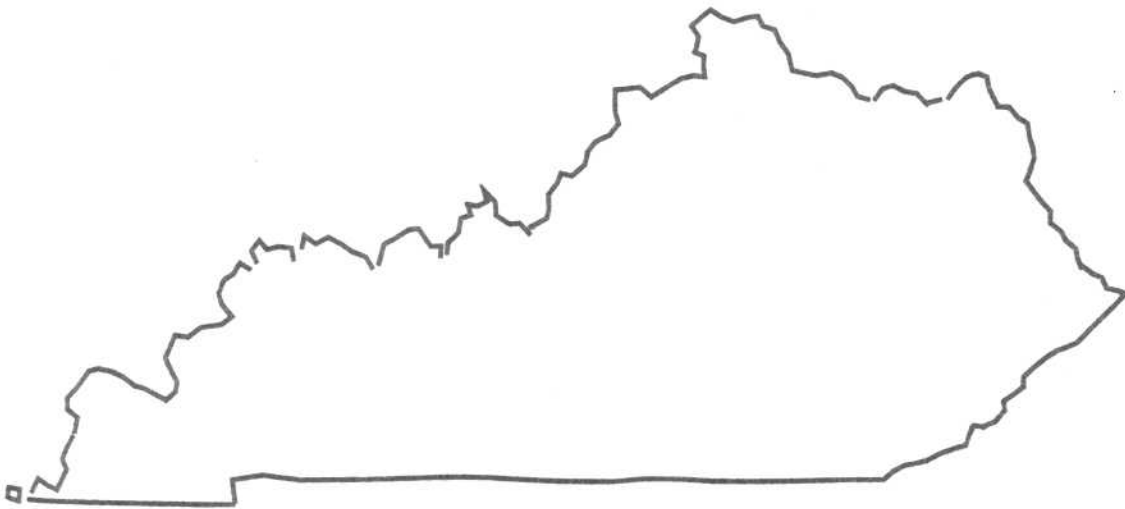


# Water Resources Data Kentucky Water Year 1998

Water-Data Report KY-98-1



U.S. Department of the Interior  
U.S. Geological Survey



Prepared in cooperation with the  
Commonwealth of Kentucky  
and with other agencies

## BEARGRASS CREEK BASIN

03293000 MIDDLE FORK BEARGRASS CREEK AT LOUISVILLE, KY--Continued

## WATER-QUALITY RECORDS

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1988 to September 1992, July 1996 to October 1996.

pH: April 1988 to September 1992, July 1996 to October 1996.

WATER TEMPERATURE: April 1988 to September 1992, July 1996 to October 1996.

DISSOLVED OXYGEN: April 1988 to September 1992, July 1996 to October 1996.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1260 microsiemens, Feb. 9, 1988; minimum, 74 microsiemens, July 19, 1989.

pH: Maximum, 9.7 units, Apr. 19, 1989; minimum, 5.6 units, July 19, 1989.

WATER TEMPERATURE: Maximum, 35.4°C, August 16, 1988; minimum, 1.8°C, Dec. 10-13, 1988.

DISSOLVED OXYGEN: Maximum, 25.1 mg/L, Apr. 28, 1992; minimum, 0.4 mg/L, Oct. 26, 1991.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
01...	1050	41	569	7.6	11.0	10.2
JAN						
05...	1140	5.8	646	8.2	11.0	12.1
FEB						
09...	1150	25	1260	8.2	7.5	13.5
MAR						
02...	1200	8.5	632	8.2	8.5	14.5
APR						
06...	1155	10	594	8.1	15.5	14.6
MAY						
04...	1025	36	543	7.9	13.5	9.5
JUN						
08...	1020	6.6	577	8.1	17.0	10.4
JUL						
06...	1015	10	533	8.0	21.5	8.8
AUG						
03...	1035	12	597	8.0	21.0	9.1





## BEARGRASS CREEK BASIN

03293200 MIDDLE FORK BEARGRASS CREEK AT SCENIC LOOP AT LOUISVILLE, KY

(Formerly published as AT BEALS BRANCH ROAD)

## WATER-QUALITY RECORDS

LOCATION.--Lat 38°14'32", long 85°41'57", Jefferson County, Hydrologic Unit 05140101, at bridge on Scenic Loop Road and at mile 1.9.

DRAINAGE AREA.--22.7 mi<sup>2</sup>.

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: July 1996 to September 1996.

pH: July 1996 to September 1996.

WATER TEMPERATURE: July 1996 to September 1996.

DISSOLVED OXYGEN: July 1996 to September 1996.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 662 microsiemens, Sept. 14-15, 1996; minimum, 86 microsiemens, Aug. 8, 1996.

pH: Maximum, 8.1 units, Aug. 2, 1996; minimum, 7.0 units, July 9-10, 1996.

WATER TEMPERATURE: Maximum, 27.0° C, Aug. 20, 1996; minimum, 15.6° C, Sept. 15, 1996.

DISSOLVED OXYGEN: Maximum, 9.0 mg/L, Sept. 19, 1996; minimum, 1.2 mg/L, Sept. 5, 1996.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
01...	1255	43	576	7.9	11.0	10.2
JAN						
05...	1030	6.0	538	8.0	9.5	8.7
FEB						
09...	1045	33	1050	8.0	6.0	11.5
MAR						
02...	1030	8.8	648	8.0	7.0	10.4
APR						
06...	1045	12	606	7.7	10.5	8.8
MAY						
04...	1230	40	540	8.0	14.0	9.7
JUN						
08...	1250	6.7	555	7.9	17.0	8.2
JUL						
06...	1140	11	539	7.9	22.5	5.9
AUG						
03...	1220	14	597	7.9	22.0	7.3













## BEARGRASS CREEK BASIN

03293530 MUDDY FORK AT MOCKINGBIRD VALLEY ROAD AT LOUISVILLE, KY

## WATER-QUALITY RECORDS

LOCATION.--Lat 38°16'35", long 85°41'37", Jefferson County, Hydrologic Unit 05140101, at culvert on Mockingbird Valley Road and at mile 1.5.

DRAINAGE AREA.--6.2 mi<sup>2</sup>.

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
01...	0850	11	700	7.7	--	9.2
JAN						
05...	0900	1.8	754	8.0	8.5	10.5
FEB						
09...	0900	6.8	1000	8.0	4.5	12.2
MAR						
02...	0845	2.8	732	8.1	6.5	13.5
APR						
06...	0900	4.6	722	8.0	8.5	11.2
MAY						
04...	0915	10	696	7.7	13.0	8.8
JUN						
08...	0845	2.2	624	8.0	15.5	8.7
JUL						
06...	0900	3.6	686	8.1	20.0	8.0
AUG						
03...	0900	5.2	677	7.7	18.5	8.6

OHIO RIVER MAIN STEM

03294500 OHIO RIVER AT LOUISVILLE, KY

LOCATION.--Lat 38°16'49", long 85°47'57", Jefferson County, Hydrologic Unit 05140101, on left bank at downstream end of lock guide wall in lower pool at McAlpine Locks, at Louisville, 5.3 mi downstream from Beargrass Creek, and at mile 607.3.

