.0POLK CR @ HWY 33 BR @ WESTON WV (LAT 39 02 53 LONG 080 28 38)				
JUL , 1981				
22...	0730	4.3	61	.71
390627080294039 - D08.0FREEMANS CR @ BR @ VALLEY CHAPEL WV (LAT 39 06 27 LONG 080 29 40)				
JUL , 1981				
21...	1515	6.7	12	.22
390520080232239 - D10.0HACKERS CR @ HWY 14 BR NR JANE LEW WV (LAT 39 05 20 LONG 080 23 22)				
JUL , 1981				
21...	1115	17	47	2.2
391000080220739 - D11.0LOST CR @ HWY 27/2 BR @ LOST CREEK WV (LAT 39 10 00 LONG 080 22 07)				
JUL , 1981				
21...	1230	11	77	2.3
390947080154239 - D12.0GNATTY CR @ HWY 20/20 BR @ ROMINES MILLS WV (LAT 39 09 47 LONG 080 15 42)				
JUL , 1981				
22...	1530	17	33	1.5
391023080140539 - D13.0ELK CR @ HWY 57/2 BR NR ROMINES MILLS WV (LAT 39 10 23 LONG 080 14 05)				
JUL , 1981				
22...	1630	14	11	.42
391353080172039 - D14.0BRUSHY FK @ HWY 42 BR NR STONEWOOD WV (LAT 39 13 53 LONG 080 17 20)				
JUL , 1981				
20...	0915	5.2	6	.08

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
391605080094739 - D15.0SIMPSON CR @ HWY 13/13 BR @ ROSEMONT WV (LAT 39 16 05 LONG 080 09 47)				
JUL , 1981 20...	1100	23	50	3.1
391842080170139 - D16.0SIMPSON CR @ HWY 24/1 BR NR BRIDGEPORT WV (LAT 39 18 42 LONG 080 17 01)				
JUL , 1981 20...	1630	30	29	2.3
391632080292039 - D17.0TENMILE CR @ HWY 31 BR @ MAKEN WV (LAT 39 16 32 LONG 080 29 20)				
JUL , 1981 20...	1800	.48	11	.01
391817080291539 - D18.0SALEM CR @ HWY 5/9 BR NR MAKEN WV (LAT 39 18 17 LONG 080 29 15)				
JUL , 1981 20...	1830	1.9	2	.01
392203080243739 - D19.0L TENMILE CR @ HWY 20 BR @ ROSEBUD WV (LAT 39 22 03 LONG 080 24 37)				
JUL , 1981 22...	0930	24	185	12
03061000 D20.0 WEST FORK RIVER AT ENTERPRISE, W. VA. (LAT 39 25 20 LONG 080 16 40)				
JUL , 1981 22...	0715	324	14	12
392457080192939 - D21.0BINGAMON CR @ HWY 8 BR @ PINE BLUFF WV (LAT 39 24 57 LONG 080 19 29)				
JUL , 1981 22...	0830	20	4	.22
392149080123139 - D23.0THOMAS FK @ HWY 73/73 BR @ SANTIAGO WV (LAT 39 21 49 LONG 080 12 31)				
JUL , 1981 20...	1515	.30	19	.02
392335080114839 - D24.0HUSTEAD FK @ HWY 3/16 BR @ BOOTHSVILLE WV (LAT 39 23 35 LONG 080 11 48)				
JUL , 1981 20...	1330	1.1	4	.01
393114080232039 - E01.0BUFFALO CR @ HWY 1/10 BR @ DEEP VALLEY WV (LAT 39 31 14 LONG 080 23 20)				
JUL , 1981 22...	1210	20	9	.49
393320080212239 - E02.0PYLES FK @ HWY 250/5 BR NR METZ WV (LAT 39 33 20 LONG 080 21 22)				
JUL , 1981 22...	1325	25	27	1.8

OHIO RIVER BASIN

25

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
03061500 E03.0 BUFFALO CREEK AT BARRACKVILLE, W. VA. (LAT 39 30 15 LONG 080 10 20)				
JUL , 1981				
23...	0800	62	91	15
393308080100339 - E04.0PAW PAW CR @ HWY 17 BR @ GRANT TOWN WV (LAT 39 33 08 LONG 080 10 03)				
JUL , 1981				
22...	1515	23	23	1.4
03062215 E06.5 INDIAN CREEK AT CROWN, WV (LAT 39 34 36 LONG 080 05 50)				
JUL , 1981				
22...	1700	6.8	5	.09
393408080045039 - E07.0INDIAN CR @ HWY 45/2 BR @ OSGOOD WV (LAT 39 34 08 LONG 080 04 50)				
JUL , 1981				
22...	1600	13	7	.25
393059079483739 - E09.0DECKERS CR @ HWY 27 BR @ REEDSVILLE WV (LAT 39 30 59 LONG 079 48 37)				
JUL , 1981				
23...	1355	12	16	.52
383702079521339 - F01.0SHAVERS FK @ HWY 250 BR @ CHEAT BRIDGE WV (LAT 38 37 02 LONG 079 52 13)				
JUL , 1981				
22...	0745	47	4	.51
03068000 F02.0 SHAVERS FORK AT BEMIS, W. VA. (LAT 38 48 27 LONG 079 44 16)				
JUL , 1981				
22...	1500	84	7	1.6
03068800 F02.5 SHAVERS FORK BELOW BOWDEN, W. VA. (LAT 38 54 47 LONG 079 46 14)				
JUL , 1981				
22...	1320	105	21	6.0
390856079261839 - F08.0BEAVER CR @ HWY 93 BR NR DAVIS WV (LAT 39 08 56 LONG 079 26 18)				
JUL , 1981				
21...	1300	15	14	.57
390820079304039 - F09.0N FK BLACKWATER R @ HWY 27 BR @ COKETON WV (LAT 39 08 20 LONG 079 30 40)				
JUL , 1981				
21...	1410	8.4	17	.39
03069880 F13.0 BUFFALO CREEK NEAR ROWLESBURG, W. VA. (LAT 39 17 19 LONG 079 42 16)				
JUL , 1981				
23...	0700	1.4	9	.03

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
03070000 F13.5 CHEAT RIVER AT ROWLESBURG, W. VA. (LAT 39 20 50 LONG 079 40 00)				
JUL , 1981 23...	0840	373	7	7.0
392105079394839 - F14.0SALTICK CR @ RR BR @ ROWLESBURG WV (LAT 39 21 05 LONG 079 39 48)				
JUL , 1981 23...	0750	21	5	.28
393518079355639 - F15.0MUDDY CR @ HWY 3 BR NR CUZZART WV (LAT 39 35 18 LONG 079 35 56)				
JUL , 1981 20...	1130	12	94	3.0
393052079384239 - F16.0MUDDY CR @ HWY 26/23 BR @ RUTHBELLE WV (LAT 39 30 52 LONG 079 38 42)				
JUL , 1981 23...	1315	32	34	2.9
394149079370839 - F17.0BIG SANDY CR @ HWY 4 BR @ CLIFTON MILLS WV (LAT 39 41 49 LONG 079 37 08)				
JUL , 1981 20...	0745	16	9	.39
394036079373539 - F18.0GLADE RUN @ HWY 8 BR @ BRANDONVILLE WV (LAT 39 40 36 LONG 079 37 35)				
JUL , 1981 20...	0845	2.9	12	.09
393838079361239 - F19.0L SANDY CR @ HWY 3/4 BR NR BRANDONVILLE WV (LAT 39 38 38 LONG 079 36 12)				
JUL , 1981 20...	0930	10	37	1.0
393736079355839 - F20.0BEAVER CR @ HWY 3/4 BR NR BRANDONVILLE WV (LAT 39 37 36 LONG 079 35 58)				
JUL , 1981 20...	1030	13	18	.63
394208080180239 - G01.0WEST VIRGINIA FK @ HWY 7 BR @ WANNA WV (LAT 39 42 08 LONG 080 18 02)				
JUL , 1981 23...	0950	7.1	20	.38
394212080152739 - G02.0MIRACLE RUN @ HWY 7 BR @ BULA WV (LAT 39 42 12 LONG 080 15 27)				
JUL , 1981 23...	1030	5.3	35	.50
394227080065739 - G03.0DOLLS RUN @ HWY 7 BR NR CORE WV (LAT 39 42 27 LONG 080 06 57)				
JUL , 1981 23...	1115	6.6	5	.09

OHIO RIVER BASIN

27

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
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392258079293139 - H03.0LAUREL RN @ HWY 94/2 BR @ TURNER DOUGLAS WV (LAT 39 22 58 LONG 079 29 31)

JUL , 1981				
23...	1145	4.2	7	.08

392512079294139 - H04.0SNOWY CR @ HWY 98 BR @ CORINTH WV (LAT 39 25 12 LONG 079 29 41)

JUL , 1981				
23...	1030	20	17	.92

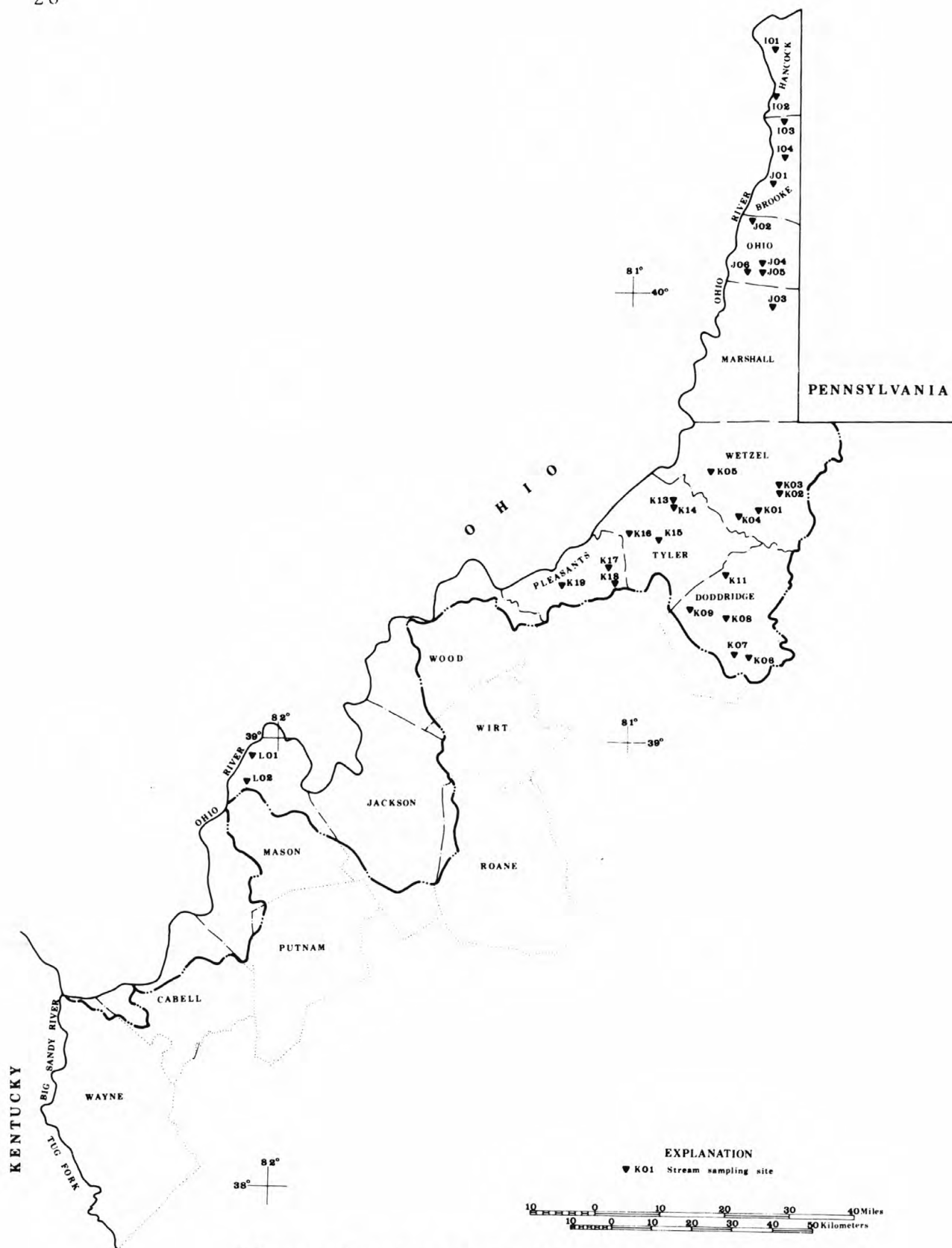


Figure 4.--Location of sampling sites in the small Ohio River tributary basins.

Table 3.--Name, location, and drainage area for sites in the small Ohio River tributary basins.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.	Local No.	Name	County	Drain. Area (Mi ²)	Page No.
I01.0	Tomlinson Run	Hancock	23.4	30,38	K06.0	Meathouse Fork	Doddridge	29.8	32,39
I02.0	Kings Creek	"	49.0	"	K07.0	Toms Fork	"	12.8	"
I03.0	Harmon Creek	Brook	32.3	"	K08.0	Buckeye Creek	"	38.7	"
I04.0	Cross Creek	"	70.6	"	K09.0	Arnold Creek	"	20.6	"
J01.0	Buffalo Creek	"	53.3	"	K11.0	Flint Run	"	19.5	34,40
J02.0	Short Creek	Ohio	16.5	"	K13.0	Pt. Pleasant Creek	Tyler	22.5	"
J03.0	Wheeling Creek	Marshall	181.	"	K14.0	Elk Fork	"	21.1	"
J04.0	Little Wheeling Creek	Ohio	19.8	"	K15.0	Sancho Creek	"	13.1	"
J05.0	Middle Wheeling Creek	"	33.8	"	K16.0	Middle Island Creek	"	458.	"
J06.0	Wheeling Creek	"	282.	"	K17.0	Sugar Creek	Pleasants	17.8	"
K01.0	S Fk Fishing Creek	Wetzel	62.8	32,39	K18.0	McKim Creek	"	16.4	"
K02.0	N Fk Fishing Creek	"	10.1	"	K19.0	L Fk French Creek	"	8.96	"
K03.0	Wiley Fork	"	15.5	"	L01.0	Oldtown Creek	Mason	35.2	"
K04.0	Piney Fork	"	10.3	"	L02.0	Tenmile Creek	"	9.19	36,41
K05.0	Little Fishing Creek	"	34.7	"					

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)	
TOMLINSON RUN BASIN													
403253080354639 - I01.0TOMLINSON RUN @ HWY 3 BR IN STATE PARK (LAT 40 32 53 LONG 080 35 46)													
JUL , 1981	20...	1200	5.7	350	8.2	25.0	130	.0	37	8.7	9.6	.4	80
KINGS CREEK BASIN													
03110830 I02.0 KINGS CREEK AT WEIRTON, W.VA. (LAT 40 26 08 LONG 080 35 34)													
JUL , 1981	20...	1115	15	520	8.3	24.5	220	.0	65	15	14	.4	110
HARMON CREEK BASIN													
402333080340739 - I03.0HARMON CR @ HWY 1 BR @ WEIRTON WV (LAT 40 23 33 LONG 080 34 07)													
JUL , 1981	20...	1015	22	1275	8.1	22.0	630	.0	170	50	21	.4	110
CROSS CREEK BASIN													
401823080335739 - I04.0CROSS CR @ HWY 7/6 BR @ LOUISE WV (LAT 40 18 23 LONG 080 33 57)													
JUL , 1981	20...	1330	64	760	8.3	23.0	360	.0	99	28	20	.5	150
BUFFALO CREEK BASIN													
401436080355039 - J01.0BUFFALO CR @ HWY 27/4 BR @ MCKINLEYVILLE WV (LAT 40 14 36 LONG 080 35 50)													
JUL , 1981	20...	1430	118	540	8.1	25.0	240	--	72	14	12	.3	140
SHORT CREEK BASIN													
400908080385939 - J02.0SHORT CR @ HWY 1 BR NR CLEARVIEW WV (LAT 40 09 08 LONG 080 38 59)													
JUL , 1981	20...	1600	8.2	610	8.2	24.5	250	--	75	15	31	.9	180
WHEELING CREEK BASIN													
395744080352939 - J03.0WHEELING CR @ HWY 7 BR @ VIOLA WV (LAT 39 57 44 LONG 080 35 29)													
JUL , 1981	21...	1110	94	275	8.2	22.5	140	--	45	5.8	4.9	.2	120
400326080371039 - J04.0L WHEELING CR @ U S 40 BR @ TRIADELPHIA WV (LAT 40 03 26 LONG 080 37 10)													
JUL , 1981	21...	0900	11	495	8.0	23.5	240	--	77	11	28	.8	160
400235080373639 - J05.0M WHEELING CR 1/4 M U/S I70 BR TRIADELPHIA (LAT 40 02 35 LONG 080 37 36)													
JUL , 1981	21...	0720	28	430	8.2	23.0	180	--	59	8.1	13	.4	140
03112000 J06.0 WHEELING CREEK AT ELM GROVE, W. VA. (LAT 40 02 40 LONG 080 39 40)													
JUL , 1981	21...	1000	115	420	8.2	24.0	180	.0	59	8.3	17	.6	130

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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TOMLINSON RUN BASIN--Continued

403253080354639 - I01.0TOMLINSON RUN @ HWY 3 BR IN STATE PARK (LAT 40 32 53 LONG 080 35 46)

JUL , 1981 20...	43	12	188	.26	2.8	590	580	10	70	60	10
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KINGS CREEK BASIN--Continued

03110830 I02.0 KINGS CREEK AT WEIRTON, W.VA. (LAT 40 26 08 LONG 080 35 34)

JUL , 1981 20...	110	18	338	.46	13.7	420	390	30	20	10	10
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HARMON CREEK BASIN--Continued

402333080340739 - I03.0HARMON CR @ HWY 1 BR @ WEIRTON WV (LAT 40 23 33 LONG 080 34 07)

JUL , 1981 20...	490	35	945	1.2	56.1	700	690	10	230	80	150
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CROSS CREEK BASIN--Continued

401823080335739 - I04.0CROSS CR @ HWY 7/6 BR @ LOUISE WV (LAT 40 18 23 LONG 080 33 57)

JUL , 1981 20...	260	7.2	544	.74	94.0	1000	990	10	90	60	30
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BUFFALO CREEK BASIN--Continued

401436080355039 - I01.0BUFFALO CR @ HWY 27/4 BR @ MCKINLEYVILLE WV (LAT 40 14 36 LONG 080 35 50)

JUL , 1981 20...	110	9.5	340	.46	108	1900	1900	10	160	120	40
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SHORT CREEK BASIN--Continued

400908080385939 - J02.0SHORT CR @ HWY 1 BR NR CLEARVIEW WV (LAT 40 09 08 LONG 080 38 59)

JUL , 1981 20...	110	15	398	.54	8.8	2300	2300	10	50	20	30
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WHEELING CREEK BASIN--Continued

395744080352939 - J03.0WHEELING CR @ HWY 7 BR @ VIOLA WV (LAT 39 57 44 LONG 080 35 29)

JUL , 1981 21...	32	3.6	165	.22	41.9	1100	1100	10	90	80	10
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400326080371039 - J04.0L WHEELING CR @ U S 40 BR @ TRIADELPHIA WV (LAT 40 03 26 LONG 080 37 10)

JUL , 1981 21...	82	13	334	.45	9.9	1300	1300	10	80	30	50
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400235080373639 - J05.0M WHEELING CR 1/4 M U/S I70 BR TRIADELPHIA (LAT 40 02 35 LONG 080 37 36)

JUL , 1981 21...	45	16	265	.36	20.0	2400	2400	10	180	150	30
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03112000 J06.0 WHEELING CREEK AT ELM GROVE, W. VA. (LAT 40 02 40 LONG 080 39 40)

JUL , 1981 21...	54	16	255	.35	79.2	2200	2200	10	100	80	20
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
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FISHING CREEK BASIN

393156080383339 - K01.0S F FISHING CR @ HWY 82 BR @ JACKSONBURG WV (LAT 39 31 56 LONG 080 38 33)

JUL , 1981												
22...	1045	89	185	7.8	21.5	58	.0	17	3.7	12	.7	26
AUG												
24...	1500	1.4	325	8.2	22.5	89	.0	26	5.7	17	.8	65

393405080345839 - K02.0N FK FISHING CR @ HWY 15/2 BR @ KINGSTON WV (LAT 39 34 05 LONG 080 34 58)

JUL , 1981												
21...	1640	7.4	125	7.9	23.0	45	.0	13	3.1	4.0	.3	33
AUG												
24...	1600	.16	205	7.5	22.0	69	.0	20	4.6	7.2	.4	46

393445080353139 - K03.0WILEY FK @ HWY 15 BR @ KINGSTON WV (LAT 39 34 45 LONG 080 35 31)

JUL , 1981												
21...	1610	4.5	160	7.5	25.0	60	.0	18	3.6	4.7	.3	42

393057080414039 - K04.0PINEY FK @ HWY 56/1 BR @ PINEY WV (LAT 39 30 57 LONG 080 41 40)

JUL , 1981												
21...	1500	3.4	145	7.7	25.0	52	.0	15	3.6	5.3	.3	42

393618080461939 - K05.0LITTLE FISHING CR @ HWY 38 BR @ CHILDS WV (LAT 39 36 18 LONG 080 46 19)

JUL , 1981												
21...	1345	17	200	8.1	25.0	84	.0	26	4.6	7.0	.3	64
AUG												
24...	1710	.48	230	7.7	22.5	88	.0	27	5.0	7.0	.3	68

MIDDLE ISLAND CREEK BASIN

391231080403039 - K06.0MEATHOUSE FK @ HWY 56 BR NR AVON WV (LAT 39 12 31 LONG 080 40 30)

JUL , 1981												
22...	1030	5.5	135	6.7	22.0	62	.1	18	4.2	7.9	.4	43

391220080421239 - K07.0TOMS FK @ BR @ MARKET WV (LAT 39 12 20 LONG 080 42 12)

JUL , 1981												
22...	1135	3.2	200	6.7	22.0	66	.0	19	4.5	15	.8	35
AUG												
24...	1100	.01	230	7.4	22.5	77	.0	22	5.4	13	.7	62

391705080432439 - K08.0BUCKEYE CR @ HWY 50/30 BR @ SMITHBURG WV (LAT 39 17 05 LONG 080 43 24)

JUL , 1981												
22...	0900	5.5	340	7.7	22.0	150	.0	44	8.9	18	.6	110
AUG												
24...	1000	.98	360	7.5	21.0	140	.0	43	8.7	14	.5	120

391745080491839 - K09.0ARNOLD CR @ HWY 11 BR @ CENTRAL STATION WV (LAT 39 17 45 LONG 080 49 18)

JUL , 1981												
22...	1530	3.9	250	6.9	24.0	90	.0	27	5.4	9.4	.4	65

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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FISHING CREEK BASIN--Continued

393156080383339 - K01.05 F FISHING CR @ HWY 82 BR @ JACKSONBURG WV (LAT 39 31 56 LONG 080 35 33)

JUL , 1981											
22...	18	26	126	.17	30.3	1200	1200	50	60	30	30
AUG											
24...	20	30	--	--	--	340	300	42	40	20	20

393405080345839 - K02.0N FK FISHING CR @ HWY 15/2 BR @ KINGSTON WV (LAT 39 34 05 LONG 080 34 58)

JUL , 1981											
21...	18	2.5	78	.11	1.5	14000	14000	80	370	340	30
AUG											
24...	17	16	--	--	--	600	560	41	60	8	52

393445080353139 - K03.0WILEY FK @ HWY 15 BR @ KINGSTON WV (LAT 39 34 45 LONG 080 35 31)

JUL , 1981											
21...	23	2.2	89	.12	1.0	2100	2100	20	60	30	30

393057080414039 - K04.0PINEY FK @ HWY 56/1 BR @ PINEY WV (LAT 39 30 57 LONG 080 41 40)

JUL , 1981											
21...	18	6.5	84	.11	.77	970	950	20	30	20	10

393618080461939 - K05.0LITTLE FISHING CR @ HWY 38 BR @ CHILDS WV (LAT 39 36 18 LONG 080 46 19)

JUL , 1981											
21...	28	7.2	121	.16	5.5	1700	1700	10	70	40	30
AUG											
24...	26	8.9	--	--	--	500	490	11	50	10	37

MIDDLE ISLAND CREEK BASIN--Continued

391231080403039 - K06.0MEATHOUSE FK @ HWY 56 BR NR AVON WV (LAT 39 12 31 LONG 080 40 30)

JUL , 1981											
22...	13	14	105	.14	1.5	1000	950	50	110	80	30

391220080421239 - K07.0TOMS FK @ BR @ MARKET WV (LAT 39 12 20 LONG 080 42 12)

JUL , 1981											
22...	14	36	152	.21	1.3	830	740	90	150	70	80
AUG											
24...	11	25	--	--	--	450	400	52	80	30	53

391705080432439 - K08.0BUCKEYE CR @ HWY 50/30 BR @ SMITHBURG WV (LAT 39 17 05 LONG 080 43 24)

JUL , 1981											
22...	37	31	225	.31	3.3	640	610	30	120	60	60
AUG											
24...	36	15	--	--	--	530	490	36	130	30	97

391745080491839 - K09.0ARNOLD CR @ HWY 11 BR @ CENTRAL STATION WV (LAT 39 17 45 LONG 080 49 18)

JUL , 1981											
22...	22	13	148	.20	1.5	6100	6000	80	170	130	40

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
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MIDDLE ISLAND CREEK BASIN--Continued

392312080435739 - K11.0FLINT RUN @ HWY 3 BR NR CANTON WV (LAT 39 23 12 LONG 080 43 57)

JUL , 1981												
20...	1745	1.1	180	6.9	25.0	66	.0	19	4.4	6.8	.4	56
AUG												
24...	1230	.11	190	7.3	21.0	76	--	22	5.1	6.7	.4	71

393225080531939 - K13.0PT PLEASANT CR @ HWY 11/6 BR @ KIDWELL WV (LAT 39 32 25 LONG 080 53 19)

JUL , 1981												
20...	1410	46	340	7.6	26.0	130	.0	37	8.7	14	.5	103
AUG												
25...	0740	.06	350	7.5	18.5	140	.0	39	9.1	15	.6	110

393210080530639 - K14.0ELK FK @ HWY 11 BR @ KIDWELL WV (LAT 39 32 10 LONG 080 53 06)

JUL , 1981												
20...	1310	1.0	200	7.4	27.0	69	.0	20	4.6	8.7	.5	53
AUG												
25...	0900	.33	225	7.4	19.5	81	--	23	5.7	9.9	.5	58

392634080544739 - K15.0SANCHO CR @ HWY 7 BR NR SANCHO WV (LAT 39 26 34 LONG 080 54 47)

JUL , 1981												
20...	1545	.30	230	7.3	28.0	82	.0	23	5.9	9.9	.5	68

03114500 K16.0 MIDDLE ISLAND CREEK AT LITTLE, W. VA. (LAT 39 28 30 LONG 080 59 50)

JUL , 1981												
21...	0855	95	195	6.7	25.5	70	.0	20	4.8	8.2	.4	48
AUG												
19...	0740	31	265	7.4	19.0	81	.0	23	5.7	12	.6	70

392339081033739 - K17.0SUGAR CR @ HWY 3/8 BR @ SHAWNEE WV (LAT 39 23 39 LONG 081 03 37)

JUL , 1981												
21...	1230	13	160	6.6	22.0	58	.0	16	4.3	6.0	.3	49

392145081032839 - K18.0MCKIM CR @ HWY 30 BR NR PINE GROVE CHURCH (LAT 39 21 45 LONG 081 03 28)

JUL , 1981												
21...	1510	.30	180	7.0	24.5	63	.0	18	4.5	7.0	.4	52

392053081111839 - K19.0L FK FRENCH CR @ HWY 22 BR @ CALCUTTA WV (LAT 39 20 53 LONG 081 11 18)

JUL , 1981												
22...	1720	.80	240	7.3	25.5	81	--	23	5.7	11	.5	54

OLDTOWN CREEK BASIN

385347082044039 - L01.0OLDTOWN CR @ HWY 13 BR @ MCCLINTIC WLS WV (LAT 38 53 47 LONG 082 04 40)

JUL , 1981												
21...	0945	.94	305	6.9	22.5	110	<.1	31	9.1	13	.5	100
AUG												
24...	1130	.11	305	7.6	20.0	120	.0	32	9.1	11	.5	103

OHIO RIVER BASIN

35

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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MIDDLE ISLAND CREEK BASIN--Continued

392312080435739 - K11.0FLINT RUN @ HWY 3 BR NR CANTON WV (LAT 39 23 12 LONG 080 43 57)

JUL , 1981											
20...	16	7.4	101	.14	.30	510	430	80	70	30	40
AUG											
24...	16	8.3	--	--	--	490	420	71	70	20	53

393225080531939 - K13.0PT PLEASANT CR @ HWY 11/6 BR @ KIDWELL WV (LAT 39 32 25 LONG 080 53 19)

JUL , 1981											
20...	37	17	195	.27	24.2	320	310	10	90	40	50
AUG											
25...	38	20	--	--	--	770	750	16	160	60	100

393210080530639 - K14.0ELK FK @ HWY 11 BR @ KIDWELL WV (LAT 39 32 10 LONG 080 53 06)

JUL , 1981											
20...	21	11	112	.15	.30	470	400	70	70	10	60
AUG											
25...	21	16	--	--	--	1500	1500	51	200	50	150

392634080544739 - K15.0SANCHO CR @ HWY 7 BR NR SANCHO WV (LAT 39 26 34 LONG 080 54 47)

JUL , 1981											
20...	23	15	122	.17	.10	260	240	20	30	20	10

03114500 K16.0 MIDDLE ISLAND CREEK AT LITTLE, W. VA. (LAT 39 28 30 LONG 080 59 50)

JUL , 1981											
21...	20	10	112	.15	28.7	750	720	30	160	110	50
AUG											
19...	17	23	164	.22	13.7	630	620	9	100	90	13

392339081033739 - K17.0SUGAR CR @ HWY 3/8 BR @ SHAWNEE WV (LAT 39 23 39 LONG 081 03 37)

JUL , 1981											
21...	15	6.7	100	.14	3.6	10000	9900	80	320	310	10

392145081032839 - K18.0MCKIM CR @ HWY 30 BR NR PINE GROVE CHURCH (LAT 39 21 45 LONG 081 03 28)

JUL , 1981											
21...	15	6.2	96	.13	.08	610	570	40	70	30	40

392053081111839 - K19.0L FK FRENCH CR @ HWY 22 BR @ CALCUTTA WV (LAT 39 20 53 LONG 081 11 18)

JUL , 1981											
22...	23	17	138	.19	.30	1500	1500	40	50	30	20

OLDTOWN CREEK BASIN--Continued

385347082044039 - L01.0OLDTOWN CR @ HWY 13 BR @ MCCLINTIC WLS WV (LAT 38 53 47 LONG 082 04 40)

JUL , 1981											
21...	35	7.7	191	.26	.48	860	780	80	510	90	420
AUG											
24...	31	9.8	--	.20	.04	610	560	54	390	60	330

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CACO3)
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TENMILE CREEK BASIN

385728082042439 - L02.0TENMILE CR @ HWY 8 BR @ LAKIN WV (LAT 38 57 28 LONG 082 04 24)

JUL , 1981												
21...	0845	.55	1280	4.5	23.5	550	.6	140	48	48	.9	0
AUG												
24...	1300	.16	1500	4.3	22.0	710	1.6	180	64	50	.9	0

OHIO RIVER BASIN

37

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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TENMILE CREEK BASIN--Continued

385728082042439 - L02.0TENMILE CR 1/4 HWY 8 BR 1/4 LAKIN WV (LAT 38 57 28 LONG 082 04 24)

JUL , 1981											
21...	630	10	1030	1.4	1.5	680	450	230	4100	0	4100
AUG											
24...	860	12	--	1.6	.52	320	20	300	5800	0	5800

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
403253080354639 - I01.0TOMLINSON RUN @ HWY 3 BR IN STATE PARK (LAT 40 32 53 LONG 080 35 46)				
JUL , 1981 20...	1200	5.7	7	.11
03110830 I02.0 KINGS CREEK AT WEIRTON, W. VA. (LAT 40 26 08 LONG 080 35 34)				
JUL , 1981 20...	1115	15	4	.16
402333080340739 - I03.0HARMON CR @ HWY 1 BR @ WEIRTON WV (LAT 40 23 33 LONG 080 34 07)				
JUL , 1981 20...	1015	22	9	.53
401823080335739 - I04.0CROSS CR @ HWY 7/6 BR @ LOUISE WV (LAT 40 18 23 LONG 080 33 57)				
JUL , 1981 20...	1330	64	12	2.1
401436080355039 - J01.0BUFFALO CR @ HWY 27/4 BR @ MCKINLEYVILLE WV (LAT 40 14 36 LONG 080 35 50)				
JUL , 1981 20...	1430	118	171	54
400908080385939 - J02.0SHORT CR @ HWY 1 BR NR CLEARVIEW WV (LAT 40 09 08 LONG 080 38 59)				
JUL , 1981 20...	1600	8.2	26	.58
395744080352939 - J03.0WHEELING CR @ HWY 7 BR @ VIOLA WV (LAT 39 57 44 LONG 080 35 29)				
JUL , 1981 21...	1110	94	13	3.3
400326080371039 - J04.0L WHEELING CR @ U S 40 BR @ TRIADELPHIA WV (LAT 40 03 26 LONG 080 37 10)				
JUL , 1981 21...	0900	11	28	.83
400235080373639 - J05.0M WHEELING CR 1/4 M U/S I70 BR TRIADELPHIA (LAT 40 02 35 LONG 080 37 36)				
JUL , 1981 21...	0720	28	49	3.7
03112000 J06.0 WHEELING CREEK AT ELM GROVE, W. VA. (LAT 40 02 40 LONG 080 39 40)				
JUL , 1981 21...	1000	115	98	30

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
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393156080383339 - K01.0S F FISHING CR @ HWY 82 BR @ JACKSONBURG WV (LAT 39 31 56 LONG 080 38 33)

JUL , 1981				
22...	1045	89	24	5.8
AUG				
24...	1500	1.4	--	--

393405080345839 - K02.0N FK FISHING CR @ HWY 15/2 BR @ KINGSTON WV (LAT 39 34 05 LONG 080 34 58)

JUL , 1981				
21...	1640	7.4	150	3.0
AUG				
24...	1600	.16	--	--

393445080353139 - K03.0WILEY FK @ HWY 15 BR @ KINGSTON WV (LAT 39 34 45 LONG 080 35 31)

JUL , 1981				
21...	1610	4.5	30	.36

393057080414039 - K04.0PINEY FK @ HWY 56/1 BR @ PINEY WV (LAT 39 30 57 LONG 080 41 40)

JUL , 1981				
21...	1500	3.4	24	.22

393618080461939 - K05.0LITTLE FISHING CR @ HWY 38 BR @ CHILDS WV (LAT 39 36 18 LONG 080 46 19)

JUL , 1981				
21...	1345	17	32	1.5
AUG				
24...	1710	.48	--	--

391231080403039 - K06.0MEATHOUSE FK @ HWY 56 BR NR AVON WV (LAT 39 12 31 LONG 080 40 30)

JUL , 1981				
22...	1030	5.5	23	.34

391220080421239 - K07.0TOMS FK @ BR @ MARKET WV (LAT 39 12 20 LONG 080 42 12)

JUL , 1981				
22...	1135	3.2	63	.54
AUG				
24...	1100	.01	--	--

391705080432439 - K08.0BUCKEYE CR @ HWY 50/30 BR @ SMITHBURG WV (LAT 39 17 05 LONG 080 43 24)

JUL , 1981				
22...	0900	5.5	15	.22
AUG				
24...	1000	.98	--	--

391745080491839 - K09.0ARNOLD CR @ HWY 11 BR @ CENTRAL STATION WV (LAT 39 17 45 LONG 080 49 18)

JUL , 1981				
22...	1530	3.9	154	1.6

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
392312080435739 - K11.0FLINT RUN @ HWY 3 BR NR CANTON WV (LAT 39 23 12 LONG 080 43 57)				
JUL , 1981				
20...	1745	1.1	13	.04
AUG				
24...	1230	.11	--	--
393225080531939 - K13.0PT PLEASANT CR @ HWY 11/6 BR @ KIDWELL WV (LAT 39 32 25 LONG 080 53 19)				
JUL , 1981				
20...	1410	46	5	.62
AUG				
25...	0740	.06	--	--
393210080530639 - K14.0ELK FK @ HWY 11 BR @ KIDWELL WV (LAT 39 32 10 LONG 080 53 06)				
JUL , 1981				
20...	1310	1.0	4	.01
AUG				
25...	0900	.33	--	--
392634080544739 - K15.0SANCHO CR @ HWY 7 BR NR SANCHO WV (LAT 39 26 34 LONG 080 54 47)				
JUL , 1981				
20...	1545	.30	7	.01
03114500 K16.0 MIDDLE ISLAND CREEK AT LITTLE, W. VA. (LAT 39 28 30 LONG 080 59 50)				
JUL , 1981				
21...	0855	95	20	5.1
AUG				
19...	0740	31	--	--
392339081033739 - K17.0SUGAR CR @ HWY 3/8 BR @ SHAWNEE WV (LAT 39 23 39 LONG 081 03 37)				
JUL , 1981				
21...	1230	13	313	11
392145081032839 - K18.0MCKIM CR @ HWY 30 BR NR PINE GROVE CHURCH (LAT 39 21 45 LONG 081 03 28)				
JUL , 1981				
21...	1510	.30	18	.01
392053081111839 - K19.0L FK FRENCH CR @ HWY 22 BR @ CALCUTTA WV (LAT 39 20 53 LONG 081 11 18)				
JUL , 1981				
22...	1720	.80	59	.13
385347082044039 - L01.0OLDTOWN CR @ HWY 13 BR @ MCCLINTIC WLS WV (LAT 38 53 47 LONG 082 04 40)				
JUL , 1981				
21...	0945	.94	20	.05
AUG				
24...	1130	.11	--	--

OHIO RIVER BASIN

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
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385728082042439 - L02.0TENMILE CR @ HWY 8 BR @ LAKIN WV (LAT 38 57 28 LONG 082 04 24)

JUL , 1981				
21...	0845	.55	94	.14
AUG				
24...	1300	.16	--	--



Figure 5.--Location of sampling sites in the Little Kanawha River basin.

Table 4.--Name, location, and drainage area for sites in the Little Kanawha River basin.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.	Local No.	Name	County	Drain. Area (Mi ²)	Page No.
M01.0	Little Kanawha River	Upshur	31.7	44,54	M20.0	Crooked Fork	Gilmer	11.5	48,56
M02.0	R Fk Little Kanawha R	"	21.8	"	M21.0	L Fk Steer Creek	Braxton	15.3	"
M03.0	Little Kanawha River	Braxton	112.	"	M22.0	L Fk Steer Creek	Gilmer	42.6	"
M04.0	Falls Run	"	10.3	"	M23.0	Yellow Creek	Calhoun	7.87	"
M05.0	Saltlick Creek	"	22.3	"	M24.0	Left Fork	"	20.1	"
M06.0	Oil Creek	"	29.3	"	M25.0	W Fk Little Kanawha R	"	30.6	"
M07.0	Sand Fork	Gilmer	40.6	"	M26.0	Beech Fork	"	14.6	"
M08.0	Indian Fork	"	14.5	"	M27.0	Henry Fork	Roane	23.5	"
M09.0	Stewart Creek	"	3.33	"	M28.0	Spring Creek	"	29.4	50,57
M10.0	Leading Creek	Lewis	22.1	46,55	M29.0	Little Kanawha R	Wirt	1,515.	"
M11.0	Fink Creek	"	26.0	"	M30.0	S Fk Hughes River	Doddridge	13.7	"
M12.0	Cove Creek	Gilmer	9.36	"	M31.0	Middle Fork	Ritchie	12.8	"
M13.0	Bear Fork	"	4.88	"	M32.0	Bone Creek	"	17.8	"
M14.0	Horn Creek	"	5.26	"	M33.0	Spruce Creek	"	20.1	"
M15.0	Coxcamp Fork	"	2.83	"	M34.0	Leatherbark Creek	"	17.8	"
M16.0	Perkins Fork	Braxton	12.4	"	M35.0	Indian Creek	"	15.0	"
M17.0	Cedar Creek	"	10.1	"	M36.0	N Fk Hughes River	"	23.0	"
M18.0	Tanner Creek	Gilmer	12.4	"	M37.0	Bonds Creek	"	11.5	52,58
M19.0	R Fk Steer Creek	Braxton	30.7	48,56	M38.0	Hughes River	"	452.	"

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
LITTLE KANAWHA RIVER BASIN												
384759080203839 - M01.0L KANAWHA R @ HWY 20 BR @ ARLINGTON WV (LAT 38 47 59 LONG 080 20 38)												
JUL , 1981												
20...	1425	2.0	61	7.6	24.0	18	.0	5.2	1.2	2.6	.3	11
AUG												
25...	1840	.77	62	7.3	19.5	19	.0	5.6	1.3	1.4	.1	12
384348080231739 - M02.0R FK L KANAWHA R @ HWY 20 BR @ CLEVELAND WV (LAT 38 43 48 LONG 080 23 17)												
JUL , 1981												
20...	1320	1.8	27	5.9	28.0	9	--	2.1	.8	.9	.1	3
AUG												
25...	1940	.59	50	6.4	19.0	9	.0	2.2	.8	.2	.0	4
03151400 M03.0L KANAWHA RIVER NR WILDCAT W. VA. (LAT 38 44 35 LONG 080 31 36)												
JUL , 1981												
21...	0750	12	67	6.8	24.0	20	.0	5.2	1.7	3.6	.4	10
384628080325739 - M04.0FALLS RUN @ HWY 24/1 BR @ FALLS MILL WV (LAT 38 46 28 LONG 080 32 57)												
JUL , 1981												
20...	1140	.27	121	7.7	28.0	38	.0	11	2.5	5.8	.4	29
384607080365939 - M05.0SALTICK CR @ U/S 19 BR @ SALTICK BRDG WV (LAT 38 46 07 LONG 080 36 59)												
JUL , 1981												
20...	1025	1.1	115	7.0	24.0	45	--	13	3.0	4.1	.3	40
385149080385539 - M06.0OIL CR @ PRIVATE BR @ BURNSVILLE WV (LAT 38 51 49 LONG 080 38 55)												
JUL , 1981												
20...	1630	.80	186	7.5	26.0	71	.0	21	4.6	7.1	.4	66
AUG												
25...	1640	.08	220	7.7	24.0	81	.0	24	5.0	7.6	.4	72
385641080411239 - M07.0SAND FK @ HWY 11 BR NR DONLAN WV (LAT 38 56 41 LONG 080 41 12)												
JUL , 1981												
22...	1645	11	163	7.6	21.5	59	.0	18	3.5	5.8	.3	48
385530080403639 - M08.0INDIAN FK @ HWY 36 BR @ BLACKBURN WV (LAT 38 55 30 LONG 080 40 36)												
JUL , 1981												
22...	1745	3.2	195	7.8	25.0	67	.0	20	4.2	9.5	.5	47
AUG												
25...	1530	.10	235	7.7	27.0	77	.0	23	4.7	10	.5	64
385737080455539 - M09.0STEWART CR @ HWY 119 BR @ BALDWIN WV (LAT 38 57 37 LONG 080 45 55)												
JUL , 1981												
22...	1540	.90	481	7.0	25.0	180	.0	53	12	13	.4	26
AUG												
25...	1200	.12	610	6.8	22.5	250	.0	71	17	13	.4	15

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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LITTLE KANAWHA RIVER BASIN--Continued

384759080203839 - M01.0L KANAWHA R @ HWY 20 BR @ ARLINGTON WV (LAT 38 47 59 LONG 080 20 38)

JUL , 1981											
20...	6.9	4.4	42	.06	.23	640	500	140	30	0	30
AUG											
25...	7.6	5.3	--	.04	.06	530	300	230	40	9	31

384348080231739 - M02.0R FK L KANAWHA R @ HWY 20 BR @ CLEVELAND WV (LAT 38 43 48 LONG 080 23 17)

JUL , 1981											
20...	6.2	1.4	24	.03	.12	200	180	20	10	1	9
AUG											
25...	5.4	1.4	--	.02	.03	190	160	34	20	5	15

03151400 M03.0 L KANAWHA RIVER NR WILDCAT W. VA. (LAT 38 44 35 LONG 080 31 36)

JUL , 1981											
21...	10	4.6	69	.09	2.2	280	220	60	30	0	30

384628080325739 - M04.0FALLS RUN @ HWY 24/1 BR @ FALLS MILL WV (LAT 38 46 28 LONG 080 32 57)

JUL , 1981											
20...	15	7.7	75	.10	.05	540	480	60	50	20	30

384607080365939 - M05.0SALTICK CR @ U/S 19 BR @ SALTICK BRDG WV (LAT 38 46 07 LONG 080 36 59)

JUL , 1981											
20...	8.9	3.4	74	.10	.22	1300	1100	160	210	10	200

385149080385539 - M06.0OIL CR @ PRIVATE BR @ BURNSVILLE WV (LAT 38 51 49 LONG 080 38 55)

JUL , 1981											
20...	15	7.1	93	.13	.20	720	700	20	230	70	160
AUG											
25...	13	10	--	.13	.02	530	510	25	180	50	130

385641080411239 - M07.0SAND FK @ HWY 11 BR NR DONLAN WV (LAT 38 56 41 LONG 080 41 12)

JUL , 1981											
22...	16	7.6	94	.13	2.8	3500	3500	50	100	80	20

385530080403639 - M08.0INDIAN FK @ HWY 36 BR @ BLACKBURN WV (LAT 38 55 30 LONG 080 40 36)

JUL , 1981											
22...	16	17	112	.15	.97	9100	9000	60	240	220	20
AUG											
25...	13	18	--	.14	.03	410	360	51	290	10	280

385737080455539 - M09.0STEWART CR @ HWY 119 BR @ BALDWIN WV (LAT 38 57 37 LONG 080 45 55)

JUL , 1981											
22...	160	19	336	.46	.82	620	560	60	1000	50	950
AUG											
25...	210	20	--	.48	.11	440	240	200	2400	0	2500

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
LITTLE KANAWHA RIVER BASIN--Continued												
390105080414139 - M10.0LEADING CR @ HWY 119/3 BR @ PICKLE ST WV (LAT 39 01 05 LONG 080 41 41)												
JUL , 1981												
23...	0715	3.8	351	7.6	19.0	140	.0	40	10	9.4	.3	81
AUG												
25...	1300	.50	420	8.1	22.0	180	.0	49	13	11	.4	99
390506080421939 - M11.0FINK CR @ HWY 11 BR @ HURST WV (LAT 39 05 06 LONG 080 42 19)												
JUL , 1981												
23...	0815	5.7	178	7.3	18.5	56	.0	16	3.8	9.0	.5	39
390520080455039 - M12.0COVE CR @ PRIVATE BR @ CONINGS WV (LAT 39 05 20 LONG 080 45 50)												
JUL , 1981												
23...	0920	3.5	144	7.6	19.0	46	.0	13	3.2	5.3	.3	39
390522080465539 - M13.0BEAR FK @ HWY 8 BR NR CONINGS WV (LAT 39 05 22 LONG 080 46 55)												
JUL , 1981												
23...	1000	3.7	136	7.3	19.0	46	.0	13	3.3	5.7	.4	37
390234080492839 - M14.0HORN CR @ HWY 47 BR @ COXS MILLS WV (LAT 39 02 34 LONG 080 49 28)												
JUL , 1981												
23...	1105	.43	201	7.5	18.5	71	.0	21	4.4	9.9	.5	55
AUG												
25...	1400	.02	305	7.9	22.5	99	.0	30	5.8	17	.8	82
390247080492239 - M15.0COXCAMP FK @ HWY 47 BR @ COXS MILLS WV (LAT 39 02 47 LONG 080 49 22)												
JUL , 1981												
23...	1140	.20	810	7.7	20.5	180	.0	54	11	58	1.9	47
384608080443339 - M16.0PERKINS FK @ HWY 19/26 BR @ EXCHANGE WV (LAT 38 46 08 LONG 080 44 33)												
JUL , 1981												
20...	1915	.70	169	7.8	26.0	53	.0	15	3.7	7.7	.5	40
AUG												
26...	0720	.06	325	7.1	17.5	73	.0	21	5.0	28	1.5	56
384627080444739 - M17.0CEDAR CR @ RR BR @ MOUTH @ EXCHANGE WV (LAT 38 46 27 LONG 080 44 47)												
JUL , 1981												
20...	1840	.30	235	7.4	26.0	72	--	21	4.7	12	.6	48
385852080565839 - M18.0TANNER CR @ HWY 20 BR @ TANNER WV (LAT 38 58 52 LONG 080 56 58)												
JUL , 1981												
22...	1930	1.7	179	8.1	24.5	69	.0	21	4.1	6.0	.3	59
AUG												
25...	0700	.06	240	7.2	20.5	89	.0	27	5.1	9.0	.4	82

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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LITTLE KANAWHA RIVER BASIN--Continued

390105080414139 - M10.0LEADING CR @ HWY 119/3 BR @ PICKLE ST WV (LAT 39 01 05 LONG 080 41 41)

JUL , 1981											
23...	71	10	216	.29	2.2	2200	2200	30	220	80	140
AUG											
25...	83	9.9	--	.30	.29	820	810	14	300	70	230

390506080421939 - M11.0FINK CR @ HWY 11 BR @ HURST WV (LAT 39 05 06 LONG 080 42 19)

JUL , 1981											
23...	16	16	107	.15	1.6	2400	2300	90	120	50	70

390520080455039 - M12.0COVE CR @ PRIVATE BR @ CONINGS WV (LAT 39 05 20 LONG 080 45 50)

JUL , 1981											
23...	14	6.2	87	.12	.82	1200	1100	70	70	20	50

390522080465539 - M13.0BEAR FK @ HWY 8 BR NR CONINGS WV (LAT 39 05 22 LONG 080 46 55)

JUL , 1981											
23...	13	6.2	84	.11	.84	800	730	70	70	20	50

390234080492839 - M14.0HORN CR @ HWY 47 BR @ COXS MILLS WV (LAT 39 02 34 LONG 080 49 28)