DRAINAGE AREA.--91,170 mi<sup>2</sup>, approximately.

PERIOD OF RECORD.--January 1928 to current year. Prior to October 1935 monthly discharge only, published in WSP 1305. Gage-height records collected in this vicinity since 1871 are published in reports of National Weather Service.

REVISED RECORDS.--WSP 893: 1939.

GAGE.--Water-stage recorder. Datum of gage is 373.18 ft above sea level or 374.00 ft Ohio River datum. Prior to Oct. 1, 1939, and Oct. 1, 1943 to Sept. 30, 1946, various combinations of gages near Louisville were used. Oct. 1, 1939 to Sept. 30, 1943, water-stage recorders at Louisville and Kosmosdale, downstream from McAlpine Dam (4 mi and 20.1 mi, respectively), were used to determine discharge. Oct. 1, 1946 to Sept. 30, 1961, nonrecording gage at site 0.3 mi upstream at same datum. Oct. 1, 1952 to Sept. 30, 1970, upper nonrecording gage at dam 43, 25.9 mi downstream used as an auxiliary gage. Since Oct. 1, 1970, auxiliary water-stage recorder at Kosmosdale, 19.8 mi downstream. Datum of auxiliary gage is 372.75 ft above sea level or 373.67 ft above Ohio River Dam.

REMARKS.--Estimated daily discharges: Nov. 8-10, 12-16, 19, 20, 23-27, Nov. 29 to Dec. 5, 15, 20, Dec. 26 to Jan. 1, 3, 17-22, Feb. 8-10, 13-19, 22-24, March 6-8, 13-17, 21, 25-29, Apr. 18-26, May 1-4, 8, 9, 11-16, June 10-19, 21, 27, July 3, and Sept. 9-14, 18, 25. Records fair except for those below 20,000 ft<sup>3</sup>/s, which are poor. Flow regulated by Ohio River system of locks, dams, and reservoirs.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45800	26800	86700	74800	165000	183000	105000	328000	74000	330000	40500	14900
2	38400	27000	95200	69000	139000	133000	95000	308000	64600	384000	14000	7890
3	21800	25700	96900	46700	119000	164000	100000	311000	68500	337000	24400	21300
4	37600	31600	96700	50600	97900	174000	95700	334000	55400	307000	30400	18300
5	27700	43000	89400	50800	118000	173000	108000	353000	60600	212000	15700	15800
6	28800	49800	77800	60500	151000	156000	116000	358000	40400	144000	19100	12700
7	26000	36700	67400	126000	212000	140000	120000	343000	61900	108000	22800	15400
8	20700	50000	60600	255000	238000	124000	120000	348000	59800	89000	22300	17600
9	21400	82800	64800	338000	219000	163000	130000	338000	50200	80500	24200	24300
10	18100	101000	61600	377000	198000	196000	169000	350000	73800	104000	20200	8380
11	13400	98300	67000	399000	208000	229000	208000	336000	129000	86800	33500	21800
12	14000	86500	76000	411000	276000	253000	227000	311000	231000	55500	12000	16400
13	18200	85300	109000	414000	322000	240000	238000	260000	254000	58000	29500	8850
14	18900	81300	116000	401000	303000	203000	231000	216000	248000	32800	33100	20800
15	24400	77400	105000	356000	252000	164000	242000	191000	273000	24800	24800	10600
16	16200	92100	88700	286000	209000	136000	247000	168000	326000	40100	22900	8320
17	21400	90600	68700	213000	179000	114000	350000	152000	336000	50700	16900	16200
18	10900	84400	59600	194000	169000	99500	327000	115000	317000	32600	43700	7350
19	16500	71100	54200	184000	221000	110000	344000	90300	293000	31700	37400	10000
20	18100	68300	47800	169000	251000	143000	375000	96000	204000	106000	34200	13700
21	18600	55200	41700	144000	302000	202000	387000	84700	186000	175000	19000	20700
22	15600	43000	51100	133000	327000	260000	395000	70500	205000	127000	33600	24800
23	18900	58400	38500	120000	297000	316000	400000	82800	249000	78800	21700	9290
24	18900	63000	34200	118000	259000	354000	398000	102000	236000	75200	24500	18000
25	18400	77100	66800	131000	265000	343000	371000	150000	158000	49000	20100	8240
26	24100	72700	74400	153000	263000	300000	307000	132000	81800	49500	42600	10700
27	16600	71900	79700	164000	247000	227000	241000	94200	65400	37600	20100	23300
28	24100	63400	82900	153000	220000	174000	244000	87200	81000	36100	20800	12300
29	30200	59300	89100	156000	---	143000	230000	98400	146000	32500	31000	7420
30	23200	78700	84000	141000	---	101000	277000	83900	234000	27600	16300	19900
31	16400	---	80400	163000	---	119000	---	85300	---	41700	32600	---
TOTAL	683300	1952400	2311900	6051400	6226900	5836500	7197700	6377300	4862400	3380400	803900	445240
MEAN	22040	65080	74580	195200	222400	188300	239900	205700	162100	109000	25930	14840
MAX	45800	101000	116000	414000	327000	354000	400000	358000	336000	384000	43700	24800
MIN	10900	25700	34200	46700	97900	99500	95000	70500	40400	27600	12000	7350

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 1998, BY WATER YEAR (WY)

MEAN	37650	69750	123500	167400	194600	245100	204900	145500	86500	56260	44020	33040
MAX	153500	245900	321300	595800	430400	524300	403300	392900	234400	163400	151300	166600
(WY)	1980	1986	1973	1937	1939	1945	1948	1996	1981	1958	1958	1979
MIN	4377	6660	14090	21630	38010	69350	66480	29350	16400	8035	4924	6005
(WY)	1931	1931	1931	1931	1934	1969	1986	1941	1988	1930	1930	1930

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1929 - 1998
ANNUAL TOTAL	42467130	46129340	
ANNUAL MEAN	116300	126400	117000
HIGHEST ANNUAL MEAN			176700
LOWEST ANNUAL MEAN			57390
HIGHEST DAILY MEAN	716000	Mar 6	414000
LOWEST DAILY MEAN	3050	Aug 8	7350
ANNUAL SEVEN-DAY MINIMUM	15000	Sep 2	11700
INSTANTANEOUS PEAK FLOW			1110000
INSTANTANEOUS PEAK STAGE		47.78	Jan 13
10 PERCENT EXCEEDS	266000		281000
50 PERCENT EXCEEDS	84400		73100
90 PERCENT EXCEEDS	18800		16900

## MILL CREEK BASIN

03294550 MILL CREEK CUTOFF NEAR LOUISVILLE, KY

## WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: May 1988 to September 1992.

pH: May 1988 to September 1992.

WATER TEMPERATURE: May 1988 to September 1992.

DISSOLVED OXYGEN: May 1988 to September 1992.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1,062 microsiemens, June 23, 1988; minimum, 76 microsiemens, Aug. 8, 1992.

pH: Maximum, 11.3 units, July 28, 29, 1989; minimum, 4.8 units, Sept. 12, 1988.

WATER TEMPERATURE: Maximum, 34.4°C, Sept. 21, 1989; minimum, 0.6°C, Dec. 28, 1990, Jan. 15, 16, 1992.

DISSOLVED OXYGEN: Maximum, 24.5 mg/L, Aug. 16, 1989; minimum, 0.3 mg/L, July 5, 23, 1991.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
11...	1240	4.5	408	7.5	5.5	10.0
JAN						
15...	0950	2.4	581	7.2	6.5	9.2
FEB						
24...	1210	2.1	605	8.1	9.0	13.4
MAR						
09...	0855	49	208	7.3	10.0	9.3
APR						
08...	1230	2.2	605	7.6	19.0	12.6
MAY						
06...	1155	2.4	552	7.7	19.0	8.4
JUN						
10...	0850	4.0	274	7.1	21.0	5.2
JUL						
08...	0920	34	178	7.3	24.0	5.8
AUG						
05...	1230	1.0	681	7.5	25.0	14.0

## MILL CREEK BASIN

03294570 MILL CREEK AT ORELL ROAD NEAR LOUISVILLE, KY

## WATER-QUALITY RECORDS

LOCATION.--Lat 38°04'41", long 85°53'24", Jefferson County, Hydrologic Unit 05140101, at bridge on Orell Road, and at mile 1.5.

DRAINAGE AREA.-- 13.5 mi<sup>2</sup>.

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
11...	1035	6.8	419	7.8	5.5	10.7
JAN						
07...	1250	149	232	7.5	12.5	9.1
FEB						
24...	1040	3.6	500	8.3	6.5	13.5
MAR						
09...	1020	84	149	7.0	11.0	8.5
APR						
08...	1130	3.5	458	7.8	16.0	11.3
JUN						
10...	1025	6.7	425	7.6	21.5	6.6
JUL						
08...	1110	165	122	7.0	24.0	4.5
AUG						
05...	1030	2.5	587	7.8	24.5	6.5

## SALT RIVER BASIN

03295400 SALT RIVER AT GLENSBORO, KY

LOCATION.--Lat 38°00'07", long 85°03'38", Anderson County, Hydrologic Unit 05140102, on left bank 5 ft downstream from bridge on Highway 53 at Glensboro, 0.9 mi upstream from Timber Creek, 2.0 mi downstream from Indian Creek, and at mile 82.5.

DRAINAGE AREA.--172 mi<sup>2</sup>.

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

GAGE.--Water-stage recorder. Datum of gage is 590 ft above sea level, from topographic map.

REMARKS.--Estimated daily discharges: Nov. 30, March 6-10, and Aug. 9, 10. Records fair except for periods of estimated record, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	17	449	97	110	121	151	2500	145	552	181	7.1
2	3.4	22	245	86	101	358	141	894	172	249	104	6.6
3	2.9	22	150	89	93	101	136	500	153	164	73	5.8
4	2.1	18	107	96	107	96	117	339	113	125	55	5.2
5	1.8	16	89	101	132	94	105	260	637	172	43	5.5
6	1.5	13	72	790	181	115	105	217	609	181	34	5.2
7	1.3	12	61	2770	154	105	101	924	325	250	33	4.2
8	1.4	13	50	3290	211	300	128	1110	202	921	28	2.9
9	2.4	15	44	1040	303	1400	303	573	233	380	26	2.1
10	2.4	15	555	595	546	1050	517	395	1040	261	27	1.9
11	2.7	13	453	398	2310	359	322	297	1400	160	28	1.9
12	3.4	12	253	328	4370	265	224	236	976	112	23	1.9
13	3.4	13	165	375	1410	221	174	196	1690	88	20	2.3
14	4.5	62	125	333	741	196	188	168	1100	83	20	2.4
15	3.6	66	98	278	482	168	170	146	1370	93	255	2.5
16	5.9	35	79	242	389	146	2160	130	801	153	233	2.5
17	4.2	45	66	220	399	133	2120	109	437	113	115	2.4
18	3.3	38	58	201	642	130	811	91	286	237	65	3.0
19	2.8	28	51	189	470	124	967	79	288	146	50	5.3
20	3.0	21	45	172	370	956	862	80	234	7070	78	5.5
21	3.4	20	40	158	306	1250	501	132	1270	2530	47	556
22	3.1	96	95	148	263	688	349	119	805	653	32	310
23	2.8	79	130	284	230	445	275	1680	2130	369	25	105
24	4.8	40	255	393	201	323	229	1940	957	255	19	61
25	10	49	566	295	176	269	189	1040	462	185	16	34
26	12	34	409	238	156	239	166	482	287	139	16	21
27	7.2	24	249	202	148	199	179	330	208	109	12	15
28	9.4	19	182	177	135	173	307	242	156	91	9.8	11
29	26	16	150	157	---	151	207	188	128	77	9.6	9.5
30	34	80	134	138	---	130	2190	153	321	125	9.2	8.7
31	21	---	115	124	---	119	---	126	---	327	8.3	---
TOTAL	191.6	953	5540	14004	15136	10424	14394	15676	18935	16370	1694.9	1207.4
MEAN	6.18	31.8	179	452	541	336	480	506	631	528	54.7	40.2
MAX	34	96	566	3290	4370	1400	2190	2500	2130	7070	255	556
MIN	1.3	12	40	86	93	94	101	79	113	77	8.3	1.9
CFSM	.04	.18	1.04	2.63	3.14	1.95	2.79	2.94	3.67	3.07	.32	.23
IN.	.04	.21	1.20	3.03	3.27	2.25	3.11	3.39	4.10	3.54	.37	.26

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 1998, BY WATER YEAR (WY)

	MEAN	64.4	172	391	485	450	634	233	372	342	171	62.8	57.0
MAX	262	359	1360	675	642	1845	480	925	926	528	137	241	
(WY)	1991	1994	1991	1994	1991	1997	1998	1995	1997	1998	1992	1996	
MIN	6.13	11.4	123	344	149	99.9	71.4	118	23.6	6.72	4.64	5.61	
(WY)	1995	1992	1990	1993	1996	1990	1997	1991	1994	1993	1997	1997	

## SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1989 - 1998	
ANNUAL TOTAL	126655.41		114525.9			
ANNUAL MEAN	347		314		286	
HIGHEST ANNUAL MEAN					403	
LOWEST ANNUAL MEAN					181	
HIGHEST DAILY MEAN	16400		7070		16400	
LOWEST DAILY MEAN	.80		1.3		.80	
ANNUAL SEVEN-DAY MINIMUM	1.2		1.8		1.2	
INSTANTANEOUS PEAK FLOW			20100		22000	
INSTANTANEOUS PEAK STAGE			12.56		12.91	
ANNUAL RUNOFF (CFSM)	2.02		1.82		1.66	
ANNUAL RUNOFF (INCHES)	27.39		24.77		22.58	
10 PERCENT EXCEEDS	671		803		622	
50 PERCENT EXCEEDS	62		135		95	
90 PERCENT EXCEEDS	2.8		5.2		6.5	

## SALT RIVER BASIN

03295702 BULLSKIN CREEK NEAR SIMPSONVILLE, KY

LOCATION.--Lat 38°13'07", long 85°18'07", Shelby County, Hydrologic Unit 05140102, at center span on the downstream side of bridge on Highway 60, 2.6 miles east of Simpsonville, 2.6 miles below Fox Run, and at mile 21.7.