JUL , 1981											
23...	15	15	112	.15	.13	610	590	20	60	20	40
AUG											
25...	12	32	--	.19	.01	420	370	48	140	30	110

390247080492239 - M15.0COXCAMP FK @ HWY 47 BR @ COXS MILLS WV (LAT 39 02 47 LONG 080 49 22)

JUL , 1981											
23...	12	200	479	.65	.26	400	350	50	60	10	50

384608080443339 - M16.0PERKINS FK @ HWY 19/26 BR @ EXCHANGE WV (LAT 38 46 08 LONG 080 44 33)

JUL , 1981											
20...	13	9.6	97	.13	.18	370	320	50	30	0	30
AUG											
26...	17	45	--	.20	.02	380	340	45	60	20	41

384627080444739 - M17.0CEDAR CR @ RR BR @ MOUTH @ EXCHANGE WV (LAT 38 46 27 LONG 080 44 47)

JUL , 1981											
20...	23	20	147	.20	.12	250	230	20	50	20	30

385852080565839 - M18.0TANNER CR @ HWY 20 BR @ TANNER WV (LAT 38 58 52 LONG 080 56 58)

JUL , 1981											
22...	14	5.1	104	.14	.48	750	710	40	70	10	60
AUG											
25...	14	10	--	.15	.02	700	680	21	160	100	57

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
LITTLE KANAWHA RIVER BASIN--Continued												
384322080555839 - M19.0R FK STEER CR @ HWY 9 BR NR ROSEDALE WV (LAT 38 43 22 LONG 080 55 58)												
JUL , 1981												
22...	1055	5.2	147	8.0	22.0	53	--	15	3.7	6.2	.4	44
AUG												
26...	0920	.04	215	7.1	17.5	75	.0	22	4.9	11	.6	68
384657080554639 - M20.0CROOKED FK @ HWY 52/4 BR @ PERKINS WV (LAT 38 46 57 LONG 080 55 46)												
JUL , 1981												
22...	0955	2.0	124	7.7	21.0	48	.0	14	3.2	3.4	.2	44
384722080504939 - M21.0L FK STEER CR @ HWY 7/1 BR NR CHAPEL WV (LAT 38 47 22 LONG 080 50 49)												
JUL , 1981												
22...	1405	2.3	157	7.7	23.0	53	.0	15	3.8	5.7	.3	46
385102080574839 - M22.0L FK STEER CR @ HWY 119/21 BR @ LOCKNEY WV (LAT 38 51 02 LONG 080 57 48)												
JUL , 1981												
22...	0815	4.8	138	7.2	21.5	--	.0	--	--	--	--	46
AUG												
25...	1015	.80	160	7.2	20.5	59	.0	17	3.9	4.5	.3	56
385842081055939 - M23.0YELLOW CR @ HWY 4/8 BR @ AYERS WV (LAT 38 58 42 LONG 081 05 59)												
JUL , 1981												
23...	1530	.60	165	6.2	23.0	61	.4	18	3.9	7.0	.4	43
AUG												
25...	0840	.02	195	6.7	17.5	73	.0	22	4.4	6.1	.3	68
384359081024039 - M24.0L FK @ HWY 11/3 BR @ EUCLID WV (LAT 38 43 59 LONG 081 02 40)												
JUL , 1981												
22...	1215	3.5	150	7.5	22.0	52	--	15	3.6	5.6	.3	47
384234081055839 - M25.0W FK L KANAWHA R @ HWY 16 BR @ MINNORA WV (LAT 38 42 34 LONG 081 05 58)												
JUL , 1981												
21...	1135	1.7	205	7.0	23.0	70	.0	20	4.9	9.4	.5	63
AUG												
26...	1100	.04	240	7.3	20.5	80	.0	23	5.4	10	.5	0
384328081085839 - M26.0BEECH FK @ HWY 13 BR @ MILO WV (LAT 38 43 28 LONG 081 08 58)												
JUL , 1981												
21...	1845	5.0	170	7.6	24.0	64	.0	18	4.6	4.8	.3	59
384310081124039 - M27.0HENRY FK @ HWY 25 BR @ LINDEN WV (LAT 38 43 10 LONG 081 12 40)												
JUL , 1981												
21...	1740	5.6	261	7.6	24.0	88	--	26	5.6	15	.7	68
AUG												
26...	1235	.00	310	7.5	26.5	110	.0	32	6.6	16	.7	97

OHIO RIVER BASIN

49

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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LITTLE KANAWHA RIVER BASIN--Continued

384322080555839 - M19.0R FK STEER CR @ HWY 9 BR NR ROSEDALE WV (LAT 38 43 22 LONG 080 55 58)

JUL , 1981											
22...	12	7.8	94	.13	1.3	650	610	40	30	10	20
AUG											
26...	11	18	--	.14	.01	840	620	220	290	0	300

384657080554639 - M20.0CROOKED FK @ HWY 52/4 BR @ PERKINS WV (LAT 38 46 57 LONG 080 55 46)

JUL , 1981											
22...	12	1.5	73	.10	.39	1000	950	50	60	40	20

384722080504939 - M21.0L FK STEER CR @ HWY 7/1 BR NR CHAPEL WV (LAT 38 47 22 LONG 080 50 49)

JUL , 1981											
22...	11	7.8	87	.12	.54	720	620	100	110	20	90

385102080574839 - M22.0L FK STEER CR @ HWY 119/21 BR @ LOCKNEY WV (LAT 38 51 02 LONG 080 57 48)

JUL , 1981											
22...	12	4.3	87	.12	1.1	640	--	--	160	--	--
AUG											
25...	9.5	6.6	--	.10	.16	670	590	82	190	30	160

385842081055939 - M23.0YELLOW CR @ HWY 4/8 BR @ AYERS WV (LAT 38 58 42 LONG 081 05 59)

JUL , 1981											
23...	16	7.7	105	.14	.17	770	700	70	220	60	160
AUG											
25...	11	8.1	--	.12	.00	490	430	58	180	70	110

384359081024039 - M24.0L FK @ HWY 11/3 BR @ EUCLID WV (LAT 38 43 59 LONG 081 02 40)

JUL , 1981											
22...	13	6.1	85	.12	.80	740	660	80	100	30	70

384234081055839 - M25.0W FK L KANAWHA R @ HWY 16 BR @ MINNORA WV (LAT 38 42 34 LONG 081 05 58)

JUL , 1981											
21...	12	12	115	.16	.53	800	750	50	340	20	320
AUG											
26...	7.1	21	--	.14	.01	650	570	85	340	130	210

384328081085839 - M26.0BEECH FK @ HWY 13 BR @ MILO WV (LAT 38 43 28 LONG 081 08 58)

JUL , 1981											
21...	10	2.2	89	.12	1.2	1100	1000	60	170	70	100

384310081124039 - M27.0HENRY FK @ HWY 25 BR @ LINDEN WV (LAT 38 43 10 LONG 081 12 40)

JUL , 1981											
21...	10	23	146	.20	2.2	1900	1800	100	170	60	110
AUG											
26...	4.5	30	--	.19	.00	850	780	67	870	50	820

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
LITTLE KANAWHA RIVER BASIN--Continued												
384803081205839 - M28.0SPRING CR @ HWY 33 BR @ SPENCER WV (LAT 38 48 03 LONG 081 20 58)												
JUL , 1981												
21...	1615	1.4	283	8.1	26.0	93	.0	28	5.7	17	.8	79
AUG												
24...	1710	1.1	170	8.2	25.5	55	.0	16	3.6	5.3	.3	42
03155000 M29.0LITTLE KANAWHA RIVER AT PALESTINE, W. VA. (LAT 39 03 35 LONG 081 23 25)												
JUL , 1981												
24...	1135	244	165	7.5	26.5	56	.0	16	3.8	6.3	.4	43
391215080515339 - M30.0S FK HUGHES R @ HWY 52 BR @ OXFORD WV (LAT 39 12 15 LONG 080 51 53)												
JUL , 1981												
22...	1410	9.7	110	6.5	23.5	43	.0	13	2.6	2.3	.2	26
390855080502739 - M31.0MIDDLE FK @ HWY 22/3 BR NR HOLBROOK WV (LAT 39 08 55 LONG 080 50 27)												
JUL , 1981												
22...	1300	10	100	6.4	21.0	48	.0	14	3.2	3.0	.2	31
390638080565439 - M32.0BONE CR @ HWY 7/14 BR NR BERE A WV (LAT 39 06 38 LONG 080 56 54)												
JUL , 1981												
23...	0905	2.1	160	6.6	21.0	61	.0	17	4.5	6.4	.4	45
390436081004439 - M33.0SPRUCE CR @ HWY 19/4 BR NR HAZELGREEN WV (LAT 39 04 36 LONG 081 00 44)												
JUL , 1981												
23...	1245	1.4	180	6.6	24.5	61	.0	17	4.5	8.4	.5	75
390333081053539 - M34.0LEATHERBARK CR @ HWY 16 BR @ SMITHVILLE WV (LAT 39 03 33 LONG 081 05 35)												
JUL , 1981												
23...	1420	1.0	140	6.6	27.0	49	.0	14	3.5	6.0	.4	34
AUG												
24...	1920	.04	185	8.2	26.5	62	.0	18	4.2	7.9	.5	58
390821081031739 - M35.0INDIAN CR @ HWY 16 BR @ WASHBURN WV (LAT 39 08 21 LONG 081 03 17)												
JUL , 1981												
23...	1705	1.4	175	7.2	25.5	61	--	17	4.5	7.7	.4	51
AUG												
25...	1530	.01	245	7.5	22.5	82	--	23	6.0	14	.7	75
391629080555339 - M36.0N FK HUGHES R @ HWY 50/40 BR @ TOLL GATE WV (LAT 39 16 29 LONG 080 55 53)												
JUL , 1981												
23...	0905	1.1	175	6.4	21.5	66	.0	18	5.2	8.2	.4	52

OHIO RIVER BASIN

51

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE PECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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LITTLE KANAWHA RIVER BASIN--Continued

384803081205839 - M28.0SPRING CR @ HWY 33 BR @ SPENCER WV (LAT 38 48 03 LONG 081 20 58)

JUL , 1981											
21...	25	18	168	.23	.64	1200	1100	100	340	130	210
AUG											
24...	18	5.9	--	.10	.22	2000	1900	73	310	70	240

03155000 M29.0 LITTLE KANAWHA RIVER AT PALESTINE, W. VA. (LAT 39 03 35 LONG 081 23 25)

JUL , 1981											
24...	17	4.3	94	.13	61.9	550	520	30	120	110	7

391215080515339 - M30.0S FK HUGHES R @ HWY 52 BR @ OXFORD WV (LAT 39 12 15 LONG 080 51 53)

JUL , 1981											
22...	15	2.1	82	.11	2.1	5700	5500	160	240	210	30

390855080502739 - M31.0MIDDLE FK @ HWY 22/3 BR NR HOLBROOK WV (LAT 39 08 55 LONG 080 50 27)

JUL , 1981											
22...	17	2.0	79	.11	2.2	2200	2100	100	110	70	40

390638080565439 - M32.0BONE CR @ HWY 7/14 BR NR BERE A WV (LAT 39 06 38 LONG 080 56 54)

JUL , 1981											
23...	19	6.8	98	.13	.56	1800	1700	90	60	30	30

390436081004439 - M33.0SPRUCE CR @ HWY 19/4 BR NR HAZELGREEN WV (LAT 39 04 36 LONG 081 00 44)

JUL , 1981											
23...	15	12	106	.14	.40	410	350	60	160	30	130

390333081053539 - M34.0LEATHERBARK CR @ HWY 16 BR @ SMITHVILLE WV (LAT 39 03 33 LONG 081 05 35)

JUL , 1981											
23...	13	7.6	79	.11	.21	620	560	60	110	20	90
AUG											
24...	9.5	12	--	.11	.01	1000	840	160	400	40	360

390821081031739 - M35.0INDIAN CR @ HWY 16 BR @ WASHBURN WV (LAT 39 08 21 LONG 081 03 17)

JUL , 1981											
23...	14	7.1	98	.13	.37	1000	950	50	100	70	30
AUG											
25...	15	17	--	--	--	400	340	63	130	10	120

391629080555339 - M36.0N FK HUGHES R @ HWY 50/40 BR @ TOLL GATE WV (LAT 39 16 29 LONG 080 55 53)

JUL , 1981											
23...	14	5.8	101	.14	.30	870	820	50	420	140	280

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
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LITTLE KANAWHA RIVER BASIN--Continued

391808081030339 - M37.0BONDS CR @ HWY 1 BR @ HIGHLAND WV (LAT 39 18 08 LONG 081 03 03)

JUL , 1981												
21...	1700	.70	180	7.1	28.0	73	--	21	5.1	6.6	.3	62
AUG												
25...	1230	.04	240	8.2	23.0	83	--	23	6.2	11	.6	64

03155500 M38.0 HUGHES RIVER AT CISCO W VA (LAT 39 07 10 LONG 081 16 40)

JUL , 1981												
24...	0930	89	180	6.7	23.0	61	.0	17	4.5	8.9	.5	44

OHIO RIVER BASIN

53

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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LITTLE KANAWHA RIVER BASIN--Continued

391808081030339 - M37.0BONDS CR @ HWY 1 BR @ HIGHLAND WV (LAT 39 18 08 LONG 081 03 03)

JUL , 1981											
21...	16	4.4	101	.14	.19	1100	1000	80	170	20	150
AUG											
25...	15	9.3	--	--	--	1000	980	16	240	20	220

03155500 M38.0 HUGHES RIVER AT CISCO W VA (LAT 39 07 10 LONG 081 16 40)

JUL , 1981											
24...	15	12	117	.16	28.1	690	640	50	80	50	30

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
384759080203839 - M01.0L KANAWHA R @ HWY 20 BR @ ARLINGTON WV (LAT 38 47 59 LONG 080 20 38)				
JUL , 1981				
20...	1425	2.0	2	.01
AUG				
25...	1840	.77	--	--
384348080231739 - M02.0R FK L KANAWHA R @ HWY 20 BR @ CLEVELAND WV (LAT 38 43 48 LONG 080 23 17)				
JUL , 1981				
20...	1320	1.8	1	.00
AUG				
25...	1940	.59	--	--
03151400 M03.0 L KANAWHA RIVER NR WILDCAT W. VA. (LAT 38 44 35 LONG 080 31 36)				
JUL , 1981				
21...	0750	12	3	.10
384628080325739 - M04.0FALLS RUN @ HWY 24/1 BR @ FALLS MILL WV (LAT 38 46 28 LONG 080 32 57)				
JUL , 1981				
20...	1140	.27	1	.00
384607080365939 - M05.0SALTICK CR @ U/S 19 BR @ SALTICK BRDG WV (LAT 38 46 07 LONG 080 36 59)				
JUL , 1981				
20...	1025	1.1	12	.04
385149080385539 - M06.0OIL CR @ PRIVATE BR @ BURNSVILLE WV (LAT 38 51 49 LONG 080 38 55)				
JUL , 1981				
20...	1630	.80	7	.02
AUG				
25...	1640	.08	--	--
385641080411239 - M07.0SAND FK @ HWY 11 BR NR DONLAN WV (LAT 38 56 41 LONG 080 41 12)				
JUL , 1981				
22...	1645	11	94	2.9
385530080403639 - M08.0INDIAN FK @ HWY 36 BR @ BLACKBURN WV (LAT 38 55 30 LONG 080 40 36)				
JUL , 1981				
22...	1745	3.2	353	3.0
AUG				
25...	1530	.10	--	--
385737080455539 - M09.0STEWART CR @ HWY 119 BR @ BALDWIN WV (LAT 38 57 37 LONG 080 45 55)				
JUL , 1981				
22...	1540	.90	13	.03
AUG				
25...	1200	.12	--	--

OHIO RIVER BASIN

55

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
390105080414139 - M10.0LEADING CR @ HWY 119/3 BR @ PICKLE ST WV (LAT 39 01 05 LONG 080 41 41)				
JUL , 1981				
23...	0715	3.8	59	.61
AUG				
25...	1300	.50	--	--
390506080421939 - M11.0FINK CR @ HWY 11 BR @ HURST WV (LAT 39 05 06 LONG 080 42 19)				
JUL , 1981				
23...	0815	5.7	76	1.2
390520080455039 - M12.0COVE CR @ PRIVATE BR @ CONINGS WV (LAT 39 05 20 LONG 080 45 50)				
JUL , 1981				
23...	0920	3.5	25	.24
390522080465539 - M13.0BEAR FK @ HWY 8 BR NR CONINGS WV (LAT 39 05 22 LONG 080 46 55)				
JUL , 1981				
23...	1000	3.7	23	.23
390234080492839 - M14.0HORN CR @ HWY 47 BR @ COXS MILLS WV (LAT 39 02 34 LONG 080 49 28)				
JUL , 1981				
23...	1105	.43	13	.02
AUG				
25...	1400	.02	--	--
390247080492239 - M15.0COXCAMP FK @ HWY 47 BR @ COXS MILLS WV (LAT 39 02 47 LONG 080 49 22)				
JUL , 1981				
23...	1140	.20	0	.00
384608080443339 - M16.0PERKINS FK @ HWY 19/26 BR @ EXCHANGE WV (LAT 38 46 08 LONG 080 44 33)				
JUL , 1981				
20...	1915	.70	5	.01
AUG				
26...	0720	.06	--	--
384627080444739 - M17.0CEDAR CR @ RR BR @ MOUTH @ EXCHANGE WV (LAT 38 46 27 LONG 080 44 47)				
JUL , 1981				
20...	1840	.30	3	.00
385852080565839 - M18.0TANNER CR @ HWY 20 BR @ TANNER WV (LAT 38 58 52 LONG 080 56 58)				
JUL , 1981				
22...	1930	1.7	21	.10
AUG				
25...	0700	.06	--	--

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
384322080555839 - M19.0R FK STEER CR @ HWY 9 BR NR ROSEDALE WV (LAT 38 43 22 LONG 080 55 58)				
JUL , 1981				
22...	1055	5.2	17	.24
AUG				
26...	0920	.04	--	--
384657080554639 - M20.0CROOKED FK @ HWY 52/4 BR @ PERKINS WV (LAT 38 46 57 LONG 080 55 46)				
JUL , 1981				
22...	0955	2.0	19	.10
384722080504939 - M21.0L FK STEER CR @ HWY 7/1 BR NR CHAPEL WV (LAT 38 47 22 LONG 080 50 49)				
JUL , 1981				
22...	1405	2.3	15	.09
385102080574839 - M22.0L FK STEER CR @ HWY 119/21 BR @ LOCKNEY WV (LAT 38 51 02 LONG 080 57 48)				
JUL , 1981				
22...	0815	4.8	13	.17
AUG				
25...	1015	.80	--	--
385842081055939 - M23.0YELLOW CR @ HWY 4/8 BR @ AYERS WV (LAT 38 58 42 LONG 081 05 59)				
JUL , 1981				
23...	1530	.60	10	.02
AUG				
25...	0840	.02	--	--
384359081024039 - M24.0L FK @ HWY 11/3 BR @ EUCLID WV (LAT 38 43 59 LONG 081 02 40)				
JUL , 1981				
22...	1215	3.5	17	.16
384234081055839 - M25.0W FK L KANAWHA R @ HWY 16 BR @ MINNORA WV (LAT 38 42 34 LONG 081 05 58)				
JUL , 1981				
21...	1135	1.7	15	.07
AUG				
26...	1100	.04	--	--
384328081085839 - M26.0BEECH FK @ HWY 13 BR @ MILO WV (LAT 38 43 28 LONG 081 08 58)				
JUL , 1981				
21...	1845	5.0	32	.43
384310081124039 - M27.0HENRY FK @ HWY 25 BR @ LINDEN WV (LAT 38 43 10 LONG 081 12 40)				
JUL , 1981				
21...	1740	5.6	26	.39
AUG				
26...	1235	.00	--	--

OHIO RIVER BASIN

57

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDEED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDEED (T/DAY)
384803081205839 - M28.0SPRING CR @ HWY 33 BR @ SPENCER WV (LAT 38 48 03 LONG 081 20 58)				
JUL , 1981				
21...	1615	1.4	30	.11
AUG				
24...	1710	1.1	--	--
03155000 M29.0 LITTLE KANAWHA RIVER AT PALESTINE, W. VA. (LAT 39 03 35 LONG 081 23 25)				
JUL , 1981				
24...	1135	244	15	9.9
391215080515339 - M30.05 FK HUGHES R @ HWY 52 BR @ OXFORD WV (LAT 39 12 15 LONG 080 51 53)				
JUL , 1981				
22...	1410	9.7	239	6.3
390855080502739 - M31.0MIDDLE FK @ HWY 22/3 BR NR HOLBROOK WV (LAT 39 08 55 LONG 080 50 27)				
JUL , 1981				
22...	1300	10	63	1.8
390638080565439 - M32.0BONE CR @ HWY 7/14 BR NR BERE A WV (LAT 39 06 38 LONG 080 56 54)				
JUL , 1981				
23...	0905	2.1	32	.18
390436081004439 - M33.0SPRUCE CR @ HWY 19/4 BR NR HAZELGREEN WV (LAT 39 04 36 LONG 081 00 44)				
JUL , 1981				
23...	1245	1.4	7	.03
390333081053539 - M34.0LEATHERBARK CR @ HWY 16 BR @ SMITHVILLE WV (LAT 39 03 33 LONG 081 05 35)				
JUL , 1981				
23...	1420	1.0	10	.03
AUG				
24...	1920	.04	--	--
390821081031739 - M35.0INDIAN CR @ HWY 16 BR @ WASHBURN WV (LAT 39 08 21 LONG 081 03 17)				
JUL , 1981				
23...	1705	1.4	33	.12
AUG				
25...	1530	.01	--	--
391629080555339 - M36.0N FK HUGHES R @ HWY 50/40 BR @ TOLL GATE WV (LAT 39 16 29 LONG 080 55 53)				
JUL , 1981				
23...	0905	1.1	17	.05

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
391808081030339 - M37.0 BONDS CR @ HWY 1 BR @ HIGHLAND WV (LAT 39 18 08 LONG 081 03 03)				
JUL , 1981				
21...	1700	.70	11	.02
AUG				
25...	1230	.04	--	--
03155500 M38.0 HUGHES RIVER AT CISCO W VA (LAT 39 07 10 LONG 081 16 40)				
JUL , 1981				
24...	0930	89	22	5.3



Figure 6.--Location of sampling sites
 in the Kanawha River basin.

Table 5.--Name, location, and drainage area for sites in the Kanawha River basin.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.	Local No.	Name	County	Drain. Area (Mi ²)	Page No.
N01.0	Bluestone River	Mercer	113	62,76	T04.0	Little Sugar Creek	Webster	7.29	68,79
N02.0	Widemouth Creek	"	23.5	"	T05.0	Sugar Creek	"	13.9	"
N06.0	Bluestone River	Summers	363.	"	T08.0	Grassy Creek	"	19.4	"
P02.5	Greenbrier River	Pocahontas	134.	"	T10.0	L Fk Holly River	"	12.1	"
P04.5	Greenbrier River	"	540.	"	T11.0	Laurel Fork	"	11.5	"
P06.0	Greenbrier River	Summers	1,625.	"	T19.0	Buffalo Creek	Clay	22.4	"
P07.0	New River	"	6,257.	"	T20.0	Buffalo Creek	"	113.	"
Q02.0	Lick Creek	"	37.5	"	T23.0	Elk River	Kanawha	1,145.	"
Q03.0	Meadow Creek	"	18.2	"	T24.0	Big Sandy Creek	"	93.4	"
Q06.0	Piney Creek	Raleigh	24.5	"	T26.0	Blue Creek	"	50.1	70,80
Q07.0	Piney Creek	"	52.2	"	U01.0	Davis Creek	"	7.09	"
Q09.0	Laurel Creek	Fayette	17.3	64,77	U02.5	Trace Fork D/S Dryden Hol.	"	4.72	"
R06.0	Cranberry River	Nicholas	81.2	"	U05.0	Pocatalico Creek	Jackson	32.7	"
R09.0	Cherry River	"	86.6	"	U06.0	Middle Fork	"	29.2	"
R10.0	Laurel Creek	"	41.6	"	U07.0	Pocatalico River	Kanawha	238.	"
R12.0	Big Beaver Creek	"	29.5	"	U09.0	Poplar Fork	Putnam	8.71	"
R13.0	Brushy Fork	"	7.57	"	U13.0	Eighteenmile Creek	"	64.7	"
R14.0	Muddlety Creek	"	51.0	"	U14.0	Poplar Fork	Mason	28.8	"
R16.0	Meadow River	Greenbrier	28.1	"	U15.0	Mudlick Fork	"	15.9	"
R18.0	Big Clear Creek	"	47.1	"	V01.0	Marsh Fork	Raleigh	32.0	"
R19.0	Meadow River	"	156.	"	V03.0	Marsh Fork	"	163.	72,81
R20.0	Sewell Creek	"	40.1	66,78	V04.0	Clear Fork	"	63.2	"
R21.0	Anglins Creek	Nicholas	33.0	"	V05.0	Hopkins Fork	Boone	23.5	"
R22.0	Peters Creek	"	40.7	"	V06.5	Laurel Creek	"	41.3	"
S00.5	Kanawha River	Fayette	8,367.	"	V07.0	Drawdy Creek	"	7.74	"
S01.0	Loop Creek	"	42.8	"	V10.0	Big Coal River	Kanawha	442.	"
S02.0	Armstrong Creek	"	22.8	"	V11.0	Spruce Fork	Logan	25.6	"
S03.0	Paint Creek	Raleigh	26.7	"	V12.0	Spruce Laurel Fork	Boone	31.8	"
S04.0	Packs Branch	Fayette	4.61	"	V13.0	Hewitt Creek	"	18.9	"
S05.0	Paint Creek	"	83.0	"	V14.0	Pond Fork	"	18.0	"
S07.0	Fifteenmile Fork	Kanawha	4.53	"	V15.0	Pond Fork	"	58.3	"
S08.0	Cabin Creek	"	5.77	"	V16.0	West Fork	"	42.7	74,82
S09.0	Cabin Creek	"	70.8	68,79	V17.0	Little Coal River	"	319.	"
S10.0	Campbells Creek	"	32.6	"	V19.0	Coal River	Kanawha	861.	"

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CACO3)
KANAWHA RIVER BASIN												
371948081181339 - N01.0BLUESTONE R @ HWY 52 BR @ BRAMWELL WV (LAT 37 19 48 LONG 081 18 13)												
JUL , 1981 22...	0850	68	260	7.9	22.0	140	.0	44	7.5	8.9	.3	118
372239081135539 - N02.0WIDEMOUTH CR @ HWY 71/3 BR NR ROCK WV (LAT 37 22 39 LONG 081 13 55)												
JUL , 1981 22...	1115	12	300	8.2	21.5	130	--	34	12	18	.7	96
03179000 N06.0 BLUESTONE RIVER NEAR PIPESTEM, W. VA. (LAT 37 32 45 LONG 081 00 30)												
JUL , 1981 22...	1500	168	240	8.4	26.0	100	--	30	6.7	14	.6	84
03180500 P02.5 GREENBRIER RIVER AT DURBIN, W. VA. (LAT 38 32 35 LONG 079 50 00)												
JUL , 1981 22...	1800	46	208	7.0	26.5	30	--	10	1.3	24	1.9	11
03182500 P04.5 GREENBRIER RIVER AT BUCKEYE, W. VA. (LAT 38 11 15 LONG 080 07 50)												
JUL , 1981 22...	1500	164	110	8.3	27.0	34	--	11	1.6	5.5	.4	27
03184000 P06.0 GREENBRIER RIVER AT HILLDALE, W. VA. (LAT 37 38 25 LONG 080 48 20)												
JUL , 1981 22...	1620	265	159	8.4	28.5	77	--	25	3.5	4.9	.2	66
03184500 P07.0 NEW RIVER AT HINTON, W. VA. (LAT 37 40 15 LONG 080 53 40)												
JUL , 1981 22...	1815	2600	152	8.8	30.0	76	--	23	4.5	4.9	.2	68
374719080530239 - Q02.0LICK CR @ PRIVATE BR NR SANDSTONE WV (LAT 37 47 19 LONG 080 53 02)												
JUL , 1981 23...	1010	.88	160	8.0	23.0	76	--	22	5.2	6.9	.3	70
375008080522339 - Q03.0MEADOW CR @ HWY 7/1 BR @ CLAYPOOL WV (LAT 37 50 08 LONG 080 52 23)												
JUL , 1981 23...	1155	2.4	178	7.6	20.5	79	--	20	7.1	6.2	.3	32
374237081114039 - Q06.0PINEY CR @ HWY 25 BR NR CRAB ORCHARD WV (LAT 37 42 37 LONG 081 11 40)												
JUL , 1981 22...	0900	19	321	7.6	19.5	280	--	25	12	17	.7	37
03185000 Q07.0 PINEY CREEK AT RALEIGH, W. VA. (LAT 37 45 40 LONG 081 09 50)												
JUL , 1981 22...	1045	28	300	8.1	22.0	99	--	23	10	15	.7	31

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

371948081181339 - N01.0BLUESTONE R @ HWY 52 BR @ BRAMWELL WV (LAT 37 19 48 LONG 081 18 13)

JUL , 1981 22...	17	13	190	.26	34.9	980	970	10	70	30	40
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372239081135539 - N02.0WIDEMOUTH CR @ HWY 71/3 BR NR ROCK WV (LAT 37 22 39 LONG 081 13 55)

JUL , 1981 22...	56	5.5	211	.29	6.8	990	970	20	40	30	8
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03179000 N06.0 BLUESTONE RIVER NEAR PIPESTEM, W. VA. (LAT 37 32 45 LONG 081 00 30)

JUL , 1981 22...	26	14	171	.23	77.6	680	670	10	60	50	10
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03180500 P02.5 GREENBRIER RIVER AT DURBIN, W. VA. (LAT 38 32 35 LONG 079 50 00)

JUL , 1981 22...	15	37	121	.16	15.0	300	140	160	30	0	30
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03182500 P04.5 GREENBRIER RIVER AT BUCKEYE, W. VA. (LAT 38 11 15 LONG 080 07 50)

JUL , 1981 22...	10	8.8	69	.09	30.6	280	240	40	10	0	10
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03184000 P06.0GREENBRIER RIVER AT HILLDALE, W. VA. (LAT 37 38 25 LONG 080 48 20)

JUL , 1981 22...	17	6.4	110	.15	78.7	110	80	30	20	10	7
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03184500 P07.0 NEW RIVER AT HINTON, W. VA. (LAT 37 40 15 LONG 080 53 40)

JUL , 1981 22...	14	5.8	101	.14	709	140	110	30	20	10	9
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374719080530239 - Q02.0LICK CR @ PRIVATE BR NR SANDSTONE WV (LAT 37 47 19 LONG 080 53 02)

JUL , 1981 23...	14	5.4	113	.15	.27	200	190	10	20	10	7
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375008080522339 - Q03.0MEADOW CR @ HWY 7/1 BR @ CLAYPOOL WV (LAT 37 50 09 LONG 080 52 23)

JUL , 1981 23...	52	4.0	159	.22	1.0	700	--	<10	40	30	6
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374237081114039 - Q06.0PINEY CR @ HWY 25 BR NR CRAB ORCHARD WV (LAT 37 42 37 LONG 081 11 40)

JUL , 1981 22...	100	1.4	211	.29	11.3	160	0	140	680	80	600
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03185000 Q07.0 PINEY CREEK AT RALEIGH, W. VA. (LAT 37 45 40 LONG 081 09 50)

JUL , 1981 22...	89	6.1	222	.30	16.8	490	470	20	180	20	160
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
KANAWHA RIVER BASIN--Continued												
380552081091639 - 009.0LAUREL CR @ BR IN BECKWITH WV (LAT 38 05 52 LONG 081 09 16)												
JUL , 1981 22...	1545	3.4	550	8.7	24.0	89	--	22	8.2	62	2.9	90
03187500 R06.0 CRANBERRY RIVER NEAR RICHWOOD, W. VA. (LAT 38 17 45 LONG 080 31 40)												
JUL , 1981 21...	1430	28	24	5.6	23.5	6	<.1	1.9	.4	.6	.1	1
381318080315939 - R09.0CHERRY R @ HWY 39/18 BR IN RICHWOOD WV (LAT 38 13 18 LONG 080 31 59)												
JUL , 1981 22...	0830	25	45	7.5	20.5	14	--	4.0	1.0	1.6	.2	9
381315080352739 - R10.0LAUREL CR @ HWY 39/26 BR @ FENWICK WV (LAT 38 13 15 LONG 080 35 27)												
JUL , 1981 23...	0815	12	163	7.0	18.0	45	--	8.6	5.7	8.5	.6	6
381942080395639 - R12.0BIG BEAVER CR @ HWY 5 BR @ CRAIGSVILLE WV (LAT 38 19 42 LONG 080 39 56)												
JUL , 1981 21...	1350	9.6	253	7.3	23.5	97	.0	19	12	4.4	.2	15
382308080482939 - R13.0BRUSHY FK @ HWY 19 BR @ HOOKERVILLE WV (LAT 38 23 08 LONG 080 48 29)												
JUL , 1981 21...	1740	2.7	187	7.0	23.0	62	.0	13	7.1	5.8	.3	12
381839080500939 - R14.0MUDDLETY CR @ HWY 41 BR @ SUMMERSVILLE WV (LAT 38 18 39 LONG 080 50 09)												
JUL , 1981 20...	1620	22	360	7.4	24.5	150	--	33	16	6.6	.2	41
375449080402639 - R16.0MEADOW R @ HWY 60/32 BR NR MEADOW BLUFF WV (LAT 37 54 49 LONG 080 40 26)												
JUL , 1981 23...	1030	.00	87	7.0	21.0	37	.0	11	2.4	2.1	.2	36
375911080400539 - R18.0BIG CLEAR CR @ HWY 1/2 BR @ KESSLER WV (LAT 37 59 11 LONG 080 40 05)												
JUL , 1981 20...	1820	18	131	6.8	23.5	46	--	11	4.4	2.0	.1	11
03189890 R19.0 MEADOW RIVER AT MCROSS WV (LAT 37 59 37 LONG 080 44 53)												
JUL , 1981 20...	2030	30	115	6.7	23.0	40	<.1	10	3.6	2.2	.2	19

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

380552081091639 - 009.0LAUREL CR @ BR IN BECKWITH WV (LAT 38 05 52 LONG 081 09 16)

JUL , 1981 22...	130	10	308	.42	2.8	410	390	20	40	20	20
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03187500 R06.0 CRANBERRY RIVER NEAR RICHWOOD, W. VA. (LAT 38 17 45 LONG 080 31 40)

JUL , 1981 21...	5.6	.5	34	.05	2.5	80	60	20	<10	--	8
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381318080315939 - R09.0CHERRY R @ HWY 39/18 BR IN RICHWOOD WV (LAT 38 13 18 LONG 080 31 59)

JUL , 1981 22...	6.8	1.0	28	.04	1.9	450	410	40	50	10	40
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381315080352739 - R10.0LAUREL CR @ HWY 39/26 BR @ FENWICK WV (LAT 38 13 15 LONG 080 35 27)

JUL , 1981 23...	55	.5	100	.14	3.2	230	220	10	410	0	430
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381942080395639 - R12.0BIG BEAVER CR @ HWY 5 BR @ CRAIGSVILLE WV (LAT 38 19 42 LONG 080 39 56)

JUL , 1981 21...	84	1.5	166	.23	4.3	950	910	40	450	50	400
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382308080482939 - R13.0BRUSHY FK @ HWY 19 BR @ HOOKERVILLE WV (LAT 38 23 08 LONG 080 48 29)

JUL , 1981 21...	55	3.9	128	.17	.93	940	660	280	530	0	570
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381839080500939 - R14.0MUDDLETY CR @ HWY 41 BR @ SUMMERSVILLE WV (LAT 38 18 39 LONG 080 50 09)

JUL , 1981 20...	100	4.7	250	.34	14.9	830	820	10	300	0	300
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375449080402639 - R16.0MEADOW R @ HWY 60/32 BR NR MEADOW BLUFF WV (LAT 37 54 49 LONG 080 40 26)

JUL , 1981 23...	3.5	1.8	57	.08	.00	1300	620	680	270	20	250
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375911080400539 - R18.0BIG CLEAR CR @ HWY 1/2 BR @ KESSLER WV (LAT 37 59 11 LONG 080 40 05)

JUL , 1981 20...	41	.5	85	.12	4.2	300	280	20	20	0	20
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03189890 R19.0 MEADOW RIVER AT MCROSS WV (LAT 37 59 37 LONG 080 44 53)

JUL , 1981 20...	24	.9	54	.07	4.3	560	430	130	80	0	80
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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
KANAWHA RIVER BASIN--Continued												
375826080455339 - R20.0SEWELL CR @ HWY 60/1 BR @ EAST RAINELLE WV (LAT 37 58 26 LONG 080 45 53)												
JUL , 1981 22...	2045	7.5	145	7.4	24.0	43	.0	12	3.1	4.8	.3	36
380818080530839 - R21.0ANGLINS CR @ HWY 41 BR NR POOL WV (LAT 38 08 18 LONG 080 53 08)												
JUL , 1981 20...	1430	4.9	52	6.2	22.5	16	<.1	3.7	1.6	1.5	.2	7
03191500 R22.0 PETERS CREEK NEAR LOCKWOOD, W. VA. (LAT 38 15 40 LONG 081 01 20)												
JUL , 1981 20...	1000	9.7	360	7.8	24.0	90	--	22	8.6	32	1.5	74
03193000 S00.5 KANAWHA RIVER AT KANAWHA FALLS, W. VA. (LAT 38 08 20 LONG 081 12 45)												
JUL , 1981 20...	0905	3020	155	7.0	27.0	56	.0	14	5.1	5.3	.3	47
380607081145339 - S01.0LOOP CR @ HWY 61 BR @ ROBSON WV (LAT 38 06 07 LONG 081 14 53)												
JUL , 1981 22...	1720	15	700	8.9	25.0	210	--	41	25	55	1.7	107
380840081173439 - S02.0ARMSTRONG CR @ HWY 61 BR @ MT CARBON WV (LAT 38 08 40 LONG 081 17 34)												
JUL , 1981 23...	1110	6.7	505	8.1	23.5	210	--	42	26	16	.5	41
375339081154839 - S03.0PAINT CR @ HWY 23 BR @ WILLIS BRANCH WV (LAT 37 53 39 LONG 081 15 48)												
JUL , 1981 22...	1400	7.6	585	8.6	22.5	90	--	22	8.5	75	3.4	116
375415081142839 - S04.0PACKS BR @ HWY 27 BR @ PACKS BRANCH WV (LAT 37 54 15 LONG 081 14 28)												
JUL , 1981 22...	1245	1.3	720	8.7	21.0	88	--	20	9.2	110	5.1	157
380107081211139 - S05.0PAINT CR @ RR BR @ MAHAN WV (LAT 38 01 07 LONG 081 21 11)												
JUL , 1981 23...	0900	24	515	7.9	19.5	190	--	40	21	25	.8	60
380012081252839 - S07.0FIFTEENMILE FK @ HWY 76/1 BR NR DECOTA WV (LAT 38 00 12 LONG 081 25 28)												
JUL , 1981 20...	1110	4.9	975	4.0	21.0	430	.9	82	54	20	.4	0
380101081251039 - S08.0CABIN CR @ RR BR @ DECOTA WV (LAT 38 01 01 LONG 081 25 10)												
JUL , 1981 20...	1200	2.8	1250	7.5	22.0	450	.0	100	48	94	1.9	102

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

375826080455339 - R20.0SEWELL CR @ HWY 60/1 BR @ EAST RAINELLE WV (LAT 37 58 26 LONG 080 45 53)

JUL , 1981 22...	18	3.4	80	.11	1.6	1100	620	480	90	0	90
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380818080530839 - R21.0ANGLINS CR @ HWY 41 BR NR POOL WV (LAT 38 08 18 LONG 080 53 08)

JUL , 1981 20...	11	.6	30	.04	.40	690	500	190	30	10	20
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03191500 R22.0 PETERS CREEK NEAR LOCKWOOD, W. VA. (LAT 38 15 40 LONG 081 01 20)

JUL , 1981 20...	80	6.8	221	.30	5.7	410	300	110	70	0	70
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03193000 S00.5 KANAWHA RIVER AT KANAWHA FALLS, W. VA. (LAT 38 08 20 LONG 081 12 45)

JUL , 1981 20...	20	4.3	94	.13	766	250	210	40	20	--	<10
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380607081145339 - S01.0LOOP CR @ HWY 61 BR @ ROBSON WV (LAT 38 06 07 LONG 081 14 53)

JUL , 1981 22...	210	7.4	458	.62	18.5	340	330	10	40	30	10
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380840081173439 - S02.0ARMSTRONG CR @ HWY 61 BR @ MT CARBON WV (LAT 38 08 40 LONG 081 17 34)

JUL , 1981 23...	200	2.8	339	.46	6.1	160	150	10	80	0	80
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375339081154839 - S03.0PAINT CR @ HWY 23 BR @ WILLIS BRANCH WV (LAT 37 53 39 LONG 081 15 48)

JUL , 1981 22...	120	14	328	.45	6.7	500	460	40	100	0	100
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375415081142839 - S04.0PACKS BR @ HWY 27 BR @ PACKS BRANCH WV (LAT 37 54 15 LONG 081 14 28)

JUL , 1981 22...	170	4.4	430	.58	1.5	490	480	10	30	10	20
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380107081211139 - S05.0PAINT CR @ RR BR @ MAHAN WV (LAT 38 01 07 LONG 081 21 11)

JUL , 1981 23...	170	11	33	.04	2.1	1200	1200	30	240	10	230
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380012081252839 - S07.0FIFTEENMILE FK @ HWY 76/1 BR NR DECOTA WV (LAT 38 00 12 LONG 081 25 28)

JUL , 1981 20...	490	1.2	796	1.0	10.5	1300	200	1100	2000	0	2000
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380101081251039 - S08.0CABIN CR @ RR BR @ DECOTA WV (LAT 38 01 01 LONG 081 25 10)

JUL , 1981 20...	550	2.9	994	1.3	7.5	460	430	30	530	10	520
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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
KANAWHA RIVER BASIN--Continued												
381056081280839 - S09.0CABIN CR @ HWY 79 BR @ DRY BRANCH WV (LAT 38 10 56 LONG 081 28 08)												
JUL , 1981 20...	1315	24	925	6.4	26.0	370	<1.0	74	46	43	1.0	10
381854081320439 - S10.0CAMPBELLS CR @ HWY 73 BR D/S OF COAL FK WV (LAT 38 18 54 LONG 081 32 04)												
JUL , 1981 20...	1420	5.6	580	7.7	26.5	120	.0	27	13	73	2.9	120
383412080182239 - T04.0L SUGAR CR @ HWY 18/3 NR SKELT WV (LAT 38 34 12 LONG 080 18 22)												
JUL , 1981 20...	1745	2.1	31	6.6	24.0	9	.0	2.0	1.0	.5	.1	4
383410080182039 - T05.0SUGAR CR U/S FROM L SUGAR CR NR SKELT WV (LAT 38 34 10 LONG 080 18 20)												
JUL , 1981 20...	1720	7.2	30	7.0	24.0	10	--	2.2	1.1	.4	.1	49
383336080270639 - T08.0GRASSY CR @ HWY 20 BR @ DIANA WV (LAT 38 33 36 LONG 080 27 06)												
JUL , 1981 20...	1300	2.8	67	8.0	26.0	21	--	5.0	2.1	2.1	.2	17
383804080192239 - T10.0L FK HOLLY R D/S FALL RUN NR HACKER VLY WV (LAT 38 38 04 LONG 080 19 22)												
JUL , 1981 20...	1550	4.5	28	7.0	26.0	9	--	2.1	1.0	.6	.1	5
383912080225339 - T11.0LAUREL FK @ HWY 3 @ HACKER VLY WV (LAT 38 39 12 LONG 080 22 53)												
JUL , 1981 20...	1435	2.0	31	7.0	23.5	8	--	2.1	.7	1.3	.2	5
382700080552339 - T19.0BUFFALO CR @ RR B 1000 FT U/S ROBINSN FK WV (LAT 38 27 00 LONG 080 55 23)												
JUL , 1981 21...	1305	31	375	4.4	23.5	140	.5	31	14	4.4	.2	0
03196750 T20.0 BUFFALO CREEK AT CLAY, W. VA. (LAT 38 27 16 LONG 081 04 00)												
JUL , 1981 21...	1110	19	196	5.2	24.0	69	.4	15	7.7	3.3	.2	7
03197000 T23.0ELK RIVER AT QUEEN SHOALS, W. VA. (LAT 38 28 19 LONG 081 17 04)												
JUL , 1981 21...	1550	208	90	7.6	27.0	30	--	7.5	2.7	2.6	.2	17
383137081185539 - T24.0BIG SANDY CR D/S L BLUE CR NR CLENDENIN WV (LAT 38 31 37 LONG 081 18 55)												
JUL , 1981 21...	1550	5.0	170	7.8	25.0	59	--	17	4.1	7.7	.4	51

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

381056081280839 - S09.0CABIN CR @ HWY 79 BR @ DRY BRANCH WV (LAT 38 10 56 LONG 081 28 08)

JUL , 1981 20...	420	6.3	737	1.0	47.8	1000	970	30	1700	0	1700
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381854081320439 - S10.0CAMPBELLS CR @ HWY 73 BR D/S OF COAL FK WV (LAT 38 18 54 LONG 081 32 04)

JUL , 1981 20...	130	23	358	.49	5.4	630	560	70	80	10	70
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383412080182239 - T04.0L SUGAR CR @ HWY 18/3 NR SKELT WV (LAT 38 34 12 LONG 080 18 22)

JUL , 1981 20...	4.7	.6	24	.03	.14	630	570	60	40	30	8
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383410080182039 - T05.0SUGAR CR U/S FROM L SUGAR CR NR SKELT WV (LAT 38 34 10 LONG 080 18 20)

JUL , 1981 20...	7.5	.5	20	.03	.39	1400	1400	50	40	30	10
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383336080270639 - T08.0GRASSY CR @ HWY 20 BR @ DIANA WV (LAT 38 33 36 LONG 080 27 06)

JUL , 1981 20...	8.1	3.2	41	.06	.31	270	240	30	20	10	9
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383804080192239 - T10.0L FK HOLLY R D/S FALL RUN NR HACKER VLY WV (LAT 38 38 04 LONG 080 19 22)

JUL , 1981 20...	6.3	.5	24	.03	.29	1100	1100	50	50	30	20
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383912080225339 - T11.0LAUREL FK @ HWY 3 @ HACKER VLY WV (LAT 38 39 12 LONG 080 22 53)

JUL , 1981 20...	6.7	2.1	24	.03	.13	170	150	20	20	10	6
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382700080552339 - T19.0BUFFALO CR @ RR B 1000 FT U/S ROBINSN FK WV (LAT 38 27 00 LONG 080 55 23)

JUL , 1981 21...	150	2.5	262	.36	22.3	270	100	170	1000	0	1100
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03196750 T20.0 BUFFALO CREEK AT CLAY, W. VA. (LAT 38 27 16 LONG 081 04 00)

JUL , 1981 21...	72	2.6	134	.18	6.8	180	120	60	460	0	460
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03197000 T23.0 ELK RIVER AT QUEEN SHOALS, W. VA. (LAT 38 28 19 LONG 081 17 04)

JUL , 1981 21...	15	3.6	61	.08	34.3	350	300	50	70	40	30
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383137081185539 - T24.0BIG SANDY CR D/S L BLUE CR NR CLENDENIN WV (LAT 38 31 37 LONG 081 18 55)

JUL , 1981 21...	14	9.0	106	.14	1.4	860	770	90	190	50	140
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
KANAWHA RIVER BASIN--Continued												
382145081215239 - T26.0BLUE CR @ HWY 57 BR @ SANDERSON WV (LAT 38 21 45 LONG 081 21 52)												
JUL , 1981 21...	0835	8.2	270	6.9	25.0	94	--	23	8.8	8.0	.4	7
381653081383239 - U01.0DAVIS CR @ HWY 23 @ KAN STATE FOREST WV (LAT 38 16 53 LONG 081 38 32)												
JUL , 1981 20...	0845	1.5	90	7.2	23.0	33	--	6.4	4.1	2.7	.2	18
03198022 U02.5 TRACE FK D/S DRYDEN HOLLOW @ RUTH WV (LAT 38 18 55 LONG 081 43 42)												
JUL , 1981 20...	1030	.41	430	8.0	24.0	140	--	41	9.6	24	.9	87
383333081380539 - U05.0POCOTALICO CR @ RT 21 BR NR ROMANCE WV (LAT 38 33 33 LONG 081 38 05)												
JUL , 1981 23...	1120	2.1	410	7.3	22.5	150	.0	44	8.7	25	.9	124
383328081373239 - U06.0MIDDLE FK @ HWY 42 BR NR ROMANCE WV (LAT 38 33 28 LONG 081 37 32)												
JUL , 1981 23...	1045	3.5	185	7.9	24.0	74	.0	22	4.6	5.6	.3	63
03201000 U07.0 POCATALICO RIVER AT SISSONVILLE, W. VA. (LAT 38 31 35 LONG 081 37 50)												
JUL , 1981 23...	1045	26	340	7.2	23.0	110	.0	32	6.4	24	1.0	78
382723081555439 - U09.0POPLAR FK @ I-64 BR @ MT VERNON WV (LAT 38 27 23 LONG 081 55 54)												
JUL , 1981 21...	1450	.68	305	6.9	25.5	110	<.1	34	5.9	13	.5	104
383718081542839 - U13.018-MILE CR @ HWY 6 BR @ WHITE STAR SCH WV (LAT 38 37 18 LONG 081 54 28)												
JUL , 1981 21...	1345	1.7	230	6.9	26.0	88	.0	25	6.3	9.2	.4	82
384247081525439 - U14.0POPLAR FK @ HWY 35/10 BR @ CAPEHART WV (LAT 38 42 47 LONG 081 52 54)												
JUL , 1981 21...	1150	.29	245	7.8	24.5	98	.0	27	7.4	12	.5	98
384142081511139 - U15.0MUDLICK FK @ HWY 35/10 BR @ ELMWOOD WV (LAT 38 41 42 LONG 081 51 11)												
JUL , 1981 21...	1230	.13	360	6.5	25.0	120	.0	35	8.9	19	.7	98
374645081221839 - V01.0MARSH FK @ HWY 99 BR @ FAIRDALE WV (LAT 37 46 45 LONG 081 22 18)												
JUL , 1981 21...	1310	12	645	8.2	22.0	140	--	31	14	71	2.7	123