DRAINAGE AREA.--54.8 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1998 to Sept. 1998.

GAGE.--Water-stage recorder. Datum of gage is 680 ft above sea level (from topographic map).

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR MAY 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	377	544	153	39	.65
2	---	---	---	---	---	---	---	173	93	75	21	.74
3	---	---	---	---	---	---	---	165	48	45	14	.61
4	---	---	---	---	---	---	---	184	35	53	11	.01
5	---	---	---	---	---	---	---	127	36	87	8.3	.00
6	---	---	---	---	---	---	---	87	34	36	6.9	.00
7	---	---	---	---	---	---	---	209	22	27	13	.00
8	---	---	---	---	---	---	---	225	17	75	12	.00
9	---	---	---	---	---	---	---	168	98	44	9.0	.00
10	---	---	---	---	---	---	---	123	733	26	8.6	.00
11	---	---	---	---	---	---	---	87	815	18	7.6	.00
12	---	---	---	---	---	---	---	63	267	13	5.7	.00
13	---	---	---	---	---	---	---	47	380	10	4.0	.00
14	---	---	---	---	---	---	---	37	166	10	3.2	.00
15	---	---	---	---	---	---	---	29	131	76	2.7	.00
16	---	---	---	---	---	---	---	24	98	144	2.5	.00
17	---	---	---	---	---	---	---	19	63	63	2.0	.00
18	---	---	---	---	---	---	---	15	42	35	1.7	.00
19	---	---	---	---	---	---	---	12	80	26	1.6	.00
20	---	---	---	---	---	---	---	14	61	162	.96	.00
21	---	---	---	---	---	---	---	16	591	122	.87	.00
22	---	---	---	---	---	---	---	14	1420	55	.68	.00
23	---	---	---	---	---	---	---	635	1740	38	.52	.00
24	---	---	---	---	---	---	---	355	336	26	.03	.00
25	---	---	---	---	---	---	---	151	153	18	.00	.00
26	---	---	---	---	---	---	---	88	91	13	.00	.00
27	---	---	---	---	---	---	---	71	56	10	.00	.00
28	---	---	---	---	---	---	---	51	37	8.3	.00	.00
29	---	---	---	---	---	---	---	38	46	6.9	.00	.00
30	---	---	---	---	---	---	---	28	567	86	.00	.00
31	---	---	---	---	---	---	---	120	---	116	.11	---
TOTAL	---	---	---	---	---	---	---	3752	8800	1677.2	176.97	2.01



## SALT RIVER BASIN

03295890 BRASHEARS CREEK AT TAYLORSVILLE, KY

LOCATION.--Lat 38°02'13", long 85°20'27", Spencer County, Hydrologic Unit 05140102, on left bank at downstream side of bridge on State Highway 155, at the north edge of Taylorsville, 1.2 mi upstream from Salt River, and at mile 1.2.

DRAINAGE AREA.--259 mi<sup>2</sup>

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

GAGE.--Water-stage recorder. Datum of gage is 466.85 ft above sea level.

REMARKS.--Estimated daily discharges: Nov. 30, Dec. 30 to Jan. 2, Jan. 6-9, Feb. 22-26, July 7, 8, 15, 20, 21, 30, Aug. 9, and 25-27. Records good except those for estimated daily discharges, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	7.2	114	98	112	188	199	2790	979	1110	461	17
2	1.4	8.3	119	90	103	163	193	1350	556	493	240	19
3	1.3	10	84	88	95	146	152	832	306	312	159	18
4	1.1	13	68	92	102	138	145	619	204	225	116	20
5	.73	14	59	98	113	131	132	530	170	376	91	19
6	.50	16	55	104	188	124	117	373	160	286	73	16
7	.42	21	50	215	224	115	102	374	135	2600	60	15
8	.38	21	45	900	211	137	102	757	99	1500	57	13
9	.25	22	42	3800	224	2120	369	618	96	588	58	11
10	.07	24	74	1210	315	1400	339	501	288	345	60	9.3
11	.00	26	174	792	1870	795	295	395	3600	222	57	7.7
12	.00	27	175	607	5430	553	222	304	1210	154	49	7.1
13	.00	31	119	505	2500	428	179	235	1150	119	43	6.3
14	.02	37	92	411	1480	356	209	186	852	104	35	5.5
15	.00	45	77	351	955	288	256	151	576	600	27	5.1
16	.00	32	68	304	736	233	2310	124	416	920	23	4.5
17	.00	24	62	256	679	206	5390	103	302	551	20	4.2
18	.00	21	57	225	867	213	1820	84	212	341	18	4.1
19	.00	19	54	199	805	237	1310	70	202	223	16	3.9
20	.00	19	51	178	662	2370	1150	67	300	1000	14	3.7
21	.00	21	49	157	549	3070	795	83	1560	1900	13	9.3
22	.00	23	58	147	470	1470	574	76	1910	460	11	138
23	.00	25	76	182	380	911	434	1220	5310	283	11	46
24	.03	33	184	256	330	624	336	2050	2340	211	12	28
25	.05	39	1100	250	285	479	262	1010	1100	155	13	19
26	.02	36	577	224	260	398	218	573	633	116	15	14
27	.25	32	308	203	235	314	229	415	414	92	17	11
28	1.5	29	211	181	217	259	226	341	286	78	22	10
29	2.7	27	162	161	---	218	180	249	211	66	22	8.8
30	5.6	59	130	144	---	186	2280	188	1330	1500	21	9.0
31	6.8	---	110	126	---	165	---	152	---	1180	19	---
TOTAL	24.82	761.5	4604	12554	20397	18435	20525	16820	26907	18110	1853	502.5
MEAN	.80	25.4	149	405	728	595	684	543	897	584	59.8	16.8
MAX	6.8	59	1100	3800	5430	3070	5390	2790	5310	2600	461	138
MIN	.00	7.2	42	88	95	115	102	67	96	66	11	3.7
CFSM	.00	.10	.57	1.56	2.81	2.30	2.64	2.09	3.46	2.26	.23	.06
IN.	.00	.11	.66	1.80	2.93	2.65	2.95	2.42	3.86	2.60	.27	.07

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 1998, BY WATER YEAR (WY)

	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	37.5	188	472	540	753	730	458	497	330	107	52.2	19.2						
MAX	240	586	1806	1036	1984	3025	841	1912	1318	584	291	136						
(WY)	1991	1986	1991	1996	1989	1997	1996	1983	1997	1998	1992	1996						
MIN	.012	3.97	116	47.0	212	80.5	48.4	47.1	1.90	4.44	.030	.001						
(WY)	1989	1988	1990	1986	1992	1983	1986	1986	1988	1994	1983	1983						

## SUMMARY STATISTICS

	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1981 - 1998
ANNUAL TOTAL	198594.22	141493.82	
ANNUAL MEAN	544	388	
HIGHEST ANNUAL MEAN			347
LOWEST ANNUAL MEAN			642
HIGHEST DAILY MEAN	39600	5430	201
LOWEST DAILY MEAN	.00	.00	39600
ANNUAL SEVEN-DAY MINIMUM	.00	.00	.00
INSTANTANEOUS PEAK FLOW		8340	44800
INSTANTANEOUS PEAK STAGE		17.04	31.54
INSTANTANEOUS LOW FLOW			.08
ANNUAL RUNOFF (CFSM)	2.10	1.50	1.34
ANNUAL RUNOFF (INCHES)	28.52	20.32	18.22
10 PERCENT EXCEEDS	1030	1100	837
50 PERCENT EXCEEDS	78	147	93
90 PERCENT EXCEEDS	1.8	5.6	1.6

SALT RIVER BASIN

03297900 FLOYDS FORK NEAR PEWEE VALLEY, KY

LOCATION.--Lat 38°17'07", long 85°28'03", Oldham County, Hydrologic Unit 05140102, on left bank at downstream side of bridge on State Highway 362, 2.0 mi south of PeWee Valley, 2.2 mi downstream from Curry's Fork, and at mile 44.3.

DRAINAGE AREA.--79.9 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1991 to current year.

REVISED RECORDS.--WRD KY-95-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 599.892 ft above sea level.

REMARKS.--Estimated daily discharges: Oct. 1-5, 10-12, Nov. 30, and Aug. 9. Records fair except for discharges below 5.0 ft<sup>3</sup>/s and periods of estimated record, which are poor. March 2, 1997 peak estimated.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	6.5	122	39	36	59	96	414	459	128	31	7.3
2	1.2	10	53	34	33	55	81	196	83	67	15	7.2
3	.80	16	35	40	30	53	71	431	51	47	12	7.1
4	.50	13	47	40	32	52	79	149	42	36	11	7.0
5	.30	11	38	40	45	54	76	101	44	50	10	7.2
6	.32	8.5	24	1100	51	51	68	78	41	30	9.8	7.3
7	1.3	7.1	17	1490	63	49	65	162	25	24	74	7.3
8	1.6	7.0	13	1630	69	68	63	147	16	108	35	7.1
9	1.8	7.4	12	323	81	1100	100	120	366	53	17	7.1
10	1.7	7.4	174	147	124	250	117	94	436	30	15	7.0
11	1.5	6.1	80	102	1490	141	97	75	584	18	18	6.9
12	1.2	6.0	51	86	1140	113	82	63	332	14	12	6.8
13	1.9	10	37	84	322	98	75	54	560	13	10	6.8
14	2.5	62	27	75	170	90	92	45	146	12	9.7	6.8
15	2.8	34	22	71	121	78	102	38	216	90	9.1	6.8
16	3.5	13	18	65	120	72	2030	31	159	121	8.7	6.8
17	3.1	8.2	16	60	136	70	639	24	89	57	8.5	6.5
18	2.8	7.0	13	57	313	86	157	17	62	34	8.4	6.6
19	2.7	6.3	12	53	168	91	488	13	155	23	8.1	7.6
20	2.6	5.9	9.9	49	127	1530	185	26	84	500	7.8	8.3
21	2.6	8.0	8.7	46	106	585	112	24	723	168	7.7	8.9
22	2.7	38	47	44	92	277	88	22	464	70	7.6	13
23	2.7	25	70	63	85	172	75	1150	1350	67	7.6	13
24	3.1	11	191	66	76	135	64	341	246	44	7.6	9.7
25	4.2	7.4	389	60	69	117	55	123	112	28	7.6	8.6
26	6.7	6.2	98	55	65	107	52	79	72	17	7.5	8.1
27	12	5.9	69	52	68	97	87	67	52	14	7.4	8.0
28	10	5.7	56	48	64	90	63	54	37	13	7.4	7.8
29	6.0	5.1	48	45	---	83	241	41	188	12	7.3	7.7
30	5.1	129	46	41	---	78	1600	30	736	33	7.3	8.1
31	4.4	---	41	38	---	74	---	106	---	64	7.3	---
TOTAL	96.42	493.7	1884.6	6143	5296	5975	7200	4315	7930	1985	412.4	234.4
MEAN	3.11	16.5	60.8	198	189	193	240	139	264	64.0	13.3	7.81
MAX	12	129	389	1630	1490	1530	2030	1150	1350	500	74	13
MIN	.30	5.1	8.7	34	30	49	52	13	16	12	7.3	6.5
CFSM	.04	.21	.76	2.48	2.37	2.41	3.00	1.74	3.31	.80	.17	.10
IN.	.04	.23	.88	2.86	2.47	2.78	3.35	2.01	3.69	.92	.19	.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 1998, BY WATER YEAR (WY)

	1991	1992	1993	1994	1995	1996	1997	1998
MEAN	12.4	50.9	122	222	149	306	153	173
MAX	26.3	118	331	320	202	958	306	398
(WY)	1994	1994	1997	1996	1993	1997	1996	1995
MIN	3.01	3.14	38.8	127	43.3	103	37.3	26.5
(WY)	1995	1992	1993	1992	1992	1995	1995	1991

SUMMARY STATISTICS

FOR 1997 CALENDAR YEAR

FOR 1998 WATER YEAR

WATER YEARS 1991 - 1998

ANNUAL TOTAL	60810.03	41965.52	
ANNUAL MEAN	167	115	121
HIGHEST ANNUAL MEAN			198
LOWEST ANNUAL MEAN			79.5
HIGHEST DAILY MEAN	10500	2030	10500
LOWEST DAILY MEAN	.30	.30	.11
ANNUAL SEVEN-DAY MINIMUM	.57	.86	.17
INSTANTANEOUS PEAK FLOW		4590	18800
INSTANTANEOUS PEAK STAGE		15.95	28.60
ANNUAL RUNOFF (CFSM)	2.09	1.44	1.51
ANNUAL RUNOFF (INCHES)	28.31	19.54	20.49
10 PERCENT EXCEEDS	236	204	224
50 PERCENT EXCEEDS	35	45	31
90 PERCENT EXCEEDS	1.7	6.4	1.6

## SALT RIVER BASIN

03297980 LONG RUN NEAR FISHERVILLE, KY

## WATER-QUALITY RECORDS

LOCATION.--Lat 38°13'10", long 85°26'56", Jefferson County, Hydrologic Unit 05140102, at bridge on State Highway 1531, 0.7 mi below South Long Run and at mile 2.4.

DRAINAGE AREA.-- 22.5 mi<sup>2</sup>.

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
08...	1040	2.0	486	8.0	1.5	13.9
JAN						
20...	1020	9.4	455	8.2	1.5	13.3
FEB						
19...	1030	46	427	8.0	7.0	11.9
MAR						
16...	1020	13	477	8.3	5.5	13.2
APR						
20...	1000	66	415	7.8	9.0	10.9
MAY						
18...	1015	3.8	428	8.0	19.5	9.0
JUN						
18...	1210	7.6	418	8.4	23.5	10.9
JUL						
21...	1020	48	376	7.9	23.5	7.7
AUG						
12...	1010	4.2	458	8.1	23.0	8.8

## SALT RIVER BASIN

03298000 FLOYDS FORK AT FISHERVILLE, KY

LOCATION.--Lat 38°11'18", long 85°27'37", Jefferson County, Hydrologic Unit 05140102, on left bank on downstream side of bridge on former State Highway 155, at Fisherville, 0.2 mi downstream from Brush Run, 1.4 mi upstream from Pope Lick, and at mile 32.7.