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

382145081215239 - T26.0BLUE CR @ HWY 57 BR @ SANDERSON WV (LAT 38 21 45 LONG 081 21 52)

JUL , 1981 21...	89	8.4	206	.28	4.5	640	330	310	480	0	490
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381653081383239 - U01.0DAVIS CR @ HWY 23 @ KAN STATE FOREST WV (LAT 38 16 53 LONG 081 38 32)

JUL , 1981 20...	18	3.1	64	.09	.26	550	390	160	170	10	160
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03198022 U02.5 TRACE FK D/S DRYDEN HOLLOW @ RUTH WV (LAT 38 18 55 LONG 081 43 42)

JUL , 1981 20...	81	21	284	.39	.31	300	250	50	90	10	80
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383333081380539 - U05.0POCOTALICO CR @ RT 21 BR NR ROMANCE WV (LAT 38 33 33 LONG 081 38 05)

JUL , 1981 23...	21	34	220	.30	1.2	720	700	20	240	70	170
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383328081373239 - U06.0MIDDLE FK @ HWY 42 BR NR ROMANCE WV (LAT 38 33 28 LONG 081 37 32)

JUL , 1981 23...	14	3.2	106	.14	1.0	900	860	40	370	10	360
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03201000 U07.0 POCATALICO RIVER AT Sissonville, W. VA. (LAT 38 31 35 LONG 081 37 50)

JUL , 1981 23...	15	45	210	.29	14.7	1100	1100	50	380	150	230
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382723081555439 - U09.0POPLAR FK @ I-64 BR @ MT VERNON WV (LAT 38 27 23 LONG 081 55 54)

JUL , 1981 21...	22	15	170	.23	.31	1500	1500	50	880	40	840
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383718081542839 - U13.018-MILE CR @ HWY 6 BR @ WHITE STAR SCH WV (LAT 38 37 18 LONG 081 54 28)

JUL , 1981 21...	18	7.0	123	.17	.56	690	670	20	310	130	180
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384247081525439 - U14.0POPLAR FK @ HWY 35/10 BR @ CAPEHART WV (LAT 38 42 47 LONG 081 52 54)

JUL , 1981 21...	17	3.7	151	.21	.12	1100	1000	60	490	70	420
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384142081511139 - U15.0MUOLICK FK @ HWY 35/10 BR @ ELMWOOD WV (LAT 38 41 42 LONG 081 51 11)

JUL , 1981 21...	41	16	170	.23	.06	870	860	10	1500	100	1400
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374645081221839 - V01.0MARSH FK @ HWY 99 BR @ FAIRDALE WV (LAT 37 46 45 LONG 081 22 18)

JUL , 1981 21...	150	9.0	377	.51	12.6	520	510	10	200	0	200
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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
KANAWHA RIVER BASIN--Continued												
375809081315839 - V03.0MARSH FK @ HWY 1 BR @ WHITESVILLE WV (LAT 37 58 09 LONG 081 31 58)												
JUL , 1981 21...	1700	42	515	8.9	28.0	130	--	27	14	45	1.8	71
375758081312839 - V04.0CLEAR FK @ HWY 1/21 BR @ LEEVALE WV (LAT 37 57 58 LONG 081 31 28)												
JUL , 1981 21...	1745	14	625	8.8	26.0	240	--	48	29	14	.4	21
380350081371539 - V05.0HOPKINS FK @ HWY 5 BR NR HOPKINS FK WV (LAT 38 03 50 LONG 081 37 15)												
JUL , 1981 21...	1600	11	397	7.9	23.5	150	--	29	20	5.2	.2	41
380516081382139 - V06.5LAUREL CR BLW HOPKINS FK @ HOPKINS FORK WV (LAT 38 05 16 LONG 081 38 21)												
JUL , 1981 21...	1515	1.6	255	7.3	27.0	94	--	18	12	4.1	.2	10
380729081413339 - V07.0DRAWDY CR NR PEYTONA WV (LAT 38 07 29 LONG 081 41 33)												
JUL , 1981 20...	1445	.50	596	6.6	27.5	180	.0	44	18	35	1.1	42
03198550 V10.0BIG COAL RIVER NEAR ALUM CREEK, (LAT 38 15 00 LONG 081 47 54)												
JUL , 1981 20...	1320	113	392	7.5	27.0	110	--	24	13	20	.8	38
375340081492639 - V11.0SPRUCE FK @ HWY 17 BR @ FIVE BLOCK WV (LAT 37 53 40 LONG 081 49 26)												
JUL , 1981 20...	1615	18	1970	8.0	25.0	190	--	43	19	330	11	235
375645081482339 - V12.0SPRUCE LAUREL FK @ RR BR @ CLOTHIER WV (LAT 37 56 45 LONG 081 48 23)												
JUL , 1981 20...	1730	6.2	815	7.8	25.0	130	--	28	14	120	4.6	177
375814081493339 - V13.0HEWITT CR @ PRIVATE BR @ JEFFREY WV (LAT 37 58 14 LONG 081 49 33)												
JUL , 1981 20...	1815	2.3	557	7.2	28.0	200	--	46	20	23	.7	43
374955081375339 - V14.0POND FK @ HWY 85 BR NR ROCK LICK WV (LAT 37 49 55 LONG 081 37 53)												
JUL , 1981 21...	1200	6.1	1170	8.1	23.0	430	--	100	44	77	1.6	75
375715081431039 - V15.0POND FK @ RR @ BOB WHITE WV (LAT 37 57 15 LONG 081 43 10)												
JUL , 1981 21...	1045	22	940	8.2	24.0	320	--	76	31	70	1.7	99

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

375809081315839 - V03.0MARSH FK @ HWY 1 BR @ WHITESVILLE WV (LAT 37 58 09 LONG 081 31 58)

JUL , 1981 21...	140	9.3	343	.47	38.9	290	280	10	30	10	20
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375758081312839 - V04.0CLEAR FK @ HWY 1/21 BR @ LEEVALE WV (LAT 37 57 58 LONG 081 31 28)

JUL , 1981 21...	200	2.9	426	.58	16.1	140	120	20	20	0	20
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380350081371539 - V05.0HOPKINS FK @ HWY 5 BR NR HOPKINS FK WV (LAT 38 03 50 LONG 081 37 15)

JUL , 1981 21...	130	6.5	257	.35	7.8	260	250	10	280	20	260
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380516081382139 - V06.5LAUREL CR BLW HOPKINS FK @ HOPKINS FORK WV (LAT 38 05 16 LONG 081 38 21)

JUL , 1981 21...	87	1.7	165	.22	.71	160	150	10	30	10	20
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380729081413339 - V07.0DRAWDY CR NR PEYTONA WV (LAT 38 07 29 LONG 081 41 33)

JUL , 1981 20...	190	13	400	.54	.54	2000	2000	30	780	40	740
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03198550 V10.0BIG COAL RIVER NEAR ALUM CREEK, (LAT 38 15 00 LONG 081 47 54)

JUL , 1981 20...	98	9.6	214	.29	65.3	570	540	30	80	30	50
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375340081492639 - V11.0SPRUCE FK @ HWY 17 BR @ FIVE BLOCK WV (LAT 37 53 40 LONG 081 49 26)

JUL , 1981 20...	710	12	1240	1.6	60.3	350	340	10	280	0	280
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375645081482339 - V12.0SPRUCE LAUREL FK @ RR BR @ CLOTHIER WV (LAT 37 56 45 LONG 081 48 23)

JUL , 1981 20...	190	4.1	488	.66	8.1	230	220	10	10	0	10
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375814081493339 - V13.0HEWITT CR @ PRIVATE BR @ JEFFREY WV (LAT 37 58 14 LONG 081 49 33)

JUL , 1981 20...	180	9.3	376	.51	2.3	590	580	10	170	20	150
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374955081375339 - V14.0POND FK @ HWY 85 BR NR ROCK LICK WV (LAT 37 49 55 LONG 081 37 53)

JUL , 1981 21...	520	16	949	1.2	15.6	2600	2600	10	1200	420	780
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375715081431039 - V15.0POND FK @ BR @ BOB WHITE WV (LAT 37 57 15 LONG 081 43 10)

JUL , 1981 21...	330	9.7	668	.91	39.7	280	250	30	30	0	30
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
KANAWHA RIVER BASIN--Continued												
375820081423839 - V16.0 WEST FK @ RR BR @ VAN WV (LAT 37 58 20 LONG 081 42 38)												
JUL , 1981 21...	0950	12	518	7.8	23.0	200	--	38	25	16	.5	29
03199400 V17.0 LITTLE COAL RIVER AT JULIAN, W. VA. (LAT 38 09 17 LONG 081 51 10)												
JUL , 1981 20...	1445	82	885	7.6	27.5	180	--	41	19	100	3.2	111
03200500 V19.0 COAL RIVER AT TORNADO, W. VA. (LAT 38 20 20 LONG 081 50 29)												
JUL , 1981 20...	1200	203	537	7.5	29.0	140	--	30	15	45	1.7	59

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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KANAWHA RIVER BASIN--Continued

375820081423839 - V16.0 WEST FK @ RR BR @ VAN WV (LAT 37 58 20 LONG 081 42 38)

JUL , 1981 21...	190	9.7	352	.48	11.5	20	0	20	220	0	230
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03199400 V17.0 LITTLE COAL RIVER AT JULIAN, W. VA. (LAT 38 09 17 LONG 081 51 10)

JUL , 1981 20...	260	12	570	.78	127	670	660	10	80	30	50
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03200500 V19.0 COAL RIVER AT TORNADO, W. VA. (LAT 38 20 20 LONG 081 50 29)

JUL , 1981 20...	150	9.7	327	.44	179	650	640	10	80	20	60
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
371948081181339 - N01.0BLUESTONE R @ HWY 52 BR @ BRAMWELL WV (LAT 37 19 48 LONG 081 18 13)				
JUL , 1981 22...	0850	68	34	6.2
372239081135539 - N02.0WIDEMOUTH CR @ HWY 71/3 BR NR ROCK WV (LAT 37 22 39 LONG 081 13 55)				
JUL , 1981 22...	1115	12	27	.87
03179000 N06.0 BLUESTONE RIVER NEAR PIPESTEM, W. VA. (LAT 37 32 45 LONG 081 00 30)				
JUL , 1981 22...	1500	168	26	12
03180500 P02.5 GREENBRIER RIVER AT DURBIN, W. VA. (LAT 38 32 35 LONG 079 50 00)				
JUL , 1981 22...	1800	46	--	--
03182500 P04.5 GREENBRIER RIVER AT BUCKEYE, W. VA. (LAT 38 11 15 LONG 080 07 50)				
JUL , 1981 22...	1500	164	--	--
03184000 P06.0 GREENBRIER RIVER AT HILLODALE, W. VA. (LAT 37 38 25 LONG 080 48 20)				
JUL , 1981 22...	1620	265	32	23
03184500 P07.0 NEW RIVER AT HINTON, W. VA. (LAT 37 40 15 LONG 080 53 40)				
JUL , 1981 22...	1815	2600	2	14
374719080530239 - 002.0LICK CR @ PRIVATE BR NR SANDSTONE WV (LAT 37 47 19 LONG 080 53 02)				
JUL , 1981 23...	1010	.88	4	.01
375008080522339 - 003.0MEADOW CR @ HWY 7/1 BR @ CLAYPOOL WV (LAT 37 50 08 LONG 080 52 23)				
JUL , 1981 23...	1155	2.4	15	.10
374237081114039 - 006.0PINEY CR @ HWY 25 BR NR CRAB ORCHARD WV (LAT 37 42 37 LONG 081 11 40)				
JUL , 1981 22...	0900	19	5	.27
03185000 Q07.0 PINEY CREEK AT RALEIGH, W. VA. (LAT 37 45 40 LONG 081 09 50)				
JUL , 1981 22...	1045	28	33	2.5

OHIO RIVER BASIN

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
380552081091639 - Q09.0LAUREL CR @ RR IN BECKWITH WV (LAT 38 05 52 LONG 081 09 16)				
JUL , 1981				
22...	1545	3.4	3	.03
03187500 R06.0 CRANBERRY RIVER NEAR RICHWOOD, W. VA. (LAT 38 17 45 LONG 080 31 40)				
JUL , 1981				
21...	1430	28	2	.15
381318080315939 - R09.0CHERRY R @ HWY 39/18 BR IN RICHWOOD WV (LAT 38 13 18 LONG 080 31 59)				
JUL , 1981				
22...	0830	25	9	.62
381315080352739 - R10.0LAUREL CR @ HWY 39/26 BR @ FENWICK WV (LAT 38 13 15 LONG 080 35 27)				
JUL , 1981				
23...	0815	12	1	.03
381942080395639 - R12.0BIG BEAVER CR @ HWY 5 BR @ CRAIGSVILLE WV (LAT 38 19 42 LONG 080 39 56)				
JUL , 1981				
21...	1350	9.6	14	.36
382308080482939 - R13.0BRUSHY FK @ HWY 19 BR @ HOOKERVILLE WV (LAT 38 23 08 LONG 080 48 29)				
JUL , 1981				
21...	1740	2.7	81	.59
381839080500939 - R14.0MUDDLETY CR @ HWY 41 BR @ SUMMERSVILLE WV (LAT 38 18 39 LONG 080 50 09)				
JUL , 1981				
20...	1620	22	12	.72
375449080402639 - R16.0MEADOW R @ HWY 60/32 BR NR MEADOW BLUFF WV (LAT 37 54 49 LONG 080 40 26)				
JUL , 1981				
23...	1030	.00	12	.00
375911080400539 - R18.0BIG CLEAR CR @ HWY 1/2 BR @ KESSLER WV (LAT 37 59 11 LONG 080 40 05)				
JUL , 1981				
20...	1820	18	5	.25
03189890 R19.0 MEADOW RIVER AT MCROSS WV (LAT 37 59 37 LONG 080 44 53)				
JUL , 1981				
20...	2030	30	--	--

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
375826080455339 - R20.0SEWELL CR @ HWY 60/1 BR @ EAST RAINELLE WV (LAT 37 58 26 LONG 080 45 53)				
JUL , 1981 22...	2045	7.5	9	.18
380818080530839 - R21.0ANGLINS CR @ HWY 41 BR NR POOL WV (LAT 38 08 18 LONG 080 53 08)				
JUL , 1981 20...	1430	4.9	29	.38
03191500 R22.0 PETERS CREEK NEAR LOCKWOOD, W. VA. (LAT 38 15 40 LONG 081 01 20)				
JUL , 1981 20...	1000	9.7	--	--
03193000 S00.5 KANAWHA RIVER AT KANAWHA FALLS, W. VA. (LAT 38 08 20 LONG 081 12 45)				
JUL , 1981 20...	0905	3020	--	--
380607081145339 - S01.0LOOP CR @ HWY 61 BR @ ROBSON WV (LAT 38 06 07 LONG 081 14 53)				
JUL , 1981 22...	1720	15	8	.32
380840081173439 - S02.0ARMSTRONG CR @ HWY 61 BR @ MT CARBON WV (LAT 38 08 40 LONG 081 17 34)				
JUL , 1981 23...	1110	6.7	4	.07
375339081154839 - S03.0PAINT CR @ HWY 23 BR @ WILLIS BRANCH WV (LAT 37 53 39 LONG 081 15 48)				
JUL , 1981 22...	1400	7.6	6	.12
375415081142839 - S04.0PACKS BR @ HWY 27 BR @ PACKS BRANCH WV (LAT 37 54 15 LONG 081 14 28)				
JUL , 1981 22...	1245	1.3	9	.03
380107081211139 - S05.0PAINT CR @ RR BR @ MAHAN WV (LAT 38 01 07 LONG 081 21 11)				
JUL , 1981 23...	0900	24	34	2.2
380012081252839 - S07.0FIFTEENMILE FK @ HWY 76/1 BR NR DECOTA WV (LAT 38 00 12 LONG 081 25 28)				
JUL , 1981 20...	1110	4.9	35	.46
380101081251039 - S08.0CABIN CR @ RR BR @ DECOTA WV (LAT 38 01 01 LONG 081 25 10)				
JUL , 1981 20...	1200	2.8	12	.09

OHIO RIVER BASIN

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
381056081280839 - S09.0CABIN CR @ HWY 79 BR @ DRY BRANCH WV (LAT 38 10 56 LONG 081 28 08)				
JUL , 1981 20...	1315	24	12	.78
381854081320439 - S10.0CAMPBELLS CR @ HWY 73 BR D/S OF COAL FK WV (LAT 38 18 54 LONG 081 32 04)				
JUL , 1981 20...	1420	5.6	9	.14
383412080182239 - T04.0L SUGAR CR @ HWY 18/3 NR SKELT WV (LAT 38 34 12 LONG 080 18 22)				
JUL , 1981 20...	1745	2.1	25	.14
383410080182039 - T05.0SUGAR CR U/S FROM L SUGAR CR NR SKELT WV (LAT 38 34 10 LONG 080 18 20)				
JUL , 1981 20...	1720	7.2	37	.72
383336080270639 - T08.0GRASSY CR @ HWY 20 BR @ DIANA WV (LAT 38 33 36 LONG 080 27 06)				
JUL , 1981 20...	1300	2.8	8	.06
383804080192239 - T10.0L FK HOLLY R D/S FALL RUN NR HACKER VLY WV (LAT 38 38 04 LONG 080 19 22)				
JUL , 1981 20...	1550	4.5	59	.72
383912080225339 - T11.0LAUREL FK @ HWY 3 @ HACKER VLY WV (LAT 38 39 12 LONG 080 22 53)				
JUL , 1981 20...	1435	2.0	3	.02
382700080552339 - T19.0BUFFALO CR @ RR B 1000 FT U/S ROBINSN FK WV (LAT 38 27 00 LONG 080 55 23)				
JUL , 1981 21...	1305	31	3	.26
03196750 T20.0 BUFFALO CREEK AT CLAY, W. VA. (LAT 38 27 16 LONG 081 04 00)				
JUL , 1981 21...	1110	19	3	.15
03197000 T23.0 ELK RIVER AT QUEEN SHOALS, W. VA. (LAT 38 28 19 LONG 081 17 04)				
JUL , 1981 21...	1550	208	10	5.6
383137081185539 - T24.0BIG SANDY CR D/S L BLUE CR NR CLENDENIN WV (LAT 38 31 37 LONG 081 18 55)				
JUL , 1981 21...	1550	5.0	18	.24

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
382145081215239 - T26.0BLUE CR @ HWY 57 BR @ SANDERSON WV (LAT 38 21 45 LONG 081 21 52)				
JUL , 1981				
21...	0835	8.2	1	.02
381653081383239 - U01.0DAVIS CR @ HWY 23 @ KAN STATE FOREST WV (LAT 38 16 53 LONG 081 38 32)				
JUL , 1981				
20...	0845	1.5	4	.02
03198022 U02.5 TRACE FK D/S DRYDEN HOLLOW @ RUTH WV (LAT 38 18 55 LONG 081 43 42)				
JUL , 1981				
20...	1030	.41	3	.00
383333081380539 - U05.0POCOTALICO CR @ RT 21 BR NR ROMANCE WV (LAT 38 33 33 LONG 081 38 05)				
JUL , 1981				
23...	1120	2.1	17	.10
383328081373239 - U06.0MIDDLE FK @ HWY 42 BR NR ROMANCE WV (LAT 38 33 28 LONG 081 37 32)				
JUL , 1981				
23...	1045	3.5	31	.29
03201000 U07.0 POCATALICO RIVER AT SISSONVILLE, W. VA. (LAT 38 31 35 LONG 081 37 50)				
JUL , 1981				
23...	1045	26	39	2.7
382723081555439 - U09.0POPLAR FK @ I-64 BR @ MT VERNON WV (LAT 38 27 23 LONG 081 55 54)				
JUL , 1981				
21...	1450	.68	34	.06
383718081542839 - U13.018-MILE CR @ HWY 6 BR @ WHITE STAR SCH WV (LAT 38 37 18 LONG 081 54 28)				
JUL , 1981				
21...	1345	1.7	11	.05
384247081525439 - U14.0POPLAR FK @ HWY 35/10 BR @ CAPEHART WV (LAT 38 42 47 LONG 081 52 54)				
JUL , 1981				
21...	1150	.29	11	.01
384142081511139 - U15.0MUDLICK FK @ HWY 35/10 BR @ ELMWOOD WV (LAT 38 41 42 LONG 081 51 11)				
JUL , 1981				
21...	1230	.13	19	.01
374645081221839 - V01.0MARSH FK @ HWY 99 BR @ FAIRDALE WV (LAT 37 46 45 LONG 081 22 18)				
JUL , 1981				
21...	1310	12	4	.13

OHIO RIVER BASIN

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
375809081315839 - V03.0MARSH FK @ HWY 1 BR @ WHITESVILLE WV (LAT 37 58 09 LONG 081 31 58)				
JUL , 1981				
21...	1700	42	4	.45
375758081312839 - V04.0CLEAR FK @ HWY 1/21 BR @ LEEVALE WV (LAT 37 57 58 LONG 081 31 28)				
JUL , 1981				
21...	1745	14	1	.04
380350081371539 - V05.0HOPKINS FK @ HWY 5 BR NR HOPKINS FK WV (LAT 38 03 50 LONG 081 37 15)				
JUL , 1981				
21...	1600	11	1	.03
380516081382139 - V06.5LAUREL CR BLW HOPKINS FK @ HOPKINS FORK WV (LAT 38 05 16 LONG 081 38 21)				
JUL , 1981				
21...	1515	1.6	1	.00
380729081413339 - V07.0DRAWDY CR NR PEYTONA WV (LAT 38 07 29 LONG 081 41 33)				
JUL , 1981				
20...	1445	.50	--	--
03198550 V10.0 BIG COAL RIVER NEAR ALUM CREEK, (LAT 38 15 00 LONG 081 47 54)				
JUL , 1981				
20...	1320	113	--	--
375340081492639 - V11.0SPRUCE FK @ HWY 17 BR @ FIVE BLOCK WV (LAT 37 53 40 LONG 081 49 26)				
JUL , 1981				
20...	1615	18	11	.53
375645081482339 - V12.0SPRUCE LAUREL FK @ RR BR @ CLOTHIER WV (LAT 37 56 45 LONG 081 48 23)				
JUL , 1981				
20...	1730	6.2	3	.05
375814081493339 - V13.0HEWITT CR @ PRIVATE BR @ JEFFREY WV (LAT 37 58 14 LONG 081 49 33)				
JUL , 1981				
20...	1815	2.3	6	.04
374955081375339 - V14.0POND FK @ HWY 85 BR NR ROCK LICK WV (LAT 37 49 55 LONG 081 37 53)				
JUL , 1981				
21...	1200	6.1	30	.49
375715081431039 - V15.0POND FK @ BR @ BOB WHITE WV (LAT 37 57 15 LONG 081 43 10)				
JUL , 1981				
21...	1045	22	3	.18

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY)
375820081423839 - V16.0 WEST FK @ RR BR @ VAN WV (LAT 37 58 20 LONG 081 42 38)				
JUL , 1981				
21...	0950	12	2	.07
03199400 V17.0 LITTLE COAL RIVER AT JULIAN, W. VA. (LAT 38 09 17 LONG 081 51 10)				
JUL , 1981				
20...	1445	82	--	--
03200500 V19.0 COAL RIVER AT TORNADO, W. VA. (LAT 38 20 20 LONG 081 50 29)				
JUL , 1981				
20...	1200	203	--	--



Figure 7.--Location of sampling sites in the Guyandotte River basin.

Table 6.--Name, location, and drainage area for sites in the Guyandotte River basin.

Local No.	Name	County	Drainage Area (Mi ²)	Page No.	Local No.	Name	County	Drain. Area (Mi ²)	Page No.
W01.0	Winding Gulf	Raleigh	18.9	86,92	W19.0	Buffalo Creek	Logan	21.6	88,93
W02.0	Stonecoal Creek	"	33.1	"	W20.0	Buffalo Creek	"	43.7	"
W04.0	Slab Fork	Wyoming	32.7	"	W21.0	Rum Creek	"	17.6	"
W05.0	Barkers Creek	"	36.4	"	W24.0	Island Creek	"	58.5	"
W08.0	Indian Creek	"	41.3	"	W25.0	Copperas Mine Fork	"	45.4	"
W09.0	Guyandotte River	"	308.	"	W26.0	Guyandotte River	"	836.	"
W10.0	Clear Fork	"	24.2	"	X01.0	Crawley Creek	"	14.4	"
W11.0	Laurel Fork	"	19.2	"	X02.0	Big Creek	"	28.1	"
W12.0	Laurel Fork	"	52.8	"	X03.0	Big Harts Creek	"	28.1	90,94
W13.0	Clear Fork	"	123.	"	X05.0	Guyandotte River	Lincoln	1,226.	"
W14.0	Big Cub Creek	"	16.6	"	X07.0	Mud River	"	81.2	"
W15.0	Little Huff Creek	"	40.9	88,93	X09.0	Trace Fork	Putnam	32.6	"
W16.0	Gilbert Creek	Mingo	26.7	"	X10.0	Mud River	Cabell	256.	"
W18.0	Huff Creek	Logan	45.7	"					

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
GUYANDOTTE RIVER BASIN												
373809081185139 - W01.0WINDING GULF @ HWY 16/18 BR @ HELEN WV (LAT 37 38 09 LONG 081 18 51)												
JUL , 1981 22...	0950	14	700	8.4	18.0	170	--	39	18	79	2.6	209
373609081191839 - W02.0STONECOAL CR @ HWY 33 BR @ STONECOAL WV (LAT 37 36 09 LONG 081 19 18)												
JUL , 1981 22...	1030	36	540	8.4	18.0	96	--	22	10	72	3.2	137
373601081224539 - W04.0SLAB FK @ HWY 54 BR @ MULLENS WV (LAT 37 36 01 LONG 081 22 45)												
JUL , 1981 23...	1350	12	660	8.3	25.0	140	--	27	17	89	3.3	134
373322081240339 - W05.0BARKERS CR @ BR IN TRALEE WV (LAT 37 33 22 LONG 081 24 03)												
JUL , 1981 22...	1125	55	540	8.5	20.0	98	--	25	8.6	80	3.5	157
03202490 W08.0 INDIAN CREEK AT FANROCK W. VA. (LAT 37 34 00 LONG 081 39 10)												
JUL , 1981 22...	1400	60	89	7.4	23.0	28	--	6.8	2.6	4.8	.4	19
03202400 W09.0 GUYANDOTTE RIVER NEAR BAILEYSVILLE, W. VA. (LAT 37 36 15 LONG 081 38 44)												
JUL , 1981 22...	1315	330	495	8.2	24.0	99	--	24	9.5	55	2.4	118
374246081353139 - W10.0CLEAR FK @ PRIVATE BR @ TONEY FORK WV (LAT 37 42 46 LONG 081 35 31)												
JUL , 1981 23...	0930	6.0	900	7.4	19.0	400	--	85	46	20	.4	9
374122081290339 - W11.0LAUREL FK @ HWY 5 BR @ RAVENCLIFF WV (LAT 37 41 22 LONG 081 29 03)												
JUL , 1981 23...	1150	.90	560	8.0	22.0	160	--	41	14	45	1.5	78
374001081360539 - W12.0LAUREL FK @ HWY 9/9 BR @ MATHENY WV (LAT 37 40 01 LONG 081 36 05)												
JUL , 1981 23...	1050	11	420	7.6	23.0	100	--	26	8.6	41	1.8	61
03202750 W13.0 CLEAR FORK AT CLEAR FORK WV (LAT 37 37 23 LONG 081 42 27)												
JUL , 1981 22...	1730	28	570	8.4	26.0	220	--	45	25	24	.7	26
373702081472435 - W14.0BIG CUB CR @ RR BR NR GUYAN WV (LAT 37 37 02 LONG 081 47 24)												
JUL , 1981 22...	1615	2.9	605	9.3	28.0	240	--	55	26	22	.6	47

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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GUYANDOTTE RIVER BASIN--Continued

373809081185139 - W01.0WINDING GULF @ HWY 16/18 BR @ HELEN WV (LAT 37 38 09 LONG 081 18 51)

JUL , 1981 22...	140	4.8	433	.59	16.4	390	--	<10	160	20	140
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373609081191839 - W02.0STONECOAL CR @ HWY 33 BR @ STONECOAL WV (LAT 37 36 09 LONG 081 19 18)

JUL , 1981 22...	110	3.5	319	.43	31.0	460	370	90	70	10	60
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373601081224539 - W04.0SLAB FK @ HWY 54 BR @ MULLENS WV (LAT 37 36 01 LONG 081 22 45)

JUL , 1981 23...	180	5.6	428	.58	14.2	500	--	<10	460	30	430
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373322081240339 - W05.0BARKERS CR @ BR IN TRALEE WV (LAT 37 33 22 LONG 081 24 03)

JUL , 1981 22...	87	6.8	331	.45	49.2	930	880	50	90	40	50
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03202490 W08.0 INDIAN CREEK AT FANROCK W. VA. (LAT 37 34 00 LONG 081 39 10)

JUL , 1981 22...	16	3.1	64	.09	10.4	11000	11000	60	250	220	30
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03202400 W09.0 GUYANDOTTE RIVER NEAR BAILEYSVILLE, W. VA. (LAT 37 36 15 LONG 081 38 44)

JUL , 1981 22...	100	5.1	302	.41	269	1300	1300	20	110	60	50
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374246081353139 - W10.0CLEAR FK @ PRIVATE BR @ TONEY FORK WV (LAT 37 42 46 LONG 081 35 31)

JUL , 1981 23...	410	2.6	680	.92	11.0	160	150	10	1100	0	1100
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374122081290339 - W11.0LAUREL FK @ HWY 5 BR @ RAVENCLIFF WV (LAT 37 41 22 LONG 081 29 03)

JUL , 1981 23...	150	17	367	.50	.89	1000	980	20	420	40	380
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374001081360539 - W12.0LAUREL FK @ HWY 9/9 BR @ MATHENY WV (LAT 37 40 01 LONG 081 36 05)

JUL , 1981 23...	100	14	269	.37	8.0	620	510	110	130	20	110
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03202750 W13.0 CLEAR FORK AT CLEAR FORK WV (LAT 37 37 23 LONG 081 42 27)

JUL , 1981 22...	200	9.4	413	.56	31.2	400	390	10	120	20	100
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373702081472439 - W14.0BIG CUB CR @ RR BR NR GUYAN WV (LAT 37 37 02 LONG 081 47 24)

JUL , 1981 22...	180	5.9	465	.63	3.6	160	150	<10	40	30	9
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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
GUYANDOTTE RIVER BASIN--Continued												
373539081494339 - W15.0L HUFF CR @ U S 52 BR NR JUSTICE WV (LAT 37 35 39 LONG 081 49 43)												
JUL , 1981 22...	1505	41	185	7.7	25.0	65	--	16	6.0	6.5	.4	26
373707081525439 - W16.0GILBERT CR @ BR TO HIGH SCHOOL @ GILBERT WV (LAT 37 37 07 LONG 081 52 54)												
JUL , 1981 21...	1200	7.2	350	8.0	25.0	130	.0	29	14	12	.5	48
374350081501639 - W18.0HUFF CR @ HWY 10/10 BR @ MALLORY WV (LAT 37 43 50 LONG 081 50 16)												
JUL , 1981 21...	1100	13	290	7.1	23.0	100	.0	23	11	13	.6	43
374755081454839 - W19.0BUFFALO CR @ HWY 16 BY-PASS BR @ CRITES WV (LAT 37 47 55 LONG 081 45 48)												
JUL , 1981 21...	0930	9.9	740	7.9	21.0	270	.0	59	30	48	1.3	106
374521081513639 - W20.0BUFFALO CR @ HWY 16/5 BR @ KISTLER WV (LAT 37 45 21 LONG 081 51 36)												
JUL , 1981 21...	0830	31	720	7.8	22.0	240	.0	53	26	56	1.6	112
374833081550239 - W21.0RUM CR @ HWY 14/1 BR @ DEHUE WV (LAT 37 48 33 LONG 081 55 02)												
JUL , 1981 21...	0730	5.4	1100	7.8	21.0	250	.0	61	24	190	5.2	161
375041082003639 - W24.0ISLAND CR @ HWY 119 BR @ MT GAY WV (LAT 37 50 41 LONG 082 00 36)												
JUL , 1981 20...	1600	36	1100	7.4	23.0	230	.0	56	21	170	4.9	200
375044082005239 - W25.0COPPERAS MINE FK @ 119/14 BR @ MT GAY WV (LAT 37 50 44 LONG 082 00 52)												
JUL , 1981 20...	1500	12	950	4.6	26.0	320	--	72	34	48	1.2	3
03203600 W26.0 GUYANDOTTE RIVER AT LOGAN, W. VA. (LAT 37 50 34 LONG 081 58 34)												
JUL , 1981 20...	1700	375	420	8.6	28.0	110	.0	26	12	38	1.5	77
375745082025739 - X01.0CRAWLEY CR @ HWY 3/4 BR NR CHAPMANVILLE WV (LAT 37 57 45 LONG 082 02 57)												
JUL , 1981 20...	1230	3.8	850	7.5	25.0	320	.0	74	32	41	1.0	59
380033082010539 - X02.0BIG CR @ HWY 2 BR NR BIG CREEK WV (LAT 38 00 33 LONG 082 01 05)												
JUL , 1981 20...	1030	2.8	420	6.6	24.0	160	<1.0	34	19	20	.7	38

OHIO RIVER BASIN

89

DATE	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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GUYANDOTTE RIVER BASIN--Continued

373539081494339 - W15.0L HUFF CR @ U S 52 BR NR JUSTICE WV (LAT 37 35 39 LONG 081 49 43)

JUL , 1981 22...	39	4.2	134	.18	14.9	12000	12000	60	280	250	30
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373707081525439 - W16.0GILBERT CR @ BR TO HIGH SCHOOL @ GILBERT WV (LAT 37 37 07 LONG 081 52 54)

JUL , 1981 21...	93	8.9	245	.33	4.7	30	0	30	50	0	50
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374350081501639 - W18.0HUFF CR @ HWY 10/10 BR @ MALLORY WV (LAT 37 43 50 LONG 081 50 16)

JUL , 1981 21...	70	7.5	188	.26	6.6	270	250	20	30	10	20
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374755081454839 - W19.0BUFFALO CR @ HWY 16 BY-PASS BR @ CRITES WV (LAT 37 47 55 LONG 081 45 48)

JUL , 1981 21...	200	6.7	530	.72	14.2	150	140	10	400	0	410
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374521081513639 - W20.0BUFFALO CR @ HWY 16/5 BR @ KISTLER WV (LAT 37 45 21 LONG 081 51 36)

JUL , 1981 21...	180	6.7	493	.67	41.3	240	--	<10	190	10	180
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374833081550239 - W21.0RUM CR @ HWY 14/1 BR @ DEHUE WV (LAT 37 48 33 LONG 081 55 02)

JUL , 1981 21...	410	26	867	1.1	12.6	500	470	30	60	20	40
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375041082003639 - W24.0ISLAND CR @ HWY 119 BR @ MT GAY WV (LAT 37 50 41 LONG 082 00 36)

JUL , 1981 20...	310	22	740	1.0	71.9	2100	2100	20	310	0	310
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375044082005239 - W25.0COPPERAS MINE FK @ 119/14 BR @ MT GAY WV (LAT 37 50 44 LONG 082 00 52)

JUL , 1981 20...	400	11	706	.96	22.9	3900	3400	470	1900	0	1900
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03203600 W26.0 GUYANDOTTE RIVER AT LOGAN, W. VA. (LAT 37 50 34 LONG 081 58 34)

JUL , 1981 20...	110	8.3	263	.36	266	280	250	30	40	20	20
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375745082025739 - X01.0CRAWLEY CR @ HWY 3/4 BR NR CHAPMANVILLE WV (LAT 37 57 45 LONG 082 02 57)

JUL , 1981 20...	320	7.3	633	.86	6.4	510	440	70	180	10	170
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380033082010539 - X02.0BIG CR @ HWY 2 BR NR BIG CREEK WV (LAT 38 00 33 LONG 082 01 05)

JUL , 1981 20...	130	14	281	.38	2.1	690	430	260	430	0	450
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
GUYANDOTTE RIVER BASIN--Continued												
375840082083839 - X03.0BIG HARTS CR @ HWY 3 BR NR SHIVELY WV (LAT 37 58 40 LONG 082 08 38)												
JUL , 1981 20...	1330	3.3	185	7.1	26.0	63	.0	16	5.7	10	.5	51
03204000 X05.0 GUYANDOTTE RIVER AT BRANCHLAND, W. VA. (LAT 38 13 15 LONG 082 12 10)												
JUL , 1981 22...	1000	449	520	7.4	25.0	140	.0	31	14	56	2.1	82
381319082064839 - X07.0MUD R @ HWY 7 BR @ MYRA WV (LAT 38 13 19 LONG 082 06 48)												
JUL , 1981 22...	1120	2.7	120	7.0	23.0	42	.0	9.9	4.3	3.8	.3	42
381956081583839 - X09.0TRACE FK @ HWY 37 BR NR MT MORIAH WV (LAT 38 19 56 LONG 081 58 38)												
JUL , 1981 22...	1320	2.4	150	7.2	24.5	84	.0	25	5.2	6.7	.3	79
03204500 X10.0 MUD RIVER NEAR MILTON, W. VA. (LAT 38 23 15 LONG 082 06 46)												
JUL , 1981 22...	1230	10	180	7.1	23.5	66	.0	18	5.1	9.1	.5	56

OHIO RIVER BASIN

91

DATE	SULFATE DIS- SOLVED (MG/L) AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS) PER AC-FT)	SOLIDS, DIS- SOLVED (TONS) PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L) AS FE)	IRON, SUS- PENED RECCV- ERABLE (UG/L) AS FE)	IRON, DIS- SOLVED (UG/L) AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L) AS MN)	MANGA- NESE, SUS- PENED RECOV. (UG/L) AS MN)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN)
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GUYANDOTTE RIVER BASIN--Continued

375840082083839 - X03.0BIG HARTS CR @ HWY 3 BR NR SHIVELY WV (LAT 37 58 40 LONG 082 08 38)

JUL , 1981 20...	17	10	111	.15	.99	790	470	320	90	0	90
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03204000 X05.0 GUYANDOTTE RIVER AT BRANCHLAND, W. VA. (LAT 38 13 15 LONG 082 12 10)

JUL , 1981 22...	130	16	314	.43	381	470	450	20	70	60	10
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381319082064839 - X07.0MUD R @ HWY 7 BR @ MYRA WV (LAT 38 13 19 LONG 082 06 48)

JUL , 1981 22...	11	3.9	74	.10	.54	1100	710	390	430	10	420
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381956081583839 - X09.0TRACE FK @ HWY 37 BR NR MT MORIAH WV (LAT 38 19 56 LONG 081 58 38)

JUL , 1981 22...	16	6.3	126	.17	.82	2200	2100	60	920	110	810
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03204500 X10.0 MUD RIVER NEAR MILTON, W. VA. (LAT 38 23 15 LONG 082 06 46)

JUL , 1981 22...	17	9.2	104	.14	2.8	830	750	80	240	30	210
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
373809081185139 - W01.0 WINDING GULF @ HWY 16/18 BR @ HELEN WV (LAT 37 38 09 LONG 081 18 51)				
JUL , 1981 22...	0950	14	21	.79
373609081191839 - W02.0 STONECOAL CR @ HWY 33 BR @ STONECOAL WV (LAT 37 36 09 LONG 081 19 18)				
JUL , 1981 22...	1030	36	15	1.5
373601081224539 - W04.0 SLAB FK @ HWY 54 BR @ MULLENS WV (LAT 37 36 01 LONG 081 22 45)				
JUL , 1981 23...	1350	12	2	.07
373322081240339 - W05.0 BARKERS CR @ BR IN TRALEE WV (LAT 37 33 22 LONG 081 24 03)				
JUL , 1981 22...	1125	55	26	3.9
03202490 W08.0 INDIAN CREEK AT FANROCK W. VA. (LAT 37 34 00 LONG 081 39 10)				
JUL , 1981 22...	1400	60	460	75
03202400 W09.0 GUYANDOTTE RIVER NEAR BAILEYSVILLE, W. VA. (LAT 37 36 15 LONG 081 38 44)				
JUL , 1981 22...	1315	330	66	59
374246081353139 - W10.0 CLEAR FK @ PRIVATE BR @ TONEY FORK WV (LAT 37 42 46 LONG 081 35 31)				
JUL , 1981 23...	0930	6.0	3	.05
374122081290339 - W11.0 LAUREL FK @ HWY 5 BR @ RAVENCLIFF WV (LAT 37 41 22 LONG 081 29 03)				
JUL , 1981 23...	1150	.90	13	.03
374001081360539 - W12.0 LAUREL FK @ HWY 9/9 BR @ MATHENY WV (LAT 37 40 01 LONG 081 36 05)				
JUL , 1981 23...	1050	11	6	.18
03202750 W13.0 CLEAR FORK AT CLEAR FORK WV (LAT 37 37 23 LONG 081 42 27)				
JUL , 1981 22...	1730	28	2	.15
373702081472439 - W14.0 BIG CUB CR @ RR BR NR GUYAN WV (LAT 37 37 02 LONG 081 47 24)				
JUL , 1981 22...	1615	2.9	4	.03

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
373539081494339 - W15.0L HUFF CR @ U S 52 BR NR JUSTICE WV (LAT 37 35 39 LONG 081 49 43)				
JUL , 1981				
22...	1505	41	267	30
373707081525439 - W16.0GILBERT CR @ BR TO HIGH SCHOOL @ GILBERT WV (LAT 37 37 07 LONG 081 52 54)				
JUL , 1981				
21...	1200	7.2	1	.02
374350081501639 - W18.0HUFF CR @ HWY 10/10 BR @ MALLORY WV (LAT 37 43 50 LONG 081 50 16)				
JUL , 1981				
21...	1100	13	3	.11
374755081454839 - W19.0BUFFALO CR @ HWY 16 BY-PASS BR @ CRITES WV (LAT 37 47 55 LONG 081 45 48)				
JUL , 1981				
21...	0930	9.9	1	.03
374521081513639 - W20.0BUFFALO CR @ HWY 16/5 BR @ KISTLER WV (LAT 37 45 21 LONG 081 51 36)				
JUL , 1981				
21...	0830	31	2	.17
374833081550239 - W21.0RUM CR @ HWY 14/1 BR @ DEHUE WV (LAT 37 48 33 LONG 081 55 02)				
JUL , 1981				
21...	0730	5.4	13	.19
375041082003639 - W24.0ISLAND CR @ HWY 119 BR @ MT GAY WV (LAT 37 50 41 LONG 082 00 36)				
JUL , 1981				
20...	1600	36	12	1.2
375044082005239 - W25.0COPPERAS MINE FK @ 119/14 BR @ MT GAY WV (LAT 37 50 44 LONG 082 00 52)				
JUL , 1981				
20...	1500	12	23	.75
03203600 W26.0 GUYANDOTTE RIVER AT LOGAN, W. VA. (LAT 37 50 34 LONG 081 58 34)				
JUL , 1981				
20...	1700	375	43	44
375745082025739 - X01.0CRAWLEY CR @ HWY 3/4 BR NR CHAPMANVILLE WV (LAT 37 57 45 LONG 082 02 57)				
JUL , 1981				
20...	1230	3.8	2	.02
380033082010539 - X02.0BIG CR @ HWY 2 BR NR BIG CREEK WV (LAT 38 00 33 LONG 082 01 05)				
JUL , 1981				
20...	1030	2.8	12	.09

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
375840082083839 - X03.0BIG HARTS CR @ HWY 3 BR NR SHIVELY WV (LAT 37 58 40 LONG 082 08 38)				
JUL , 1981 20...	1330	3.3	8	.07
03204000 X05.0 GUYANDOTTE RIVER AT BRANCHLAND, W. VA. (LAT 38 13 15 LONG 082 12 10)				
JUL , 1981 22...	1000	449	18	22
381319082064839 - X07.0MUD R @ HWY 7 BR @ MYRA WV (LAT 38 13 19 LONG 082 06 48)				
JUL , 1981 22...	1120	2.7	9	.07
381956081583839 - X09.0TRACE FK @ HWY 37 BR NR MT MORIAH WV (LAT 38 19 56 LONG 081 58 38)				
JUL , 1981 22...	1320	2.4	28	.18
03204500 X10.0 MUD RIVER NEAR MILTON, W. VA. (LAT 38 23 15 LONG 082 06 46)				
JUL , 1981 22...	1230	10	--	--

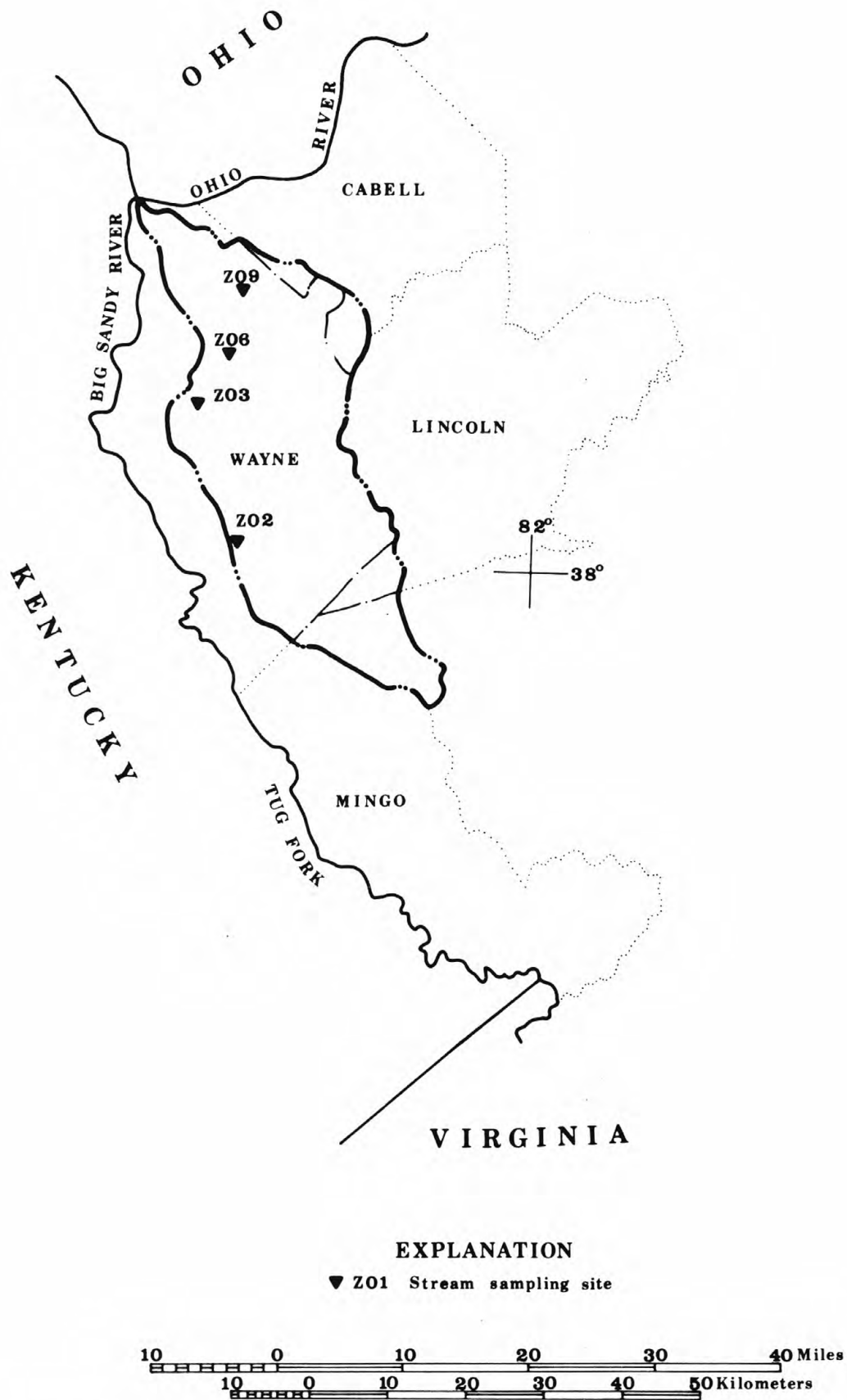


Figure 8.--Location of sampling sites in the Twelvepole Creek basin.