DRAINAGE AREA.--138 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1944 to current year. Monthly discharge only for August 1944, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1946. WSP 1909: 1945(P), 1948(P), 1960(M).

GAGE.--Water-stage recorder. Datum of gage is 542.60 ft above sea level, from benchmark elevation supplied by Park Aerial Survey.

REMARKS.--No estimated daily discharges. Records fair except for discharges below 2.0 ft<sup>3</sup>/s, which are poor. Diversions by local golf course for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1937 reached a stage of 16.8 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	2.3	306	52	51	71	99	934	576	415	81	.56
2	3.0	26	88	49	49	66	88	389	149	165	47	.24
3	1.4	10	58	53	46	62	72	675	83	96	31	.05
4	.63	8.4	76	55	48	61	74	339	67	85	21	.16
5	.55	9.5	62	61	63	62	74	215	69	89	15	.18
6	.71	4.9	45	1890	79	60	66	146	70	71	9.0	.25
7	.61	2.7	33	2070	88	57	61	261	55	65	224	.08
8	.33	2.7	26	2680	106	90	60	347	44	214	117	.23
9	.17	1.6	23	707	140	1690	119	234	269	116	113	.77
10	.44	1.3	405	340	245	502	139	175	649	71	52	.46
11	.95	1.3	211	204	1960	241	115	130	1280	50	44	.32
12	.69	1.1	98	153	2070	161	86	98	603	39	34	.31
13	.63	2.4	74	141	690	130	76	81	806	32	23	.53
14	1.4	48	60	120	367	111	87	69	341	30	15	.68
15	10	45	51	105	224	92	92	58	393	201	7.7	.52
16	3.5	24	46	94	212	82	3000	49	280	337	4.4	.54
17	1.6	12	41	86	241	79	1280	41	168	131	2.9	.55
18	1.4	4.3	37	81	540	97	429	34	103	77	2.3	.48
19	.81	2.9	34	76	338	113	808	28	248	56	2.2	.66
20	.26	2.2	31	71	226	2230	474	46	202	695	1.8	.78
21	.44	2.8	28	65	173	1130	256	44	1130	470	1.5	1.8
22	1.1	24	77	63	139	511	179	49	936	140	.77	3.3
23	.93	37	130	90	121	282	138	1690	2250	98	.46	2.9
24	.59	25	288	100	101	190	107	765	603	76	.59	1.3
25	8.3	14	772	88	88	151	89	315	268	53	1.2	.89
26	8.9	7.3	222	80	81	129	82	171	148	38	9.5	.73
27	2.7	6.7	118	75	83	104	134	157	97	29	7.5	.82
28	3.6	4.1	87	70	80	93	113	110	76	23	1.7	1.2
29	1.2	8.7	74	66	---	85	215	84	110	17	1.5	.67
30	3.6	191	70	61	---	78	2300	66	1400	206	1.2	.30
31	2.4	---	62	55	---	73	---	62	---	203	.94	---
TOTAL	67.24	533.2	3733	9901	8649	8883	10912	7862	13473	4388	874.16	22.26
MEAN	2.17	17.8	120	319	309	287	364	254	449	142	28.2	.74
MAX	10	191	772	2680	2070	2230	3000	1690	2250	695	224	3.3
MIN	.17	1.1	23	49	46	57	60	28	44	17	.46	.05
CFSM	.02	.13	.87	2.31	2.24	2.08	2.64	1.84	3.25	1.03	.20	.01
IN.	.02	.14	1.01	2.67	2.33	2.39	2.94	2.12	3.63	1.18	.24	.01

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 1998, BY WATER YEAR (WY)

	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)	MEAN	MAX	(WY)	MIN	(WY)
1944	32.8	423	1978	.000	1949	106	485	1974	.000	1954	232	1025	1991	.000	1954
1945	294	1252	1950	3.54	1977	362	990	1956	12.4	1954	408	1639	1997	40.3	1954
1946	283	1021	1970	34.0	1959	283	971	1983	12.2	1965	215	971	1983	12.2	1965
1947	129	622	1997	.90	1988	129	622	1997	.90	1988	64.7	331	1973	1.73	1954
1948	45.2	290	1979	.048	1962	45.2	290	1979	.048	1962	45.2	290	1979	.048	1962
1949	39.6	1020	1979	.000	1948	39.6	1020	1979	.000	1948	39.6	1020	1979	.000	1948

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR	FOR 1998 WATER YEAR	WATER YEARS 1944 - 1998
ANNUAL TOTAL	103560.76	69297.86	
ANNUAL MEAN	284	190	183
HIGHEST ANNUAL MEAN			382
LOWEST ANNUAL MEAN			29.0
HIGHEST DAILY MEAN	20000	3000	20000
LOWEST DAILY MEAN	.17	.05	.00
ANNUAL SEVEN-DAY MINIMUM	.49	.17	.00
INSTANTANEOUS PEAK FLOW		4870	42100
INSTANTANEOUS PEAK STAGE		9.32	17.39
INSTANTANEOUS LOW FLOW			.00
ANNUAL RUNOFF (CFSM)	2.06	1.38	1.33
ANNUAL RUNOFF (INCHES)	27.92	18.68	18.06
10 PERCENT EXCEEDS	422	421	370
50 PERCENT EXCEEDS	56	70	35
90 PERCENT EXCEEDS	1.5	.77	.40

## SALT RIVER BASIN

03298000 FLOYDS FORK AT FISHERVILLE, KY--Continued

## WATER-QUALITY RECORDS

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
08...	1200	24	517	7.8	2.0	13.7
JAN						
20...	1150	67	524	8.2	3.0	13.9
FEB						
19...	1130	304	462	8.0	8.0	11.9
MAR						
16...	1140	82	515	8.5	7.5	15.4
APR						
20...	1120	458	408	7.5	10.5	10.3
MAY						
18...	1135	34	503	7.9	22.5	8.3
JUN						
18...	0945	101	472	8.1	22.0	7.2
JUL						
21...	1130	342	325	7.8	24.0	7.0
AUG						
12...	1130	32	476	7.8	25.0	5.9

## SALT RIVER BASIN

03298100 POPE LICK AT POPE LICK ROAD NEAR MIDDLETOWN, KY

## WATER-QUALITY RECORDS

LOCATION.--Lat 38°13'09", long 85°31'07", Jefferson County, Hydrologic Unit 05140102, at culvert on Pope Lick Road, and at mile 3.2.

DRAINAGE AREA.-- 2.9 mi<sup>2</sup>.