Table 7.--Name, location, and drainage area for sites in the Twelvepole Creek basin.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.
Z02.0	W Fk Twelvepole Creek	Wayne	65.1	98,101
Z03.0	W Fk Twelvepole Creek	"	108.	"
Z06.0	Twelvepole Creek	"	300.	"
Z09.0	Beech Fork	"	80.4	"

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
TWELVEPOLE CREEK BASIN												
38012608225539 - Z02.0W FK TWELVEPOLE CR @ HWY 44 BR @ DUNLOW WV (LAT 38 01 26 LONG 082 25 55)												
JUL , 1981 22...	0930	3.7	125	7.5	23.0	50	.0	11	5.4	8.1	.5	41
03206980 Z03.0 WEST FORK TWELVEPOLE CREEK ABOVE WAYNE @ ECHO WV (LAT 38 10 52 LONG 082 28 33)												
JUL , 1981 22...	1600	13	140	7.1	23.5	52	--	12	5.3	7.5	.5	41
03207020 Z06.0 TWELVEPOLE CREEK BELOW WAYNE, W. VA. (LAT 38 14 56 LONG 082 26 06)												
JUL , 1981 23...	0830	38	160	6.7	22.5	48	--	11	5.1	8.3	.5	20
03207057 Z09.0BEECH FK BELOW BEECH FK. DAM, W. VA. (LAT 38 18 18 LONG 082 25 28)												
JUL , 1981 23...	1000	12	140	7.1	21.5	54	--	15	4.0	3.9	.2	38

OHIO RIVER BASIN

99

DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDE D RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDE D RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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TWELVEPOLE CREEK BASIN--Continued

38012608225539 - Z02.0W FK TWELVEPOLE CR @ HWY 44 BR @ DUNLOW WV (LAT 38 01 26 LONG 082 25 55)

JUL , 1981 22...	17	9.2	87	.12	.87	830	470	360	140	10	130
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03206980 Z03.0 WEST FORK TWELVEPOLE CREEK ABOVE WAYNE @ ECHO WV (LAT 38 10 52 LONG 082 28 33)

JUL , 1981 22...	15	9.4	94	.13	3.3	990	760	230	160	20	140
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03207020 Z06.0 TWELVEPOLE CREEK BELOW WAYNE, W. VA. (LAT 38 14 56 LONG 082 26 06)

JUL , 1981 23...	26	9.4	96	.13	9.8	870	700	170	450	60	390
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03207057 Z09.0 BEECH FK BELOW BEECH FK. DAM, W. VA. (LAT 38 18 18 LONG 082 25 28)

JUL , 1981 23...	23	2.4	90	.12	2.9	1500	1200	300	890	90	800
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OHIO RIVER BASIN

101

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
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380126082255539 - Z02.0W FK TWELVEPOLE CR @ HWY 44 BR @ DUNLOW WV (LAT 38 01 26 LONG 082 25 55)

JUL , 1981				
22...	0930	3.7	6	.06

03206980 Z03.0 WEST FORK TWELVEPOLE CREEK ABOVE WAYNE @ ECHO WV (LAT 38 10 52 LONG 082 28 33)

JUL , 1981				
22...	1600	13	12	.42

03207020 Z06.0 TWELVEPOLE CREEK BELOW WAYNE, W. VA. (LAT 38 14 56 LONG 082 26 06)

JUL , 1981				
23...	0830	38	15	1.5

03207057 Z09.0 BEECH FK BELOW BEECH FK. DAM, W. VA. (LAT 38 18 18 LONG 082 25 28)

JUL , 1981				
23...	1000	12	27	.87

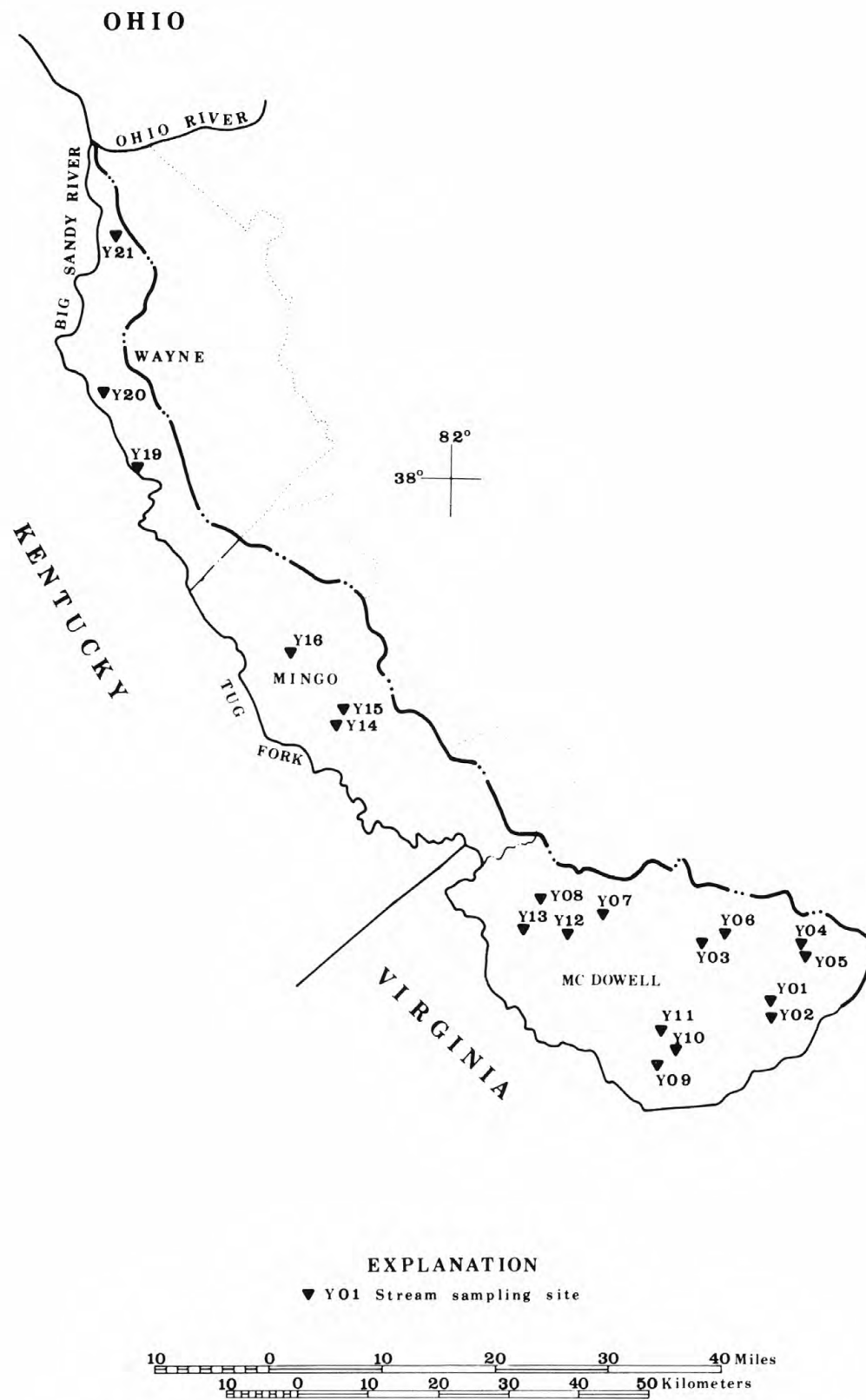


Figure 9.--Location of sampling sites in the Big Sandy River basin.

Table 8.--Name, location, and drainage area for sites in the Big Sandy River basin.

Local No.	Name	County	Drain. Area (Mi ²)	Page No.
Y01.0	Tug Fork	McDowell	27.2	104,108
Y02.0	South Fork	"	17.5	"
Y03.0	Tug Fork	"	85.8	"
Y04.0	N Fk Elkhorn Creek	"	14.4	"
Y05.0	Elkhorn Creek	"	11.7	"
Y06.0	Elkhorn Creek	"	69.9	"
Y07.0	Clear Fork	"	25.3	"
Y08.0	Tug Fork	"	502.	"
Y09.0	Dry Fork	"	51.2	"
Y10.0	Jacobs Fork	"	31.7	"
Y11.0	Big Creek	"	34.0	"
Y12.0	Dry Fork	"	225.	106,109
Y13.0	Panther Creek	"	31.0	"
Y14.0	Pigeon Creek	Mingo	23.7	"
Y15.0	Rockhouse Fork	"	15.6	"
Y16.0	Pigeon Creek	"	93.9	"
Y19.0	Tug Fork	Wayne	1,500.	"
Y20.0	Mill Creek	"	20.5	"
Y21.0	Whites Creek	"	13.2	"

OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LITY FIELD (MG/L AS CAC03)
BIG SANDY RIVER BASIN												
372012081283839 - Y01.0TUG FK @ PRIVATE BR @ BLACK WOLF WV (LAT 37 20 12 LONG 081 28 38)												
JUL , 1981 20...	1720	11	470	8.1	25.0	200	--	48	19	12	.4	100
371937081283639 - Y02.0SOUTH FK @ HWY 161 BR @ SKYGUSTY WV (LAT 37 19 37 LONG 081 28 36)												
JUL , 1981 20...	1820	11	320	8.0	24.0	130	--	30	13	8.6	.3	71
03212600 Y03.0 TUG FORK AT WELCH W VA (LAT 37 25 00 LONG 081 35 25)												
JUL , 1981 20...	1030	42	740	8.0	22.0	230	--	56	23	55	1.6	140
372512081252939 - Y04.0N FK ELKHORN CR @ HWY 17 BR @ ALGOMA WV (LAT 37 25 12 LONG 081 25 29)												
JUL , 1981 20...	1400	8.8	620	8.2	22.0	160	--	40	15	71	2.4	210
372310081244139 - Y05.0ELKHORN CR @ HWY 52/20 BR @ ELKHORN WV (LAT 37 23 10 LONG 081 24 41)												
JUL , 1981 20...	1535	30	530	8.0	19.0	180	--	42	19	38	1.2	170
03212700 Y06.0 ELKHORN CR AT MAITLAND, W. VA. (LAT 37 25 47 LONG 081 33 08)												
JUL , 1981 20...	1155	78	720	8.3	21.0	200	--	48	19	80	2.5	240
372702081441439 - Y07.0CLEAR FK @ U S 52 BR @ CLEAR FK JCT WV (LAT 37 27 02 LONG 081 44 14)												
JUL , 1981 21...	1110	20	920	8.5	22.5	130	--	31	12	160	6.2	296
03213000 Y08.0 TUG FORK AT LITWAR, W. VA. (LAT 37 29 05 LONG 081 50 40)												
JUL , 1981 21...	0800	300	720	8.3	24.0	160	--	37	16	88	3.0	210
371537081393239 - Y09.0DRY FK @ HWY 9 BR @ BERWIND WV (LAT 37 15 37 LONG 081 39 32)												
JUL , 1981 21...	1640	27	630	8.3	26.0	210	--	47	23	77	2.3	259
371643081373839 - Y10.0JACOBS FK @ HWY 16 BR @ CUCUMBER WV (LAT 37 16 43 LONG 081 37 38)												
JUL , 1981 21...	1925	13	624	8.5	24.5	180	--	45	17	87	2.8	210
371724081390839 - Y11.0HIG CR @ HWY 16 BR NR RIFT WV (LAT 37 17 24 LONG 081 39 08)												
JUL , 1981 21...	1825	8.5	360	8.2	25.5	180	--	39	19	11	.4	86

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECCV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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BIG SANDY RIVER BASIN--Continued

372012081283839 - Y01.0TUG FK @ PRIVATE BR @ BLACK WOLF WV (LAT 37 20 12 LONG 081 28 38)

JUL , 1981 20...	100	6.2	307	.42	9.1	500	490	10	70	20	50
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371937081283639 - Y02.0SOUTH FK @ HWY 161 BR @ SKYGUSTY WV (LAT 37 19 37 LONG 081 28 36)

JUL , 1981 20...	70	5.9	198	.27	5.8	4200	4200	30	130	120	10
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03212600 Y03.0 TUG FORK AT WELCH W VA (LAT 37 25 00 LONG 081 35 25)

JUL , 1981 20...	190	8.4	483	.66	54.8	390	380	10	80	10	70
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372512081252939 - Y04.0N FK ELKHORN CR @ HWY 17 BR @ ALGOMA WV (LAT 37 25 12 LONG 081 25 29)

JUL , 1981 20...	90	6.1	375	.51	8.9	950	940	10	50	30	20
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372310081244139 - Y05.0ELKHORN CR @ HWY 52/20 BR @ ELKHORN WV (LAT 37 23 10 LONG 081 24 41)

JUL , 1981 20...	86	5.7	315	.43	25.5	3200	3200	10	120	110	10
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03212700 Y06.0 ELKHORN CR AT MAITLAND, W. VA. (LAT 37 25 47 LONG 081 33 08)

JUL , 1981 20...	120	5.4	432	.59	91.0	360	350	10	40	20	20
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372702081441439 - Y07.0CLEAR FK @ U S 52 BR @ CLEAR FK JCT WV (LAT 37 27 02 LONG 081 44 14)

JUL , 1981 21...	130	19	554	.75	29.9	960	930	30	60	40	20
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03213000 Y08.0 TUG FORK AT LITWAR, W. VA. (LAT 37 29 05 LONG 081 50 40)

JUL , 1981 21...	130	9.9	425	.58	344	1300	1300	50	50	40	10
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371537081393239 - Y09.0DRY FK @ HWY 9 BR @ BERWIND WV (LAT 37 15 37 LONG 081 39 32)

JUL , 1981 21...	100	7.1	430	.58	31.3	200	190	10	<10	--	<10
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371643081373839 - Y10.0JACOBS FK @ HWY 16 BR @ CUCUMBER WV (LAT 37 16 43 LONG 081 37 38)

JUL , 1981 21...	140	6.0	447	.61	15.7	190	150	40	<10	--	<10
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371724081390839 - Y11.0BIG CR @ HWY 16 BR NR RIFT WV (LAT 37 17 24 LONG 081 39 08)

JUL , 1981 21...	110	1.1	297	.40	6.8	480	470	10	30	10	20
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	ACIDITY (MG/L AS H)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	SODIUM AD- SORP- TION RATIO	ALKA- LINITY FIELD (MG/L AS CAC03)
BIG SANDY RIVER BASIN--Continued												
03212985 Y12.0 DRY FORK AT AVONDALE, WV. (LAT 37 25 32 LONG 081 47 22)												
JUL , 1981 21...	1320	E90	660	8.4	26.0	150	--	36	14	84	3.0	218
03213500 Y13.0 PANTHER CREEK NEAR PANTHER, W. VA. (LAT 37 26 45 LONG 081 52 15)												
JUL , 1981 21...	0935	5.0	364	8.1	23.0	52	--	13	4.8	56	3.4	110
374148082110239 - Y14.0PIGEON CR @ U S 52 BR @ DELBARTON WV (LAT 37 41 48 LONG 082 11 02)												
JUL , 1981 21...	1330	5.0	440	8.0	25.0	130	.0	29	13	29	1.1	33
374219082101739 - Y15.0ROCKHOUSE FK @ HWY 65/2 BR @ DELBARTON WV (LAT 37 42 19 LONG 082 10 17)												
JUL , 1981 21...	1400	5.0	650	7.5	26.5	150	.0	36	14	58	2.1	56
03213800 Y16.0 PIGEON CREEK NR LENORE, W. VA. (LAT 37 47 13 LONG 082 15 44)												
JUL , 1981 21...	1630	26	540	8.1	26.0	120	--	30	12	64	2.5	124
03214900 Y19.0 TUG FORK AT GLENHAYES WV (LAT 38 00 20 LONG 082 30 53)												
JUL , 1981 22...	1030	619	600	7.7	26.0	160	--	39	16	57	1.9	130
380602082340239 - Y20.0MILL CR @ U S 52 BR NR SALT PETRE WV (LAT 38 06 02 LONG 082 34 02)												
JUL , 1981 22...	1230	1.6	205	7.2	23.0	75	.0	20	6.1	6.4	.3	44
381758082323039 - Y21.0WHITES CR @ HWY 19 BR NR CYRUS WV (LAT 38 17 58 LONG 082 32 30)												
JUL , 1981 22...	1400	.33	265	7.4	22.0	110	.0	34	6.9	8.0	.3	97

OHIO RIVER BASIN

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DATE	SULFATE DIS- SOLVED (MG/L) AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, SUS- PENDED RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, SUS- PENDED RECOV. (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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BIG SANDY RIVER BASIN--Continued

03212985 Y12.0 DRY FORK AT AVONDALE, WV. (LAT 37 25 32 LONG 081 47 22)

JUL , 1981 21...	94	9.5	391	.53	95.0	690	680	10	40	30	8
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03213500 Y13.0 PANTHER CREEK NEAR PANTHER, W. VA. (LAT 37 26 45 LONG 081 52 15)

JUL , 1981 21...	59	1.6	212	.29	2.8	350	340	10	20	10	10
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374148082110239 - Y14.0PIGEON CR @ U S 52 BR @ DELBARTON WV (LAT 37 41 48 LONG 082 11 02)

JUL , 1981 21...	140	7.6	281	.38	3.7	160	150	10	50	10	40
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374219082101739 - Y15.0ROCKHOUSE FK @ HWY 65/2 BR @ DELBARTON WV (LAT 37 42 19 LONG 082 10 17)

JUL , 1981 21...	180	6.5	414	.56	5.5	2300	2300	50	480	0	500
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03213800 Y16.0 PIGEON CREEK NR LENORE, W. VA. (LAT 37 47 13 LONG 082 15 44)

JUL , 1981 21...	110	11	350	.48	24.6	430	340	90	40	0	40
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03214900 Y19.0 TUG FORK AT GLENHAYES WV (LAT 38 00 20 LONG 082 30 53)

JUL , 1981 22...	120	22	372	.51	622	960	950	10	50	--	<10
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380602082340239 - Y20.0MILL CR @ U S 52 BR NR SALT PETRE WV (LAT 38 06 02 LONG 082 34 02)

JUL , 1981 22...	40	7.4	125	.17	.54	4100	4000	130	310	90	220
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381758082323039 - Y21.0WHITES CR @ HWY 19 BR NR CYRUS WV (LAT 38 17 58 LONG 082 32 30)

JUL , 1981 22...	27	8.2	154	.21	.14	1000	940	60	270	20	250
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OHIO RIVER BASIN

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
372012081283839 - Y01.0TUG FK @ PRIVATE BR @ BLACK WOLF WV (LAT 37 20 12 LONG 081 28 38)				
JUL , 1981 20...	1720	11	30	.89
371937081283639 - Y02.0SOUTH FK @ HWY 161 BR @ SKYGUSTY WV (LAT 37 19 37 LONG 081 28 36)				
JUL , 1981 20...	1820	11	561	17
03212600 Y03.0 TUG FORK AT WELCH W VA (LAT 37 25 00 LONG 081 35 25)				
JUL , 1981 20...	1030	42	13	1.5
372512081252939 - Y04.0N FK ELKHORN CR @ HWY 17 BR @ ALGOMA WV (LAT 37 25 12 LONG 081 25 29)				
JUL , 1981 20...	1400	8.8	50	1.2
372310081244139 - Y05.0ELKHORN CR @ HWY 52/20 BR @ ELKHORN WV (LAT 37 23 10 LONG 081 24 41)				
JUL , 1981 20...	1535	30	103	8.3
03212700 Y06.0 ELKHORN CR AT MAITLAND, W. VA. (LAT 37 25 47 LONG 081 33 08)				
JUL , 1981 20...	1155	78	24	5.1
372702081441439 - Y07.0CLEAR FK @ U S 52 BR @ CLEAR FK JCT WV (LAT 37 27 02 LONG 081 44 14)				
JUL , 1981 21...	1110	20	27	1.5
03213000 Y08.0 TUG FORK AT LITWAR, W. VA. (LAT 37 29 05 LONG 081 50 40)				
JUL , 1981 21...	0800	300	74	60
371537081393239 - Y09.0DRY FK @ HWY 9 BR @ BERWIND WV (LAT 37 15 37 LONG 081 39 32)				
JUL , 1981 21...	1640	27	11	.80
371643081373839 - Y10.0JACOBS FK @ HWY 16 BR @ CUCUMBER WV (LAT 37 16 43 LONG 081 37 38)				
JUL , 1981 21...	1925	13	14	.49
371724081390839 - Y11.0BIG CR @ HWY 16 BR NR RIFT WV (LAT 37 17 24 LONG 081 39 08)				
JUL , 1981 21...	1825	8.5	18	.41

OHIO RIVER BASIN

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DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SEDI- MENT, SUS- PENDE (MG/L)	SEDI- MENT, DIS- CHARGE, SUS- PENDE (T/DAY)
03212985 Y12.0 DRY FORK AT AVONDALE, WV. (LAT 37 25 32 LONG 081 47 22)				
JUL , 1981 21...	1320	E90	60	--
03213500 Y13.0 PANTHER CREEK NEAR PANTHER, W. VA. (LAT 37 26 45 LONG 081 52 15)				
JUL , 1981 21...	0935	5.0	115	1.6
374148082110239 - Y14.0PIGEON CR @ U S 52 BR @ DELBARTON WV (LAT 37 41 48 LONG 082 11 02)				
JUL , 1981 21...	1330	5.0	4	.05
374219082101739 - Y15.0ROCKHOUSE FK @ HWY 65/2 BR @ DELBARTON WV (LAT 37 42 19 LONG 082 10 17)				
JUL , 1981 21...	1400	5.0	9	.12
03213800 Y16.0 PIGEON CREEK NR LENORE, W. VA. (LAT 37 47 13 LONG 082 15 44)				
JUL , 1981 21...	1630	26	9	.63
03214900 Y19.0 TUG FORK AT GLENHAYES WV (LAT 38 00 20 LONG 082 30 53)				
JUL , 1981 22...	1030	619	40	67
380602082340239 - Y20.0MILL CR @ U S 52 BR NR SALT PETRE WV (LAT 38 06 02 LONG 082 34 02)				
JUL , 1981 22...	1230	1.6	129	.56
381758082323039 - Y21.0WHITES CR @ HWY 19 BR NR CYRUS WV (LAT 38 17 58 LONG 082 32 30)				
JUL , 1981 22...	1400	.33	1213	1.1

DATA FOR THE TUG FORK AND TWELVEPOLE CREEK BASINS, WEST VIRGINIA, AND
PARTS OF KENTUCKY AND VIRGINIA

The following tables are a compilation of data resulting from the water-resources study of the Tug Fork and Twelvepole Creek Basins. Most of the data presented herein and used in preparation of an interpretive report were obtained during the period 1978-1981 as part of the continuing investigation of the water resources of the State's river basins by the U.S. Geological Survey. This study was conducted in cooperation with the West Virginia Geological and Economic Survey, and the West Virginia Department of Natural Resources, Division of Water Resources. The remaining data are from the files of the U.S. Geological Survey.

The well-numbering system used in this report is based on the latitude and longitude of the wells within each county. The wells in each county are numbered sequentially in order of increasing latitude and longitude and those numbers are unique to this report.

Table 9 summarizes the physical and hydrologic information of the wells inventoried for the project. Table 10 contains water-level data for an observation well in Wayne County (Reference No. 14), and one close to the basin in Wyoming County. Table 11 contains physical and chemical parameters of water quality obtained from samples taken at the time the well was inventoried. The wells are shown on figure 10. Table 12 contains physical, chemical, and biological parameters determined from samples taken from selected streams during autumn at or near low-flow conditions, and during spring when the streams contained substantial runoff. These streams are shown on figure 11. Data for the long-term streamflow measurement sites in the basins are published in the annual U.S. Geological Survey Water-Data reports.

The geology and hydrology of the basin will be described in greater detail in the companion report, Water Resources of the Tug Fork and Twelvepole Creek Basins, River Basin Bulletin 8 of the West Virginia Geological and Economic Survey.



Explanation of Table 9.--Description of Wells

REFERENCE NO.: A sequential number assigned to the wells in each county and apply only to this report.

OWNER: The apparent owner or user on the date indicated.

DATE COMPLETED: Date well was drilled.

DEPTH OF WELL: Depth, in feet below land-surface datum, as reported by owner, driller, or others, or as measured by the Geological Survey.

CASING DIAMETER: Inside diameter of the well in inches.

METHOD CONSTRUCTED:

A Air-rotary	D Dug	P Air percussion	V Driven
B Bored or augered	H Hydraulic rotary	R Reverse rotary	W Drive and wash
C Cable-tool	J Jetted	T Trenching	Z Other (primarily core drill)

DEPTH CASING: Depth of casing, in feet below land-surface datum.

WELL FINISH:

H Horizontal gallery	S Well screen	X Open hole
O Open end	W Walled or shored	Z Other
P Perforated or slotted casing		

TYPE OF LIFT:

A Air lift	C Centrifugal pump	P Piston pump	S Submergible pump	U Unknown
B Bucket	J Jet pump	R Rotary pump	T Turbine pump	Z Other

TYPE OF POWER:

D Diesel engine	G Gasoline engine	L LP gas (propane or butane)	W Windmill
E Electric motor	H Hand	N Natural-gas engine	Z Other

HORSEPOWER: The horsepower rating of the power source.

USE OF WATER:

A Air conditioning	F Fire	N Industrial	T Institution
B Bottling	H Domestic	P Public supply	U Unused
C Commercial	I Irrigation	R Recreation	Y Desalination
D Dewater	M Medicinal	S Stock	Z Other
E Power			

ALTITUDE OF LAND SURFACE: Altitude of land-surface datum, in feet above mean sea level. Land-surface datum is an arbitrary plane closely approximating land surface at the time of the first measurement and used as the plane of reference of all subsequent measurements.

WATER LEVEL: Depth to water, in feet, above (+) or below land-surface datum. F indicates well was flowing, D indicates well was dry, P indicates well was being pumped, R indicates well was pumped recently.

DATE MEASURED: Month, day, and year of the water-level measurement.

DISCHARGE: Yield of well in gallons per minute. F indicates well was flowing.

OTHER DATA AVAILABLE:

<u>QW</u>	<u>WL</u>
A Physical properties	O One time only
H Common ions and Nutrients	W Weekly

TABLE 9.--DESCRIPTION OF WELLS

REF. NO.	LATITUDE AND LONGITUDE DEGREES-MINUTES-SECONDS		OWNER	DATE COMPLETED	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	METHOD CONST- RUCTED	DEPTH CASED
LAWRENCE COUNTY, KENTUCKY								
1	37 58 06 N	082 31 46 W	POPE, WILLIAM	1959	75.00	6	C	--
2	37 58 18 N	082 33 39 W	BURCHETT, BERNICE	1978	65.00	6	C	16
3	37 59 21 N	082 30 22 W	GREYHOUSE, BILL	1977	97.00	6	--	43
4	37 59 42 N	082 32 01 W	PORTER, FANNIE W	--	90.00	6	--	34
5	38 01 28 N	082 33 11 W	HENSON, GEORGE	1965	300.00	6	--	--
MARTIN COUNTY, KENTUCKY								
1	37 43 24 N	082 26 27 W	PAULEY, GEORGE	1970	86.00	6	C	11
2	37 45 12 N	082 26 45 W	HALE, ERNEST	1951	71.00	6	C	41
3	37 46 12 N	082 28 37 W	STEPP, ADA	1957	60.00	--	D	--
4	37 47 15 N	082 26 35 W	OSBORNE, GROVER	1958	72.00	6	C	20
5	37 47 20 N	082 35 14 W	HOWARD, CLELL	1971	55.00	6	--	50
6	37 47 22 N	082 24 29 W	MUNCY, HOMER	08/08/1979	59.00	6	C	21
7	37 47 34 N	082 31 28 W	TILLER, COLUMBUS	1969	26.00	--	C	--
8	37 48 28 N	082 33 42 W	PREECE, AVERY	1975	50.00	--	--	--
9	37 48 42 N	082 25 16 W	FLETCHER, T J	1972	63.00	6	C	31
10	37 48 44 N	082 25 19 W	FLETCHER, T J	--	82.00	--	--	--
11	37 49 08 N	082 30 28 W	CASSADY, ELMER	1973	85.00	6	C	15
12	37 49 08 N	082 35 54 W	RAMEY, EWART	1976	99.00	6	C	--
13	37 49 41 N	082 26 36 W	SMITH, JAMES	1971	126.00	6	C	10
14	37 49 56 N	082 28 50 W	FIELDS, VARDIE	--	73.00	6	--	--
15	37 50 04 N	082 25 28 W	HOWELL, JAMES R	--	51.00	6	--	--
16	37 50 45 N	082 36 09 W	MILLS, ERSEL	1955	62.00	6	C	21
17	37 50 51 N	082 32 22 W	BROWN, OTTO	1949	73.00	6	--	9
18	37 50 52 N	082 32 17 W	BROWN, OTTO	1949	68.00	6	C	39
19	37 50 58 N	082 30 13 W	ROBINSON, VAN	--	48.00	6	--	--
20	37 51 02 N	082 26 21 W	SPAULDING, JOHN L	1965	35.00	6	C	11
21	37 51 07 N	082 39 17 W	SPENCE, LESLIE	1975	90.00	6	C	--
22	37 51 19 N	082 37 19 W	MILLS, HENRY	1969	52.00	6	C	23
23	37 52 05 N	082 35 48 W	MOORE, SHIRLEY	1955	90.00	--	--	--
24	37 52 47 N	082 35 15 W	NEWSOME, HARVEY	--	61.00	6	--	--
25	37 52 59 N	082 27 37 W	HAMMOND, BILLY R	1974	57.00	6	C	--
26	37 53 02 N	082 33 11 W	ROBINSON, VIRGIE P	1955	40.00	6	C	--
27	37 54 05 N	082 34 53 W	MAY, ROBERT	--	18.00	2.50	D	1
28	37 54 52 N	082 33 02 W	BOWEN, NEBERT	1969	82.00	6	C	14
29	37 54 56 N	082 29 17 W	MILLS, VERLIE	--	103.00	6	C	--
30	37 56 11 N	082 32 10 W	PACK, HOMER	1962	50.00	6	C	27
PIKE COUNTY, KENTUCKY								
1	37 26 39 N	082 07 13 W	ADKINS, JAMES	1975	65.00	--	H	--
2	37 27 25 N	082 09 14 W	COLEMAN, ROLAND	1954	61.00	6	C	21
3	37 28 03 N	082 11 41 W	CASEY, PERRY	1971	21.00	--	D	--
4	37 28 26 N	082 05 04 W	BLANKENSHIP, ORIVILL	06/ /1970	64.00	6	H	8
5	37 29 03 N	082 12 16 W	LOUDERMILK, KENNETH	1975	120.00	--	A	--
6	37 29 17 N	082 06 14 W	BLANKENSHIP, EMZIE	08/ /1978	100.00	6	C	--
7	37 29 37 N	082 04 29 W	PRATER, ERNEST	1975	60.00	6	A	6
8	37 29 53 N	082 08 11 W	FIELDS, JOYCE	05/ /1979	32.00	6	C	31
9	37 30 46 N	082 09 05 W	COMPTON, LENARD	1961	29.00	--	C	--
10	37 30 47 N	082 06 35 W	PRATER, BERT	--	85.00	--	--	--
11	37 31 34 N	082 11 46 W	WHITT, VER	1954	47.00	--	C	--
12	37 31 51 N	082 15 05 W	JAMES, VICTOR	04/20/1979	70.00	6	H	25
13	37 32 36 N	082 17 35 W	HATFIELD, RAYMOND D	1963	77.00	6	C	49
14	37 32 43 N	082 13 01 W	CHURCH, WILLIAM	1950	72.00	--	--	--
15	37 32 50 N	082 09 30 W	DOTSON, RUSSELL	1950	105.00	--	C	--
16	37 33 00 N	082 06 11 W	--	06/ /1977	180.00	--	H	--
17	37 33 38 N	082 15 36 W	HELVY, HAROLD	1965	96.00	6	C	22
18	37 33 48 N	082 11 31 W	WALLER, TIVIS	12/ /1977	72.00	6	C	51
19	37 34 24 N	082 19 10 W	THACKER, DAVID B	05/ /1973	42.00	6	C	--
20	37 35 08 N	082 22 12 W	HATFIELD, SARAH	1950	36.00	6	C	19
21	37 35 33 N	082 09 59 W	NORMAN'S GROCERY	1955	120.00	--	C	--
22	37 35 44 N	082 20 24 W	SMITH, CLIVE	--	17.00	20	D	17
23	37 35 48 N	082 16 36 W	STANLEY, ROGER	--	155.00	--	--	--
24	37 35 54 N	082 12 21 W	STANLEY, VIRGIL	1941	74.00	6	C	--

REF. NO.	FINISH	TYPE OF LIFT	TYPE OF POWER	HORSE- POWER	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	DISCHARGE (GALLONS PER MINUTE)	OTHER DATA AVAILABLE QW WL
1	X	J	E	--	H	580	30.00	--	--	H
2	X	R	H	--	H	610	30.00	--	--	H
3	--	J	E	0.50	H	600	--	--	--	H
4	--	J	E	--	H	580	--	--	--	H
5	--	S	E	--	H	590	--	--	--	H
1	X	J	E	--	H	700	--	--	--	H
2	X	J	E	--	H	660	--	--	--	H
3	--	J	E	--	H	640	--	--	--	H
4	X	J	E	--	H	640	--	--	--	H
5	--	J	E	--	H	720	--	--	--	H
6	X	--	--	--	U	660	30.00	08/09/1979	--	H
7	X	J	E	--	H	720	9.00	--	--	H
8	--	J	E	--	H	600	--	--	--	H
9	X	J	E	--	U	620	--	--	--	H
10	--	R	H	--	H	620	--	--	--	H
11	X	J	E	--	H	700	--	--	--	H
12	X	S	E	--	H	760	--	--	--	H
13	X	J	E	0.75	H	750	25.00	09/ /1978	--	H
14	--	J	E	0.50	H	720	--	--	--	H
15	--	J	E	--	H	720	18.00	R 08/15/1979	--	H 0
16	X	J	E	--	H	680	--	--	--	H
17	X	J	E	0.50	H	640	--	--	--	H
18	X	P	H	--	H	670	--	--	--	H
19	--	--	--	--	U	660	10.00	08/10/1979	--	H
20	X	J	E	--	U	700	28.00	--	--	H
21	X	J	E	--	H	780	--	--	--	H
22	X	J	E	--	H	720	--	--	--	H
23	--	J	E	--	H	660	25.00	--	--	H
24	--	--	--	--	U	660	20.00	--	--	H
25	X	J	E	0.50	H	650	--	--	--	H
26	X	--	--	--	H	620	--	--	--	H
27	--	J	E	--	H	660	--	--	--	H
28	X	J	E	--	H	670	80.00	--	--	H
29	X	S	E	--	U	640	--	--	--	H
30	X	J	E	--	H	580	--	--	--	H
1	X	J	E	0.50	H	1220	--	--	--	H
2	X	J	E	1.00	H	1190	18.00	--	--	H
3	X	J	E	--	H	1230	0.00	--	--	H
4	X	J	E	0.50	H	1020	20.00	--	--	H
5	--	S	E	1.50	H	1170	70.00	--	8.0	H
6	X	J	E	--	H	1120	20.00	06/05/1979	--	H 0
7	X	J	E	--	H	940	--	--	--	H
8	O	S	E	--	H	910	--	--	--	H
9	--	J	E	--	H	820	--	--	--	H
10	--	J	E	0.50	H	1230	17.25	06/27/1979	--	H 0
11	--	S	E	--	H	1040	--	--	--	H
12	X	S	E	0.50	H	1060	12.00	04/20/1979	8.0	H
13	X	S	E	3.00	--	1060	--	--	--	H
14	--	J	E	--	H	960	12.00	--	--	H
15	--	J	E	0.33	H	770	50.00	--	--	H
16	--	S	E	0.75	H	760	15.30	R 06/27/1979	--	H 0
17	X	J	E	0.50	H	860	6.00	1977	--	H
18	X	J	E	0.50	H	830	--	--	--	H
19	X	J	E	--	H	990	7.00	05/ /1973	--	H
20	X	C	E	0.50	H	960	10.00	--	--	H
21	X	J	E	0.75	H	720	--	--	--	H
22	--	C	E	--	H	910	7.61	06/27/1979	--	H 0
23	--	S	E	0.75	H	850	--	--	--	H
24	X	J	E	0.50	H	990	--	--	--	H

REF. NO.	LATITUDE AND LONGITUDE DEGREES-MINUTES-SECONDS		OWNER	DATE COMPLETED	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	METHOD CONST- RUCTED	DEPTH CASED
PIKE COUNTY -- CONTINUED								
25	37 36 01 N	082 14 02 W	STACY, WILLIAM K	10/ /1975	47.00	6	A	10
26	37 36 12 N	082 18 42 W	BLACKBURN, FLOYD	1957	51.00	6	C	7
27	37 37 01 N	082 21 30 W	BLACKBURN, BESSIE	1938	--	5	--	--
28	37 37 12 N	082 16 07 W	HATFIELD, FRED	03/ /1977	43.00	6	A	20
29	37 37 12 N	082 16 07 W	--	10/ /1977	63.00	6	--	--
30	37 38 16 N	082 17 39 W	WILLIS, J C	04/ /1978	25.00	--	C	--
31	37 38 58 N	082 21 51 W	ELKINS, PHILLIP	08/ /1977	50.00	--	C	--
32	37 39 07 N	082 23 15 W	ELKINS, CHARLIE	1973	41.00	6	A	36
33	37 39 09 N	082 16 13 W	WEST, WALTER R	1977	--	--	--	--
34	37 39 13 N	082 18 23 W	HURLEY, BRUCE	1953	74.00	6	C	24
35	37 41 09 N	082 21 51 W	DESKINS, GARY	1978	40.00	6	A	19
36	37 42 32 N	082 20 47 W	HARRELL, BILL	--	--	--	--	--
BUCHANAN COUNTY, VIRGINIA								
1	37 21 04 N	081 59 16 W	DAVIS, CECIL	10/ /1978	184.00	6	A	42
2	37 21 14 N	082 03 25 W	LOONEY, ERNEST C	02/ /1975	83.00	6	A	27
3	37 21 20 N	082 02 04 W	JUSTUS, SHERMAN T	1978	80.00	6	A	--
4	37 21 21 N	082 01 55 W	DAVIS, J M	--	22.00	72	D	22
5	37 21 41 N	081 58 21 W	MULLINS, ARVILLE	1947	70.00	6	C	--
6	37 22 07 N	082 00 32 W	COOPER, BOBBIE E	1972	248.00	6	A	--
7	37 22 08 N	082 00 32 W	COOPER, BOBBIE E	1977	180.00	6	A	60
8	37 23 22 N	082 02 42 W	JUSTUS, DONALD	1963	105.00	--	C	--
9	37 23 26 N	082 02 38 W	JUSTUS, DONALD	1953	45.00	6	C	20
10	37 23 36 N	081 59 07 W	BLANKENSHIP, HOBERT	1958	58.00	--	C	--
11	37 23 54 N	082 06 51 W	ADKINS, SHERMAN	02/ /1978	145.00	6	--	--
12	37 24 08 N	082 00 29 W	COLEMAN, CUBERT	1976	--	--	A	--
13	37 24 52 N	082 06 03 W	COOK, EARL	1950	45.00	--	C	--
14	37 25 10 N	082 01 18 W	E. LESTER ESTATE	1900	85.00	8	--	--
15	37 25 20 N	081 58 14 W	JUSTUS, CURTIS	1968	62.00	6	C	21
16	37 25 22 N	082 03 18 W	HURLEY, CHARLEY	1974	68.00	--	C	--
17	37 26 19 N	082 05 17 W	PHILLIPS, WILLIAM	1976	150.00	6	C	--
18	37 26 20 N	081 58 18 W	RIFE, HAROLD	--	54.00	--	--	--
19	37 26 37 N	082 00 40 W	HALL, EARL	1971	53.00	--	C	--
20	37 27 17 N	082 03 18 W	DUTY, LONNIE	1976	87.00	6	H	28
21	37 27 58 N	082 00 15 W	RIFE, EARL	05/ /1976	75.00	6	C	45
22	37 28 21 N	082 02 47 W	RIFE, HOBERT	--	18.50	36	--	--
TAZEWELL COUNTY, VIRGINIA								
1	37 07 46 N	081 38 49 W	WALKER, JAMES M	07/29/1967	58.00	6	C	28
2	37 08 22 N	081 40 55 W	BALDWIN, NETTIE W	05/ /1969	87.00	--	--	--
3	37 08 39 N	081 36 31 W	LARGE, KYLE	10/ /1977	82.00	6	A	40
4	37 08 50 N	081 38 59 W	BEAVERS, MATTIE P	1963	85.00	--	C	--
5	37 09 30 N	081 34 27 W	WHITT, ERRETT	1941	58.00	6	C	27
6	37 09 43 N	081 40 30 W	ARMSTRONG, CURTIS	07/ /1975	175.00	6	A	6
7	37 10 14 N	081 37 49 W	CLINE, T G	--	100.00	6	C	--
8	37 10 19 N	081 36 37 W	SIZEMORE, RUTH	1950	87.00	--	--	--
9	37 11 37 N	081 33 40 W	HARDY, ROLAND	1956	114.00	6	C	--
10	37 12 56 N	081 30 43 W	BUCHANAN, H P	1932	81.00	6	C	18
CABELL COUNTY, WEST VIRGINIA								
1	38 14 42 N	082 17 07 W	--	10/ /1979	75.00	6	--	--
2	38 14 43 N	082 17 12 W	ADKINS, WANDA	1956	60.00	6	C	--
3	38 15 44 N	082 17 57 W	ADKINS, HERBERT	1976	65.00	6	--	--
4	38 17 16 N	082 16 56 W	HATFIELD, CLOVIS	--	65.00	6	--	--
5	38 20 01 N	082 20 18 W	STEPHENSON, JACK L S	1949	80.00	6	C	20

REF. NO.	FINISH	TYPE OF LIFT	TYPE OF POWER	HORSE- POWER	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	DISCHARGE (GALLONS PER MINUTE)	OTHER DATA AVAILABLE OW WL
25	X	J	E	1.00	H	900	7.00	10/ /1975	4.0	H
26	X	J	E	0.75	H	960	20.00	--	--	H
27	--	J	E	0.50	H	750	5.09	06/27/1979	--	H 0
28	X	J	E	0.75	H	700	20.00	1978	--	H
29	--	S	E	--	H	700	--	--	--	
30	X	S	E	0.50	H	770	0.33	07/19/1979	--	H 0
31	X	S	E	--	H	690	10.00	--	--	H
32	X	J	E	--	H	710	--	--	--	H
33	--	S	E	--	U	870	--	--	--	H
34	X	S	E	--	H	760	30.00	--	--	H
35	X	J	E	--	H	680	20.00	--	--	H
36	--	J	E	--	H	660	--	--	--	H
1	X	S	E	--	H	1360	--	--	--	H
2	X	S	E	0.50	H	1480	15.18	R 05/22/1979	--	H 0
3	X	S	E	--	H	1400	30.00	--	--	H
4	W	--	--	--	H	1480	--	F 05/22/1979	--	H
5	X	J	E	0.50	H	1500	27.00	1947	--	
6	X	--	--	--	U	1360	23.00	05/23/1979	--	0
7	X	S	E	--	H	1360	--	--	12	H
8	X	J	E	--	U	1140	--	--	--	H
9	X	J	E	0.50	H	1100	25.00	1969	--	H
10	X	S	E	0.50	H	1130	--	--	--	H
11	--	S	E	--	H	1200	--	--	--	H
12	X	S	E	0.50	H	1060	--	--	--	H
13	X	J	E	--	H	1100	7.00	--	--	H
14	X	P	E	5.00	P	980	18.00	--	--	H
15	X	J	E	0.50	H	1280	47.00	--	15	H
16	X	J	E	0.50	H	1020	--	--	--	H
17	X	S	E	0.50	H	1040	--	--	--	H
18	--	J	E	0.50	H	1280	--	--	--	H
19	X	J	E	0.50	H	1040	16.00	1971	--	H
20	X	S	E	0.50	H	920	45.00	1976	--	H
21	X	J	E	0.50	H	1360	--	--	--	H
22	--	J	E	0.50	H	1000	8.12	06/05/1979	--	H 0
1	X	J	E	--	H	2085	25.00	08/ /1978	28	H
2	--	S	E	--	H	2240	--	--	--	H
3	X	J	E	1.25	H	2040	--	--	3.0	H
4	X	J	E	--	H	1840	--	--	--	H
5	X	J	E	0.50	H	2260	12.00	1941	--	H
6	X	S	E	0.50	H	2080	--	--	8.0	H
7	X	J	E	0.50	H	1760	15.00	--	--	H
8	--	J	E	--	H	1880	--	--	--	H
9	X	J	E	0.75	H	1959	58.00	1965	--	H
10	X	J	E	0.75	H	2100	30.00	1975	--	H
1	--	J	E	--	H	680	--	--	40	
2	X	J	E	0.75	H	680	10.00	--	--	H
3	--	J	E	0.50	H	640	--	--	--	H
4	--	J	E	0.75	H	640	--	--	--	H
5	X	J	E	0.33	H	640	40.00	--	--	H

REF. NO.	LATITUDE AND LONGITUDE DEGREES-MINUTES-SECONDS		OWNER	DATE COMPLETED	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	METHOD CONST- RUCTED	DEPTH CASED
LINCOLN COUNTY, WEST VIRGINIA								
1	37 58 09 N	082 15 45 W	BROWNING, FRELIAN	1977	--	--	C	--
2	38 00 15 N	082 11 36 W	BROWNING, MYLES	--	41.00	6	C	20
3	38 00 24 N	082 13 47 W	MAYNARD, LILLY	--	75.00	6	C	--
MCDOWELL COUNTY, WEST VIRGINIA								
1	37 12 57 N	081 37 57 W	PATTERSON, CLARENCE	--	63.00	--	--	--
2	37 13 37 N	081 35 51 W	SPINNER, EZRA	1963	68.00	6	C	67
3	37 15 33 N	081 36 01 W	SHRADER, JAMES L	1977	60.00	6	A	19
4	37 16 52 N	081 37 39 W	BURKE, HOUSTON	1949	120.00	6	--	90
5	37 17 22 N	081 28 23 W	FOWLER, JAIRUS	1978	77.00	6	A	13
6	37 17 42 N	081 25 35 W	--	--	--	--	--	--
7	37 17 59 N	081 50 04 W	JOBE, WILLIAM	04/ /1975	65.00	6	C	--
8	37 18 03 N	081 41 04 W	WAR WATERWORKS	02/17/1944	202.00	8	C	62
9	37 18 24 N	081 28 03 W	ROSE, JAMES	--	80.00	--	--	--
10	37 18 29 N	081 41 35 W	WAR WATERWORKS	1911	360.00	8	--	--
11	37 18 33 N	081 26 03 W	GRAHOVAC, ELLEN	--	--	6	--	--
12	37 19 00 N	081 50 38 W	SPARKS, A C	--	77.00	6	C	--
13	37 19 32 N	081 49 44 W	KEENE, GENEVA	09/ /1966	33.00	--	C	--
14	37 19 58 N	081 28 53 W	GARY COUNTRY CLUB	1976	70.00	6	A	--
15	37 20 07 N	081 24 13 W	BURKE, STEVE M	07/20/1968	77.00	6	C	42
16	37 20 15 N	081 25 51 W	ANAWALT MNCPL WW	1969	--	--	--	--
17	37 20 23 N	081 43 18 W	MCDOWELL COUNTY	10/ /1971	165.00	--	--	--
18	37 20 23 N	081 43 18 W	MCDOWELL COUNTY	--	--	--	--	--
19	37 20 26 N	081 48 37 W	POORE, ROGER	--	96.00	--	--	--
20	37 20 29 N	081 51 35 W	KENNEDY, FRANCIS	09/ /1941	310.00	6	C	30
21	37 20 30 N	081 50 38 W	FOLEY, OSCAR	08/ /1973	230.00	6	C	30
22	37 20 32 N	081 28 25 W	GARY COUNTRY CLUB	1947	200.00	15	--	10
23	37 20 34 N	081 54 19 W	LESTER, CLARENCE	1972	--	6	A	--
24	37 20 41 N	081 46 52 W	MCDOWELL COUNTY	--	--	--	--	--
25	37 21 21 N	081 27 34 W	NANCE, EARL	06/ /1974	80.00	6	A	40
26	37 21 24 N	081 49 31 W	JEWELL, THOMAS	10/ /1976	80.00	--	H	--
27	37 21 37 N	081 55 43 W	MULLINS, RAY	1964	152.80	6	C	--
28	37 21 48 N	081 52 48 W	LESTER, MILES	1973	223.00	6	A	4
29	37 21 55 N	081 45 39 W	ROSE, WILLIAM H	06/ /1972	86.00	6	C	38
30	37 21 58 N	081 26 12 W	OWEN, DONALD	07/ /1978	78.00	6	A	29
31	37 22 12 N	081 47 57 W	BLANKENSHIP, CHARLEY	05/ /1977	80.00	6	H	50
32	37 22 13 N	081 22 31 W	ELKHORN PUBLIC SVC	--	--	--	--	--
33	37 23 12 N	081 24 26 W	ELKHORN PUBLIC SVC	04/14/1945	398.30	12	--	18
34	37 23 18 N	081 24 26 W	ELKHORN PUBLIC SVC	--	--	--	--	--
35	37 23 35 N	081 22 03 W	ELKHORN PUBLIC SVC	--	--	--	--	--
36	37 23 52 N	081 45 33 W	FERRELL, CLARENCE	11/ /1975	65.00	6	A	27
37	37 24 06 N	081 48 06 W	HOWELL, HASSELL	1944	28.00	--	D	--
38	37 24 57 N	081 26 54 W	KEYSTONE CITY WW	1964	320.00	10	--	--
39	37 25 01 N	081 24 00 W	ELKHORN PUBLIC SVC	--	240.50	8	--	73
40	37 25 13 N	081 24 30 W	ELKHORN PUBLIC SVC	--	--	--	--	--
41	37 25 17 N	081 38 37 W	MCDOWELL COUNTY	--	--	--	--	--
42	37 25 18 N	081 30 40 W	KIMBALL LT & WTR CO	1943	36.00	12	C	1
43	37 25 29 N	081 47 13 W	BOWLES, FRANK	1950	52.00	6	C	2
44	37 25 42 N	081 30 34 W	KIMBALL LT & WTR CO	04/21/1947	222.00	10	C	22
45	37 25 59 N	081 40 54 W	LESTER, CLINTON S	07/ /1977	49.00	6	C	--
46	37 26 01 N	081 54 17 W	JUSTICE, FRED	--	70.00	--	A	--
47	37 26 05 N	081 49 04 W	VANOVER, BILL	--	170.00	6	C	40
48	37 26 36 N	081 50 31 W	MULLENS, GRANVILLE	1963	55.00	6	C	32
49	37 26 52 N	081 52 45 W	PANTHER STATE FOREST	--	70.00	6	C	59
50	37 26 57 N	081 42 18 W	WEST, ASTOR V	--	28.00	--	D	--
51	37 27 07 N	081 43 14 W	CLAY, RAYMOND L	11/ /1952	72.00	6	C	25
52	37 27 35 N	081 45 26 W	LOCKHART, RONALD	1971	45.00	6	C	--
53	37 27 51 N	081 56 57 W	BAILEY, GENERAL	1969	50.00	6	C	15
54	37 27 58 N	081 52 11 W	STACEY, AUGUSTA	1968	85.00	6	C	39
55	37 28 02 N	081 32 36 W	BURKS, HAROLD C	07/ /1978	100.00	6	C	5
56	37 28 02 N	081 32 37 W	WHITTAKER, JACK	1964	85.00	6	C	7
57	37 28 18 N	081 40 03 W	DAVIDSON, EVERETT J	09/01/1967	50.00	6	C	25
58	37 28 20 N	081 54 54 W	CLINE, GEORGE	1976	115.00	6	A	28
59	37 28 22 N	081 42 08 W	HUGHES, WALTER R	--	89.00	--	--	--
60	37 28 25 N	081 58 35 W	COLEMAN, BELVIA	--	16.50	24	D	--
61	37 28 35 N	081 46 43 W	LOWE, SONJA	1964	62.00	6	--	29
62	37 28 55 N	081 50 09 W	COLEMAN, JOHN S	1977	84.00	6	C	--
63	37 29 03 N	081 56 24 W	HUNT, DENVER	1957	42.00	6	C	19
64	37 29 25 N	081 48 35 W	DOTSON, KENNY	--	--	--	--	--

REF. NO.	FINISH	TYPE OF LIFT	TYPE OF POWER	HORSE- POWER	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	DISCHARGE (GALLONS PER MINUTE)	OTHER DATA AVAILABLE QW WL	
1	X	S	E	--	H	780	--	--	--	H	
2	X	C	E	0.50	H	880	5.00	--	--	H	
3	X	J	E	0.50	H	780	9.45	11/26/1979	--	H	0
1	--	J	E	0.50	H	1620	7.57	03/14/1979	--	H	0
2	X	J	E	--	H	1680	--	--	--	H	
3	X	J	E	1.50	H	1720	--	--	--	H	
4	X	J	E	0.50	P	1500	0.00	--	--	H	
5	X	S	E	0.75	H	1700	--	--	--	H	
6	--	--	--	--	U	1900	12.69	03/28/1979	--		0
7	X	J	E	0.50	H	1620	--	--	--	H	
8	--	T	E	10.00	P	1340	5.00	02/20/1944	225	H	
9	--	--	--	--	H	1620	--	--	--	H	
10	--	T	E	10.00	P	1360	--	--	400	H	
11	--	S	E	0.50	H	1780	21.05	P 03/28/1979	--	H	0
12	X	J	E	0.50	H	1640	--	--	--	H	
13	X	C	E	0.50	H	1360	--	--	--	H	
14	X	S	E	3.00	I, H	1500	3.08	P 03/28/1979	22	H	0
15	X	J	E	0.50	H	1810	4.10	P 03/28/1979	--	H	0
16	--	S	E	--	P	1700	--	--	--	H	
17	--	T	E	10.00	P	1260	60.00	--	250	H	
18	--	--	--	--	U	1260	27.95	05/23/1979	--		0
19	--	J	E	0.50	H	1240	--	--	--	H	
20	X	S	E	0.75	H	2100	--	--	0.25	H	
21	X	S	E	1.00	H	2180	100.00	--	--	H	
22	--	S	E	3.00	H	1580	45.00	01/13/1979	45	H	
23	X	--	--	--	U	2100	129.90	05/23/1979	--		0
24	--	C	E	3.00	P	1180	2.31	P 05/23/1979	240	H	0
25	X	S	E	--	H	1600	--	--	--	H	
26	--	J	E	0.50	H	1480	--	--	--	H	
27	X	B	H	--	H	1960	134.30	05/23/1979	--	H	0
28	X	B	H	--	H	2160	154.40	05/23/1979	--	H	0
29	X	S	E	--	H	1720	29.00	--	--	H	
30	X	J	E	0.75	H	1870	35.00	P 07/ /1978	--	H	
31	X	J	E	0.50	H	1160	--	--	--	H	
32	--	--	--	--	U	2060	--	F 03/27/1979	10	F	0
33	--	--	--	--	U	1910	31.84	03/27/1979	75		0
34	--	T	E	5.00	P	1860	13.00	--	180	H	
35	--	--	--	--	U	2130	--	F 03/27/1979	2.0	F	0
36	X	S	E	0.50	H	1340	--	--	--	H	
37	O	S	E	0.50	U	1060	22.00	--	--	H	
38	X	T	E	15.00	P	1640	--	--	80	H	
39	--	--	--	--	U	1860	14.70	03/27/1979	--		0
40	--	--	--	--	H	1820	--	F 03/27/1979	6.0	F	0
41	--	S	E	1.50	P	1460	5.10	05/23/1979	60		0
42	X	T	E	5.00	P	1460	--	F 04/11/1979	204	F	0
43	O	J	E	0.50	H	1040	30.00	--	--	H	
44	--	T	E	15.00	P	1500	--	--	200	H	
45	X	J	E	0.75	H	1260	--	--	--	H	
46	X	J	E	--	H	1180	13.50	--	--	H	
47	X	S	E	--	H	1800	40.00	--	--	H	
48	X	J	E	0.50	H	1240	20.00	--	--	H	
49	X	P	E	5.00	H	1080	20.00	--	--	H	
50	W	C	E	0.50	H	1100	9.28	P 06/04/1979	--	H	0
51	X	J	E	1.00	H	1060	--	--	--	H	
52	X	S	E	--	H	1020	14.00	--	--	H	
53	X	J	E	0.50	H	1170	23.00	--	--	H	
54	X	J	E	--	H	960	--	--	--	H	
55	X	S	E	0.75	H	1800	40.00	07/ /1978	--	H	
56	X	J	E	0.75	H	1800	20.00	--	--	H	
57	X	J	E	1.00	H	1160	--	--	--	H	
58	X	S	E	1.50	H	1120	60.00	--	--	H	
59	--	J	E	0.75	H	1140	--	--	--	H	
60	W	J	E	0.50	H	1190	2.00	06/19/1979	--	H	0
61	X	J	E	--	H	990	--	--	--	H	
62	X	J	E	0.50	H	1000	34.00	--	--	H	
63	--	S	E	0.50	H	1030	12.00	--	--	H	
64	--	--	--	--	H	1180	--	--	--	H	

REF. NO.	LATITUDE AND LONGITUDE DEGREES-MINUTES-SECONDS		OWNER	DATE COMPLETED	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	METHOD CONST- RUCTED	DEPTH CASED
MCDOWELL COUNTY -- CONTINUED								
65	37 30 18 N	081 51 24 W	LAMBERT, DELBERT	1969	59.00	6	C	43
66	37 30 29 N	081 55 43 W	BLANKENSHIP, CONLEY	03/ /1973	43.00	6	C	20
MINGO COUNTY, WEST VIRGINIA								
1	37 31 39 N	081 54 33 W	LESTER, GARSON	1965	64.00	6	C	--
2	37 31 40 N	081 56 25 W	CARTER, DANIEL R	1975	50.00	7	A	20
3	37 32 47 N	082 03 26 W	LOONEY, JOEL	1948	50.00	6	C	12
4	37 33 10 N	081 57 51 W	MURPHY, MAYNARD	1972	42.00	6	C	39
5	37 33 18 N	081 59 37 W	GIBSON, FREELAND	1952	87.00	6	--	86
6	37 34 00 N	082 08 36 W	HOWARD, MAUDIE	1978	145.00	--	H	--
7	37 34 23 N	082 03 03 W	CISCO, CARLOS	1979	63.00	6	C	33
8	37 34 43 N	081 56 14 W	DOTSON, EARL	1971	104.00	--	--	--
9	37 35 39 N	082 01 56 W	STEELE, HARRY	1974	44.00	6	C	20
10	37 35 41 N	082 08 02 W	CISCO, MACK	1952	90.00	--	--	--
11	37 35 47 N	081 58 21 W	HINKLE, TROY	1940	62.00	--	--	--
12	37 36 11 N	082 06 08 W	SNELL, RUTH	1974	86.00	6	C	60
13	37 36 34 N	081 56 25 W	STANLEY, W J	1956	68.00	--	C	--
14	37 36 36 N	082 00 56 W	KENNEDY, GEORGE	1974	57.00	--	C	--
15	37 36 52 N	082 03 28 W	STEELE, JACK	1974	96.00	--	--	--
16	37 37 31 N	082 04 53 W	SMITH, CHARLES	1975	300.00	--	--	--
17	37 37 36 N	081 58 34 W	KEEN, WALKER	1973	55.00	6	C	34
18	37 37 38 N	081 58 38 W	MURPHY, WILLIAM J	--	20.00	30	D	1
19	37 38 06 N	082 13 00 W	HALLEY, DANNY	1967	113.00	--	--	--
20	37 38 57 N	082 11 16 W	COOK, R L	1977	85.00	6	--	51
21	37 39 02 N	082 07 07 W	DEAN, THOMAS	--	23.75	--	--	--
22	37 39 03 N	082 02 58 W	PERRY, PAUL	1963	100.00	--	H	--
23	37 39 18 N	082 01 27 W	STATEN, RICKY	--	40.00	--	H	--
24	37 39 23 N	082 05 39 W	STUMBO, JAMES	1975	60.00	6	C	39
25	37 39 50 N	082 09 23 W	TOTTEN, J P	--	40.00	--	--	--
26	37 40 06 N	082 07 28 W	JUSTUS, RAYMOND	1940	16.00	36	D	1
27	37 40 19 N	082 13 02 W	SAMMONS, TOM	07/ /1977	65.00	6	C	36
28	37 41 14 N	082 10 46 W	KENNEDY, HAWK	1956	40.00	6	C	--
29	37 41 19 N	082 17 41 W	COCHRAN, NEWMAN	1950	56.00	6	C	30
30	37 41 33 N	082 04 48 W	FERRELL, JEFF	1964	64.00	6	C	31
31	37 41 50 N	082 13 55 W	EVANS, C R	1974	36.00	6	C	--
32	37 42 09 N	082 07 42 W	SHEPARD, RUSS	05/ /1970	18.00	--	D	--
33	37 42 09 N	082 11 34 W	STEPP, FLORA	1952	73.00	5	C	31
34	37 42 12 N	082 09 53 W	HALL, SHELBY	1950	35.00	6	--	--
35	37 42 32 N	082 16 30 W	RATLIFF, JIM	07/ /1977	72.00	6	C	34
36	37 42 53 N	082 18 19 W	FLETCHER, TOMMY	07/ /1977	60.00	--	C	--
37	37 43 19 N	082 07 35 W	CAREY, WALLACE	1963	63.00	6	--	--
38	37 43 35 N	082 11 34 W	HATFIELD, MARGRET	1950	80.00	6	--	75
39	37 44 18 N	082 10 06 W	MARTIN, WALTER	--	65.00	--	--	--
40	37 44 24 N	082 19 48 W	BLEVINS, GLEN	1976	96.00	6	C	32
41	37 44 54 N	082 13 02 W	WORKMAN, OLIVER	04/ /1978	81.00	8	A	62
42	37 45 35 N	082 13 15 W	CURRY, IRA JR	1975	82.00	--	--	--
43	37 45 45 N	082 18 36 W	ROBINSON, WALLACE	1960	80.00	--	--	--
44	37 45 58 N	082 11 10 W	HANSHAW, EARL	1972	95.00	6	C	39
45	37 45 58 N	082 16 26 W	ROBINETTE, JEFF L	06/ /1978	104.00	--	--	--
46	37 46 10 N	082 08 02 W	DESKINS, KENNETH	1959	63.00	6	C	24
47	37 46 31 N	082 19 23 W	PARSLEY, ALBERT	06/ /1979	85.00	4	C	79
48	37 46 51 N	082 10 11 W	VANCE, MILLARD JR	--	96.00	6	C	5
49	37 47 02 N	082 14 37 W	DAVIS, OLIVER	1954	--	--	--	--
50	37 47 22 N	082 15 57 W	SHIPMAN, WILLIE	1976	53.00	6	C	41
51	37 47 35 N	082 20 32 W	HITCHCOCK, KENNETH	1974	70.00	6	C	--
52	37 48 19 N	082 18 58 W	MEEKS, RAY	1977	--	--	--	--
53	37 48 36 N	082 14 01 W	EVANS, ROY	1959	69.00	6	C	10
54	37 48 49 N	082 16 19 W	HALL, DAVID	1972	55.00	6	C	51
55	37 48 55 N	082 24 01 W	KIRK, IRA W	1974	96.00	--	--	--
56	37 49 01 N	082 12 23 W	NEWSOME, WILLIS	--	78.00	6	--	--
57	37 49 12 N	082 11 11 W	GILMAN, ANDREW J	1950	50.00	6	C	30
58	37 49 37 N	082 14 24 W	HALL, GROVER C	1976	56.00	--	C	--
59	37 50 23 N	082 13 06 W	KING, OTELIA	1962	68.00	--	--	--
60	37 50 47 N	082 21 42 W	CRANK, JAMES	1962	54.00	6	C	19
61	37 51 19 N	082 17 20 W	WHITT, CURTIS	1976	43.00	6	C	31
62	37 51 38 N	082 22 52 W	GILLMAN, EDDIE	1978	68.00	6	C	44
63	37 51 41 N	082 09 34 W	DILLON, SID	1963	35.00	6	C	11
64	37 52 23 N	082 10 36 W	BOYCE, GERALD	--	28.50	6	--	15

REF. NO.	FINISH	TYPE OF LIFT	TYPE OF POWER	HORSE- POWER	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	DISCHARGE (GALLONS PER MINUTE)	OTHER DATA AVAILABLE QW WL
65	X	J	E	0.50	H	1320	--	--	--	H
66	X	J	E	0.50	H	920	16.00	03/ /1973	--	H
1	X	J	E	--	H	1020	--	--	--	H
2	X	J	E	0.75	H	900	2.61	06/25/1979	--	H 0
3	X	J	E	0.75	H	760	15.00	--	--	H
4	X	S	E	--	H	840	10.00	--	--	H
5	--	J	E	0.50	H	1080	--	--	--	H
6	--	S	E	--	H	730	45.00	--	--	H
7	X	S	E	0.33	H	910	20.00	--	--	H
8	--	S	E	0.50	H	990	40.00	--	--	H
9	X	J	E	0.75	H	1050	19.00	--	--	H
10	--	J	E	--	H	720	--	--	--	H
11	--	S	E	--	H	1100	--	--	--	H
12	X	J	E	0.50	H	940	25.00	--	--	H
13	X	J	E	0.50	H	1180	27.00	--	--	H
14	--	J	E	--	H	1220	10.00	--	--	H
15	--	S	E	0.50	H	1400	--	--	--	H
16	--	S	E	--	H	1040	--	--	--	H
17	X	J	E	1.00	H	1330	11.40	06/26/1979	--	H 0
18	W	J	E	--	H	1360	10.00	--	--	H
19	--	S	E	0.75	H	740	60.00	--	--	H
20	--	S	E	--	S	680	--	--	--	H
21	--	--	--	--	U	860	6.50	07/11/1979	--	H 0
22	X	J	E	0.75	H	1180	50.00	--	--	H
23	X	J	E	0.50	H	1320	30.00	--	--	H
24	X	J	E	0.50	H	1060	21.00	--	--	H
25	--	J	E	0.25	H	860	10.00	--	--	H
26	W	S	E	0.50	H	980	--	--	--	H
27	X	--	--	--	U	820	10.00	--	--	H
28	--	--	--	--	H	790	--	--	--	H
29	X	J	E	1.00	H	640	--	--	--	H
30	X	J	E	0.50	H	1100	--	--	--	H
31	X	J	E	0.50	H	960	--	--	--	H
32	W	--	--	--	U	900	8.00	--	--	H 0
33	X	J	E	--	H	890	--	--	--	H
34	--	J	E	0.50	H	800	--	--	--	H
35	X	S	E	0.50	H	750	61.00	--	--	H
36	X	J	E	0.50	H	660	--	--	--	H
37	--	J	E	--	H	940	--	--	--	H
38	--	S	E	--	H	740	--	--	--	H
39	--	J	E	0.50	H	780	15.00	--	--	H
40	X	S	E	3.00	H	680	--	--	--	H
41	X	J	E	--	H	670	60.00	--	--	H
42	--	--	--	--	H	670	--	--	--	H
43	--	S	E	--	H	630	--	--	--	H
44	X	J	E	0.50	H	750	80.00	--	--	H
45	--	--	--	--	U	1100	10.00	--	--	H
46	X	J	E	--	H	890	--	--	--	H
47	X	J	E	--	H	620	40.00	--	--	H
48	X	J	E	--	H	800	--	--	--	H
49	--	J	E	--	H	700	--	--	--	H
50	X	J	E	0.50	H	660	27.00	--	--	H
51	X	--	--	--	H	620	50.00	--	--	H
52	--	--	--	--	H	640	--	--	--	H
53	X	S	E	--	H	750	15.00	--	--	H
54	X	J	E	--	H	660	5.00	--	--	H
55	--	--	--	--	H	610	--	--	--	H
56	--	J	E	--	H	820	--	--	--	H
57	X	J	E	0.50	H	920	3.00	--	--	H
58	X	--	--	--	U	710	20.00	--	--	H
59	--	J	E	0.50	H	750	--	--	--	H
60	X	J	E	--	H	620	--	--	--	H
61	X	--	--	--	U	840	20.00	07/23/1979	--	H
62	X	J	E	--	H	620	30.00	--	--	H
63	X	J	E	--	H	1020	11.00	--	--	H
64	--	S	E	--	P	980	9.00	--	--	H

REF. NO.	LATITUDE AND LONGITUDE DEGREES-MINUTES-SECONDS			OWNER	DATE COMPLETED	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	METHOD CONST- RUCTED	DEPTH CASED
MINGO COUNTY -- CONTINUED									
65	37 52 26 N	082 08 20 W	BROWNING, PAUL	--		12.00	--	D	--
66	37 52 27 N	082 21 32 W	FARLEY, JAMES O	1974		50.00	6	C	--
67	37 53 02 N	082 20 27 W	MARCUM, JOE	1969		57.00	6	C	9
68	37 53 16 N	082 12 14 W	WILSON, CLIFFORD	1974		84.00	--	C	--
69	37 53 27 N	082 08 59 W	CONLEY, MOSS	1950		35.00	24	D	19
70	37 53 36 N	082 13 39 W	BAISDEN, LANDEN	07/ /1957		71.00	6	C	19
71	37 53 56 N	082 18 50 W	MESSER, CLELLEN	1977		55.00	6	C	--
72	37 54 18 N	082 17 02 W	BAISDEN, WOODROW	--		--	--	--	--
73	37 54 27 N	082 10 51 W	THOMAS, MYRTLE	1959		79.00	6	C	--
74	37 55 16 N	082 15 07 W	PARSLEY, PAUL	1959		79.00	6	C	9
75	37 55 54 N	082 11 36 W	SPRY, EDGAR	1971		93.00	6	C	29
76	37 56 17 N	082 16 47 W	WILLIAMS, BESSIE	1967		35.00	6	C	14
77	37 56 52 N	082 12 52 W	GORE, HOWARD	1973		36.00	6	C	8
78	37 57 27 N	082 14 52 W	FURGESOL, LESLIE	1977		44.00	6	C	9
WAYNE COUNTY, WEST VIRGINIA									
1	37 51 46 N	082 24 40 W	JAMES, JOHN	1963		29.50	6	C	14
2	37 53 45 N	082 25 57 W	WILLIAMSON, BOBBY	1960		95.00	6	C	--
3	37 54 04 N	082 24 08 W	COPLEY, BIRDIE	1976		90.00	--	--	--
4	37 54 37 N	082 21 58 W	MEADE, HOWARD	1972		100.00	6	C	--
5	37 54 37 N	082 27 22 W	FARLEY, WILLIAM H	1971		160.00	6	C	--
6	37 54 39 N	082 27 20 W	FARLEY, WILLIAM H	1976		60.00	6	C	--
7	37 56 19 N	082 25 28 W	MARCUM, MARIE	1973		84.00	6	C	44
8	37 56 47 N	082 28 28 W	ENDICOTT, W J	1975		75.00	6	C	30
9	37 57 42 N	082 23 43 W	MESSER, JENNIE	1952		60.00	6	--	--
10	37 57 42 N	082 23 43 W	MESSER, JENNIE	--		12.80	24	D	2
11	37 57 46 N	082 26 01 W	GILLMAN, G P JR	1976		96.00	6	C	2
12	37 57 54 N	082 26 42 W	BROWNING, WALTER	1969		46.00	--	--	--
13	37 58 07 N	082 28 59 W	RATLIFFE, FRED JR	1977		62.00	6	C	18
14	37 58 33 N	082 21 21 W	WV DIV OF FORESTRY	--		120.20	5.50	C	--
15	37 59 17 N	082 24 15 W	PERRY, JAMES A	1964		50.00	6	C	28
16	37 59 19 N	082 17 39 W	MAYNARD, GARY	1973		50.00	6	--	19
17	37 59 24 N	082 28 08 W	COPLEY, ARVEL	1965		94.00	6	C	20
18	38 00 27 N	082 30 44 W	PAYNE, BOOKER	1976		120.00	6	C	--
19	38 00 30 N	082 24 55 W	NESTOR, CLAUDE	1977		63.00	6	C	--
20	38 00 42 N	082 18 20 W	COPLEY	1978		31.60	6	C	--
21	38 01 33 N	082 29 00 W	LITTLE, CARL K	1965		67.00	6	C	17
22	38 02 11 N	082 32 09 W	STURGILL, CHARLES	--		--	--	--	--
23	38 02 28 N	082 25 32 W	BECKETT, MARY	1973		56.00	6	C	8
24	38 02 31 N	082 27 36 W	CARRICO, ARDITH	1964		67.00	6	C	--
25	38 03 36 N	082 29 26 W	ARTIP, GEORGE	--		82.00	--	--	--
26	38 04 01 N	082 31 27 W	HARDWICK, JAMES	1968		68.00	6	C	28
27	38 04 30 N	082 25 58 W	MAYNARD, BUSTER	1966		75.00	6	--	--
28	38 04 46 N	082 23 56 W	VANNATTER, KEELING	1977		310.00	6	C	20
29	38 05 01 N	082 18 43 W	CORPS OF ENGINEERS	10/ /1970		54.00	6	C	22
30	38 05 11 N	082 27 40 W	ROSS, DOROTHY	1974		91.00	6	C	--
31	38 05 23 N	082 32 26 W	RATCLIFFE, WILLIAM	1975		40.00	6	C	36
32	38 05 39 N	082 30 31 W	ADKINS, WALLACE	--		50.00	6	--	--
33	38 05 41 N	082 15 25 W	QUEEN, ERNEST	1966		50.00	6	C	8
34	38 05 45 N	082 14 50 W	QUEEN, LEONARD	11/12/1979		82.00	6	C	20
35	38 05 59 N	082 25 54 W	ADAMS, GENEVIEVE	1969		71.00	6	C	--
36	38 06 13 N	082 34 04 W	CYRUS, DELBERT	1970		130.00	6	C	28
37	38 06 39 N	082 29 50 W	HOLT, JACK	07/ /1979		210.00	6	C	160
38	38 06 47 N	082 17 48 W	BROOKS, ERNIE	1976		52.00	6	C	14
39	38 06 48 N	082 32 32 W	COLLINS, KELLY	1965		175.00	--	--	--
40	38 07 08 N	082 19 52 W	CORPS OF ENGINEERS	09/ /1970		95.00	6	C	64
41	38 07 11 N	082 30 53 W	JUDE, JOHN	--		200.00	--	--	--
42	38 07 18 N	082 27 29 W	ENDICOTT, LARRY	1964		60.00	6	C	2
43	38 07 40 N	082 34 49 W	LACKINS, JAMES	11/ /1979		135.00	6	C	--
44	38 07 43 N	082 22 33 W	CORPS OF ENGINEERS	09/ /1970		105.00	6	C	25
45	38 08 18 N	082 20 21 W	STEELE, Y V	1974		110.00	6	C	--
46	38 08 29 N	082 32 20 W	ROBERTSON, EUGENE	1971		80.00	--	--	--
47	38 08 32 N	082 24 21 W	THOMPSON, BRUCE	1945		35.00	6	C	12
48	38 09 03 N	082 28 04 W	CLARK, WILLIAM H	--		113.00	--	--	--
49	38 09 09 N	082 36 50 W	FRALEY, JAMES	1978		65.00	6	C	36
50	38 09 32 N	082 33 56 W	PERRY, B J	1965		70.00	6	C	40
51	38 09 37 N	082 30 46 W	BREWER, LEE	--		104.00	6	--	80
52	38 09 53 N	082 26 15 W	NAPIER, EDGAR	1958		67.00	6	C	35
53	38 10 00 N	082 22 45 W	NAPIER, ALLEN F	1967		80.00	6	C	--
54	38 10 14 N	082 17 37 W	SANDERS, GEORGE	1973		180.00	6	C	60

REF. NO.	FINISH	TYPE OF LIFT	TYPE OF POWER	HORSE- POWER	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	DISCHARGE (GALLONS PER MINUTE)	OTHER DATA AVAILABLE QW WL
65	W	J	E	--	H	1210	--	--	--	H
66	X	J	E	--	H	760	40.00	--	--	H
67	X	J	E	--	H	760	--	--	--	H
68	X	J	E	--	H	920	--	--	--	H
69	--	S	E	--	H	1020	15.00	--	--	H
70	X	J	E	--	H	900	--	--	--	H
71	X	J	E	--	H	880	--	--	--	H
72	--	J	E	1.00	H	920	--	--	--	H
73	X	J	E	--	H	900	--	--	--	H
74	X	J	E	--	H	860	--	--	--	H
75	X	J	E	--	H	860	--	--	--	H
76	X	J	E	--	H	800	--	--	--	H
77	X	J	E	--	H	890	--	--	--	H
78	X	J	E	--	H	780	--	--	--	H
1	X	S	E	--	H	620	10.00	--	--	H
2	X	J	E	--	H	620	--	--	--	H
3	--	S	E	--	H	630	--	--	--	H
4	X	J	E	--	H	680	--	--	--	H
5	X	J	E	--	H	630	--	--	--	H
6	X	J	E	--	H	640	--	--	--	H
7	X	J	E	--	H	720	--	--	--	H
8	X	S	E	0.50	H	600	35.00	--	6.0	H
9	--	J	E	0.33	H	760	13.26	10/17/1979	--	H 0
10	W	B	H	--	H	760	11.18	10/17/1979	--	H 0
11	X	J	E	0.25	H	720	36.00	1976	--	H
12	--	J	E	--	H	740	--	--	--	H
13	X	S	E	--	H	620	25.00	1977	--	H
14	X	--	--	--	U	760	28.52	10/16/1979	--	A W
15	X	J	E	0.30	H	720	8.00	1975	--	H
16	--	J	E	--	H	760	--	--	--	H
17	X	J	E	0.50	H	660	54.00	--	--	H
18	X	J	E	--	H	590	50.00	--	--	H
19	X	J	E	0.50	H	697	--	--	--	H
20	X	--	--	--	U	740	9.08	10/18/1979	--	0
21	X	C	E	0.75	H	600	17.00	--	--	H
22	--	--	--	--	H	600	--	--	--	H
23	X	J	E	0.50	H	700	--	--	--	H
24	X	J	E	0.50	H	840	--	--	--	H
25	--	J	E	--	H	680	20.00	--	--	H
26	X	J	E	--	H	640	--	--	--	H
27	--	J	E	0.50	H	670	25.00	--	--	H
28	X	S	E	--	H	1090	--	--	--	H
29	X	S	E	0.75	P	690	20.00	--	6.0	H
30	X	J	E	0.50	H	670	--	--	10	H
31	X	J	E	--	H	590	40.00	--	--	H
32	--	J	E	--	H	690	--	--	--	H
33	X	J	E	--	H	880	25.00	--	35	H
34	X	S	E	0.75	H	920	20.00	--	8.0	H
35	X	J	E	--	H	740	--	--	--	H
36	X	J	E	0.75	H	570	--	--	--	H
37	X	S	E	--	H	850	--	--	0.50	H
38	X	J	E	--	H	750	6.00	1976	--	H
39	--	S	E	--	H	760	--	--	--	H
40	X	S	E	0.75	P	700	30.00	10/ /1979	12	H
41	--	--	--	--	U	960	--	--	--	H
42	X	J	E	0.50	H	640	20.00	--	--	H
43	X	--	--	--	H	650	49.49	11/29/1979	3.0	0
44	X	S	E	1.00	P	700	40.00	--	15	H
45	X	S	E	0.50	H	760	30.00	1974	--	H
46	--	J	E	0.75	H	790	--	--	--	H
47	X	J	E	0.50	H	650	--	--	--	H
48	--	J	E	0.75	H	630	--	--	--	H
49	X	J	E	0.50	H	570	10.00	--	--	H
50	X	J	E	0.50	H	620	10.00	--	--	H
51	--	J	E	0.75	H	680	30.00	--	--	H
52	X	J	E	0.50	H	690	10.00	--	--	H
53	X	J	E	0.50	H	630	--	--	--	H
54	X	S	E	--	H	840	90.00	--	--	H

REF. NO.	LATITUDE AND LONGITUDE DEGREES-MINUTES-SECONDS		OWNER	DATE COMPLETED	DEPTH OF WELL (FEET)	CASING DIAM- ETER (INCHES)	METHOD CONST- RUCTED	DEPTH CASED
WAYNE COUNTY -- CONTINUED								
55	38 10 20 N	082 20 55 W	BROOKS, BOYD	--	--	6	--	--
56	38 10 33 N	082 28 54 W	LYCAN, WOODROW	1974	180.00	6	C	15
57	38 10 40 N	082 33 15 W	MATNEY, JAMES	1974	55.00	6	C	--
58	38 11 02 N	082 35 50 W	AILIFF, WILLIAM	1975	120.00	6	C	--
59	38 11 20 N	082 24 21 W	WATTS, JONEY	1964	75.00	6	C	--
60	38 11 55 N	082 17 10 W	SMITH, EARL G	--	130.00	6	C	25
61	38 12 02 N	082 21 33 W	FRALEY, HAWTHORN	1939	50.00	5	C	15
62	38 12 25 N	082 35 46 W	MEADE, SHELTON	09/ 1979	68.00	2	V	65
63	38 12 33 N	082 31 09 W	DEVON CORP	1958	125.00	10	--	--
64	38 12 35 N	082 22 43 W	HALL, PAULINE N	1961	68.00	6	C	--
65	38 13 01 N	082 19 14 W	WALKER, CLARENCE	1968	56.00	6	C	33
66	38 13 10 N	082 16 48 W	ADKINS, WETZEL	1972	50.00	6	C	15
67	38 13 15 N	082 25 07 W	SANDERS, TERRY	1967	50.00	6	C	22
68	38 13 19 N	082 20 42 W	BLANKENSHIP, ALBERT	1972	75.00	6	C	42
69	38 13 21 N	082 34 31 W	SMITH, GARY	1970	--	6	C	--
70	38 13 26 N	082 28 36 W	THOMPSON, TRUMAN	1970	46.00	6	C	18
71	38 13 51 N	082 32 15 W	ADKINS, OTHA O	1973	80.00	6	C	--
72	38 14 17 N	082 36 04 W	DAMRON, FRED	1969	85.00	8	C	35
73	38 14 28 N	082 22 37 W	DICK, ROY	1963	60.00	6	C	30
74	38 14 53 N	082 33 22 W	MEALEY, JACK	1976	160.00	6	C	--
75	38 15 36 N	082 26 40 W	LYCANS, RUBIN	--	94.00	6	--	20
76	38 15 45 N	082 33 44 W	ADKINS, CARL F	1977	80.00	6	C	47
77	38 15 59 N	082 31 25 W	BALLENGEE, JACK	1966	50.00	6	C	--
78	38 16 13 N	082 34 19 W	MATTHEWS, HOWARD W	06/28/1978	84.00	6	C	66
79	38 16 21 N	082 21 52 W	PYLES, ROBERT	1976	75.00	6	C	30
80	38 17 09 N	082 27 34 W	ADKINS, RICHARD	1949	85.00	6	--	--
81	38 17 47 N	082 31 31 W	PRESTON, WILLIAM H	1971	400.00	6	C	35
82	38 18 09 N	082 32 54 W	THACKER, ROY	--	42.00	6	--	--
83	38 18 18 N	082 30 41 W	NELSON, ROGER	1968	60.00	6	C	--
84	38 18 28 N	082 18 15 W	CHAPMAN, R L	--	100.00	6	--	--
85	38 18 32 N	082 28 39 W	BIAS, A L	1965	120.00	6	C	38
86	38 18 47 N	082 33 49 W	PRESTON, BERNARD	1967	--	6	C	--
87	38 19 06 N	082 31 00 W	ADKINS, JAY	1955	52.00	6	C	30
88	38 20 39 N	082 34 04 W	JANES, WILLIAM D	1958	93.00	6	C	14
89	38 20 40 N	082 27 00 W	BARBOUR, K W	--	--	6	--	--
90	38 20 50 N	082 30 54 W	MOSS, HERMAN	--	147.00	--	--	--
91	38 21 33 N	082 29 22 W	ADKINS, EARL	1966	80.00	6	--	--
92	38 22 03 N	082 34 50 W	HATTEN, LORY B	1940	130.00	--	C	--

REF. NO.	FINISH	TYPE OF LIFT	TYPE OF POWER	HORSE- POWER	USE OF WATER	ALTITUDE OF LAND SURFACE (FEET)	WATER LEVEL (FEET)	DATE WATER LEVEL MEASURED	DISCHARGE (GALLONS PER MINUTE)	OTHER DATA AVAILABLE QW WL
55	--	J	E	--	H	700	65.00	--	--	H
56	X	S	E	0.50	H	680	80.00	1974	5.0	H
57	X	J	E	0.50	H	610	18.29	08/28/1980	--	H 0
58	X	J	E	--	H	560	39.52	08/27/1980	26	H 0
59	X	J	E	0.75	H	600	17.00	--	--	H
60	X	S	E	0.50	H	780	60.00	--	--	H
61	X	J	E	0.50	H	840	10.00	--	--	H
62	P	J	E	1.00	H	560	--	--	--	H
63	--	J	E	--	H	620	--	--	--	H
64	X	J	E	0.75	H	900	--	--	--	H
65	X	J	E	0.50	H	690	--	--	--	H
66	X	J	E	0.50	H	760	6.12	12/11/1979	--	H 0
67	X	J	E	0.50	H	640	6.00	--	3.5	H
68	X	J	E	0.75	H	740	40.00	--	--	H
69	--	J	E	--	H	590	--	--	--	H
70	X	J	E	1.00	H	680	15.00	--	--	H
71	X	J	E	0.75	H	600	25.00	--	3.5	H
72	X	J	E	1.00	H	620	40.00	1969	--	H
73	X	J	E	0.75	H	680	--	--	--	H
74	X	S	E	0.50	H	570	15.00	--	1.0	H
75	--	--	--	--	U	620	26.00	--	--	H
76	X	J	E	0.50	H	580	30.00	--	6.5	H
77	X	J	E	--	H	590	--	--	--	H
78	X	S	E	--	H	540	33.24	08/26/1980	--	H 0
79	X	J	E	0.50	H	650	--	--	1.5	H
80	--	--	--	--	U	640	40.00	--	--	H
81	X	P	E	2.00	H	850	200.00	--	0.58	H
82	--	J	E	0.75	H	560	--	--	--	H
83	X	J	E	0.75	H	640	35.00	--	6.0	H
84	--	J	E	0.75	H	640	50.00	--	--	H
85	X	J	E	1.50	H	630	--	--	--	H
86	X	J	E	0.50	H	560	19.02	08/25/1980	--	H 0
87	X	J	E	0.50	H	590	--	--	--	H
88	X	S	E	1.00	H	600	30.00	--	--	H
89	--	J	E	0.50	H	580	--	--	--	H
90	--	--	--	--	T	570	--	--	--	H
91	--	J	E	0.25	H	670	25.00	--	--	H
92	X	S	E	0.75	H	580	--	--	--	H

TABLE 10.--RECORDS OF WATER LEVEL FOR TWO OBSERVATION WELLS

WAYNE COUNTY REFERENCE NO. 14. LOCAL NO. 50-6-5.

HIGHEST WATER LEVEL 27.70 FEET BELOW LAND SURFACE DATUM JAN 05, 1972; MAR 01, 1972.

LOWEST WATER LEVEL 30.97 FEET BELOW LAND SURFACE DATUM SEP 30, 1981.

WATER LEVELS IN FEET BELOW LAND SURFACE DATUM.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAY 26, 1971	29.20	MAR 22, 1972	28.70	JAN 24, 1973	29.20	NOV 28, 1973	29.45
JUN 02	29.20	29	28.70	31	29.20	DEC 05	29.45
09	29.62	APR 05	28.50	FEB 07	29.20	12	29.45
16	30.62	12	28.60	14	29.20	19	29.40
23	29.53	19	28.40	21	29.30	26	29.35
30	28.70	25	28.30	28	30.30	JAN 02, 1974	29.35
JUL 07	28.53	MAY 03	29.20	MAR 07	30.40	09	29.30
14	28.70	10	29.30	14	30.50	16	29.30
21	28.37	17	29.25	21	30.45	23	29.10
28	28.90	24	29.30	28	29.90	30	29.10
AUG 04	28.80	31	28.80	APR 04	29.90	FEB 06	29.10
11	28.90	JUN 07	28.80	11	29.80	13	29.10
18	29.80	14	29.00	18	29.90	20	29.10
25	29.60	21	29.20	25	30.00	27	29.10
SEP 01	29.50	JUL 05	29.80	MAY 02	28.70	MAR 06	29.00
08	29.40	12	29.70	09	28.50	13	28.90
15	29.50	19	29.90	16	28.70	20	28.70
22	29.50	26	29.80	23	28.70	27	28.80
29	29.70	AUG 02	29.70	30	29.60	APR 03	28.80
OCT 06	29.70	09	29.70	JUN 06	29.50	10	29.00
13	29.80	16	29.60	13	29.50	17	29.10
20	29.90	23	29.70	20	29.50	24	29.10
26	29.90	30	29.70	JUL 04	29.80	MAY 01	28.90
NOV 03	29.60	SEP 06	29.70	11	29.85	08	29.30
10	29.60	13	29.80	18	29.80	15	29.30
17	29.70	20	29.80	25	29.80	22	28.80
23	29.70	27	29.80	AUG 01	30.00	29	28.80
DEC 01	29.65	OCT 04	29.65	08	30.00	JUN 05	28.90
08	29.64	11	29.70	15	29.90	12	29.20
15	29.63	18	29.70	22	29.90	19	29.80
22	29.64	25	28.80	29	29.90	25	29.50
29	29.90	NOV 01	29.10	SEP 05	29.90	26	29.10
JAN 05, 1972	27.70	08	29.20	12	29.95	JUL 03	29.20
12	28.20	15	29.00	19	29.90	10	29.20
19	28.70	22	29.00	26	29.90	17	29.60
24	28.70	29	29.20	OCT 03	29.90	22	29.70
FEB 02	28.80	DEC 06	28.50	10	29.90	31	29.70
09	28.70	13	28.20	17	29.20	AUG 07	29.70
16	28.20	20	28.70	24	29.85	14	29.70
23	28.70	27	29.30	31	29.60	21	29.80
MAR 01	27.70	JAN 03, 1973	29.40	NOV 07	29.60	28	29.70
08	28.20	10	29.30	14	29.50	SEP 04	29.70
15	28.60	17	29.20	21	29.50	11	29.70

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
SEP 18, 1974	29.60	AUG 13, 1975	29.60	SEP 08, 1976	29.80	OCT 12, 1977	29.50
23	29.60	20	29.70	15	29.60	19	29.40
OCT 02	29.60	SEP 03	29.60	22	29.60	25	29.10
09	29.40	10	29.40	29	29.60	NOV 02	29.10
16	29.30	17	29.30	OCT 06	29.55	09	29.00
23	29.40	24	29.20	13	29.55	16	29.00
30	29.30	OCT 01	29.10	22	29.45	23	28.90
NOV 06	29.30	08	29.10	NOV 03	29.45	DEC 07	28.90
13	29.20	15	29.00	10	29.45	14	28.90
20	29.10	22	29.00	17	29.40	21	29.00
27	28.80	29	29.40	24	29.40	JAN 04, 1978	29.00
DEC 04	28.80	NOV 05	29.40	DEC 01	29.40	11	29.00
11	28.90	12	29.45	08	29.30	18	28.90
18	29.00	19	29.40	15	28.90	25	28.90
20	29.00	25	29.40	22	28.70	FEB 01	28.90
JAN 01, 1975	29.00	DEC 03	29.40	JAN 05, 1977	28.90	08	28.90
08	29.00	10	29.40	12	28.70	15	29.00
15	28.90	17	29.45	20	28.50	22	29.00
22	28.80	20	29.40	FEB 02	28.50	MAR 01	29.00
29	28.80	31	29.40	09	28.45	08	29.00
FEB 05	28.80	JAN 07, 1976	29.40	16	28.50	15	29.00
12	28.80	14	29.45	23	28.55	22	28.95
19	28.70	21	29.50	MAR 02	28.40	APR 05	29.20
24	28.70	MAR 03	28.95	09	28.30	12	29.30
26	28.80	10	28.90	16	28.10	20	29.50
MAR 05	28.80	17	28.90	23	28.40	MAY 03	29.50
12	28.80	24	28.70	APR 06	28.50	10	29.40
19	28.75	31	28.80	13	28.70	17	29.40
23	28.75	APR 07	29.00	20	29.00	24	29.30
26	28.80	14	29.20	MAY 04	29.70	31	29.70
APR 02	28.80	21	29.40	11	29.80	JUN 07	29.80
09	28.75	28	29.40	18	29.80	14	30.00
16	28.70	MAY 05	29.40	25	29.80	21	30.10
23	28.65	12	29.40	01	29.80	28	30.10
30	28.70	19	29.43	08	29.80	JUL 05	30.10
MAY 07	28.75	21	29.45	15	29.70	12	30.20
14	28.80	JUN 02	29.45	22	29.70	19	30.30
21	28.90	09	29.45	JUL 06	29.70	24	30.30
28	29.00	16	29.50	13	29.70	AUG 02	30.00
JUN 04	29.10	23	29.55	22	29.80	09	29.70
11	29.10	30	29.55	AUG 03	29.70	16	29.30
18	29.30	JUL 07	29.55	10	29.60	23	29.20
25	29.35	14	29.50	17	28.70	30	29.20
JUL 02	29.35	21	29.50	24	28.80	SEP 06	29.10
09	29.35	AUG 04	29.40	31	29.20	13	29.10
16	29.40	11	29.50	SEP 07	29.30	20	29.05
23	29.50	18	29.50	14	29.30	OCT 04	29.10
30	29.50	24	29.80	21	29.60	11	29.10
AUG 06	29.50	SEP 01	29.80	OCT 05	29.60	18	29.20

WAYNE COUNTY REFERENCE NO. 14 LOCAL NO. 50-6-5.--Continued

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 25, 1978	29.20	APR 09, 1980	28.47	NOV 12, 1980	29.87	JUN 10, 1981	28.87
OCT 16, 1979	28.52	16	28.47	19	29.67	17	28.87
19	28.89	23	28.77	24	29.57	23	28.77
26	29.90	30	28.67	DEC 03	29.47	JUL 01	29.17
NOV 07	29.20	MAY 07	28.47	10	29.17	08	29.17
14	29.10	14	28.47	17	29.07	15	29.17
21	29.10	21	28.37	23	28.97	22	29.17
27	27.98	28	28.67	JAN 07, 1981	29.47	AUG 05	29.17
28	28.82	JUN 04	28.92	14	29.57	12	29.17
DEC 05	29.07	11	29.17	21	29.67	19	29.67
12	28.87	18	29.57	FEB 04	29.27	24	30.17
19	28.97	25	29.00	11	29.22	SEP 02	30.42
26	28.67	JUL 02	29.00	18	29.07	09	30.57
JAN 02, 1980	29.42	09	29.20	23	28.87	16	29.77
09	28.82	16	29.70	MAR 04	28.47	23	29.67
16	28.97	23	29.90	11	28.47	30	30.97
23	28.92	30	30.37	18	28.67	OCT 07	30.07
30	28.92	AUG 06	30.57	23	28.87	14	29.77
FEB 06	28.92	27	30.62	25	28.87	21	29.87
13	29.67	SEP 03	30.57	APR 01	28.87	NOV 04	29.57
20	28.97	10	30.47	08	28.77	11	29.47
27	28.67	17	30.57	13	28.77	18	29.47
MAR 05	28.47	24	30.62	22	28.77	24	29.47
12	28.67	OCT 01	30.37	MAY 06	28.77	DEC 02	29.47
19	28.77	08	30.27	13	28.97	09	29.42
22	28.77	15	30.27	20	29.07	16	29.37
26	28.57	22	30.07	23	29.17	23	29.37
APR 02	28.57	NOV 05	29.97	JUN 03	28.87		

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HIGHEST WATER LEVEL 19.27 BELOW LAND-SURFACE DATUM MAR 13, 1980.

LOWEST WATER LEVEL 40.62 BELOW LAND-SURFACE DATUM NOV 14, 1978.

WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM, INSTANTANEOUS OBSERVATIONS AT NOON.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977												
5				---	---	---	20.09	21.55	29.88	22.85	28.72	22.60
10				---	---	20.79	20.29	21.23	27.62	26.89	27.53	23.13
15				---	---	20.42	21.40	21.08	26.68	26.25	25.39	24.47
20				---	20.97	22.05	21.30	26.89	26.47	36.64	24.17	24.90
25				22.23	20.89	21.70	22.96	28.28	25.32	34.78	24.21	24.61
EOM				---	20.67	21.10	22.45	29.82	23.90	29.90	23.48	24.44

WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

5	23.92	21.36	19.92	20.98	20.83	20.86	20.71	23.01	23.52	31.79	33.92	---
10	22.64	20.72	20.72	20.68	21.00	20.29	20.20	22.32	23.76	30.00	32.55	---
15	22.31	21.24	20.38	20.98	20.69	19.99	---	20.94	23.97	31.35	31.90	---
20	22.15	20.98	20.20	22.40	20.25	20.11	---	22.63	25.66	30.92	33.80	---
25	21.79	20.31	20.20	21.65	20.49	20.61	---	23.31	29.08	34.13	36.64	---
EOM	21.25	20.81	20.59	22.06	20.36	20.60	23.00	23.33	34.01	33.66	---	37.04

WATER YEAR OCTOBER 1978 TO SEPTEMBER 1979

5	38.75	38.47	39.55	28.43	23.87	22.57	21.98	22.45	23.17	27.25	24.74	25.80
10	37.36	38.66	36.77	26.77	23.64	22.15	21.68	22.43	23.45	26.30	27.78	25.74
15	37.63	40.18	34.95	26.17	23.20	22.27	21.81	23.49	25.99	24.65	25.93	26.72
20	38.04	39.98	33.10	24.61	23.68	22.03	21.81	25.90	25.06	24.48	26.60	28.96
25	38.28	40.00	31.17	24.09	22.75	21.52	24.36	23.42	24.67	25.37	25.33	26.48
EOM	38.42	40.12	29.42	23.66	22.54	21.92	23.10	23.29	23.74	23.71	25.23	24.95

WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

5	24.24	23.26	20.79	20.58	20.22	19.96	20.08	21.16	26.58	33.14	28.91	26.61
10	23.84	22.18	21.08	21.04	19.81	19.34	20.76	22.34	28.03	32.86	27.67	27.33
15	23.70	21.53	21.17	21.03	20.14	19.91	20.51	24.26	28.94	30.17	27.12	27.27
20	23.11	21.34	20.89	20.39	19.65	20.19	20.50	23.12	30.41	29.92	26.96	27.47
25	23.04	20.62	20.09	19.72	19.63	20.11	22.90	22.78	31.17	29.19	26.23	27.94
EDM	23.12	20.82	20.65	19.70	19.88	19.72	21.19	22.90	33.23	28.85	26.83	28.45

WATER YEAR OCTOBER 1980 TO SEPTEMBER 1981

5	28.96	31.40	25.31	22.92	21.27	20.53	20.18	21.58	21.27	24.09	27.99	32.38
10	29.47	31.15	24.19	22.38	21.02	21.48	20.47	21.75	21.30	23.88	28.29	32.12
15	30.99	31.71	23.41	21.96	21.24	21.02	21.33	26.80	22.26	25.01	28.00	32.23
20	32.26	30.52	23.50	21.81	20.27	20.54	20.22	23.30	22.15	24.77	28.49	32.06
25	31.63	28.34	23.13	21.58	20.31	20.77	20.44	22.66	26.01	25.45	31.55	35.47
EDM	31.64	26.65	22.55	21.62	21.06	20.42	20.36	22.10	25.08	26.51	34.23	33.71

WATER YEAR OCTOBER 1981 TO SEPTEMBER 1982

5	33.88	33.78	33.61
10	34.11	34.25	32.98
15	34.68	33.99	32.09
20	34.23	34.20	30.49
25	34.01	34.29	28.63
FOM	34.04	33.64	26.95

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
LAWRENCE													
1	37 58 06	082 31 46	01	79-08-22	800	7.0	20.0	93	0	25	7.5	180	3.6
2	37 58 18	082 33 39	01	79-08-22	780	7.5	15.0	73	0	21	5.1	150	3.4
3	37 59 21	082 30 22	01	79-08-22	4000	6.9	18.5	680	540	200	43	510	6.9
4	37 59 42	082 32 01	01	79-08-22	13800	7.1	--	990	790	260	82	2700	24
5	38 01 28	082 33 11	01	79-08-22	820	7.2	--	73	0	22	4.4	130	4.1
MARTIN													
1	37 43 24	082 26 27	01	79-08-08	360	7.0	20.0	22	0	5.9	1.8	70	2.0
2	37 45 12	082 26 45	01	79-08-08	440	7.3	20.0	14	0	3.5	1.2	90	1.7
3	37 46 12	082 28 37	01	79-08-08	56	6.1	18.5	18	10	4.4	1.7	3.1	1.0
4	37 47 15	082 26 35	01	79-08-09	720	7.9	17.5	59	0	17	4.0	140	3.3
5	37 47 20	082 35 14	01	79-08-07	200	6.0	20.0	42	0	11	3.6	7.3	1.6
6	37 47 22	082 24 29	01	79-08-09	420	6.5	18.0	170	47	47	12	19	2.9
7	37 47 34	082 31 28	01	79-08-07	520	7.3	18.5	61	0	17	4.5	110	4.0
8	37 48 28	082 33 42	01	79-08-07	400	6.6	20.0	110	0	32	8.2	37	2.9
9	37 48 42	082 25 16	01	79-08-09	320	6.9	--	130	40	27	15	16	3.3
10	37 48 44	082 25 19	01	79-08-09	380	7.2	20.0	140	26	28	16	13	2.9
11	37 49 08	082 30 28	01	79-08-07	134	6.9	17.0	75	0	21	5.4	7.6	2.2
12	37 49 08	082 35 54	01	79-08-15	400	6.8	20.0	170	43	51	11	17	3.4
13	37 49 41	082 26 36	01	79-08-15	800	7.0	18.5	43	0	13	2.6	160	3.5
14	37 49 56	082 28 50	01	79-08-10	380	8.2	17.0	140	0	43	7.9	25	3.5
15	37 50 04	082 25 28	01	79-08-15	420	6.6	--	160	0	42	14	31	4.9
16	37 50 45	082 36 09	01	79-08-15	740	6.9	17.0	130	0	38	9.4	100	3.2
17	37 50 51	082 32 22	01	79-08-07	400	6.9	--	130	0	40	7.9	29	3.3
18	37 50 52	082 32 17	01	79-08-07	360	6.7	15.5	160	0	51	9.0	15	1.9
19	37 50 58	082 30 13	01	79-08-10	980	7.4	19.0	120	0	38	5.3	160	3.5
20	37 51 02	082 26 21	01	79-08-15	280	6.1	18.0	120	15	33	8.0	18	4.5
21	37 51 07	082 39 17	01	79-08-17	460	6.2	15.0	210	0	60	14	25	3.9
22	37 51 19	082 37 19	01	79-08-15	320	6.8	16.0	66	0	19	4.5	44	4.5
23	37 52 05	082 35 48	01	79-08-15	500	7.3	17.0	23	0	6.0	1.9	110	2.5
24	37 52 47	082 35 15	01	79-08-21	1000	7.3	19.0	120	5	31	9.2	150	3.3
25	37 52 59	082 27 37	01	79-10-17	440	7.2	15.5	78	0	22	5.5	61	3.2
27	37 54 05	082 34 53	01	79-08-21	60	7.0	19.0	18	6	3.4	2.3	1.5	2.3
28	37 54 52	082 33 02	01	79-08-21	1020	7.4	18.0	240	0	65	19	120	5.7
30	37 56 11	082 32 10	01	79-08-21	300	7.1	20.0	98	0	28	6.9	18	4.0
PIKE													
1	37 26 39	082 07 13	01	79-06-06	240	6.9	15.0	77	0	20	6.5	15	1.7
2	37 27 25	082 09 14	01	79-06-28	170	6.6	15.0	47	0	12	4.2	18	1.3
3	37 28 03	082 11 41	01	79-06-28	75	7.0	19.0	22	8	4.9	2.4	2.8	1.6
4	37 28 26	082 05 04	01	79-06-05	170	7.4	15.5	58	0	15	5.0	12	1.5

REF. NO.	DATE OF SAMPLE	ALKA- LINIT FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
LAWRENCE											
1	79-08-22	290	2.8	130	12	518	.00	.040	20	310	70
2	79-08-22	300	1.8	78	12	460	.01	.030	10	30	20
3	79-08-22	140	3.8	1200	20	2640	.01	<.010	20	7300	260
4	79-08-22	200	36	4800	10	9400	.04	.010	20	880	120
5	79-08-22	200	3.7	130	16	453	.03	.010	20	50	50
MARTIN											
1	79-08-08	160	.1	14	16	213	.02	.030	20	150	20
2	79-08-08	150	.7	39	15	240	.04	.120	20	550	<10
3	79-08-08	8	11	1.4	13	51	.28	<.010	40	50	<10
4	79-08-09	180	.9	110	13	384	.01	.100	10	840	80
5	79-08-07	51	.7	5.9	11	72	.01	.010	20	22000	300
6	79-08-09	120	74	5.4	20	264	.12	.010	10	5100	1100
7	79-08-07	220	1.4	39	14	305	.01	.090	20	150	80
8	79-08-07	140	2.6	38	20	220	.00	.040	30	2600	130
9	79-08-09	89	53	5.3	14	190	.37	<.010	20	140	140
10	79-08-09	110	36	8.7	16	184	.02	<.010	10	16000	2700
11	79-08-07	79	6.5	2.0	18	110	.22	.010	30	170	30
12	79-08-15	130	54	12	25	260	.10	<.010	10	1600	220
13	79-08-15	210	1.3	120	18	448	.07	.050	20	220	30
14	79-08-10	160	7.2	13	16	223	.00	<.010	20	2200	200
15	79-08-15	190	24	2.8	20	256	.02	.010	20	2200	210
16	79-08-15	140	.3	140	18	393	.01	.040	20	1200	60
17	79-08-07	180	.5	11	23	222	.00	.010	10	1700	40
18	79-08-07	190	3.7	2.2	22	212	.00	.020	10	1500	610
19	79-08-10	180	1.7	200	15	521	.08	<.010	20	720	100
20	79-08-15	100	31	13	14	184	.05	<.010	20	140	<10
21	79-08-17	210	24	19	18	292	.04	<.010	20	420	300
22	79-08-15	150	3.8	10	15	191	.01	.030	10	2000	330
23	79-08-15	170	1.7	54	12	297	.01	.570	10	660	30
24	79-08-21	110	2.4	240	6.3	512	.04	<.010	10	120	40
25	79-10-17	170	4.9	24	17	249	.07	.020	30	80	50
27	79-08-21	12	14	2.0	8.9	46	.27	<.010	10	70	40
28	79-08-21	250	26	160	16	563	.01	<.010	10	100	560
30	79-08-21	140	1.8	2.8	20	160	.01	.020	10	7100	60
PIKE											
1	79-06-06	110	2.3	2.5	16	144	.00	.110	20	4400	130
2	79-06-28	75	3.2	2.9	16	116	.03	.050	30	2900	690
3	79-06-28	14	14	1.3	9.6	47	.01	<.010	40	20	6
4	79-06-05	72	3.9	4.2	13	103	.04	.020	30	550	130

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
PIKE													
5	37 29 03	082 12 16	01	79-06-28	200	7.6	15.0	65	0	19	4.2	25	2.1
6	37 29 17	082 06 14	01	79-06-05	220	7.6	15.5	56	0	16	3.9	27	1.3
7	37 29 37	082 04 29	01	79-06-05	290	7.1	17.0	56	0	15	4.5	41	1.6
8	37 29 53	082 08 11	01	79-06-28	280	7.2	17.0	110	0	29	8.4	26	2.2
9	37 30 46	082 09 05	01	79-06-27	220	7.4	17.0	81	0	22	6.3	27	1.8
10	37 30 47	082 06 35	01	79-06-27	270	7.0	15.0	110	24	30	9.3	14	1.6
11	37 31 34	082 11 46	01	79-06-28	560	7.0	20.0	230	110	66	15	45	2.5
12	37 31 51	082 15 05	01	79-06-28	660	7.1	17.0	56	0	15	4.5	140	3.3
13	37 32 36	082 17 35	01	79-06-28	600	7.3	17.0	85	0	23	6.8	95	4.0
14	37 32 43	082 13 01	01	79-06-28	130	6.6	15.5	36	0	9.6	2.9	6.9	1.4
15	37 32 50	082 09 30	01	79-06-27	860	7.8	18.0	290	120	84	19	86	5.2
17	37 33 38	082 15 36	01	79-06-28	520	6.9	16.0	160	0	43	13	45	3.0
18	37 33 48	082 11 31	01	79-06-28	280	7.2	20.0	93	0	26	6.8	28	2.9
19	37 34 24	082 19 10	01	79-06-27	400	7.0	16.5	130	0	34	10	30	2.7
20	37 35 08	082 22 12	01	79-06-27	200	7.1	16.5	66	0	18	5.1	18	2.0
21	37 35 33	082 09 59	01	79-06-27	360	7.4	20.0	130	58	29	15	32	3.7
22	37 35 44	082 20 24	01	79-06-27	48	6.1	16.0	19	7	4.9	1.6	1.4	.8
23	37 35 48	082 16 36	01	79-06-27	600	7.5	18.0	220	0	60	16	38	4.1
24	37 35 54	082 12 21	01	79-06-29	300	6.5	15.5	65	35	17	5.5	17	1.9
25	37 36 01	082 14 02	01	79-06-29	76	5.9	18.0	27	9	5.8	3.0	4.0	1.3
26	37 36 12	082 18 42	01	79-06-27	230	7.3	17.0	84	0	23	6.5	14	2.3
27	37 37 01	082 21 30	01	79-06-27	210	7.3	15.5	95	0	27	6.8	28	2.4
28	37 37 12	082 16 07	01	79-06-28	640	6.5	18.0	130	86	33	11	50	4.1
30	37 38 16	082 17 39	01	79-07-19	400	7.2	18.0	130	13	35	11	29	3.4
31	37 38 58	082 21 51	01	79-07-18	680	8.0	17.0	26	0	7.3	1.9	170	2.3
32	37 39 07	082 23 15	01	79-07-18	280	7.4	17.5	66	0	18	5.1	35	2.2
33	37 39 09	082 16 13	01	79-07-19	600	7.2	20.5	190	0	45	18	55	4.5
34	37 39 13	082 18 23	01	79-07-19	170	7.4	16.0	59	0	15	5.3	17	1.7
35	37 41 09	082 21 51	01	79-07-18	300	7.5	21.0	73	0	19	6.1	33	3.2
36	37 42 32	082 20 47	01	79-07-18	620	7.4	16.0	33	0	9.1	2.6	130	2.6
BUCHANAN													
1	37 21 04	081 59 16	01	79-05-23	560	8.8	16.5	8	0	2.4	.5	140	1.1
2	37 21 14	082 03 25	01	79-05-22	420	6.7	17.5	160	34	46	12	17	2.3
3	37 21 20	082 02 04	01	79-05-22	250	6.9	20.0	80	0	20	7.2	8.1	1.4
4	37 21 21	082 01 55	01	79-05-22	200	7.5	16.0	77	63	15	9.7	3.5	1.6
7	37 22 08	082 00 32	01	79-05-23	240	7.4	17.5	64	0	17	5.2	24	1.2
8	37 23 22	082 02 42	01	79-06-05	400	7.9	16.0	51	0	15	3.4	66	1.5
9	37 23 26	082 02 38	01	79-05-22	440	7.5	15.5	150	18	41	11	31	1.9
10	37 23 36	081 59 07	01	79-06-19	260	6.5	20.0	120	10	33	9.2	6.1	1.8
11	37 23 54	082 06 51	01	79-06-06	280	7.4	15.0	100	0	27	8.1	17	1.8
12	37 24 08	082 00 29	01	79-06-06	260	7.2	16.5	96	27	26	7.6	10	1.4

REF. NO.	DATE OF SAMPLE	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
PIKE											
5	79-06-28	100	6.9	7.2	16	144	.01	<.010	40	620	40
6	79-06-05	120	2.0	2.3	16	158	.10	.080	30	30	50
7	79-06-05	130	.3	6.8	14	168	.01	.010	30	180	210
8	79-06-28	120	19	12	16	190	.03	<.010	30	1300	220
9	79-06-27	120	1.6	11	16	159	.02	<.010	30	740	90
10	79-06-27	89	27	16	20	205	.01	.010	30	4100	150
11	79-06-28	120	180	12	16	429	.02	<.010	30	6300	340
12	79-06-28	270	60	7.3	7.3	397	.01	<.010	60	60	70
13	79-06-28	300	20	6.7	10	376	.01	.020	60	80	80
14	79-06-28	41	11	3.4	12	75	.01	<.010	50	11000	550
15	79-06-27	170	110	170	11	657	.19	<.010	40	380	250
17	79-06-28	170	79	12	16	319	.01	.030	50	960	660
18	79-06-28	110	27	15	13	181	.05	.010	30	440	130
19	79-06-27	160	23	6.4	18	235	.02	.010	40	1700	140
20	79-06-27	110	.1	2.2	18	141	.00	.210	40	5800	90
21	79-06-27	76	120	3.1	14	277	.18	<.010	40	<10	90
22	79-06-27	12	9.4	.5	8.0	40	.07	<.010	60	80	3
23	79-06-27	230	6.7	49	20	351	.04	<.010	50	170	40
24	79-06-29	30	21	39	15	182	.01	<.010	40	20000	540
25	79-06-29	18	14	1.9	11	66	.35	<.010	50	80	<10
26	79-06-27	96	11	4.3	16	141	.02	.050	30	230	60
27	79-06-27	130	1.3	15	17	187	.01	.030	40	1600	60
28	79-06-28	42	45	130	14	379	.02	<.010	30	19000	520
30	79-07-19	120	24	32	19	234	.01	<.010	50	1000	170
31	79-07-18	220	3.1	88	13	414	.00	.140	80	80	20
32	79-07-18	120	.5	11	13	165	.01	.030	60	1900	100
33	79-07-19	190	64	27	16	351	.29	<.010	40	<10	220
34	79-07-19	70	13	4.0	15	123	.03	.020	50	830	120
35	79-07-18	110	1.1	21	16	163	.00	.070	40	40	30
36	79-07-18	190	2.3	78	14	356	.02	.080	40	40	<10
BUCHANAN											
1	79-05-23	280	1.1	11	9.4	337	.03	.140	110	130	<10
2	79-05-22	130	55	9.7	18	238	.01	.010	80	2200	180
3	79-05-22	84	31	1.4	22	136	.01	<.010	<100	5900	880
4	79-05-22	14	76	1.3	9.7	121	.20	<.010	70	30	3
7	79-05-23	99	4.8	6.6	12	139	.00	.040	20	1200	590
8	79-06-05	180	14	12	13	260	.00	.150	30	80	<10
9	79-05-22	130	77	7.6	19	267	.00	.120	130	200	110
10	79-06-19	110	18	3.9	11	158	.24	<.010	40	130	110
11	79-06-06	120	19	4.9	15	178	.00	.060	20	1200	70
12	79-06-06	69	33	6.4	15	148	.00	<.010	20	6100	590

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
BUCHANAN													
13	37 24 52	082 06 03	01	79-06-06	340	7.5	18.5	100	0	29	7.8	26	1.7
14	37 25 10	082 01 18	01	79-06-06	360	7.1	16.5	130	0	37	9.4	18	3.1
15	37 25 20	081 58 14	01	79-06-19	240	6.9	17.0	79	0	20	7.1	13	1.7
16	37 25 22	082 03 18	01	79-06-06	300	7.2	18.0	130	16	34	10	10	1.4
17	37 26 19	082 05 17	01	79-06-06	400	7.3	16.0	150	65	42	12	13	2.0
18	37 26 20	081 58 18	01	79-06-19	240	6.6	15.5	67	0	18	5.4	25	1.9
19	37 26 37	082 00 40	01	79-06-06	130	7.4	15.0	46	0	12	3.9	6.0	1.7
20	37 27 17	082 03 18	01	79-06-05	340	7.6	16.5	95	0	25	8.0	23	2.0
21	37 27 58	082 00 15	01	79-06-05	370	7.6	17.0	140	0	36	11	23	2.0
22	37 28 21	082 02 47	01	79-06-05	80	6.2	20.5	22	9	4.6	2.6	3.8	2.4
TAZEWELL													
1	37 07 46	081 38 49	01	79-03-13	340	8.1	10.5	210	28	68	9.2	2.8	.7
2	37 08 22	081 40 55	01	79-03-13	320	8.1	10.5	160	4	46	12	8.1	1.6
3	37 08 39	081 36 31	01	79-03-14	570	7.6	12.5	300	31	66	33	19	1.1
4	37 08 50	081 38 59	01	79-03-13	600	7.6	12.5	320	100	66	38	20	1.2
5	37 09 30	081 34 27	01	79-03-14	410	7.7	11.0	220	13	58	19	10	1.1
6	37 09 43	081 40 30	01	79-03-14	230	7.7	12.0	73	0	20	5.7	17	1.4
7	37 10 14	081 37 49	01	79-03-14	270	7.6	10.5	120	0	33	10	10	1.2
8	37 10 19	081 36 37	01	79-03-14	1460	7.8	10.5	96	0	25	8.1	310	2.1
9	37 11 37	081 33 40	01	79-03-15	270	6.7	11.0	140	23	49	4.9	4.0	.5
10	37 12 56	081 30 43	01	79-03-15	410	7.2	11.0	220	31	54	21	6.5	1.4
CABELL													
2	38 14 43	082 17 12	01	79-12-10	260	7.4	14.0	82	0	24	5.3	27	2.7
3	38 15 44	082 17 57	01	79-12-10	1540	7.1	11.5	630	350	200	31	180	6.4
4	38 17 16	082 16 56	01	79-12-10	540	7.6	11.5	75	0	22	4.8	87	3.4
5	38 20 01	082 20 18	01	79-12-10	370	7.3	8.5	96	0	28	6.4	61	1.9
LINCOLN													
1	37 58 09	082 15 45	01	79-08-23	180	7.6	16.0	61	0	17	4.5	18	2.7
2	38 00 15	082 11 36	01	79-11-26	220	6.4	13.5	69	0	20	4.6	9.9	2.8
3	38 00 24	082 13 47	01	79-11-26	320	7.1	13.0	51	0	16	2.7	35	2.5
MCDOWELL													
1	37 12 57	081 37 57	01	79-03-14	320	7.7	10.0	140	0	45	7.0	14	1.6
2	37 13 37	081 35 51	01	79-03-15	290	7.7	13.0	1	0	.4	.1	66	.1
3	37 15 33	081 36 01	01	79-04-12	220	7.7	15.5	57	0	17	3.6	35	2.2
4	37 16 52	081 37 39	01	79-05-22	380	7.3	15.0	110	0	34	6.7	70	1.4

REF. NO.	DATE OF SAMPLE	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
BUCHANAN											
13	79-06-06	150	16	5.5	17	204	.00	.100	30	580	120
14	79-06-06	140	28	7.3	13	206	.00	<.010	30	1100	310
15	79-06-19	83	14	4.9	17	140	.01	<.010	60	10000	240
16	79-06-06	110	30	13	17	189	.01	.010	30	2000	220
17	79-06-06	89	92	5.2	16	255	.00	<.010	20	2800	650
18	79-06-19	120	.4	4.0	18	152	.48	<.010	50	8800	450
19	79-06-06	48	9.8	1.6	11	83	.14	.010	30	<10	<10
20	79-06-05	110	33	10	14	190	.00	<.010	30	5600	600
21	79-06-05	180	11	1.4	14	219	.01	.010	30	480	210
22	79-06-05	13	15	5.0	11	72	.89	<.010	50	50	9
TAZEWELL											
1	79-03-13	180	16	5.6	7.6	227	.68	.020	20	<10	<10
2	79-03-13	160	20	2.9	21	205	.03	.020	20	40	70
3	79-03-14	270	65	3.3	13	363	.07	<.010	20	640	<10
4	79-03-13	220	120	12	.1	429	.17	.080	40	30	40
5	79-03-14	210	29	2.2	<.1	258	.06	<.010	30	140	<10
6	79-03-14	85	23	2.8	15	135	.05	.010	<100	6300	320
7	79-03-14	130	16	1.3	14	160	.22	<.010	30	180	<10
8	79-03-14	400	120	210	10	958	.10	.010	40	<10	40
9	79-03-15	120	7.4	5.9	8.2	168	3.30	.050	30	<10	<10
10	79-03-15	190	30	8.0	16	250	.25	<.010	200	2400	240
CABELL											
2	79-12-10	150	3.1	6.8	8.9	158	.00	.020	30	740	290
3	79-12-10	280	640	22	12	1360	.01	.020	200	4200	1800
4	79-12-10	200	5.9	51	11	324	.02	.020	10	430	110
5	79-12-10	200	2.5	16	11	266	.65	.240	10	70	130
LINCOLN											
1	79-08-23	93	1.6	5.4	16	117	.04	.030	10	1300	100
2	79-11-26	72	17	5.4	13	116	.06	.010	20	13000	340
3	79-11-26	110	.7	8.3	15	183	.00	.010	20	1500	70
MCDOWELL											
1	79-03-14	150	13	4.2	12	184	.03	.010	<100	2000	330
2	79-03-15	110	27	11	11	185	.20	.070	20	500	<10
3	79-04-12	120	4.5	9.4	8.2	150	--	--	30	170	40
4	79-05-22	230	14	20	15	308	.02	.050	60	20	70

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MCDOWELL													
5	37 17 22	081 28 23	01	79-04-11	280	8.0	14.0	140	26	41	8.1	15	1.2
7	37 17 59	081 50 04	01	79-06-06	320	6.7	15.0	110	78	27	10	11	1.6
8	37 18 03	081 41 04	01	79-05-22	415	7.2	15.0	150	0	43	9.8	53	1.6
9	37 18 24	081 28 03	01	79-03-29	300	6.9	15.5	140	15	36	11	11	1.0
10	37 18 29	081 41 35	01	79-05-22	470	8.0	16.0	54	0	15	4.1	110	.9
11	37 18 33	081 26 03	01	79-03-28	320	7.9	13.0	150	0	45	8.5	16	1.0
12	37 19 00	081 50 38	01	79-06-06	250	6.9	15.5	100	0	23	11	22	1.2
13	37 19 32	081 49 44	01	79-06-06	240	7.1	14.0	50	35	13	4.2	17	1.7
14	37 19 58	081 28 53	01	79-03-28	310	8.0	12.5	130	0	37	8.4	23	.6
15	37 20 07	081 24 13	01	79-03-28	270	8.0	12.5	79	0	25	3.9	33	.9
16	37 20 15	081 25 51	01	79-03-28	450	7.5	13.5	170	0	51	9.4	40	1.4
17	37 20 23	081 43 18	01	79-05-23	365	6.9	14.5	91	0	24	7.6	57	1.9
19	37 20 26	081 48 37	01	79-06-06	180	6.7	17.0	49	11	13	4.1	16	1.9
20	37 20 29	081 51 35	01	79-06-05	270	7.0	13.5	130	0	38	9.0	11	1.2
21	37 20 30	081 50 38	01	79-06-05	200	8.1	15.0	110	0	32	6.3	7.4	1.1
22	37 20 32	081 28 25	01	79-03-29	445	7.5	14.0	130	0	39	7.1	65	1.0
24	37 20 41	081 46 52	01	79-05-23	670	7.3	15.0	60	0	17	4.2	190	1.8
25	37 21 21	081 27 34	01	79-03-28	360	7.9	10.5	190	37	50	15	16	1.0
26	37 21 24	081 49 31	01	79-06-05	200	7.0	15.0	90	0	23	7.9	14	1.2
27	37 21 37	081 55 43	01	79-05-23	440	7.6	13.5	210	0	56	16	14	2.8
28	37 21 48	081 52 48	01	79-05-23	320	6.9	13.0	150	8	36	14	12	3.0
29	37 21 55	081 45 39	01	79-06-06	180	6.9	15.0	80	0	22	6.2	15	1.4
30	37 21 58	081 26 12	01	79-03-28	260	7.2	10.5	100	50	25	9.2	8.5	1.2
31	37 22 12	081 47 57	01	79-06-05	280	6.7	15.0	77	58	22	5.4	14	1.4
32	37 22 13	081 22 31	01	79-03-27	400	7.2	11.5	150	0	45	8.9	30	1.8
34	37 23 18	081 24 26	01	79-03-27	510	6.3	10.5	180	15	46	17	46	3.3
35	37 23 35	081 22 03	01	79-03-27	680	6.9	12.0	150	0	37	15	120	2.0
36	37 23 52	081 45 33	01	79-06-18	164	6.4	18.5	39	21	10	3.4	7.5	1.5
37	37 24 06	081 48 06	01	79-06-18	300	6.1	20.0	97	53	23	9.6	15	2.5
38	37 24 57	081 26 54	01	79-04-10	670	7.8	15.0	84	0	18	9.6	170	2.0
40	37 25 13	081 24 30	01	79-03-27	340	7.3	13.0	86	0	26	5.1	49	1.3
41	37 25 17	081 38 37	01	79-05-23	380	6.9	15.0	150	0	41	12	34	1.7
42	37 25 18	081 30 40	01	79-04-11	710	7.1	15.0	220	0	52	22	120	4.0
43	37 25 29	081 47 13	01	79-06-18	240	6.8	17.5	41	0	11	3.4	29	1.2
44	37 25 42	081 30 34	01	79-04-11	450	7.5	15.0	130	0	37	10	83	2.7
45	37 25 59	081 40 54	01	79-05-24	330	6.0	14.0	92	27	24	7.8	27	2.1
46	37 26 01	081 54 17	01	79-06-20	310	7.0	16.0	110	0	33	6.8	18	1.6
47	37 26 05	081 49 04	01	79-06-29	340	6.8	19.5	200	79	50	18	9.1	1.6
48	37 26 36	081 50 31	01	79-06-20	178	6.8	16.0	52	0	15	3.6	14	1.1
49	37 26 52	081 52 45	01	79-06-20	300	7.2	16.0	45	0	12	3.6	45	2.1

REF. NO.	DATE OF SAMPLE	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MCDOWELL											
5	79-04-11	110	30	20	10	197	.01	.010	30	1300	220
7	79-06-06	31	43	49	13	224	.01	<.010	20	36000	1100
8	79-05-22	190	3.5	59	17	308	.01	.020	70	740	130
9	79-03-29	120	12	16	14	195	.02	.020	<100	1500	260
10	79-05-22	260	.4	32	15	341	.00	.050	10	50	<10
11	79-03-28	150	23	6.2	15	208	.00	.060	<100	340	160
12	79-06-06	130	15	.8	15	164	.00	<.010	20	5500	220
13	79-06-06	15	23	41	15	176	.00	<.010	30	39000	590
14	79-03-28	150	19	8.6	12	199	.00	.010	<100	20	30
15	79-03-28	150	1.6	4.4	13	170	.01	.050	<100	50	60
16	79-03-28	180	40	25	11	289	--	--	<100	3700	340
17	79-05-23	140	72	9.2	8.6	272	.01	<.010	70	2400	300
19	79-06-06	38	23	21	12	127	.01	<.010	20	11000	1500
20	79-06-05	140	16	3.6	21	187	.24	<.010	20	<10	2
21	79-06-05	110	7.5	2.3	22	147	.17	<.010	30	<10	<10
22	79-03-29	200	40	16	11	298	.00	.020	<100	550	260
24	79-05-23	440	2.7	35	11	545	.01	.010	60	60	40
25	79-03-28	150	40	14	10	227	.04	.010	<100	<10	120
26	79-06-05	110	4.3	1.8	23	144	.00	<.010	20	3400	520
27	79-05-23	240	5.1	2.5	20	267	.67	<.010	20	30	<10
28	79-05-23	140	29	8.2	13	187	.66	.010	20	80	3
29	79-06-06	100	6.7	1.5	20	142	.00	.070	20	1200	160
30	79-03-28	50	55	9.7	22	182	.02	<.010	<100	5200	720
31	79-06-05	19	47	33	16	169	.06	<.010	30	23000	4700
32	79-03-27	160	40	13	12	251	.01	<.010	<100	4500	590
34	79-03-27	170	87	18	11	320	.24	<.010	<100	3000	240
35	79-03-27	310	89	4.5	9.8	459	.04	<.010	<100	2200	510
36	79-06-18	18	22	9.9	12	87	.03	.010	40	10000	610
37	79-06-18	44	44	29	15	209	.71	.010	40	2700	850
38	79-04-10	300	58	53	9.9	498	.00	.030	30	280	100
40	79-03-27	180	2.0	9.8	13	219	.01	.040	<100	1800	230
41	79-05-23	160	38	23	14	262	.03	<.010	70	4500	490
42	79-04-11	370	110	3.3	9.4	538	.06	<.010	30	40	110
43	79-06-18	93	1.4	8.3	17	141	.01	<.010	50	8500	860
44	79-04-11	270	16	21	14	344	.27	.030	40	790	150
45	79-05-24	65	44	34	12	190	.03	<.010	<100	22000	2400
46	79-06-20	110	26	6.5	16	188	.01	<.010	40	2100	150
47	79-06-29	120	46	2.9	17	251	.05	<.010	40	20	<10
48	79-06-20	80	.3	2.7	17	108	.02	<.010	40	6300	250
49	79-06-20	120	2.4	16	13	189	.03	.020	30	2800	330

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MCDOWELL													
50	37 26 57	081 42 18	01	79-06-04	280	5.9	14.0	87	61	21	8.5	22	6.3
51	37 27 07	081 43 14	01	79-05-24	370	6.2	15.0	45	0	12	3.6	80	1.2
52	37 27 35	081 45 26	01	79-06-29	220	6.7	21.0	59	0	14	5.8	30	1.5
53	37 27 51	081 56 57	01	79-06-20	240	6.8	16.0	56	0	15	4.5	30	1.5
54	37 27 58	081 52 11	01	79-06-20	172	7.1	18.5	34	0	9.2	2.6	21	1.3
55	37 28 02	081 32 36	01	79-06-07	210	6.3	13.0	91	43	23	8.2	4.6	1.3
56	37 28 02	081 32 37	01	79-06-07	80	6.2	15.5	35	14	8.7	3.1	2.3	1.0
57	37 28 18	081 40 03	01	79-06-07	260	7.6	16.0	76	2	21	5.7	18	2.4
58	37 28 20	081 54 54	01	79-06-20	240	7.2	16.0	110	0	32	7.0	6.2	2.0
59	37 28 22	081 42 08	01	79-06-07	230	6.8	17.0	56	48	13	5.8	5.8	1.6
60	37 28 25	081 58 35	01	79-06-19	170	6.4	22.0	52	35	13	4.8	10	2.2
61	37 28 35	081 46 43	01	79-06-29	340	6.9	18.0	170	60	35	20	10	3.3
62	37 28 55	081 50 09	01	79-06-25	240	6.4	14.0	81	6	20	7.6	21	3.7
63	37 29 03	081 56 24	01	79-06-19	220	7.0	17.5	98	16	25	8.6	6.2	1.4
64	37 29 25	081 48 35	01	79-06-29	220	9.0	16.0	94	16	26	7.1	11	1.6
65	37 30 18	081 51 24	01	79-06-25	200	6.9	15.0	98	5	25	8.7	9.4	2.2
66	37 30 29	081 55 43	01	79-06-25	190	6.4	17.0	41	4	11	3.3	9.0	1.4
MINGO													
1	37 31 39	081 54 33	01	79-06-25	250	7.2	15.5	78	0	20	6.9	23	1.9
2	37 31 40	081 56 25	01	79-06-25	50	6.7	16.0	20	8	4.5	2.1	1.4	1.2
3	37 32 47	082 03 26	01	79-06-26	250	7.8	13.0	39	0	9.7	3.6	44	3.0
4	37 33 10	081 57 51	01	79-06-21	300	6.9	16.5	78	3	19	7.3	26	2.3
5	37 33 18	081 59 37	01	79-06-21	220	7.0	16.0	61	22	14	6.2	4.6	1.8
6	37 34 00	082 08 36	01	79-06-27	1460	7.6	--	64	0	19	4.0	400	5.7
7	37 34 23	082 03 03	01	79-06-26	340	7.9	22.0	75	0	21	5.5	56	2.4
8	37 34 43	081 56 14	01	79-06-21	280	7.7	15.5	26	0	7.3	1.9	55	3.2
9	37 35 39	082 01 56	01	79-06-26	180	7.5	--	77	0	20	6.5	16	2.1
10	37 35 41	082 08 02	01	79-06-27	550	7.6	18.5	95	0	28	6.2	83	3.0
11	37 35 47	081 58 21	01	79-06-21	194	7.8	21.0	34	0	9.5	2.5	31	1.0
12	37 36 11	082 06 08	01	79-06-26	510	6.3	19.0	150	140	36	15	29	3.5
13	37 36 34	081 56 25	01	79-06-21	230	6.8	17.5	49	0	13	4.1	27	1.4
14	37 36 36	082 00 56	01	79-06-26	180	7.4	16.0	69	0	19	5.3	16	2.0
15	37 36 52	082 03 28	01	79-06-26	240	7.0	15.0	110	3	27	11	13	2.8
16	37 37 31	082 04 53	01	79-07-11	400	7.5	18.0	130	4	34	12	38	2.1
17	37 37 36	081 58 34	01	79-06-26	180	7.3	15.5	69	0	20	4.6	7.8	1.3
18	37 37 38	081 58 38	01	79-06-26	84	6.3	16.0	31	10	7.3	3.0	2.7	1.5
19	37 38 06	082 13 00	01	79-07-17	300	6.7	19.0	94	45	22	9.4	20	1.7
20	37 38 57	082 11 16	01	79-07-17	188	6.4	21.5	--	--	--	--	--	--
21	37 39 02	082 07 07	01	80-04-23	260	6.0	17.5	39	24	10	3.3	7.0	1.0
22	37 39 03	082 02 58	01	79-07-11	360	7.3	18.0	94	0	24	8.3	41	3.4
				79-07-11	320	6.9	19.0	93	8	25	7.4	24	2.0

REF. NO.	DATE OF SAMPLE	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MCDOWELL											
50	79-06-04	26	47	33	8.4	193	4.70	<.010	20	30	5
51	79-05-24	160	.4	51	15	260	.02	.030	80	2000	130
52	79-06-29	100	.4	17	17	148	.06	<.010	40	4000	430
53	79-06-20	120	1.4	4.4	14	162	.00	.030	30	3000	150
54	79-06-20	45	34	3.8	12	113	.02	<.010	30	1700	70
55	79-06-07	48	48	3.2	14	149	.11	<.010	30	450	270
56	79-06-07	21	12	2.3	9.7	90	.19	<.010	30	40	120
57	79-06-07	74	33	18	18	171	.03	<.010	30	13000	4800
58	79-06-20	110	12	1.4	16	152	.15	<.010	40	20	8
59	79-06-07	8	43	19	14	148	.00	<.010	30	32000	690
60	79-06-19	17	35	8.8	8.4	125	4.30	<.010	30	100	20
61	79-06-29	110	65	7.9	8.4	249	.18	<.010	40	13000	420
62	79-06-25	75	40	7.6	9.3	166	.03	<.010	40	2900	810
63	79-06-19	82	24	2.5	19	151	.02	<.010	30	1100	230
64	79-06-29	78	26	8.1	16	147	.01	<.010	40	6500	280
65	79-06-25	93	22	3.1	19	148	.10	<.010	40	290	70
66	79-06-25	37	10	11	21	95	.01	<.010	50	23000	2200
MINGO											
1	79-06-25	110	.1	10	17	162	.09	.160	30	2100	160
2	79-06-25	12	11	.6	8.0	184	.33	<.010	40	60	30
3	79-06-26	120	2.4	13	12	155	.02	<.010	30	410	130
4	79-06-21	75	7.9	36	14	170	.00	.020	40	1800	850
5	79-06-21	39	30	3.1	12	103	.02	<.010	50	20000	830
6	79-06-27	230	41.0	420	11	953	.05	.010	30	30	60
7	79-06-26	160	.4	34	13	231	.00	.010	30	20	90
8	79-06-21	130	1.6	9.7	12	182	.40	.010	30	30	20
9	79-06-26	100	8.6	4.0	15	138	.05	<.010	40	70	390
10	79-06-27	160	.1	79	11	328	.03	<.010	30	200	120
11	79-06-21	99	.7	3.6	14	122	.00	.020	40	240	50
12	79-06-26	7	180	38	15	371	.03	<.010	40	30000	4200
13	79-06-21	86	24	1.7	13	145	.02	<.010	30	1700	180
14	79-06-26	91	3.6	6.3	14	129	.02	.040	40	60	110
15	79-06-26	110	26	2.0	17	163	.43	<.010	30	30	30
16	79-07-11	130	77	4.9	12	262	.00	.010	40	280	360
17	79-06-26	69	.5	12	15	113	.02	.030	30	3300	140
18	79-06-26	21	11	2.4	6.7	56	1.30	<.010	40	170	9
19	79-07-17	49	56	22	11	179	2.10	<.010	20	30	250
20	79-07-17	--	--	--	--	--	.00	<.010	90	30000	630
21	80-04-23	15	26	11	17	86	--	--	--	--	--
21	79-07-11	150	12	11	10	208	.41	<.010	50	40	140
22	79-07-11	85	27	24	15	175	.00	<.010	30	5000	350

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MINGO													
23	37 39 18	082 01 27	01	79-07-11	240	7.0	18.5	64	0	17	5.3	28	1.8
24	37 39 23	082 05 39	01	79-07-11	840	7.2	22.0	200	0	53	17	110	3.3
25	37 39 50	082 09 23	01	79-07-11	130	6.7	18.5	46	14	10	5.0	6.9	2.4
26	37 40 06	082 07 28	01	79-07-11	266	6.3	20.0	49	0	12	4.5	31	6.3
27	37 40 19	082 13 02	01	79-07-17	110	6.7	17.0	35	13	8.7	3.3	4.0	1.7
28	37 41 14	082 10 46	01	79-07-12	300	6.5	16.5	100	0	27	7.8	26	2.1
29	37 41 19	082 17 41	01	79-07-19	340	7.7	18.0	63	0	17	5.1	50	2.3
30	37 41 33	082 04 48	01	79-07-12	140	6.5	17.0	54	18	13	5.2	5.1	1.7
31	37 41 50	082 13 55	01	79-07-19	340	7.3	17.0	130	12	40	7.8	20	2.8
32	37 42 09	082 07 42	01	79-07-12	240	6.4	18.0	54	22	14	4.7	25	3.0
33	37 42 09	082 11 34	01	79-07-19	380	6.9	21.0	170	74	45	13	11	1.7
34	37 42 12	082 09 53	01	79-07-12	540	6.2	17.0	140	96	42	9.7	38	3.8
35	37 42 32	082 16 30	01	79-07-13	200	6.6	16.0	68	0	20	4.4	18	2.0
36	37 42 53	082 18 19	01	79-07-13	1260	6.1	19.0	580	580	140	57	19	2.7
37	37 43 19	082 07 35	01	79-07-17	112	6.7	23.0	39	0	9.9	3.4	14	1.7
38	37 43 35	082 11 34	01	79-07-12	300	8.3	21.0	88	0	24	6.9	30	3.3
39	37 44 18	082 10 06	01	79-07-17	560	6.7	16.0	130	15	32	11	62	2.8
40	37 44 24	082 19 48	01	79-07-13	700	6.7	16.0	290	140	78	24	32	3.5
41	37 44 54	082 13 02	01	79-07-17	320	7.3	16.5	52	0	15	3.5	49	2.2
42	37 45 35	082 13 15	01	79-07-24	380	8.1	18.5	28	0	7.8	2.1	74	1.9
43	37 45 45	082 18 36	01	79-07-20	420	5.7	15.5	140	110	31	14	16	1.9
44	37 45 58	082 11 10	01	79-07-24	1280	7.6	19.5	24	0	7.3	1.4	340	3.0
45	37 45 58	082 16 26	01	79-07-27	76	6.7	17.0	22	6	3.7	3.1	2.7	1.9
46	37 46 10	082 08 02	01	79-07-24	400	7.2	16.0	82	0	27	3.6	58	1.7
47	37 46 31	082 19 23	01	79-07-20	400	6.8	17.5	74	0	19	6.4	49	1.6
48	37 46 51	082 10 11	01	79-07-24	460	6.9	24.5	180	0	52	11	27	3.2
49	37 47 02	082 14 37	01	79-07-24	220	6.7	18.0	84	20	24	5.9	7.7	1.8
50	37 47 22	082 15 57	01	79-07-26	460	6.9	17.0	95	0	27	6.6	59	1.8
51	37 47 35	082 20 32	01	79-07-20	280	7.0	16.5	84	0	23	6.5	31	1.6
52	37 48 19	082 18 58	01	79-07-27	92	5.7	20.0	24	3	5.6	2.5	7.6	1.3
53	37 48 36	082 14 01	01	79-07-26	66	6.5	20.0	17	4	3.5	2.0	2.6	1.3
54	37 48 49	082 16 19	01	79-07-25	320	6.6	18.0	90	0	22	8.6	30	1.9
55	37 48 55	082 24 01	01	79-08-09	580	6.6	--	150	0	39	12	58	3.7
56	37 49 01	082 12 23	01	79-07-26	240	6.8	16.0	18	0	4.7	1.6	48	1.3
57	37 49 12	082 11 11	01	79-07-26	180	7.0	18.0	64	0	19	4.0	14	1.5
58	37 49 37	082 14 24	01	79-07-25	280	7.2	18.0	73	0	20	5.6	33	3.6
59	37 50 23	082 13 06	01	79-07-25	220	7.0	19.0	83	0	24	5.5	8.1	2.0
60	37 50 47	082 21 42	01	79-07-24	1400	7.1	20.0	150	0	43	11	240	4.6
61	37 51 19	082 17 20	01	79-07-23	100	6.6	17.0	32	0	8.7	2.5	3.2	1.7
62	37 51 38	082 22 52	01	79-08-09	260	7.1	--	92	0	24	7.7	19	2.5

REF. NO.	DATE OF SAMPLE	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MINGO											
23	79-07-11	120	1.1	2.7	14	140	.00	.010	40	330	130
24	79-07-11	270	150	11	13	499	.00	<.010	20	1100	400
25	79-07-11	32	21	4.6	8.9	82	.80	.010	20	40	50
26	79-07-11	55	52	1.9	6.5	151	.99	<.010	30	40	50
27	79-07-17	22	21	1.6	11	68	.40	<.010	30	<10	<10
28	79-07-12	110	28	11	13	180	.00	<.010	30	1300	210
29	79-07-19	150	5.3	9.5	13	201	.01	.190	60	210	40
30	79-07-12	36	33	.9	7.4	67	.17	.070	20	50	70
31	79-07-19	120	29	13	18	213	.16	.090	60	740	50
32	79-07-12	32	67	2.8	11	136	1.10	.010	30	20	20
33	79-07-19	92	15	47	22	212	.05	<.010	60	190	340
34	79-07-12	49	150	23	16	312	.02	.010	30	13000	930
35	79-07-13	93	.4	3.8	17	123	.00	.170	60	510	70
36	79-07-13	1	610	17	21	948	.00	.020	50	67000	1500
37	79-07-17	54	19	2.3	10	82	.00	.010	50	1900	210
38	79-07-12	130	5.3	13	19	166	.02	.020	40	390	90
39	79-07-17	110	150	7.8	11	343	.01	.010	40	2600	270
40	79-07-13	150	210	6.3	22	480	.05	.010	30	1100	1200
41	79-07-17	130	.9	20	18	188	.00	.060	30	270	50
42	79-07-24	150	.9	31	15	226	.03	.080	60	120	<10
43	79-07-20	26	110	16	16	237	.18	<.010	50	25000	1100
44	79-07-24	420	110	87	9.2	780	.03	.040	40	<10	1
45	79-07-27	16	15	1.4	10	60	.19	.010	40	60	110
46	79-07-24	170	27	8.0	9.7	253	.01	.020	30	250	80
47	79-07-20	92	31	29	10	200	.02	.010	60	6200	110
48	79-07-24	200	28	3.0	18	263	.45	<.010	60	<10	40
49	79-07-24	64	25	3.8	16	133	.01	.030	30	1600	100
50	79-07-26	150	6.5	51	19	271	.01	.010	30	3500	130
51	79-07-20	130	7.3	1.1	23	179	.01	.130	60	1800	100
52	79-07-27	21	16	1.1	12	72	.49	.010	40	<10	100
53	79-07-26	13	11	1.6	9.0	48	.15	.010	40	50	9
54	79-07-25	130	4.6	15	22	190	.00	.010	30	5600	170
55	79-08-09	190	12	54	25	321	.02	<.010	10	610	260
56	79-07-26	110	.5	5.7	10	145	.01	.080	50	4800	230
57	79-07-26	93	.4	3.5	15	117	.01	.010	70	2400	200
58	79-07-25	130	15	2.4	10	169	.10	.010	30	100	160
59	79-07-25	88	1.4	7.7	12	122	.02	<.010	40	4500	1200
60	79-07-24	270	14	270	16	760	.01	<.010	40	2400	150
61	79-07-23	34	6.5	1.5	13	56	.10	<.010	40	6400	490
62	79-08-09	110	5.4	10	20	152	.01	.070	10	110	30

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
MINGO													
63	37 51 41	082 09 34	01	79-07-25	380	6.4	18.5	150	52	52	5.4	13	1.8
64	37 52 23	082 10 36	01	79-07-25	480	6.6	15.0	100	24	27	8.0	43	6.3
65	37 52 26	082 08 20	01	79-07-25	320	6.0	19.0	51	15	16	2.6	40	2.2
66	37 52 27	082 21 32	01	79-07-24	240	6.6	19.0	110	2	32	7.7	9.9	1.7
67	37 53 02	082 20 27	01	79-08-16	240	6.5	19.0	88	3	20	9.3	13	3.1
68	37 53 16	082 12 14	01	79-08-14	260	7.4	18.0	120	0	36	8.1	19	2.3
69	37 53 27	082 08 59	01	79-08-16	320	6.1	20.0	97	38	30	5.3	12	17
70	37 53 36	082 13 39	01	79-08-14	420	6.5	16.0	88	0	25	6.2	70	4.1
71	37 53 56	082 18 50	01	79-08-16	500	6.6	17.5	110	9	26	10	49	5.2
72	37 54 18	082 17 02	01	79-08-14	840	6.9	17.0	150	0	49	7.8	120	3.7
73	37 54 27	082 10 51	01	79-08-16	104	6.5	17.0	26	8	6.6	2.2	4.0	1.4
74	37 55 16	082 15 07	01	79-08-14	158	6.4	17.0	69	4	20	4.6	8.9	2.6
75	37 55 54	082 11 36	01	79-08-16	420	7.2	15.0	29	0	8.0	2.3	80	2.5
76	37 56 17	082 16 47	01	79-08-14	220	6.6	19.0	71	0	20	5.0	17	2.5
77	37 56 52	082 12 52	01	79-08-16	148	6.1	18.0	39	12	11	2.7	4.6	2.0
78	37 57 27	082 14 52	01	79-08-16	300	6.5	17.0	64	0	19	4.0	37	2.5
WAYNE													
1	37 51 46	082 24 40	01	79-08-09	300	7.0	20.0	79	8	18	8.3	32	2.6
2	37 53 45	082 25 57	01	79-10-17	1980	6.8	15.0	170	0	45	13	330	4.2
3	37 54 04	082 24 08	01	79-08-16	124	6.1	16.5	56	0	15	4.5	8.6	1.3
4	37 54 37	082 21 58	01	79-08-16	136	6.8	16.0	61	18	18	3.9	6.9	1.3
5	37 54 37	082 27 22	01	79-10-17	470	7.2	14.5	68	0	17	6.1	84	4.7
6	37 54 39	082 27 20	01	79-10-17	360	7.0	14.5	48	0	12	4.3	68	3.6
7	37 56 19	082 25 28	01	79-10-17	280	6.7	14.5	68	0	19	4.9	33	2.7
8	37 56 47	082 28 28	01	79-10-18	260	6.6	14.5	94	0	22	9.4	20	2.5
9	37 57 42	082 23 43	01	79-10-17	104	6.1	12.0	43	0	11	3.7	6.7	2.0
10	37 57 42	082 23 43	02	79-10-17	62	5.8	15.0	25	13	5.9	2.4	2.1	2.1
11	37 57 46	082 26 01	01	79-10-18	370	6.4	15.5	130	0	37	9.0	36	3.0
12	37 57 54	082 20 42	01	79-08-14	300	6.6	18.0	91	0	25	6.9	27	1.8
13	37 58 07	082 28 59	01	79-10-18	240	6.1	14.5	84	47	21	7.6	13	3.1
14	37 58 33	082 21 21	01	79-10-26	500	7.6	12.0	--	--	--	--	--	--
15	37 59 17	082 24 15	01	79-10-16	280	7.0	14.5	64	0	18	4.7	40	2.5
16	37 59 19	082 17 39	01	79-08-23	74	5.6	--	22	1	4.0	2.9	2.5	1.2
17	37 59 24	082 28 08	01	79-10-18	350	6.3	15.5	130	0	32	13	24	3.0
18	38 00 27	082 30 44	01	79-08-20	540	6.6	--	69	0	19	5.3	120	2.8
19	38 00 30	082 24 55	01	79-11-27	380	6.8	13.5	65	37	18	4.9	43	2.7
				80-04-23	456	6.8	15.0	69	0	19	5.2	62	2.4
21	38 01 33	082 29 00	01	79-11-27	620	6.9	12.5	90	0	26	6.1	86	3.1
22	38 02 11	082 32 09	01	79-08-20	420	7.0	--	190	0	56	12	15	3.4
23	38 02 28	082 25 32	01	79-11-27	174	7.0	13.5	61	0	19	3.4	12	1.9
24	38 02 31	082 27 36	01	79-11-27	158	6.4	12.0	72	7	22	4.2	5.9	2.2

REF. NO.	DATE OF SAMPLE	ALKA- LITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
MINGO											
63	79-07-25	100	29	34	9.0	219	.00	<.010	30	1200	160
64	79-07-25	76	52	45	14	248	.02	<.010	40	16000	680
65	79-07-25	35	18	59	11	175	.03	<.010	30	900	190
66	79-07-24	110	9.3	4.8	21	156	--	--	70	4200	120
67	79-08-16	85	15	9.3	14	136	.05	<.010	10	2500	290
68	79-08-14	140	12	6.2	16	194	.06	.050	10	230	260
69	79-08-16	59	31	15	8.7	203	8.60	<.010	10	700	60
70	79-08-14	170	2.0	43	17	266	.02	.050	10	640	80
71	79-08-16	97	6.6	83	11	269	.03	<.010	10	3300	30
72	79-08-14	160	1.2	160	17	449	.01	<.010	10	1800	80
73	79-08-16	18	14	1.4	12	54	.00	<.010	20	13000	410
74	79-08-14	65	17	3.5	12	116	.01	.020	10	1000	310
75	79-08-16	170	1.7	28	15	245	.01	.080	10	20	20
76	79-08-14	88	11	4.9	13	126	.01	<.010	10	3500	290
77	79-08-16	27	18	1.9	12	72	.01	<.010	20	22000	410
78	79-08-16	100	12	21	13	168	.01	<.010	10	7400	140
WAYNE											
1	79-08-09	71	54	8.2	13	188	.26	.010	30	80	90
2	79-10-17	200	15	470	16	1040	.10	.000	50	1100	50
3	79-08-16	57	10	2.0	23	104	.52	.010	10	60	20
4	79-08-16	43	21	4.1	15	105	.49	.010	10	80	140
5	79-10-17	230	1.7	20	14	287	.01	.090	40	2100	30
6	79-10-17	170	17	7.2	13	227	.01	.040	30	110	70
7	79-10-17	120	1.0	12	13	156	1.00	.000	300	9100	410
8	79-10-18	130	9.8	4.0	18	153	.05	.000	40	340	370
9	79-10-17	46	12	1.7	12	77	.00	.000	100	3200	340
10	79-10-17	12	13	1.6	6.7	47	.88	.000	50	40	7
11	79-10-18	200	7.3	6.3	20	231	.00	.010	30	140	310
12	79-08-14	120	3.3	16	23	169	.01	<.010	10	5400	250
13	79-10-18	37	44	13	18	155	1.70	.000	40	630	290
14	79-10-26	--	--	--	--	--	--	--	--	--	--
15	79-10-16	120	4.7	20	21	186	.00	.000	200	3900	200
16	79-08-23	21	13	1.8	8.6	56	.11	<.010	10	300	120
17	79-10-18	150	38	2.4	18	212	.32	.000	40	240	810
18	79-08-20	210	6.8	63	23	352	.02	.060	20	100	50
19	79-11-27	28	.8	71	14	231	.00	.010	30	170	40
	80-04-23	98	.0	71	16	229	--	--	--	--	--
21	79-11-27	140	.5	100	12	3220	.00	.000	10	5800	70
22	79-08-20	210	21	2.3	25	251	.06	<.010	20	780	370
23	79-11-27	86	12	4.0	12	129	.12	.010	20	30	40
24	79-11-27	65	20	4.7	17	124	.36	.000	20	2600	400

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
WAYNE													
25	38 03 36	082 29 26	01	79-11-27	152	6.8	12.5	43	0	14	1.9	13	1.8
26	38 04 01	082 31 27	01	79-08-23	400	7.4	--	79	0	21	6.5	63	4.0
27	38 04 30	082 25 58	01	79-11-28	280	6.7	12.0	53	0	16	3.1	38	2.7
28	38 04 46	082 23 56	01	79-11-28	250	6.5	13.0	90	0	29	4.3	15	3.0
29	38 05 01	082 18 43	01	79-10-19	344	6.6	16.5	110	0	33	6.3	32	2.2
30	38 05 11	082 27 40	01	79-11-28	300	7.2	11.0	32	0	9.0	2.3	66	3.1
31	38 05 23	082 32 26	01	79-08-20	400	7.5	16.0	89	0	29	4.1	52	4.9
32	38 05 39	082 30 31	01	79-08-24	340	8.0	17.0	110	71	32	6.7	13	3.6
33	38 05 41	082 15 25	01	79-11-26	122	6.8	13.0	47	25	13	3.5	4.7	2.4
34	38 05 45	082 14 50	01	79-11-26	320	6.7	13.5	150	0	52	5.3	4.2	2.4
35	38 05 59	082 25 54	01	79-11-28	260	6.7	12.5	95	0	31	4.2	17	3.1
36	38 06 13	082 34 04	01	79-08-24	360	7.5	17.0	27	0	6.8	2.4	72	3.9
37	38 06 39	082 29 50	01	79-11-28	1380	7.6	12.5	10	0	2.8	.7	370	3.4
38	38 06 47	082 17 48	01	79-11-28	300	6.9	12.5	81	0	26	4.0	21	2.2
39	38 06 48	082 32 32	01	79-08-24	400	7.9	20.0	42	0	10	4.1	59	5.1
41	38 07 11	082 30 53	01	79-08-24	900	8.2	16.5	520	200	150	36	18	4.5
42	38 07 18	082 27 29	01	79-11-28	270	6.7	10.5	130	10	42	6.1	11	2.2
44	38 07 43	082 22 33	01	79-10-19	245	6.6	14.5	81	0	23	5.6	28	3.2
45	38 08 18	082 20 21	01	79-12-11	182	6.8	11.5	37	0	9.8	3.1	29	3.2
46	38 08 29	082 32 20	01	80-08-27	750	8.4	18.0	7	0	2.1	.5	180	2.3
47	38 08 32	082 24 21	01	79-11-29	160	6.8	14.0	94	9	30	4.6	16	2.3
48	38 09 03	082 28 04	01	79-11-29	640	6.7	9.0	490	230	140	34	12	2.2
49	38 09 09	082 36 50	01	80-08-28	230	7.0	14.0	94	0	25	7.6	8.3	1.8
50	38 09 32	082 33 56	01	80-08-28	665	7.0	19.0	240	81	70	16	43	3.4
51	38 09 37	082 30 46	01	79-11-29	300	6.6	11.0	93	0	30	4.4	34	3.5
52	38 09 53	082 26 15	01	79-11-29	250	6.9	12.0	120	0	40	5.1	12	2.1
53	38 10 00	082 22 45	01	79-11-29	1220	7.6	8.5	120	0	31	9.2	180	4.7
54	38 10 14	082 17 37	01	79-12-11	860	8.4	13.0	4	0	1.1	.2	230	.9
55	38 10 20	082 20 55	01	79-12-11	480	6.7	13.5	60	0	18	3.6	81	2.0
56	38 10 33	082 28 54	01	79-11-29	460	7.1	12.5	120	0	37	6.0	56	4.1
57	38 10 40	082 33 15	01	80-08-28	280	7.9	14.5	56	0	16	3.9	45	1.9
58	38 11 02	082 35 50	01	80-08-27	1740	8.0	20.0	48	0	12	4.3	350	5.0
59	38 11 20	082 24 21	01	79-11-29	2300	6.4	14.0	470	460	120	41	400	7.4
60	38 11 55	082 17 10	01	79-12-11	830	8.3	13.5	3	0	.7	.2	220	1.4
				80-04-23	856	8.6	14.5	2	--	.5	.1	200	1.3
61	38 12 02	082 21 33	01	79-12-11	390	6.4	14.0	150	50	40	11	9.7	3.9
63	38 12 33	082 31 09	01	80-08-26	490	7.8	17.0	35	0	13	.6	99	2.9
64	38 12 35	082 22 43	01	79-11-30	810	6.8	11.0	320	0	100	17	51	3.8
65	38 13 01	082 19 14	01	79-12-11	280	6.5	10.0	81	0	25	4.5	32	2.2
66	38 13 10	082 16 48	01	79-12-11	492	8.0	11.0	19	0	5.7	1.2	120	2.3

REF. NO.	DATE OF SAMPLE	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
WAYNE											
25	79-11-27	83	.1	3.0	14	108	.00	.010	500	3900	140
26	79-08-23	160	3.2	33	11	239	.00	.050	10	160	30
27	79-11-28	120	1.5	14	12	177	.00	.240	200	3700	40
28	79-11-28	100	34	1.4	28	189	.15	.010	10	80	50
29	79-10-19	160	22	2.3	17	202	.00	.000	40	2200	360
30	79-11-28	180	.1	1.7	13	207	.00	.120	20	30	9
31	79-08-20	210	2.6	1.4	10	234	.00	.030	10	120	60
32	79-08-24	37	44	39	14	206	.02	.010	<100	19000	1100
33	79-11-26	22	22	8.9	11	85	.13	.000	20	30	110
34	79-11-26	170	11	1.1	16	203	.01	.000	300	4700	540
35	79-11-28	120	18	2.5	11	168	.01	.000	20	240	240
36	79-08-24	170	13	5.7	12	220	.11	.010	10	120	70
37	79-11-28	710	51	4.1	11	850	.43	.040	30	50	5
38	79-11-28	120	6.6	1.6	16	155	.10	.000	20	170	80
39	79-08-24	100	37	28	12	233	2.10	<.010	10	150	420
41	79-08-24	320	190	13	15	738	.08	.180	<100	<10	30
42	79-11-28	120	30	3.3	17	184	.00	.000	400	6400	350
44	79-10-19	130	11	3.6	14	156	.01	.010	40	550	110
45	79-12-11	82	5.9	1.8	11	112	.01	.010	10	5600	360
46	80-08-27	320	40	16	10	449	--	--	200	20	10
47	79-11-29	85	25	2.3	13	172	.26	.010	400	3200	220
48	79-11-29	260	170	4.5	17	545	1.40	.000	0	6300	350
49	80-08-28	110	2.6	2.6	18	132	--	--	100	2900	120
50	80-08-28	160	150	2.8	20	439	--	--	200	4300	580
51	79-11-29	170	12	5.9	16	222	.08	.000	20	430	100
52	79-11-29	140	4.5	2.1	17	172	.00	.010	200	3100	120
53	79-11-29	270	64	180	6.7	677	.06	.090	30	140	20
54	79-12-11	420	.0	17	8.5	497	.00	.120	30	10	1
55	79-12-11	180	5.3	39	12	287	.01	.020	30	640	100
56	79-11-29	240	.5	24	16	308	.00	.010	20	390	20
57	80-08-28	140	1.5	3.2	16	178	--	--	100	310	60
58	80-08-27	330	15	340	9.2	932	--	--	100	60	80
59	79-11-29	5	.0	960	8.2	1820	.05	.000	600	26000	940
60	79-12-11	400	.1	14	7.7	480	.00	.130	30	20	1
	80-04-23	--	2.4	17	8.0	489	--	--	--	--	--
61	79-12-11	95	57	3.8	8.5	205	.01	.000	400	22000	610
63	80-08-26	240	2.5	2.4	14	300	--	--	100	130	30
64	79-11-30	320	120	5.1	13	510	.10	.010	400	3200	750
65	79-12-11	140	2.9	7.8	16	179	.01	.020	300	8000	1100
66	79-12-11	260	1.6	4.8	8.5	309	.02	.010	20	30	10

REF. NO.	LAT- ITUDE	LONG- ITUDE	SEQ. NO.	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)
WAYNE													
67	38 13 15	082 25 07	01	79-11-30	240	7.4	13.5	74	0	23	3.9	20	2.9
68	38 13 19	082 20 42	01	79-12-11	425	6.8	12.5	110	0	33	6.8	45	2.7
70	38 13 26	082 28 36	01	79-11-30	740	7.5	12.5	51	0	16	2.8	170	2.2
71	38 13 51	082 32 15	01	80-08-26	445	7.5	20.0	120	0	33	10	48	4.1
72	38 14 17	082 36 04	01	80-08-27	540	8.6	18.0	150	0	44	9.3	57	1.8
73	38 14 28	082 22 37	01	79-11-30	300	7.4	12.5	110	0	34	5.5	24	2.4
74	38 14 53	082 33 22	01	80-08-26	785	7.7	17.5	94	0	28	5.9	150	1.9
76	38 15 45	082 33 44	01	80-08-26	1600	7.2	17.0	590	240	160	46	150	4.3
77	38 15 59	082 31 25	01	80-08-26	540	8.0	15.5	84	0	22	7.1	95	2.6
78	38 16 13	082 34 19	01	80-08-26	23500	7.0	14.5	6900	6800	2100	390	2500	25
79	38 16 21	082 21 52	01	79-12-10	300	7.5	11.0	120	0	37	6.8	29	1.9
81	38 17 47	082 31 31	01	80-08-25	990	8.5	20.0	4	0	1.3	.3	250	1.2
82	38 18 09	082 32 54	01	80-08-25	550	7.1	16.5	280	75	87	14	13	1.7
83	38 18 18	082 30 41	01	79-12-13	660	7.2	11.0	260	0	83	13	42	2.8
84	38 18 28	082 18 15	01	79-12-10	710	7.7	8.0	42	0	13	2.4	160	2.6
85	38 18 32	082 28 39	01	79-12-12	580	7.2	13.5	33	0	9.6	2.3	130	2.0
86	38 18 47	082 33 49	01	80-08-25	750	7.2	18.0	230	0	67	16	83	2.7
87	38 19 06	082 31 00	01	79-12-13	1000	7.5	13.0	71	0	21	4.5	210	2.7
88	38 20 39	082 34 04	01	80-08-25	480	7.1	20.5	180	0	54	11	34	2.3
89	38 20 40	082 27 00	01	79-12-12	1520	7.4	13.5	79	0	21	6.4	330	2.7
90	38 20 50	082 30 54	01	79-12-13	620	7.1	7.5	160	0	45	11	82	2.3
91	38 21 33	082 29 22	01	79-12-12	710	7.7	9.0	60	0	16	4.9	150	1.4
92	38 22 03	082 34 50	01	80-08-25	530	7.7	17.0	100	0	29	6.6	83	3.6

REF. NO.	DATE OF SAMPLE	ALKA- LINIT FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
WAYNE											
67	79-11-30	110	7.4	2.5	9.2	143	.07	.000	20	270	70
68	79-12-11	190	6.4	12	9.4	245	.01	.000	20	2200	180
70	79-11-30	350	24	21	9.2	448	.00	.080	20	60	30
71	80-08-26	190	29	2.6	13	255	--	--	100	130	210
72	80-08-27	230	30	7.6	13	301	--	--	100	30	120
73	79-11-30	140	3.9	9.9	11	181	.01	.010	20	1800	200
74	80-08-26	340	54	15	12	476	--	--	100	40	10
76	80-08-26	350	440	5.6	14	1110	--	--	100	1000	220
77	80-08-26	280	3.5	6.3	14	321	--	--	100	70	20
78	80-08-26	90	--	9500	13	6790	--	--	100	19000	1400
79	79-12-10	170	9.7	2.5	16	210	.10	.020	30	40	50
81	80-08-25	530	6.5	11	9.3	612	--	--	200	40	10
82	80-08-25	200	49	3.9	23	329	--	--	100	300	730
83	79-12-13	270	68	3.9	11	397	.11	.010	30	260	260
84	79-12-10	250	26	71	7.3	442	.42	.030	10	10	5
85	79-12-12	280	20	3.1	10	354	.31	.000	20	30	2
86	80-08-25	320	35	3.0	19	438	--	--	200	480	150
87	79-12-13	440	45	19	9.9	586	.02	.010	10	100	60
88	80-08-25	210	30	1.9	36	286	--	--	100	690	130
89	79-12-12	360	400	18	7.9	1070	.04	.000	20	80	70
90	79-12-13	320	17	9.7	8.9	384	.00	.010	20	20	40
91	79-12-12	320	45	9.5	8.8	431	.16	.010	20	10	2
92	80-08-25	270	6.2	8.0	17	312	--	--	100	60	20

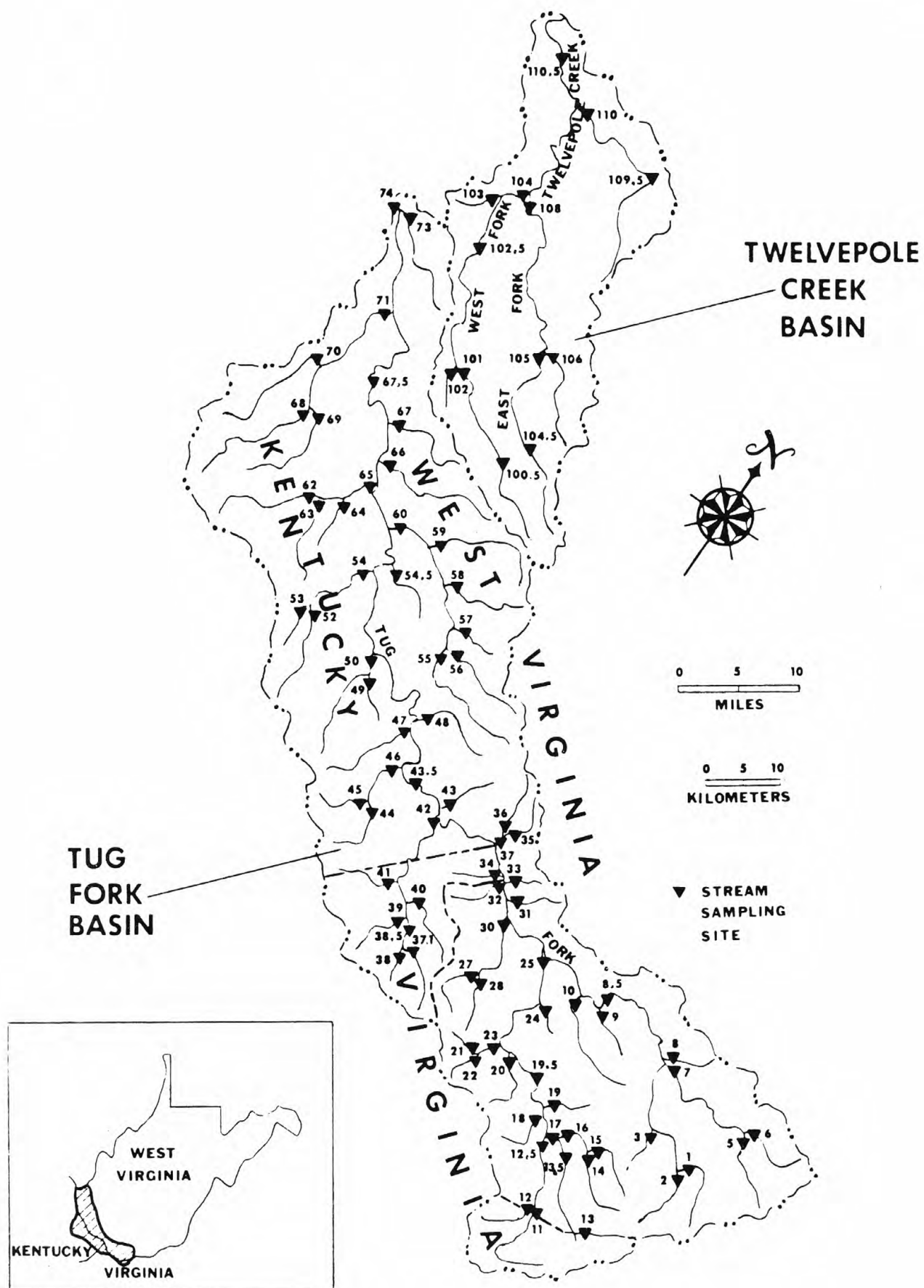


FIGURE 11.--LOCATION OF SELECTED STREAM-SAMPLING SITES IN TUG FORK-TWELVEPOLE CREEK BASINS PROJECT AREA.

TABLE 12.--QUALITY ANALYSES OF WATER FROM STREAMS

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
372002081285501 - 001.0 TUG FORK AT SKYGUSTY, WV (LAT 37 20 02 LONG 081 28 55)												
OCT , 1978												
10...	0945	4.0	605	7.7	8.5	11.0	--	--	--	--	--	--
AUG , 1980												
06...	1220	14	450	8.0	22.0	7.9	.47	K23000	2900	210	120	51
APR , 1981												
13...	1815	34	290	7.9	18.0	8.6	.77	K8000	4100	120	64	28
371936081283601 - 002.0 SOUTH FORK AT SKYGUSTY, WV (LAT 37 19 36 LONG 081 28 36)												
OCT , 1978												
10...	1030	.64	380	7.7	10.0	11.9	--	--	--	--	--	--
AUG , 1980												
06...	1310	3.6	330	8.3	25.0	6.8	.43	2900	K1500	140	83	34
APR , 1981												
13...	1850	40	148	7.3	15.0	9.7	.65	4400	2000	51	0	12
372153081330801 - 003.0 SANDLICK CREEK AT GARY, WV (LAT 37 21 53 LONG 081 33 08)												
OCT , 1978												
09...	1630	1.8	850	7.5	15.0	9.2	--	--	--	--	--	--
AUG , 1980												
06...	1100	4.7	790	7.5	20.5	8.3	.24	5400	1400	360	300	78
APR , 1981												
14...	0750	8.5	637	7.4	11.5	10.4	.57	5200	1500	270	220	60
372453081254201 - 005.0 ELKHORN CREEK AT NORTHFORK, WV (LAT 37 24 53 LONG 081 25 42)												
OCT , 1978												
09...	1230	8.7	560	7.7	10.5	10.5	--	--	--	--	--	--
AUG , 1980												
05...	1420	28	525	8.3	19.0	8.6	.12	K6200	K1500	190	12	44
APR , 1981												
13...	1430	28	560	8.4	19.0	9.2	.68	8400	1600	190	6	43
372455081254601 - 006.0 NORTH FORK ELKHORN CREEK AT NORTHFORK, WV (LAT 37 24 55 LONG 081 25 46)												
OCT , 1978												
09...	1315	4.5	620	7.8	12.5	10.6	--	--	--	--	--	--
AUG , 1980												
05...	1530	15	580	8.4	22.5	5.9	.29	K7300	2000	160	0	40
APR , 1981												
13...	1610	34	490	8.1	19.0	8.7	.90	8600	1800	130	0	33
372555081345901 - 007.0 ELKHORN CREEK AT WELCH, WV (LAT 37 25 55 LONG 081 34 59)												
OCT , 1978												
09...	1430	42	780	8.1	13.5	11.4	--	--	--	--	--	--
372617081352201 - 008.0 BROWNS CREEK AT WELCH, WV (LAT 37 26 17 LONG 081 35 22)												
OCT , 1978												
09...	1500	4.01	710	7.9	9.0	10.0	--	--	--	--	--	--

K Results based on colony count outside the acceptable range (non-ideal colony count).

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	21	12	11	.4	3.7	110	120	6.7	.2	6.7	302	281
APR , 1981												
13...	12	9.7	15	.4	2.3	61	62	6.4	<.1	7.3	168	161

OCT , 1978	--	--	--	--	--	--	--	--	--	--	--	--
10...												
AUG , 1980												
06...	14	9.4	12	.3	3.0	72	82	7.1	.2	5.6	213	193
APR , 1981												
13...	5.0	3.6	13	.2	2.2	25	33	3.1	.2	7.1	87	100

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	39	31	16	.7	4.4	56	350	4.4	.2	13	592	556
APR , 1981												
14...	28	19	13	.5	3.4	44	250	4.6	.2	12	457	405

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
05...	20	37	29	1.2	2.9	180	87	4.0	.2	7.4	315	311
APR , 1981												
13...	19	37	30	1.2	3.6	170	86	12	.1	7.9	325	317

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
05...	15	65	46	2.2	2.9	210	100	3.3	.2	8.4	368	362
APR , 1981												
13...	12	42	40	1.6	2.5	150	77	4.9	.1	8.1	294	270

OCT , 1978
09... -- -- -- -- -- -- -- -- -- -- -- -- --

[illegible]

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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372002081285501 - 001.0 TUG FORK AT SKYGUSTY, WV (LAT 37 20 02 LONG 081 28 55)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.41	11.4	.27	.020	.03	.18	.20	.020	100	20	60
APR , 1981											
13...	.23	15.4	.45	.040	.05	.28	.32	.040	0	20	70

371936081283601 - 002.0 SOUTH FORK AT SKYGUSTY, WV (LAT 37 19 36 LONG 081 28 36)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.29	2.0	.24	.020	.03	.17	.19	.010	200	30	10
APR , 1981											
13...	.12	9.4	.34	.070	.09	.24	.31	.020	0	40	20

372153081330801 - 003.0 SANDLICK CREEK AT GARY, WV (LAT 37 21 53 LONG 081 33 08)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.81	7.5	.15	.020	.03	.07	.09	.020	100	20	1100
APR , 1981											
14...	.62	10.5	.37	.010	.01	.19	.20	.010	100	20	790

372453081254201 - 005.0 ELKHORN CREEK AT NORTHFORK, WV (LAT 37 24 53 LONG 081 25 42)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.43	23.8	.10	.010	.01	.01	.02	.050	200	20	10
APR , 1981											
13...	.44	24.6	.36	<.010	.01	--	.32	.040	0	<10	10

372455081254601 - 006.0 NORTH FORK ELKHORN CREEK AT NORTHFORK, WV (LAT 37 24 55 LONG 081 25 46)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.50	14.9	.09	.020	.03	.18	.20	.070	100	40	10
APR , 1981											
13...	.40	27.0	.42	.070	.09	.41	.48	.040	100	30	30

372555081345901 - 007.0 ELKHORN CREEK AT WELCH, WV (LAT 37 25 55 LONG 081 34 59)

[illegible]

372617081352201 - 008.0 BROWNS CREEK AT WELCH, WV (LAT 37 26 17 LONG 081 35 22)

[illegible]

AUG , 1980													
08...	0800	154	610	8.2	21.5	7.8	.29	K7800	2700	170	0	41	
APR , 1981													
15...	1620	345	395	8.0	16.0	8.8	.90	K30000	720	120	18	29	

OCT , 1978												
11... 0945	1.3	650	7.6	9.5	10.4	--	--	--	--	--	--	--
AUG , 1980												
08... 0930	1.4	640	8.1	22.5	8.2	.43	K27000	7100	200	51	49	
APR , 1981												
15... 1755	15	460	8.4	14.0	9.8	.76	K41000	2300	120	19	28	

OCT , 1978													
11...	1030	17	2100	8.4	11.0	9.4	--	--	--	--	--	--	--
AUG , 1980													
08...	1100	13	1030	8.5	22.0	8.2	.36	450	480	120	0	27	
APR , 1981													
15...	1920	35	531	8.8	14.0	9.5	.52	150	K68	70	0	17	

OCT , 1978												
10...	1300	6.4	755	8.1	15.0	11.4	--	--	--	--	--	--
AUG , 1980												
06...	1715	34	700	8.1	19.0	8.6	.51	580	260	240	0	62
APR , 1981												
14...	1410	40	480	8.5	17.0	10.3	.82	190	K28	170	0	45

OCT , 1978												
10...	1315	8.9	735	8.3	12.0	10.7	--	--	--	--	--	--
AUG , 1980												
06...	1815	9.5	770	8.5	22.5	7.6	.54	K7700	2400	97	0	26
APR , 1981												
14...	1315	11	355	8.4	17.5	10.0	.48	440	150	79	0	21

AUG , 1980												
06...	1930	40	640	8.3	23.5	7.4	.15	K11000	1100	180	0	42
APR , 1981												
14...	1540	64	360	8.7	17.0	9.6	.55	3200	420	110	0	30

[illegible]

AUG , 1980												
08...	16	67	46	2.2	3.4	190	120	8.0	.2	4.4	387	375
APR , 1981												
15...	11	35	39	1.4	.8	100	76	6.7	.1	8.8	223	228

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
08...	19	60	39	1.8	3.6	150	150	13	.2	3.0	408	388
APR , 1981												
15...	12	40	42	1.6	2.2	92	110	8.1	.1	8.1	288	269

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
08...	13	200	78	7.9	3.1	320	200	25	.3	2.5	670	664
APR , 1981												
15...	6.8	85	72	4.4	2.0	160	84	15	.2	7.6	320	314

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	21	70	38	2.0	3.4	290	86	6.6	.2	6.4	440	431
APR , 1981												
14...	13	44	36	1.5	2.1	190	49	3.7	.1	6.3	266	272

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	7.8	150	76	6.6	2.9	350	73	6.8	.6	9.4	500	488
APR , 1981												
14...	6.4	38	50	1.9	2.7	120	45	2.9	.2	7.8	208	196

AUG , 1980												
06..	18	78	48	2.5	3.4	250	98	6.5	.3	5.1	407	402
APR , 1981												
14..	8.7	31	37	1.3	2.0	130	45	3.4	.1	4.9	197	203

[illegible]

AUG , 1980											
08...	.53	161	.09	.090	.12	.11	.20	.040	100	20	10
APR , 1981											
15...	.30	208	.50	.050	.06	.35	.40	.040	300	470	50

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.55	1.5	.01	.050	.06	.37	.42	.090	200	60	30
APR , 1981											
15...	.39	11.7	.44	.010	.01	.31	.32	.070	100	30	70

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.91	23.5	.23	.000	.00	.13	.13	.010	100	20	20
APR , 1981											
15...	.44	30.2	.21	.010	.01	.30	.31	.020	0	30	20

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	.60	40.4	.30	.000	.00	.21	.21	.030	100	20	10	
APR , 1981												
14...	.36	28.7	.41	.020	.03	.39	.41	<.010	100	30	9	

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.68	12.8	.14	.000	.00	.40	.40	.040	100	160	10
APR , 1981											
14...	.28	6.1	.23	.010	.01	.24	.25	.050	0	60	30

AUG , 1980												
06...	.55	44.0	.13	.000	.00	.02	.02	.010	100	20	10	
APR , 1981												
14...	.27	34.0	.17	.010	.01	.37	.38	.020	100	10	10	

OCT , 1978
10... -- -- -- -- -- -- -- -- -- --

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CACO3)	HARD- NESS, NONCAR- BONATE (MG/L CACO3)	CALCIUM DIS- SOLVED (MG/L AS CA)
371643081373801 - 013.5 JACOBS FORK @ CUCUMBER, WV (LAT 37 16 43 LONG 081 37 38)												
AUG , 1980												
07...	0945	16	950	8.4	21.5	8.3	.20	2000	660	140	0	36
APR , 1981												
14...	1710	28	580	8.5	16.0	8.6	.88	K11000	6000	84	0	23
371754081362801 - 014.0 BIG CREEK NR CUCUMBER, WV (LAT 37 17 54 LONG 081 36 28)												
OCT , 1978												
09...	1745	.49	405	7.7	10.0	10.6	--	--	--	--	--	--
371821081355601 - 015.0 LONG BRANCH NR CUCUMBER, WV (LAT 37 18 21 LONG 081 35 56)												
OCT , 1978												
09...	--	.00	--	--	--	--	--	--	--	--	--	--
371724081390801 - 016.0 BIG CREEK NEAR RIFT, WV (LAT 37 17 24 LONG 081 39 08)												
OCT , 1978												
10...	1445	.43	380	7.7	15.0	10.0	--	--	--	--	--	--
AUG , 1980												
07...	1100	34	420	7.9	24.0	7.8	.29	1800	600	190	100	41
APR , 1981												
14...	1925	25	190	7.4	15.0	9.0	.50	K710	400	73	35	16
371651081395201 - 017.0 JACOBS FORK AT RIFT, WV (LAT 37 16 51 LONG 081 39 52)												
OCT , 1978												
10...	1430	10	840	8.0	12.0	11.1	--	--	--	--	--	--
AUG , 1980												
06...	2030	14	600	8.2	25.0	7.1	.13	2700	2000	160	0	38
APR , 1981												
14...	1550	58	380	8.7	17.0	9.2	.42	3400	400	77	0	19
371805081412801 - 018.0 WAR CREEK AT WAR, WV (LAT 37 18 05 LONG 081 41 28)												
OCT , 1978												
10...	1530	.27	500	7.7	17.5	9.9	--	--	--	--	--	--
AUG , 1980												
06...	1550	.51	500	8.0	31.0	6.2	1.2	K39000	5400	150	1	39
APR , 1981												
15...	0725	12	118	7.2	11.0	10.6	.65	48000	4900	38	15	9.2
371915081414701 - 019.0 BARRENSHE CREEK AT YUKON, WV (LAT 37 19 15 LONG 081 41 47)												
OCT , 1978												
10...	1600	1.7	950	8.5	18.0	10.8	--	--	--	--	--	--
AUG , 1980												
07...	1230	4.4	860	8.5	24.5	8.0	.38	K21000	2900	130	0	35
APR , 1981												
15...	0905	15	750	8.4	10.5	10.4	.81	19000	980	190	33	51
372030081433301 - 019.5 DRY FORK @ BARTLEY, WV (LAT 37 20 30 LONG 081 43 33)												
AUG , 1980												
07...	1345	69	650	8.5	25.5	7.9	.41	1900	320	160	0	39
APR , 1981												
15...	1020	192	420	8.3	13.0	10.2	.81	4500	420	100	0	27

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINEITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
371643081373801 - 013.5 JACOBS FORK @ CUCUMBER, WV (LAT 37 16 43 LONG 081 37 38)												
AUG , 1980												
07...	13	180	73	6.5	3.0	370	140	8.1	.3	3.9	606	607
APR , 1981												
14...	6.4	77	66	3.7	2.2	210	76	7.6	.2	3.8	356	323
371754081362801 - 014.0 BIG CREEK NR CUCUMBER, WV (LAT 37 17 54 LONG 081 36 28)												
OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
371821081355601 - 015.0 LONG BRANCH NR CUCUMBER, WV (LAT 37 18 21 LONG 081 35 56)												
OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
371724081390801 - 016.0 BIG CREEK NEAR RIFT, WV (LAT 37 17 24 LONG 081 39 08)												
OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	21	13	13	.4	3.4	94	120	1.8	.2	4.4	265	257
APR , 1981												
14...	8.0	5.1	13	.3	1.9	34	49	1.2	<.1	6.8	105	111
371651081395201 - 017.0 JACOBS FORK AT RIFT, WV (LAT 37 16 51 LONG 081 39 52)												
OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	17	71	48	2.4	3.3	190	120	5.1	.3	2.9	387	372
APR , 1981												
14...	7.1	41	53	2.0	2.1	110	59	4.6	.1	4.7	233	204
371805081412801 - 018.0 WAR CREEK AT WAR, WV (LAT 37 18 05 LONG 081 41 28)												
OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	13	45	39	1.6	4.1	150	84	15	.2	8.3	313	303
APR , 1981												
15...	3.7	7.6	29	.5	1.3	27	24	2.2	<.1	8.2	61	70
371915081414701 - 019.0 BARRENSHE CREEK AT YUKON, WV (LAT 37 19 15 LONG 081 41 47)												
OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	11	160	72	6.0	4.1	310	150	12	.4	10	572	571
APR , 1981												
15...	16	78	46	2.4	3.1	160	200	6.5	.2	10	471	461
372030081433301 - 019.5 DRY FORK W BARTLEY, WV (LAT 37 20 30 LONG 081 43 33)												
AUG , 1980												
07...	16	89	54	3.0	3.3	250	98	8.5	.3	1.7	418	407
APR , 1981												
15...	8.4	43	47	1.9	2.2	140	59	6.0	.1	4.7	236	235

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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371643081373801 - 013.5 JACOBS FORK @ CUCUMBER, WV (LAT 37 16 43 LONG 081 37 38)

AUG , 1980											
07...	.82	26.2	.00	.000	.00	.20	.20	.020	100	30	10
APR , 1981											
14...	.48	26.9	.46	.070	.09	.35	.42	.040	100	40	10

371754081362801 - 014.0 BIG CREEK NR CUCUMBER, WV (LAT 37 17 54 LONG 081 36 28)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--

371821081355601 - 015.0 LONG BRANCH NR CUCUMBER, WV (LAT 37 18 21 LONG 081 35 56)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--

371724081390801 - 016.0 BIG CREEK NEAR RIFT, WV (LAT 37 17 24 LONG 081 39 08)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.36	24.3	.13	.020	.03	.14	.16	.010	100	20	20
APR , 1981											
14...	.14	7.0	.19	<.010	.01	--	.31	<.010	100	90	20

371651081395201 - 017.0 JACOBS FORK AT RIFT, WV (LAT 37 16 51 LONG 081 39 52)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.53	14.6	.03	.010	.01	.09	.10	.010	200	30	10
APR , 1981											
14...	.32	36.5	.12	.020	.03	.28	.30	.040	200	60	30

371805081412801 - 018.0 WAR CREEK AT WAR, WV (LAT 37 18 05 LONG 081 41 28)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.43	.43	.86	.040	.05	.26	.30	.320	100	30	40
APR , 1981											
15...	.08	1.9	.34	<.010	.01	--	.31	.030	0	60	20

371915081414701 - 019.0 BARRENSHE CREEK AT YUKON, WV (LAT 37 19 15 LONG 081 41 47)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.78	6.8	.35	.000	.00	.03	.03	.170	100	30	20
APR , 1981											
15...	.64	19.1	.44	.080	.10	.29	.37	.060	0	<10	130

372030081433301 - 019.5 DRY FORK @ BARTLEY, WV (LAT 37 20 30 LONG 081 43 33)

AUG , 1980											
07...	.57	77.9	.06	.000	.00	.35	.35	.030	100	30	10
APR , 1981											
15...	.32	122	.32	.030	.04	.46	.49	<.010	0	30	20

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
372038081465301 - 020.0 LITTLE SLATE CREEK AT RAYSAL, WV (LAT 37 20 38 LONG 081 46 53)												
OCT , 1978												
10...	1645	2.4	810	7.4	15.0	5.2	--	--	--	--	--	--
AUG , 1980												
07...	1500	5.5	920	7.8	16.0	5.6	.36	K0	160	55	0	15
APR , 1981												
15...	1135	20	460	7.6	13.5	7.4	.71	670	840	46	0	12
371924081491301 - 021.0 BRADSHAW CREEK AT JOLO, WV (LAT 37 19 24 LONG 081 49 13)												
OCT , 1978												
11...	1345	.08	430	7.5	14.0	9.8	--	--	--	--	--	--
371923081491001 - 022.0 MIDDLE FORK AT JOLO, WV (LAT 37 19 23 LONG 081 49 10)												
OCT , 1978												
11...	1400	.03	300	7.6	20.0	8.6	--	--	--	--	--	--
372056081481301 - 023.0 BRADSHAW CREEK AT BRADSHAW, WV (LAT 37 20 56 LONG 081 48 13)												
OCT , 1978												
11...	1315	.19	480	8.1	18.0	12.0	--	--	--	--	--	--
AUG , 1980												
07...	1630	.20	340	9.0	28.0	6.9	.45	K19000	2800	100	17	30
APR , 1981												
15...	1255	22	132	8.3	14.0	9.7	.73	1900	760	40	22	9.9
372444081465501 - 024.0 CRANE CREEK AT AVONDALE, WV (LAT 37 24 44 LONG 081 46 55)												
OCT , 1978												
11...	1245	.02	240	8.1	15.0	11.2	--	--	--	--	--	--
372739081490501 - 025.0 DRY FORK AT IAEGER, WV (LAT 37 27 39 LONG 081 49 05)												
OCT , 1978												
11...	1100	27	780	8.2	14.0	10.3	--	--	--	--	--	--
372409081525801 - 027.0 PANTHER CREEK NR ROCKRIDGE, WV (LAT 37 24 09 LONG 081 52 58)												
OCT , 1978												
13...	1130	.92	820	8.2	14.0	11.0	--	--	--	--	--	--
372412081525801 - 028.0 MEATHOUSE FORK NEAR PANTHER, WV (LAT 37 24 12 LONG 081 52 58)												
OCT , 1978												
13...	1115	.07	335	7.8	14.0	10.2	--	--	--	--	--	--
372855081535401 - 030.0 PANTHER CREEK AT PANTHER, WV (LAT 37 28 55 LONG 081 53 54)												
OCT , 1978												
11...	1715	3.9	510	8.3	17.5	9.6	--	--	--	--	--	--

OCT , 1978													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980													
07...	4.2	210	89	12	1.8	470	4.8	41	.6	11	575	571	
APR , 1981													
15...	4.0	85	79	5.4	1.6	190	25	16	.2	8.6	277	273	

[illegible]

OCT , 1978
11... -- -- -- -- -- -- -- -- -- -- -- --

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	6.5	27	36	1.2	3.7	85	38	29	.2	5.3	204	191
APR , 1981												
15...	3.6	7.7	29	.5	1.5	20	27	6.3	<.1	8.9	79	76

[illegible]

OCT , 1978
11... -- -- -- -- -- -- -- -- -- -- -- --

[illegible][illegible]

OCT , 1978
11... -- -- -- -- -- -- -- -- -- -- -- --

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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372038081465301 - 020.0 LITTLE SLATE CREEK AT RAYSAL, WV (LAT 37 20 38 LONG 081 46 53)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	.78	8.5	.00	.250	.32	.11	.36	.070	0	50	80	
APR , 1981												
15...	.38	15.0	.28	.080	.10	.35	.43	.030	30	30	30	

371924081491301 - 021.0 BRADSHAW CREEK AT JOLO, WV (LAT 37 19 24 LONG 081 49 13)

OCT , 1978
11... -- -- -- -- -- -- -- -- -- --

371923081491001 - 022.0 MIDDLE FORK AT JOLO, WV (LAT 37 19 23 LONG 081 49 10)

[illegible]

372056081481301 - 023.0 BRADSHAW CREEK AT BRADSHAW, WV (LAT 37 20 56 LONG 081 48 13)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.28	.11	.06	.030	.04	.36	.39	.140	200	50	30
APR , 1981											
15...	.11	4.6	.30	.040	.05	.39	.43	.050	100	50	20

372444081465501 - 024.0 CRANE CREEK AT AVONDALE, WV (LAT 37 24 44 LONG 081 46 55)

OCT , 1978
11... ..

372739081490501 - 025.0 DRY FORK AT IAEGER, WV (LAT 37 27 39 LONG 081 49 05)

[illegible]

372409081525801 - 027.0 PANTHER CREEK NR ROCKRIDGE, WV (LAT 37 24 09 LONG 081 52 58)

OCT , 1978
13... -- -- -- -- -- -- -- -- --

372412081525801 - 028.0 MEATHOUSE FORK NEAR PANTHER, WV (LAT 37 24 12 LONG 081 52 58)

[illegible]

372855081535401 - 030.0 PANTHER CREEK AT PANTHER, WV (LAT 37 28 55 LONG 081 53 54)

[illegible]

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
372955081544001 - 031.0 LONGPOLE CREEK NEAR PANTHER, WV (LAT 37 29 55 LONG 081 54 40)												
OCT , 1978												
11...	1730	2.8	380	8.0	15.5	9.8	--	--	--	--	--	--
AUG , 1980												
08...	1415	5.1	302	8.5	27.5	7.7	.08	430	860	130	64	29
APR , 1981												
16...	1215	8.3	275	7.9	16.0	10.2	.90	420	300	110	72	23
373028081554801 - 032.0 BULL CREEK AT WYOMING CITY, WV (LAT 37 30 28 LONG 081 55 48)												
OCT , 1978												
11...	1815	.04	265	7.6	13.0	10.0	--	--	--	--	--	--
373041081553701 - 033.0 FOURPOLE CREEK AT WYOMING CITY, WV (LAT 37 30 41 LONG 081 55 37)												
OCT , 1978												
11...	1830	.25	560	7.8	16.0	8.9	--	--	--	--	--	--
AUG , 1980												
08...	1530	2.1	540	8.0	29.5	6.7	.75	K10000	3400	250	210	55
APR , 1981												
16...	1350	5.5	415	7.2	18.5	9.1	.77	930	560	160	140	33
373051081564401 - 034.0 LONG BRANCH NEAR HURLEY, VA (LAT 37 30 51 LONG 081 56 44)												
OCT , 1978												
12...	1000	.26	330	7.3	13.0	9.3	--	--	--	--	--	--
373319081575801 - 035.0 BEN CREEK AT WHARNCLIFFE, WV (LAT 37 33 19 LONG 081 57 58)												
OCT , 1978												
12...	1145	.18	330	7.9	18.0	11.0	--	--	--	--	--	--
373318081575801 - 036.0 LEFT FORK AT WHARNCLIFFE, WV (LAT 37 33 18 LONG 081 57 58)												
OCT , 1978												
12...	1115	.33	290	7.5	16.0	10.6	--	--	--	--	--	--
373241081574301 - 037.0 BEN CREEK AT WHARNCLIFFE STATION, WV (LAT 37 32 41 LONG 081 57 43)												
OCT , 1978												
12...	1100	.69	310	7.4	14.5	10.6	--	--	--	--	--	--
SEP , 1979												
11...	1740	5.1	270	8.1	25.0	--	--	--	--	98	53	21
AUG , 1980												
08...	1730	35	140	7.4	25.5	7.2	.51	K10000	4000	53	36	11
APR , 1981												
16...	1630	25	184	7.6	18.5	9.2	.80	950	1300	63	40	13
372305081595201 - 037.1 KNOX CREEK AT BLACKKEY, VA (LAT 37 23 05 LONG 081 59 52)												
OCT , 1978												
12...	1730	.13	290	8.6	18.5	10.1	--	--	--	--	--	--
372255082000001 - 038.0 RIGHT FORK AT BLACKKEY, VA (LAT 37 22 55 LONG 082 00 00)												
OCT , 1978												
12...	1745	.22	345	8.0	19.0	8.4	--	--	--	--	--	--

DATE	SOLIDS, DIS- SOLVED (TNS PER AC-FT)	SOLIDS, DIS- SOLVED (TNS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN, AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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372955081544001 - 031.0 LONGPOLE CREEK NEAR PANTHER, WV (LAT 37 29 55 LONG 081 54 40)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.27	2.7	.03	.000	.00	.05	.05	.010	100	20	10
APR , 1981											
16...	.24	4.0	.21	<.010	.01	--	.69	<.010	0	10	20

37302#081554801 - 032.0 BULL CREEK AT WYOMING CITY, WV (LAT 37 30 28 LONG 081 55 48)

[illegible]

373041081553701 - 033.0 FOURPOLE CREEK AT WYOMING CITY, WV (LAT 37 30 41 LONG 081 55 37)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.53	2.1	.22	.040	.05	.49	.53	.040	200	20	130
APR , 1981											
16...	.33	3.6	.38	.050	.06	.34	.39	<.010	100	<10	450

373051081564401 - 034.0 LONG BRANCH NEAR HURLEY, VA (LAT 37 30 51 LONG 081 56 44)

[illegible]

373319081575801 - 035.0 BEN CREEK AT WHARNCLIFFE, WV (LAT 37 33 19 LONG 081 57 58)

OCT , 1978
12... -- -- -- -- -- -- -- -- -- --

373318081575801 - 036.0 LEFT FORK AT WHARNCLIFFE, WV (LAT 37 33 18 LONG 081 57 58)

OCT , 1978
12... -- -- -- -- -- -- -- -- -- --

373241081574301 - 037.0 BEN CREEK AT WHARNCLIFFE STATION, WV (LAT 37 32 41 LONG 081 57 43)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979											
11...	.21	2.1	--	--	--	--	--	--	50	40	20
AUG , 1980											
08...	.12	8.3	.41	.020	.03	.08	.10	.000	100	40	20
APR , 1981											
16...	.16	7.6	.38	.030	.04	.39	.42	.020	100	20	20

372305081595201 - 037.1 KNOX CREEK AT BLACKKEY, VA (LAT 37 23 05 LONG 081 59 52)

[illegible]

372255082000001 - 038.0 RIGHT FORK AT BLACKKEY, VA (LAT 37 22 55 LONG 082 00 00)

OCT , 1978
12... -- -- -- -- -- -- -- -- -- -- --

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
372511082011401 - 038.5 KNOX CREEK @ HURLEY, VA (LAT 37 25 11 LONG 082 01 14)												
AUG , 1980												
07...	1735	10	300	7.8	28.0	--	.80	K23000	K30000	130	63	34
APR , 1981												
14...	1610	61	150	8.5	17.0	8.4	.93	K10000	9100	59	11	15
372501082012301 - 039.0 LESTER FORK AT HURLEY, VA (LAT 37 25 01 LONG 082 01 23)												
OCT , 1978												
12...	1700	.79	735	8.4	19.5	9.8	--	--	--	--	--	--
AUG , 1980												
07...	1635	5.5	390	7.4	26.5	--	.73	K87000	K64000	180	140	42
APR , 1981												
14...	1420	13	349	7.9	20.5	9.2	.98	1200	3000	150	130	33
372605082015801 - 040.0 GUESS FORK NEAR HURLEY, VA (LAT 37 26 05 LONG 082 01 58)												
OCT , 1978												
12...	1630	.14	270	8.0	20.5	9.2	--	--	--	--	--	--
AUG , 1980												
07...	1530	1.5	295	8.3	29.0	--	.28	K9800	K22000	130	56	32
APR , 1981												
14...	1230	37	118	7.6	16.0	9.0	1.2	4300	3700	43	0	9.8
372649082033101 - 041.0 PAWPAW CREEK NEAR HURLEY, VA (LAT 37 26 49 LONG 082 03 31)												
OCT , 1978												
12...	1600	.66	540	8.3	19.0	10.0	--	--	--	--	--	--
AUG , 1980												
07...	1420	5.1	500	7.9	28.0	--	.26	K8400	K13000	230	170	56
APR , 1981												
14...	1100	29	230	7.6	17.5	10.5	1.1	5000	630	100	80	22
373208082033401 - 042.0 KNOX CREEK NEAR WOODMAN, KY (LAT 37 32 08 LONG 082 03 34)												
OCT , 1978												
12...	1500	6.0	500	7.9	19.0	10.2	--	--	--	--	--	--
SEP , 1979												
12...	1050	19	440	7.7	22.0	--	--	--	--	190	120	44
AUG , 1980												
07...	1130	15	425	7.7	26.0	--	.65	5600	4700	180	120	44
APR , 1981												
14...	1830	286	202	7.7	16.5	8.8	1.0	7400	2800	77	46	17
373247082035301 - 043.0 BEECH CREEK AT DEVON, WV (LAT 37 32 47 LONG 082 03 53)												
OCT , 1978												
12...	1245	.07	350	7.9	16.0	11.0	--	--	--	--	--	--
AUG , 1980												
06...	1110	6.0	236	7.3	22.0	--	.39	K10000	8000	100	41	22
APR , 1981												
14...	0730	23	201	7.6	12.5	10.0	.94	870	1000	80	39	17
373304082072901 - 043.5 TUG FORK @ VULCAN, WV (LAT 37 33 04 LONG 082 07 29)												
AUG , 1980												
07...	0900	404	575	8.1	25.0	--	.26	2000	1200	150	0	32
APR , 1981												
15...	1130	1100	300	8.1	15.0	9.2	.78	1900	470	92	24	22

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
372511082011401 - 038.5 KNOX CREEK @ HURLEY, VA (LAT 37 25 11 LONG 082 01 14)												
AUG , 1980 07...	11	7.5	11	.3	3.3	69	62	9.5	.1	5.4	206	175
APR , 1981 14...	5.2	3.7	12	.2	1.7	40	31	4.6	<.1	8.2	86	99
372501082012301 - 039.0 LESTER FORK AT HURLEY, VA (LAT 37 25 01 LONG 082 01 23)												
OCT , 1978 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980 07...	18	7.6	8	.2	3.9	52	130	4.3	.2	7.1	274	242
APR , 1981 14...	17	8.2	10	.3	2.2	34	130	2.8	.1	9.8	215	218
372605082015801 - 040.0 GUESS FORK NEAR HURLEY, VA (LAT 37 26 05 LONG 082 01 58)												
OCT , 1978 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980 07...	12	7.2	11	.3	3.4	74	61	5.0	.2	3.5	189	169
APR , 1981 14...	4.5	2.7	12	.2	1.5	19	27	1.5	<.1	8.5	73	--
372649082033101 - 041.0 PAWPAW CREEK NEAR HURLEY, VA (LAT 37 26 49 LONG 082 03 31)												
OCT , 1978 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980 07...	23	7.9	7	.2	3.3	64	180	4.1	.2	7.1	330	322
APR , 1981 14...	11	5.4	10	.2	2.1	26	73	2.1	<.1	9.5	139	137
373208082033401 - 042.0 KNOX CREEK NEAR WOODMAN, KY (LAT 37 32 08 LONG 082 03 34)												
OCT , 1978 12...	--	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979 12...	19	9.5	10	.3	3.3	71	120	4.9	.1	5.9	269	250
AUG , 1980 07...	18	8.3	9	.3	3.5	61	130	5.8	.2	6.8	290	255
APR , 1981 14...	8.4	4.3	11	.2	1.8	28	60	2.2	<.1	7.8	123	120
373247082035301 - 043.0 BEECH CREEK AT DEVON, WV (LAT 37 32 47 LONG 082 03 53)												
OCT , 1978 12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980 06...	11	8.9	16	.4	2.8	59	53	3.2	.1	6.8	138	145
APR , 1981 14...	9.1	6.9	15	.3	2.3	41	51	2.7	<.1	7.2	118	121
373304082072901 - 043.5 TUG FORK @ VULCAN, WV (LAT 37 33 04 LONG 082 07 29)												
AUG , 1980 07...	16	67	49	2.4	3.3	160	120	9.4	.2	2.0	339	347
APR , 1981 15...	9.0	28	39	1.3	1.9	71	60	5.7	.1	7.4	175	175

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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372511082011401 - 038.5 KNOX CREEK @ HURLEY, VA (LAT 37 25 11 LONG 082 01 14)

AUG , 1980											
07...	.28	5.5	.40	.010	.01	.39	.40	.020	100	30	20
APR , 1981											
14...	.12	14.2	.41	.090	.12	.43	.52	.030	300	430	40

372501082012301 - 039.0 LESTER FORK AT HURLEY, VA (LAT 37 25 01 LONG 082 01 23)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.37	4.0	.55	.000	.00	.18	.18	.050	500	40	90
APR , 1981											
14...	.29	7.5	.47	.050	.06	.46	.51	.030	200	50	120

372605082015801 - 040.0 GUESS FORK NEAR HURLEY, VA (LAT 37 26 05 LONG 082 01 58)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.26	.77	.02	.080	.10	.18	.26	.020	300	20	20
APR , 1981											
14...	.10	7.2	.53	.030	.04	.68	.71	.020	0	50	20

372649082033101 - 041.0 PAWPAW CREEK NEAR HURLEY, VA (LAT 37 26 49 LONG 082 03 31)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.45	4.5	.15	.000	.00	.11	.11	.010	200	20	40
APR , 1981											
14...	.19	10.9	.44	.090	.12	.58	.67	.020	200	80	60

373208082033401 - 042.0 KNOX CREEK NEAR WOODMAN, KY (LAT 37 32 08 LONG 082 03 34)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979											
12...	.37	13.8	--	--	--	--	--	--	60	20	70
AUG , 1980											
07...	.39	11.7	.40	.000	.00	.25	.25	.010	200	30	20
APR , 1981											
14...	.17	95.0	.47	.080	.10	.45	.53	.010	100	40	30

373247082035301 - 043.0 BEECH CREEK AT DEVON, WV (LAT 37 32 47 LONG 082 03 53)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.19	2.2	.32	.000	.00	.07	.07	.010	100	20	10
APR , 1981											
14...	.16	7.3	.56	.050	.06	.33	.38	.010	100	20	20

373304082072901 - 043.5 TUG FORK @ VULCAN, WV (LAT 37 33 04 LONG 082 07 29)

AUG , 1980											
07...	.46	370	.10	.000	.00	.16	.16	.010	400	20	10
APR , 1981											
15...	.24	520	.44	.040	.05	.30	.34	.010	200	10	20

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
373049082091001 - 044.0 LEFT FORK PETER CREEK AT PHELPS, KY (LAT 37 30 49 LONG 082 09 10)												
OCT , 1978												
12...	1520	1.7	560	8.8	20.0	10.2	--	--	--	--	--	--
AUG , 1980												
06...	1945	2.4	550	8.3	30.0	--	.16	K6300	2000	250	160	60
APR , 1981												
15...	0830	24	303	7.8	9.5	11.4	.76	6200	2200	120	83	28
373049082091101 - 045.0 RIGHT FORK PETER CREEK AT PHELPS, KY (LAT 37 30 49 LONG 082 09 11)												
OCT , 1978												
12...	1521	1.4	480	9.5	19.0	11.2	--	--	--	--	--	--
AUG , 1980												
06...	1850	1.7	464	8.7	30.5	--	.16	K21000	K26000	130	20	29
APR , 1981												
15...	0720	25	322	7.9	9.0	11.6	.73	K64000	K6400	110	59	26
373359082084301 - 046.0 PETER CREEK AT FREEBURN, KY (LAT 37 33 59 LONG 082 08 43)												
OCT , 1978												
12...	1450	4.1	700	9.3	21.0	--	--	--	--	--	--	--
SEP , 1979												
12...	1230	9.5	740	8.3	24.0	--	--	--	--	320	220	73
AUG , 1980												
06...	1720	6.4	770	8.3	32.0	--	.13	5500	1600	350	260	76
APR , 1981												
15...	1010	47	393	8.1	11.0	11.6	.87	2900	720	170	110	37
373617082094901 - 047.0 BLACKBERRY CREEK AT MCCARR, KY (LAT 37 36 17 LONG 082 09 49)												
OCT , 1978												
12...	1400	1.9	700	8.0	19.0	11.6	--	--	--	--	--	--
AUG , 1980												
06...	1545	3.0	720	8.1	32.0	--	.07	K15000	2000	340	270	75
APR , 1981												
15...	1500	24	275	8.3	18.5	9.9	.49	1800	250	110	75	24
373715082093701 - 048.0 MATE CREEK AT MATEWAN, WV (LAT 37 37 15 LONG 082 09 37)												
OCT , 1978												
12...	1330	3.7	900	8.2	17.5	11.2	--	--	--	--	--	--
AUG , 1980												
06...	1435	7.4	1020	8.2	27.0	--	.02	K26000	3500	410	300	85
APR , 1981												
15...	1330	24	645	8.0	17.5	9.5	1.3	6200	1300	240	170	51
373809082152001 - 049.0 BLACKBERRY FORK AT TOLER, KY (LAT 37 38 09 LONG 082 15 20)												
OCT , 1978												
11...	1700	.92	540	8.8	17.0	11.4	--	--	--	--	--	--
373945082162401 - 050.0 POND CREEK AT GOODY, KY (LAT 37 39 45 LONG 082 16 24)												
OCT , 1978												
11...	1740	3.9	600	7.7	15.0	11.0	--	--	--	--	--	--
SEP , 1979												
12...	1435	8.3	600	7.3	25.0	--	--	--	--	160	33	42
AUG , 1980												
08...	1750	5.0	650	7.6	27.0	--	.16	K43000	920	170	7	42
APR , 1981												
15...	1700	50	288	8.6	19.5	9.9	1.3	15000	670	93	40	22

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
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373049082091001 - 044.0 LEFT FORK PETER CREEK AT PHELPS, KY (LAT 37 30 49 LONG 082 09 10)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	24	16	12	.4	4.8	91	170	12	.2	3.4	376	345
APR , 1981												
15...	13	8.2	12	.3	2.4	41	88	4.9	<.1	8.2	206	177

373049082091101 - 045.0 RIGHT FORK PETER CREEK AT PHELPS, KY (LAT 37 30 49 LONG 082 09 11)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	14	45	42	1.7	4.8	100	100	19	.2	4.5	283	283
APR , 1981												
15...	12	16	23	.7	3.3	56	80	5.1	<.1	7.6	191	183

373359082084301 - 046.0 PETER CREEK AT FREEBURN, KY (LAT 37 33 59 LONG 082 08 43)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979												
12...	33	26	15	.6	4.9	98	220	15	.1	5.0	500	436
AUG , 1980												
06...	40	28	14	.6	5.7	95	290	18	.2	2.0	537	517
APR , 1981												
15...	18	12	13	.4	2.8	54	130	4.6	<.1	7.2	260	244

373617082094901 - 047.0 BLACKBERRY CREEK AT MCCARR, KY (LAT 37 36 17 LONG 082 09 49)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	37	22	12	.5	5.4	68	310	6.4	.3	8.0	521	507
APR , 1981												
15...	11	8.7	15	.4	2.4	28	97	2.4	.1	7.6	173	172

373715082093701 - 048.0 MATE CREEK AT MATEWAN, WV (LAT 37 37 15 LONG 082 09 37)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	47	69	27	1.5	7.5	110	440	6.3	.2	7.0	778	729
APR , 1981												
15...	28	40	26	1.1	5.2	76	230	4.1	.2	9.9	447	415

373809082152001 - 049.0 BLACKBERRY FORK AT TOLER, KY (LAT 37 38 09 LONG 082 15 20)

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--

373945082162401 - 050.0 POND CREEK AT GOODY, KY (LAT 37 39 45 LONG 082 16 24)

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979												
12...	14	53	41	1.8	5.5	130	120	17	.2	5.9	363	336
AUG , 1980												
08...	15	71	47	2.4	6.4	160	140	20	.3	5.4	407	397
APR , 1981												
15...	9.2	20	31	.9	2.9	58	64	6.3	.1	8.4	174	165

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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373049082091001 - 044.0 LEFT FORK PETER CREEK AT PHELPS, KY (LAT 37 30 49 LONG 082 09 10)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.51	2.4	.00	.000	.00	.16	.16	.050	100	30	50
APR , 1981											
15...	.28	13.3	.37	.050	.06	.34	.39	.020	0	10	90

373049082091101 - 045.0 RIGHT FORK PETER CREEK AT PHELPS, KY (LAT 37 30 49 LONG 082 09 11)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.38	1.3	.04	.120	.15	.00	.12	.470	100	40	30
APR , 1981											
15...	.26	12.9	.48	.070	.09	.18	.25	.020	0	10	40

373359082084301 - 046.0 PETER CREEK AT FREEBURN, KY (LAT 37 33 59 LONG 082 08 43)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979											
12...	.68	12.8	--	--	--	--	--	--	<100	20	80
AUG , 1980											
06...	.73	9.2	.00	.000	.00	.13	.13	.020	300	30	30
APR , 1981											
15...	.35	33.0	.45	.050	.06	.37	.42	.010	0	<10	110

373617082094901 - 047.0 BLACKBERRY CREEK AT MCCARR, KY (LAT 37 36 17 LONG 082 09 49)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.71	4.2	.01	.000	.00	.06	.06	.020	400	20	490
APR , 1981											
15...	.24	11.2	.17	.080	.10	.24	.32	.010	300	70	210

373715082093701 - 048.0 MATE CREEK AT MATEWAN, WV (LAT 37 37 15 LONG 082 09 37)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	1.0	15.5	.01	.000	.00	.01	.01	.020	300	10	110
APR , 1981											
15...	.61	29.0	.51	.130	.17	.68	.81	.060	200	10	270

373809082152001 - 049.0 BLACKBERRY FORK AT TOLER, KY (LAT 37 38 09 LONG 082 15 20)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--

373945082162401 - 050.0 POND CREEK AT GOODY, KY (LAT 37 39 45 LONG 082 16 24)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979											
12...	.49	8.1	--	--	--	--	--	--	70	70	520
AUG , 1980											
08...	.55	5.4	.06	.070	.09	.03	.10	.000	200	40	370
APR , 1981											
15...	.24	23.5	.30	.070	.09	.90	.97	.050	300	70	130

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
373949082224001 - 052.0 BIG CREEK NEAR VARNEY, KY (LAT 37 39 49 LONG 082 22 40)												
OCT , 1978												
11...	1600	.74	580	8.0	16.0	9.8	--	--	--	--	--	--
AUG , 1980												
08...	1425	2.3	421	7.6	28.0	--	.12	K11000	1000	100	0	29
APR , 1981												
16...	0630	21	218	7.3	8.5	10.6	.78	K15000	K16000	64	20	16
373950082224501 - 053.0 ELKINS FORK NR VARNEY, KY (LAT 37 39 50 LONG 082 22 45)												
OCT , 1978												
11...	1610	.21	270	8.2	15.0	10.8	--	--	--	--	--	--
AUG , 1980												
08...	1520	.40	270	7.9	29.5	--	.39	K62000	5000	110	12	29
APR , 1981												
16...	0745	13	107	7.0	6.5	11.7	.29	2200	1000	42	24	9.8
374428082200601 - 054.0 BIG CREEK NEAR HATFIELD, KY (LAT 37 44 28 LONG 082 20 06)												
OCT , 1978												
11...	1515	3.6	830	4.7	14.5	10.4	--	--	--	--	--	--
SEP , 1979												
12...	1640	8.3	780	6.9	26.5	--	--	--	--	280	270	72
AUG , 1980												
08...	1105	7.7	670	6.5	25.0	--	.51	K6100	800	240	240	63
APR , 1981												
16...	1015	58	307	7.3	11.5	10.1	.68	2000	K180	100	80	25
374530082190201 - 054.5 MILLER CREEK NR NOLAN, WV (LAT 37 45 30 LONG 082 19 02)												
OCT , 1978												
11...	1420	.39	400	7.9	12.5	11.2	--	--	--	--	--	--
AUG , 1980												
08...	0935	1.3	272	7.3	22.0	--	.23	K13000	3400	130	72	25
APR , 1981												
16...	1200	11	165	7.6	13.0	10.3	1.1	K0	K20	70	45	13
374231082110301 - 055.0 PIGEON CREEK AT DELBARTON, WV (LAT 37 42 31 LONG 082 11 03)												
OCT , 1978												
11...	1850	.84	650	8.1	15.5	10.6	--	--	--	--	--	--
AUG , 1980												
05...	2035	5.9	414	7.3	23.5	--	.51	K63000	K44000	140	100	33
APR , 1981												
13...	1830	40	212	7.2	20.0	8.0	.89	1200	1100	69	45	15
374235082104801 - 056.0 ROCKHOUSE FORK AT DELBARTON, WV (LAT 37 42 35 LONG 082 10 48)												
OCT , 1978												
11...	1910	3.9	750	--	17.0	9.6	--	--	--	--	--	--
AUG , 1980												
05...	1935	5.3	820	6.7	24.0	--	.65	K12000	9100	220	200	55
APR , 1981												
13...	1720	26	290	7.3	21.5	8.2	.87	11000	2300	81	53	19

OCT , 1978	--	--	--	--	--	--	--	--	--	--	--	--
11...												
AUG , 1980												
08...	7.1	48	50	2.1	3.9	120	52	26	.2	4.1	258	243
APR , 1981												
16...	5.9	21	41	1.1	2.0	47	41	7.3	<.1	6.3	123	126

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
08...	8.1	11	18	.5	3.3	94	22	10	.2	4.3	146	145
APR , 1981												
16...	4.3	3.1	13	.2	1.5	23	22	2.5	<.1	8.2	78	62

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979												
12...	25	42	24	1.1	4.3	12	330	15	.1	11	561	510
AUG , 1980												
08...	21	35	23	1.0	4.5	8	290	17	.2	9.7	463	449
APR , 1981												
16...	9.8	19	28	.8	2.0	29	97	6.4	.1	8.9	176	183

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
08...	16	5.4	8	.2	3.4	58	72	3.4	.1	7.8	178	168
APR , 1981												
16...	9.1	4.1	11	.2	2.0	27	42	3.1	<.1	8.8	106	97

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
05...	14	26	28	1.0	3.8	40	140	8.7	.2	4.6	263	255
APR , 1981												
13...	7.7	14	30	.7	2.6	28	55	4.7	<.1	8.2	125	122

OCT , 1978													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980													
05...	19	81	44	2.4	6.5	15	360	10	.2	10	568	555	
APR , 1981													
13...	8.1	24	38	1.2	3.2	32	85	3.2	<.1	9.5	172	169	

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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373949082224001 - 052.0 BIG CREEK NEAR VARNEY, KY (LAT 37 39 49 LONG 082 22 40)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.35	1.6	.03	.010	.01	.08	.09	.030	200	90	140
APR , 1981											
16...	.17	6.9	.25	.030	.04	.50	.53	.010	100	160	170

373950082224501 - 053.0 ELKINS FORK NR VARNEY, KY (LAT 37 39 50 LONG 082 22 45)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.20	.16	.05	.040	.05	.30	.34	.000	200	40	250
APR , 1981											
16...	.11	2.7	.18	.020	.03	.09	.11	.010	0	100	110

374428082200601 - 054.0 BIG CREEK NEAR MATFIELD, KY (LAT 37 44 28 LONG 082 20 06)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
SEP , 1979											
12...	.76	12.6	--	--	--	--	--	--	40	830	2400
AUG , 1980											
08...	.63	9.6	.27	.140	.18	.10	.24	.020	200	730	1600
APR , 1981											
16...	.24	27.6	.23	.090	.12	.36	.45	<.010	200	350	440

374530082190201 - 054.5 MILLER CREEK NR NOLAN, WV (LAT 37 45 30 LONG 082 19 02)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.24	.62	.17	.000	.00	.06	.06	.010	200	50	120
APR , 1981											
16...	.14	3.1	.41	.100	.13	.60	.70	<.010	100	100	60

374231082110301 - 055.0 PIGEON CREEK AT DELBARTON, WV (LAT 37 42 31 LONG 082 11 03)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.36	4.1	.34	.000	.00	.17	.17	.010	300	40	70
APR , 1981											
13...	.17	13.5	.37	.070	.09	.45	.52	.010	200	40	60

374235082104801 - 056.0 ROCKHOUSE FORK AT DELBARTON, WV (LAT 37 42 35 LONG 082 10 48)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.77	8.1	.23	.300	.39	.12	.42	.000	200	1900	1600
APR , 1981											
13...	.23	12.1	.37	.100	.13	.40	.50	<.010	100	130	130

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
374403082112501 - 057.0 ELK CREEK AT BIAS, WV (LAT 37 44 03 LONG 082 11 25)												
OCT , 1978												
12...	0930	3.5	650	8.4	13.0	10.8	--	--	--	--	--	--
AUG , 1980												
05...	1815	13	700	7.9	22.0	--	.76	K69000	K56000	99	0	26
APR , 1981												
13...	1600	31	275	8.3	20.0	9.3	1.2	4800	2900	51	0	12
374625082141201 - 058.0 TRACE FORK AT BELO, WV (LAT 37 46 25 LONG 082 14 12)												
OCT , 1978												
12...	1000	.51	460	7.8	14.0	10.0	--	--	--	--	--	--
AUG , 1980												
05...	1605	3.4	460	8.1	27.0	--	.21	3000	7900	120	0	33
APR , 1981												
13...	1415	43	170	7.9	20.0	8.7	.88	K1600	200	55	12	13
374754082171001 - 059.0 LAUREL FORK AT LENORE, WV (LAT 37 47 54 LONG 082 17 10)												
OCT , 1978												
12...	1030	1.0	175	7.7	14.0	9.6	--	--	--	--	--	--
AUG , 1980												
08...	1010	6.7	95	7.4	23.0	--	.78	K10000	K10000	33	11	8.4
APR , 1981												
13...	1100	76	60	7.2	17.5	8.9	.43	1300	430	22	16	4.5
374725082205501 - 060.0 PIGEON CREEK AT NAUGATUCK, WV (LAT 37 47 25 LONG 082 20 55)												
OCT , 1978												
11...	1330	11	600	8.3	14.0	11.8	--	--	--	--	--	--
AUG , 1980												
08...	0910	53	280	7.7	23.5	--	1.4	K19000	K22000	75	10	20
APR , 1981												
16...	1340	165	190	7.7	13.0	10.2	.81	1500	K110	56	17	13
374701082265401 - 062.0 WOLF CREEK NEAR PILGRIM, KY (LAT 37 47 01 LONG 082 26 54)												
OCT , 1978												
11...	1130	1.6	875	7.6	12.5	9.8	--	--	--	--	--	--
AUG , 1980												
07...	1600	10	576	7.8	25.5	--	3.0	K7300	K11000	230	150	50
APR , 1981												
15...	1420	38	220	7.6	17.0	9.4	1.5	1600	620	86	48	19
374659082264101 - 063.0 PIGEONROOST FORK NEAR PILGRIM, KY (LAT 37 46 59 LONG 082 26 41)												
OCT , 1978												
11...	1120	1.0	500	7.8	12.0	11.8	--	--	--	--	--	--
AUG , 1980												
07...	1645	2.4	580	7.9	25.5	--	11	K8300	7600	250	150	54
APR , 1981												
15...	1510	25	88	7.1	17.5	9.6	1.3	1200	1900	39	23	8.4
374745082251201 - 064.0 EMILY CREEK AT PILGRIM, KY (LAT 37 47 45 LONG 082 25 12)												
OCT , 1978												
11...	1100	.71	450	7.7	12.0	11.4	--	--	--	--	--	--
AUG , 1980												
07...	1445	1.3	843	7.7	26.0	--	.52	K19000	K27000	150	110	36
APR , 1981												
15...	1315	19	100	7.5	16.0	9.4	.40	320	K150	38	21	7.8

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS S04)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
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374403082112501 - 057.0 ELK CREEK AT BIAS, WV (LAT 37 44 03 LONG 082 11 25)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
05...	8.3	120	71	5.2	5.5	240	110	8.3	.3	8.2	425	433
APR , 1981												
13...	5.1	41	62	2.5	2.7	86	40	3.4	.1	8.2	163	163

374625082141201 - 058.0 TRACE FORK AT BELO, WV (LAT 37 46 25 LONG 082 14 12)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
05...	10	48	45	1.9	3.8	130	72	16	.2	1.9	270	270
APR , 1981												
13...	5.4	11	30	.6	1.8	39	34	4.4	<.1	7.6	101	103

374754082171001 - 059.0 LAUREL FORK AT LENORE, WV (LAT 37 47 54 LONG 082 17 10)

OCT , 1978												
12...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
08...	3.0	.2	1	.0	2.1	22	9.8	3.5	.1	5.3	76	47
APR , 1981												
13...	2.5	2.0	15	.2	1.8	10	14	1.6	<.1	7.2	38	37

374725082205501 - 060.0 PIGEON CREEK AT NAUGATUCK, WV (LAT 37 47 25 LONG 082 20 55)

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
08...	6.0	27	43	1.4	3.3	66	53	9.6	.2	4.7	179	165
APR , 1981												
16...	5.6	16	39	.9	.1	39	40	5.2	<.1	7.2	116	111

374701082265401 - 062.0 WOLF CREEK NEAR PILGRIM, KY (LAT 37 47 01 LONG 082 26 54)

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	26	25	19	.7	5.2	88	130	38	.2	7.1	377	342
APR , 1981												
15...	9.3	8.3	17	.4	2.4	39	48	9.9	<.1	8.3	158	128

374659082264101 - 063.0 PIGEONROOST FORK NEAR PILGRIM, KY (LAT 37 46 59 LONG 082 26 41)

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	29	9.5	7	.3	5.1	110	120	7.7	.2	6.6	364	341
APR , 1981												
15...	4.4	3.0	14	.2	1.6	17	22	2.1	<.1	9.3	71	61

374745082251201 - 064.0 EMILY CREEK AT PILGRIM, KY (LAT 37 47 45 LONG 082 25 12)

OCT , 1978												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	15	100	58	3.5	4.0	46	55	200	.2	5.1	480	444
APR , 1981												
15...	4.6	2.7	13	.2	1.6	17	26	2.0	<.1	8.8	75	64

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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374403082112501 - 057.0 ELK CREEK AT BIAS, WV (LAT 37 44 03 LONG 082 11 25)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.58	14.9	.50	.040	.05	.22	.26	.010	200	50	20
APR , 1981											
13...	.22	13.6	.37	.120	.15	.74	.86	.020	0	100	40

374625082141201 - 058.0 TRACE FORK AT BELO, WV (LAT 37 46 25 LONG 082 14 12)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.37	2.4	.07	.000	.00	.14	.14	.020	400	90	50
APR , 1981											
13...	.14	11.7	.40	.050	.06	.43	.48	.050	100	60	30

374754082171001 - 059.0 LAUREL FORK AT LENORE, WV (LAT 37 47 54 LONG 082 17 10)

OCT , 1978											
12...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.10	1.3	.31	.130	.17	.34	.47	.000	200	80	20
APR , 1981											
13...	.05	7.8	.19	.050	.06	.19	.24	<.010	100	50	20

374725082205501 - 060.0 PIGEON CREEK AT NAUGATUCK, WV (LAT 37 47 25 LONG 082 20 55)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
08...	.24	25.6	.45	.190	.24	.73	.92	.010	200	130	20
APR , 1981											
16...	.16	51.7	.33	.040	.05	.44	.48	.010	100	90	50

374701082265401 - 062.0 WOLF CREEK NEAR PILGRIM, KY (LAT 37 47 01 LONG 082 26 54)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.51	10.2	2.7	.090	.12	.24	.33	.000	0	40	110
APR , 1981											
15...	.21	16.2	.69	.120	.15	.69	.81	.060	0	70	160

374659082264101 - 063.0 PIGEONROOST FORK NEAR PILGRIM, KY (LAT 37 46 59 LONG 082 26 41)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.50	2.3	11	.350	.45	.00	.34	.000	200	20	280
APR , 1981											
15...	.10	4.7	.45	.080	.10	.78	.86	.020	0	110	150

374745082251201 - 064.0 EMILY CREEK AT PILGRIM, KY (LAT 37 47 45 LONG 082 25 12)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.65	1.6	.08	.070	.09	.37	.44	.000	200	40	420
APR , 1981											
15...	.10	3.8	.15	.030	.04	.22	.25	.030	0	90	70

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
374932082240501 - 065.0 WOLF CREEK AT LOVELY, KY (LAT 37 49 32 LONG 082 24 05)												
OCT , 1978												
11...	1010	4.1	850	7.6	12.0	10.4	--	--	--	--	--	--
AUG , 1980												
07...	1335	22	560	7.6	27.0	--	3.7	5700	7000	200	130	46
APR , 1981												
15...	1210	95	210	7.5	14.5	9.8	.86	830	330	70	43	16
375119082245101 - 066.0 MARROWBONE CREEK AT GREYEAGLE, WV (LAT 37 51 19 LONG 082 24 51)												
OCT , 1978												
10...	1730	.75	245	7.7	12.0	10.1	--	--	--	--	--	--
AUG , 1980												
06...	1500	4.0	148	7.3	26.5	--	.98	K14000	K15000	35	8	8.6
APR , 1981												
14...	1245	43	66	6.8	17.0	8.3	.45	1200	370	19	3	3.7
375340082260001 - 067.0 JENNIE CREEK AT CRUM, WV (LAT 37 53 40 LONG 082 26 00)												
OCT , 1978												
10...	1715	.36	280	7.9	14.5	11.2	--	--	--	--	--	--
AUG , 1980												
06...	1345	1.8	558	7.5	26.5	--	1.5	K17000	K14000	73	17	19
APR , 1981												
14...	1145	29	108	7.0	17.0	8.6	.70	3400	540	28	10	5.8
375535082285201 - 067.5 TUG FORK AT TRIPP, WV (LAT 37 55 35 LONG 082 28 52)												
OCT , 1978												
10...	1800	--	700	8.4	15.0	11.4	--	--	--	--	--	--
375147082323301 - 068.0 MIDDLE FORK AT INEZ, KY (LAT 37 51 47 LONG 082 32 33)												
OCT , 1978												
10...	1615	3.4	480	8.2	15.0	--	--	--	--	--	--	--
AUG , 1980												
07...	1145	7.0	500	8.0	26.0	--	1.1	3000	2900	220	150	51
APR , 1981												
15...	1010	35	245	7.4	12.5	8.8	.83	K35000	330	110	72	24
375155082322501 - 069.0 COLDWATER FORK AT INEZ, KY (LAT 37 51 55 LONG 082 32 25)												
OCT , 1978												
10...	1550	1.6	300	8.7	19.0	--	--	--	--	--	--	--
AUG , 1980												
07...	1045	6.2	294	7.5	27.0	--	1.7	K62000	K19000	130	64	32
APR , 1981												
15...	1050	34	125	7.3	11.5	10.2	.65	3600	900	46	21	11
375447082332701 - 070.0 ROCKHOUSE FORK AT ADD, KY (LAT 37 54 47 LONG 082 33 27)												
OCT , 1978												
10...	1520	1.8	530	7.6	13.0	11.2	--	--	--	--	--	--
AUG , 1980												
07...	0910	1.8	780	7.1	23.5	--	.57	2300	1400	380	360	68
APR , 1981												
15...	0840	41	174	7.1	15.5	9.4	.59	K6800	K2200	70	54	13

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CACO3)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
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374932082240501 - 065.0 WOLF CREEK AT LOVELY, KY (LAT 37 49 32 LONG 082 24 05)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	21	30	24	.9	5.2	73	120	45	.2	6.0	362	330
APR , 1981												
15...	7.3	12	26	.6	2.1	30	41	15	<.1	8.3	127	118

375119082245101 - 066.0 MARROWBONE CREEK AT GREYEAGLE, WV (LAT 37 51 19 LONG 082 24 51)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	3.3	12	41	.9	2.6	30	22	8.2	.1	5.1	86	80
APR , 1981												
14...	2.4	2.3	19	.2	1.4	9	15	1.9	<.1	7.4	41	44

375340082260001 - 067.0 JENNIE CREEK AT CRUM, WV (LAT 37 53 40 LONG 082 26 00)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	6.1	79	69	4.0	4.2	56	77	80	.2	5.2	329	307
APR , 1981												
14...	3.3	7.2	34	.6	1.9	14	17	9.0	<.1	9.0	67	64

375535082285201 - 067.5 TUG FORK AT TRIPP, WV (LAT 37 55 35 LONG 082 28 52)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--

375147082323301 - 068.0 MIDDLE FORK AT INEZ, KY (LAT 37 51 47 LONG 082 32 33)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	23	4.9	4	.1	5.0	82	140	3.9	.2	4.8	313	279
APR , 1981												
15...	12	4.8	9	.2	2.5	41	66	3.8	<.1	8.3	173	144

375155082322501 - 069.0 COLDWATER FORK AT INEZ, KY (LAT 37 51 55 LONG 082 32 25)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	12	8.7	12	.3	4.2	71	62	6.4	.3	6.6	198	177
APR , 1981												
15...	4.5	3.5	14	.2	1.8	23	27	3.1	<.1	8.4	80	75

375447082332701 - 070.0 ROCKHOUSE FORK AT ADD, KY (LAT 37 54 47 LONG 082 33 27)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	51	7.2	4	.2	5.3	22	340	5.5	.2	6.5	537	499
APR , 1981												
15...	9.0	3.0	8	.2	2.2	17	54	3.4	<.1	16	105	110

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+N03 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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374932082240501 - 065.0 WOLF CREEK AT LOVELY, KY (LAT 37 49 32 LONG 082 24 05)

OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.49	21.5	2.9	.280	.36	.52	.80	.010	100	20	120
APR , 1981											
15...	.17	32.6	.49	.080	.10	.29	.37	.020	100	40	120

375119082245101 - 066.0 MARROWPHONE CREEK AT GREYEAGLE, WV (LAT 37 51 19 LONG 082 24 51)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.12	.93	.33	.210	.27	.44	.65	.010	100	120	70
APR , 1981											
14...	.06	4.7	.21	.080	.10	.16	.24	.020	100	130	50

375340082260001 - 067.0 JENNIE CREEK AT CRUM, WV (LAT 37 53 40 LONG 082 26 00)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.45	1.6	.55	.200	.26	.74	.94	.010	100	110	60
APR , 1981											
14...	.09	5.2	.34	.110	.14	.25	.36	.030	100	160	50

375535082285201 - 067.5 TUG FORK AT TRIPP, WV (LAT 37 55 35 LONG 082 28 52)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--

375147082323301 - 068.0 MIDDLE FORK AT INEZ, KY (LAT 37 51 47 LONG 082 32 33)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.43	5.9	1.0	.010	.01	.13	.14	.000	100	80	120
APR , 1981											
15...	.24	16.3	.41	.050	.06	.37	.42	.030	0	30	80

375155082322501 - 069.0 COLDWATER FORK AT INEZ, KY (LAT 37 51 55 LONG 082 32 25)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.27	3.3	1.2	.110	.14	.37	.48	.040	100	50	290
APR , 1981											
15...	.11	7.3	.24	.140	.18	.27	.41	.030	10	70	160

375447082332701 - 070.0 ROCKHOUSE FORK AT ADD, KY (LAT 37 54 47 LONG 082 33 27)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.73	2.6	.28	.070	.09	.22	.29	.000	100	20	380
APR , 1981											
15...	.14	11.6	.30	.090	.12	.20	.29	.030	0	70	150

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCUCCI KF AGAR (COLS. PER AS CAC03)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
380006082311301 - 071.0 ROCKCASTLE CREEK AT CLIFFORD, KY (LAT 38 00 06 LONG 082 31 13)												
OCT , 1978												
10...	1420	7.7	420	7.8	13.5	10.0	--	--	--	--	--	--
AUG , 1980												
07...	0745	31	410	7.6	23.5	--	2.1	2300	4800	180	120	45
APR , 1981												
15...	0715	203	146	7.4	11.5	9.4	.69	K7200	2800	61	38	13
380647082352901 - 073.0 MILL CREEK AT FORT GAY, WV (LAT 38 06 47 LONG 082 35 29)												
OCT , 1978												
10...	1320	.20	210	7.5	12.0	8.9	--	--	--	--	--	--
AUG , 1980												
06...	1745	.92	250	7.3	26.0	--	.79	K19000	4500	91	34	25
APR , 1981												
14...	1550	34	143	7.1	17.5	8.5	.56	9600	2800	51	33	13
380700082355401 - 074.0 TUG FORK AT FORT GAY, WV (LAT 38 07 00 LONG 082 35 54)												
OCT , 1978												
10...	1245	--	700	8.1	13.0	10.8	--	--	--	--	--	--
AUG , 1980												
06...	1840	630	559	7.8	27.0	--	1.0	3300	6700	170	62	41
APR , 1981												
14...	1705	E3000	224	7.5	17.0	--	.77	1800	500	71	32	17
375551082160901 - 100.5 WEST FORK TWELVEPOLE CREEK AT BREEDEN, WV (LAT 37 55 51 LONG 082 16 09)												
OCT , 1978												
09...	1615	.36	210	7.7	13.5	--	--	--	--	--	--	--
AUG , 1980												
06...	1210	7.0	134	7.4	24.5	--	1.5	K71000	K64000	49	18	13
APR , 1981												
14...	1015	50	70	7.1	16.0	9.8	.81	1800	K380	24	13	4.8
375923082230101 - 101.0 WEST FORK TWELVEPOLE CREEK AT DOANE, WV (LAT 37 59 23 LONG 082 23 01)												
OCT , 1978												
09...	1745	.92	155	7.6	12.0	12.2	--	--	--	--	--	--
AUG , 1980												
06...	0950	24	162	7.0	22.5	--	4.0	K7000	7300	52	13	13
APR , 1981												
14...	0750	117	65	6.5	16.0	9.2	.55	2100	350	21	9	4.1
375933082240801 - 102.0 MOSES FORK AT MISSOURI BRANCH, WV (LAT 37 59 33 LONG 082 24 08)												
OCT , 1978												
09...	1820	.15	150	7.6	14.0	11.9	--	--	--	--	--	--
380718082273701 - 102.5 WEST FORK TWELVEPOLE CREEK AT GENOA, WV (LAT 38 07 18 LONG 082 27 37)												
OCT , 1978												
09...	1900	2.2	165	7.5	12.0	12.2	--	--	--	--	--	--
AUG , 1980												
06...	0820	10	150	7.3	22.0	--	.55	K16000	K11000	57	11	14
APR , 1981												
13...	1715	255	68	6.5	19.0	9.4	.56	1500	170	23	15	4.6

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)
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380006082311301 - 071.0 ROCKCASTLE CREEK AT CLIFFORD, KY (LAT 38 00 06 LONG 082 31 13)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
07...	17	5.3	6	.2	4.4	72	110	4.7	.2	3.7	262	234
APR , 1981												
15...	6.9	3.7	11	.2	2.5	24	39	4.3	<.1	8.3	98	92

380647082352901 - 073.0 MILL CREEK AT FORT GAY, WV (LAT 38 06 47 LONG 082 35 29)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	6.9	8.4	16	.4	4.1	57	37	11	.2	6.7	158	135
APR , 1981												
14...	4.6	4.2	14	.3	2.2	20	34	4.6	<.1	8.7	98	82

380700082355401 - 074.0 TUG FORK AT FORT GAY, WV (LAT 38 07 00 LONG 082 35 54)

OCT , 1978												
10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	17	49	38	1.6	4.2	110	120	32	.2	2.6	353	336
APR , 1981												
14...	6.9	14	29	.7	2.2	40	50	7.2	<.1	7.8	133	129

375551082160901 - 100.5 WEST FORK TWELVEPOLE CREEK AT BREEDEN, WV (LAT 37 55 51 LONG 082 16 09)

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	4.0	5.9	20	.4	2.8	37	16	6.8	.2	4.3	85	75
APR , 1981												
14...	3.0	3.1	20	.3	1.5	11	16	2.6	<.1	8.7	55	46

375923082230101 - 101.0 WEST FORK TWELVEPOLE CREEK AT DOANE, WV (LAT 37 59 23 LONG 082 23 01)

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	4.7	9.5	27	.6	3.2	36	17	12	.1	2.9	84	101
APR , 1981												
14...	2.7	2.5	19	.2	1.8	12	15	2.5	<.1	8.1	53	44

375933082240801 - 102.0 MOSES FORK AT MISSOURI BRANCH, WV (LAT 37 59 33 LONG 082 24 08)

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--

380718082273701 - 102.5 WEST FORK TWELVEPOLE CREEK AT GENOA, WV (LAT 38 07 18 LONG 082 27 37)

OCT , 1978												
09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980												
06...	5.4	7.2	20	.4	2.9	46	13	9.0	.2	5.9	86	87
APR , 1981												
13...	2.7	1.9	14	.2	1.6	8	16	2.1	<.1	8.4	56	42

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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380006082311301 - 071.0 ROCKCASTLE CREEK AT CLIFFORD, KY (LAT 38 00 06 LONG 082 31 13)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
07...	.36	21.9	1.2	.180	.23	.70	.88	.010	100	20	10
APR , 1981											
15...	.13	53.7	.30	.100	.13	.29	.39	.030	0	60	50

380647082352901 - 073.0 MILL CREEK AT FORT GAY, WV (LAT 38 06 47 LONG 082 35 29)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.21	.39	.21	.010	.01	.57	.58	.010	0	30	530
APR , 1981											
14...	.13	9.0	.18	.070	.09	.31	.38	.020	0	100	180

380700082355401 - 074.0 TUG FORK AT FORT GAY, WV (LAT 38 07 00 LONG 082 35 54)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.48	600	.82	.020	.03	.20	.22	.000	100	20	10
APR , 1981											
14...	.18	1080	.43	.080	.10	.26	.34	.040	100	50	10

375551082160901 - 100.5 WEST FORK TWELVEPOLE CREEK AT BREEDEN, WV (LAT 37 55 51 LONG 082 16 09)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.12	1.6	.60	.240	.31	.64	.88	.080	100	170	30
APR , 1981											
14...	.07	7.4	.24	.050	.06	.52	.57	.030	0	70	40

375923082230101 - 101.0 WEST FORK TWELVEPOLE CREEK AT DOANE, WV (LAT 37 59 23 LONG 082 23 01)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.11	5.4	3.3	.130	.17	.56	.69	.010	400	290	30
APR , 1981											
14...	.07	16.7	.25	.040	.05	.26	.30	.010	0	100	30

375933082240801 - 102.0 MOSES FORK AT MISSOURI BRANCH, WV (LAT 37 59 33 LONG 082 24 08)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--

380718082273701 - 102.5 WEST FORK TWELVEPOLE CREEK AT GENOA, WV (LAT 38 07 18 LONG 082 27 37)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
06...	.12	2.3	.19	.120	.15	.24	.36	.000	100	140	170
APR , 1981											
13...	.08	38.6	.26	.030	.04	.27	.30	.010	0	70	30

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	SPE- CIFIC CON- DUCT- ANCE (UMHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)	NITRO- GEN DIS- SOLVED (MG/L AS N)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD- NESS (MG/L AS CAC03)	HARD- NESS, NONCAR- BONATE (MG/L CAC03)	CALCIUM DIS- SOLVED (MG/L AS CA)
381037082285301 - 103.0 TRACE FORK AT ECHO, WV (LAT 38 10 37 LONG 082 28 53)												
OCT , 1978	10...	1200	--	170	7.1	12.5	5.0	--	--	--	--	--
381210082272701 - 104.0 WEST FORK TWELVEPOLE CREEK NEAR WAYNE, WV (LAT 38 12 10 LONG 082 27 27)												
OCT , 1978	10...	1130	3.9	160	7.5	12.0	9.7	--	--	--	--	--
375725082151701 - 104.5 EAST FORK TWELVEPOLE CREEK NR BREEDEN, WV (LAT 37 57 25 LONG 082 15 17)												
OCT , 1978	09...	1700	.17	130	7.5	12.5	11.2	--	--	--	--	--
380308082182901 - 105.0 EAST FORK TWELVEPOLE CR NR KIAHSVILLE, WV (LAT 38 03 08 LONG 082 18 29)												
OCT , 1978	09...	1400	--	75	7.8	13.0	8.4	--	--	--	--	--
380403082180201 - 106.0 KIAH CREEK NEAR KIAHSVILLE, WV (LAT 38 04 03 LONG 082 18 02)												
OCT , 1978	09...	1330	--	100	7.6	15.0	4.5	--	--	--	--	--
381201082261601 - 108.0 EAST FORK TWELVEPOLE CREEK AT ELMWOOD, WV (LAT 38 12 01 LONG 082 26 16)												
OCT , 1978	10...	1050	8.7	118	7.6	10.0	9.7	--	--	--	--	--
AUG , 1980	05...	1530	26	122	6.9	25.0	--	.48	1400	3500	46	36
APR , 1981	13...	1450	664	76	6.8	15.5	9.1	.54	K190	K16	24	13
381725082181601 - 109.5 BEECH FORK AT WINSLOW, WV (LAT 38 17 25 LONG 082 18 16)												
OCT , 1978	09...	0940	.23	195	7.6	9.5	8.2	--	--	--	--	--
AUG , 1980	05...	0940	2.9	198	7.5	23.0	--	.27	670	2000	81	13
APR , 1981	13...	0800	102	127	7.3	14.0	10.4	.55	5500	1100	54	29
381912082263701 - 110.0 BEECH FORK AT LAVALETTE, WV (LAT 38 19 12 LONG 082 26 37)												
OCT , 1978	10...	0945	3.9	160	7.4	11.0	7.8	--	--	--	--	--
382120082303101 - 110.5 TWELVEPOLE CREEK @ BUFFALO CREEK, WV (LAT 38 21 20 LONG 082 30 31)												
AUG , 1980	05...	1300	45	168	7.0	25.5	--	.19	1900	720	66	23
APR , 1981	13...	1200	1200	91	6.7	16.5	9.7	.55	1900	210	30	15

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	ALKA- LINITY FIELD (MG/L AS CAC03)	SULFATE DIS- SOLVED (MG/L AS SO4)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SI02)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)
381037082285301 - 103.0 TRACE FORK AT ECHO, WV (LAT 38 10 37 LONG 082 28 53)												
OCT , 1978 10...	--	--	--	--	--	--	--	--	--	--	--	--
381210082272701 - 104.0 WEST FORK TWELVEPOLE CREEK NEAR WAYNE, WV (LAT 38 12 10 LONG 082 27 27)												
OCT , 1978 10...	--	--	--	--	--	--	--	--	--	--	--	--
375725082151701 - 104.5 EAST FORK TWELVEPOLE CREEK NR BREEDEN, WV (LAT 37 57 25 LONG 082 15 17)												
OCT , 1978 09...	--	--	--	--	--	--	--	--	--	--	--	--
380308082182901 - 105.0 EAST FORK TWELVEPOLE CR NR KIAHSVILLE, WV (LAT 38 03 08 LONG 082 18 29)												
OCT , 1978 09...	--	--	--	--	--	--	--	--	--	--	--	--
380403082180201 - 106.0 KIAH CREEK NEAR KIAHSVILLE, WV (LAT 38 04 03 LONG 082 18 02)												
OCT , 1978 09...	--	--	--	--	--	--	--	--	--	--	--	--
381201082261601 - 108.0 EAST FORK TWELVEPOLE CREEK AT ELMWOOD, WV (LAT 38 12 01 LONG 082 26 16)												
OCT , 1978 10...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980 05...	4.6	4.0	15	.3	2.0	14	35	4.4	.1	5.6	80	74
APR , 1981 13...	2.9	1.7	12	.2	1.4	6	20	1.8	<.1	6.8	46	46
381725082181601 - 109.5 BEECH FORK AT WINSLOW, WV (LAT 38 17 25 LONG 082 18 16)												
OCT , 1978 09...	--	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980 05...	5.8	6.5	14	.3	2.8	68	20	5.2	.2	6.1	111	112
APR , 1981 13...	4.1	4.8	15	.3	3.3	25	28	3.8	<.1	7.8	101	82
381912082263701 - 110.0 BEECH FORK AT LAVALETTE, WV (LAT 38 19 12 LONG 082 26 37)												
OCT , 1978 10...	--	--	--	--	--	--	--	--	--	--	--	--
382120082303101 - 110.5 TWELVEPOLE CREEK @ BUFFALO CREEK, WV (LAT 38 21 20 LONG 082 30 31)												
AUG , 1980 05...	5.7	7.8	20	.4	2.6	43	26	9.0	.2	4.9	104	100
APR , 1981 13...	3.0	2.3	13	.2	1.6	11	22	2.4	<.1	7.0	55	55

DATE	SOLIDS, DIS- SOLVED (TONS PER AC-FT)	SOLIDS, DIS- SOLVED (TONS PER DAY)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS NH4)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS- SOLVED (MG/L AS N)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)	ALUM- INUM, DIS- SOLVED (UG/L AS AL)	IRON, DIS- SOLVED (UG/L AS FE)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)
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381037082285301 - 103.0 TRACE FORK AT ECHO, WV (LAT 38 10 37 LONG 082 28 53)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--

381210082272701 - 104.0 WEST FORK TWELVEPOLE CREEK NEAR WAYNE, WV (LAT 38 12 10 LONG 082 27 27)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--

375725082151701 - 104.5 EAST FORK TWELVEPOLE CREEK NR BREEDEN, WV (LAT 37 57 25 LONG 082 15 17)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--

380308082182901 - 105.0 EAST FORK TWELVEPOLE CR NR KIAHSVILLE, WV (LAT 38 03 08 LONG 082 18 29)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--

380403082180201 - 106.0 KIAH CREEK NEAR KIAHSVILLE, WV (LAT 38 04 03 LONG 082 18 02)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--

381201082261601 - 108.0 EAST FORK TWELVEPOLE CREEK AT ELMWOOD, WV (LAT 38 12 01 LONG 082 26 16)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.11	5.6	.16	.090	.12	.23	.32	.000	300	100	340
APR , 1981											
13...	.06	82.5	.24	.080	.10	.22	.30	.020	100	60	110

381725082181601 - 109.5 BEECH FORK AT WINSLOW, WV (LAT 38 17 25 LONG 082 18 16)

OCT , 1978											
09...	--	--	--	--	--	--	--	--	--	--	--
AUG , 1980											
05...	.15	.87	.07	.090	.12	.11	.20	.010	200	180	370
APR , 1981											
13...	.14	27.8	.22	.040	.05	.29	.33	.020	0	60	50

381912082263701 - 110.0 BEECH FORK AT LAVALETTE, WV (LAT 38 19 12 LONG 082 26 37)

OCT , 1978											
10...	--	--	--	--	--	--	--	--	--	--	--

382120082303101 - 110.5 TWELVEPOLE CREEK @ BUFFALO CREEK, WV (LAT 38 21 20 LONG 082 30 31)

AUG , 1980											
05...	.14	12.6	.18	.010	.01	.00	.01	.010	100	70	150
APR , 1981											
13...	.07	178	.29	.070	.09	.19	.26	.020	0	40	30

OCT , 1978											
10...	0845	--	310	7.3	14.5	7.0	--	--	--	--	--

382347082322901 - 111.0 TWELVEPOLE CREEK AT HUNTINGTON, WV (LAT 38 23 47 LONG 082 32 29)

[illegible]

382347082322901 - 111.0 TWELVEPOLE CREEK AT HUNTINGTON, WV (LAT 38 23 47 LONG 082 32 29)

[illegible]

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
<i>Length</i>		
inches (in)	2.54×10^1	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^0	kilometers (km)
<i>Area</i>		
acres	4.047×10^3	square meters (m ²)
	4.047×10^{-1}	square hectometers (hm ²)
	4.047×10^{-3}	square kilometers (km ²)
square miles (mi ²)	2.590×10^0	square kilometers (km ²)
<i>Volume</i>		
gallons (gal)	3.785×10^0	liters (L)
	3.785×10^0	cubic decimeters (dm ³)
	3.785×10^{-3}	cubic meters (m ³)
million gallons	3.785×10^3	cubic meters (m ³)
	3.785×10^{-3}	cubic hectometers (hm ³)
cubic feet (ft ³)	2.832×10^1	cubic decimeters (dm ³)
	2.832×10^{-2}	cubic meters (m ³)
cfs-days	2.447×10^3	cubic meters (m ³)
	2.447×10^{-3}	cubic hectometers (hm ³)
acre-feet (acre-ft)	1.233×10^3	cubic meters (m ³)
	1.233×10^{-3}	cubic hectometers (hm ³)
	1.233×10^{-6}	cubic kilometers (km ³)
<i>Flow</i>		
cubic feet per second (ft ³ /s)	2.832×10^1	liters per second (L/s)
	2.832×10^1	cubic decimeters per second (dm ³ /s)
	2.832×10^{-2}	cubic meters per second (m ³ /s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm ³ /s)
	6.309×10^{-5}	cubic meters per second (m ³ /s)
million gallons per day	4.381×10^1	cubic decimeters per second (dm ³ /s)
	4.381×10^{-2}	cubic meters per second (m ³ /s)
<i>Mass</i>		
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons

U.S. DEPARTMENT OF THE INTERIOR
Geological Survey, Room 3416
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