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
08...	0900	1.2	721	7.8	3.5	11.2
JAN						
20...	0900	1.3	701	7.9	2.5	11.6
FEB						
19...	0835	7.5	679	7.9	8.5	10.3
MAR						
16...	0850	2.6	721	8.1	6.0	11.5
APR						
20...	0850	11	579	7.5	10.0	9.8
MAY						
18...	0850	1.2	618	7.6	17.0	7.2
JUN						
18...	0855	1.3	602	7.9	20.0	7.3
JUL						
21...	0830	5.8	540	7.7	22.0	7.4
AUG						
12...	0850	1.6	624	7.8	22.0	7.1

## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY NEAR JEFFERSONTOWN, KY

LOCATION.--Lat 38°11'41", long 85°33'26", Jefferson County, Hydrologic Unit 05140102, on right downstream bank at bridge on Ruckriegal Parkway, 500 feet south of Penion Drive.

DRAINAGE AREA.--5.47 mi<sup>2</sup>.

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--January 16, 1996 to February 26, 1998(discontinued).

GAGE.--Water-stage recorder.

REMARKS.--1996: Estimated daily discharges: Feb. 1-7. Records good except for period of estimated record which is poor.

1997: Estimated daily discharges: Jan. 12-20. Records good except for period of estimated record which is poor.

1998: No estimated daily discharges: Records good.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	3.5	5.3	48	14	7.8	1.1	1.7	.63
2	---	---	---	---	3.0	4.5	14	10	20	27	3.4	.61
3	---	---	---	---	2.6	3.5	10	9.1	9.2	6.4	1.8	.83
4	---	---	---	---	2.4	3.1	10	78	6.7	1.9	1.2	.70
5	---	---	---	---	2.0	10	7.7	56	5.5	1.2	1.0	2.5
6	---	---	---	---	1.8	62	6.4	21	13	.97	.92	2.7
7	---	---	---	---	1.6	18	5.6	13	15	19	.85	5.5
8	---	---	---	---	5.6	9.4	5.1	67	74	8.4	11	.95
9	---	---	---	---	6.9	7.2	4.6	15	24	2.6	2.8	16
10	---	---	---	---	3.7	6.2	4.2	91	66	1.4	1.1	2.8
11	---	---	---	---	3.1	5.5	3.9	82	53	1.3	1.9	.96
12	---	---	---	---	2.6	4.8	3.6	17	43	1.2	1.8	.70
13	---	---	---	---	2.4	4.3	17	12	13	5.9	.98	.67
14	---	---	---	---	2.4	3.7	8.1	8.8	14	40	.82	.63
15	---	---	---	---	2.4	33	7.4	67	8.1	56	.76	.43
16	---	---	---	19	1.9	14	6.6	13	4.9	5.4	.73	39
17	---	---	---	15	1.7	12	4.5	10	3.8	3.8	.68	4.9
18	---	---	---	102	1.7	7.4	4.1	7.4	7.7	2.2	.66	1.4
19	---	---	---	29	19	115	5.9	5.8	4.6	3.0	.63	1.1
20	---	---	---	9.4	50	48	71	5.0	2.9	1.7	4.5	.89
21	---	---	---	7.0	11	23	10	4.4	2.4	28	16	17
22	---	---	---	6.0	12	21	63	3.9	2.3	7.7	2.2	4.8
23	---	---	---	121	8.5	17	69	3.5	2.1	2.9	2.9	1.5
24	---	---	---	79	6.6	14	16	5.8	2.7	2.0	4.6	1.1
25	---	---	---	13	5.8	17	11	6.1	2.0	1.6	1.4	.98
26	---	---	---	11	6.8	11	24	83	1.7	1.5	1.0	.92
27	---	---	---	9.1	28	9.1	8.9	97	1.6	1.3	.98	80
28	---	---	---	6.4	14	17	30	210	1.4	1.2	.99	57
29	---	---	---	5.7	6.5	16	98	41	1.2	60	.85	7.5
30	---	---	---	4.7	---	8.9	29	14	1.1	8.3	.76	3.4
31	---	---	---	4.0	---	23	---	10	---	2.8	.67	---
TOTAL	---	---	---	---	219.5	553.9	606.6	1080.8	414.7	307.77	71.58	258.10
MEAN	---	---	---	---	7.57	17.9	20.2	34.9	13.8	9.93	2.31	8.60
MAX	---	---	---	---	50	115	98	210	74	60	16	80
MIN	---	---	---	---	1.6	3.1	3.6	3.5	1.1	.97	.63	.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1996, BY WATER YEAR (WY)

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
MEAN	---	---	---	---	7.57	17.9	20.2	34.9	13.8	9.93	2.31	8.60
MAX	---	---	---	---	7.57	17.9	20.2	34.9	13.8	9.93	2.31	8.60
(WY)	---	---	---	---	1996	1996	1996	1996	1996	1996	1996	1996
MIN	---	---	---	---	7.57	17.9	20.2	34.9	13.8	9.93	2.31	8.60
(WY)	---	---	---	---	1996	1996	1996	1996	1996	1996	1996	1996

SUMMARY STATISTICS

WATER YEARS 1995 - 1996

HIGHEST DAILY MEAN	210	May 28 1996
LOWEST DAILY MEAN	.43	Sep 15 1996
ANNUAL SEVEN-DAY MINIMUM	.72	Aug 29 1996
INSTANTANEOUS PEAK FLOW	2870	May 28 1996
INSTANTANEOUS PEAK STAGE	8.43	May 28 1996
10 PERCENT EXCEEDS	50	
50 PERCENT EXCEEDS	5.8	
90 PERCENT EXCEEDS	.98	

SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY NEAR JEFFERSONTOWN, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	.95	85	6.4	6.6	868	8.4	9.4	45	3.1	.90	.43
2	1.9	.81	12	6.1	5.6	386	7.7	20	10	2.3	.91	.39
3	1.7	.82	8.9	5.9	8.4	133	6.7	62	6.7	1.8	2.4	7.5
4	1.5	.78	7.2	5.5	89	32	6.2	6.8	5.0	1.6	1.7	.70
5	1.3	.83	14	34	16	22	8.2	4.2	4.4	1.5	.92	.48
6	1.2	6.8	9.7	6.1	10	16	6.3	4.3	4.7	1.3	.84	.41
7	1.1	31	7.4	3.7	8.2	13	5.3	2.2	9.7	1.2	.83	.38
8	1.1	22	6.2	3.1	11	11	4.9	47	90	1.0	1.5	.35
9	3.0	14	5.7	4.7	7.4	25	4.5	9.0	14	.92	85	218
10	2.9	7.2	5.5	3.6	6.4	16	4.4	4.7	8.2	.83	9.3	19
11	1.3	5.5	5.3	3.0	5.4	11	4.3	3.2	6.4	.78	2.3	4.0
12	.86	4.5	72	2.8	4.8	8.9	11	2.5	5.4	.78	6.7	2.0
13	.77	3.9	13	2.5	7.4	15	4.8	2.0	68	.77	2.6	1.4
14	.78	3.5	8.8	2.2	11	20	4.0	1.8	87	.73	1.5	1.1
15	.73	3.4	7.4	11	6.8	10	3.5	1.7	13	.65	11	.89
16	.76	3.3	65	8.4	5.2	8.4	4.4	1.4	124	.55	2.3	.84
17	1.3	5.4	129	6.8	4.2	8.0	4.2	1.3	29	.46	1.2	.80
18	41	7.1	17	5.6	4.0	181	3.4	1.3	201	.50	1.0	.75
19	3.2	4.5	11	4.8	3.7	31	11	4.7	19	.50	2.8	.67
20	1.3	3.8	9.0	4.0	3.7	16	4.8	5.7	10	.44	8.8	.90
21	.89	8.2	7.8	3.5	4.6	12	18	1.4	79	.43	1.7	.67
22	.75	5.9	7.4	30	3.5	10	6.5	1.2	13	.43	1.1	.64
23	6.1	4.4	28	10	2.8	8.4	5.0	.99	7.5	14	.87	.67
24	1.1	4.1	93	47	2.5	7.3	4.2	44	5.6	3.2	.84	5.6
25	.83	64	14	17	2.4	20	3.6	35	4.4	.70	1.3	1.0
26	6.2	18	9.7	8.5	19	14	3.2	20	9.3	.51	.82	.71
27	2.1	9.1	8.5	117	14	8.3	10	5.6	3.4	.59	.71	.59
28	3.3	6.8	7.7	38	20	40	5.2	4.2	2.6	.97	.58	.57
29	1.5	6.1	7.3	13	---	25	2.4	56	6.6	1.1	---	.61
30	1.3	37	6.7	9.1	---	12	2.2	8.5	9.0	.99	.43	.54
31	1.1	---	6.9	7.9	---	11	---	14	---	.95	.44	---
TOTAL	95.17	293.69	696.1	431.2	293.6	1999.3	178.3	386.09	900.9	45.58	153.83	272.59
MEAN	3.07	9.79	22.5	13.9	10.5	64.5	5.94	12.5	30.0	1.47	4.96	9.09
MAX	41	64	129	117	89	868	18	62	201	14	85	218
MIN	.73	.78	5.3	2.2	2.4	7.3	2.2	.99	2.6	.43	.43	.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1997, BY WATER YEAR (WY)

	1995	1996	1997	1995	1996	1997	1995	1996	1997	1995	1996	1997
MEAN	3.07	9.79	22.5	13.9	10.5	41.2	13.1	23.7	21.9	5.70	3.64	8.84
MAX	3.07	9.79	22.5	13.9	10.5	64.5	20.2	34.9	30.0	9.93	4.96	9.09
(WY)	1997	1997	1997	1997	1997	1997	1996	1996	1997	1996	1997	1997
MIN	3.07	9.79	22.5	13.9	10.5	17.9	5.94	12.5	13.8	1.47	2.31	8.60
(WY)	1997	1997	1997	1997	1997	1996	1997	1997	1996	1997	1996	1996

SUMMARY STATISTICS

FOR 1997 WATER YEAR

WATER YEARS 1995 - 1997

ANNUAL TOTAL	5746.35		
ANNUAL MEAN	15.7	15.7	
HIGHEST ANNUAL MEAN		15.7	1997
LOWEST ANNUAL MEAN		15.7	1997
HIGHEST DAILY MEAN	868	868	Mar 1 1997
LOWEST DAILY MEAN	.35	.35	Sep 8 1997
ANNUAL SEVEN-DAY MINIMUM	.47	.47	Jul 16 1997
INSTANTANEOUS PEAK FLOW	4680	4680	Mar 1 1997
INSTANTANEOUS PEAK STAGE	9.33	9.33	Mar 1 1997
10 PERCENT EXCEEDS	29	37	
50 PERCENT EXCEEDS	4.9	5.5	
90 PERCENT EXCEEDS	.76	.82	



## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY NEAR JEFFERSONTOWN, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.50	18	14	2.1	1.7	---	---	---	---	---	---	---
2	.50	4.4	5.1	2.2	1.7	---	---	---	---	---	---	---
3	.50	3.2	18	1.9	1.5	---	---	---	---	---	---	---
4	.49	2.0	8.7	1.7	2.0	---	---	---	---	---	---	---
5	.44	1.4	4.6	12	5.9	---	---	---	---	---	---	---
6	.43	1.3	3.0	94	8.6	---	---	---	---	---	---	---
7	.42	1.3	2.1	150	12	---	---	---	---	---	---	---
8	.42	1.2	1.8	58	13	---	---	---	---	---	---	---
9	.39	1.1	2.7	16	15	---	---	---	---	---	---	---
10	.43	1.0	52	9.1	26	---	---	---	---	---	---	---
11	.41	.94	7.0	6.5	99	---	---	---	---	---	---	---
12	.44	.85	4.2	7.1	28	---	---	---	---	---	---	---
13	3.3	29	3.0	6.8	14	---	---	---	---	---	---	---
14	6.6	9.1	2.1	4.6	9.5	---	---	---	---	---	---	---
15	1.0	3.2	1.7	3.9	7.6	---	---	---	---	---	---	---
16	.73	2.0	1.7	3.3	17	---	---	---	---	---	---	---
17	.72	1.4	1.6	3.8	19	---	---	---	---	---	---	---
18	.66	1.2	1.6	2.8	15	---	---	---	---	---	---	---
19	.63	1.1	1.5	2.6	8.8	---	---	---	---	---	---	---
20	.57	1.1	1.2	2.0	7.6	---	---	---	---	---	---	---
21	.48	11	1.8	1.9	6.1	---	---	---	---	---	---	---
22	.65	6.1	23	3.7	5.2	---	---	---	---	---	---	---
23	.83	2.1	4.9	8.2	5.0	---	---	---	---	---	---	---
24	12	1.5	59	3.9	4.0	---	---	---	---	---	---	---
25	3.7	1.2	17	2.9	3.4	---	---	---	---	---	---	---
26	4.6	1.1	7.0	2.5	3.1	---	---	---	---	---	---	---
27	2.1	1.0	5.0	2.4	---	---	---	---	---	---	---	---
28	1.2	.96	3.7	2.4	---	---	---	---	---	---	---	---
29	1.1	.98	3.9	2.3	---	---	---	---	---	---	---	---
30	.93	78	4.0	2.1	---	---	---	---	---	---	---	---
31	.85	---	2.4	1.7	---	---	---	---	---	---	---	---
TOTAL	48.02	188.73	269.3	424.4	---	---	---	---	---	---	---	---
MEAN	1.55	6.29	8.69	13.7	---	---	---	---	---	---	---	---
MAX	12	78	59	150	---	---	---	---	---	---	---	---
MIN	.39	.85	1.2	1.7	---	---	---	---	---	---	---	---

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 1998, BY WATER YEAR (WY)

	1995	1996	1997	1998	1995	1996	1997	1998	1995	1996	1997	1998
MEAN	2.31	8.04	15.6	13.8	10.5	41.2	13.1	23.7	21.9	5.70	3.64	8.84
MAX	3.07	9.79	22.5	13.9	10.5	64.5	20.2	34.9	30.0	9.93	4.96	9.09
(WY)	1997	1997	1997	1997	1997	1997	1996	1996	1997	1996	1997	1997
MIN	1.55	6.29	8.69	13.7	10.5	17.9	5.94	12.5	13.8	1.47	2.31	8.60
(WY)	1998	1998	1998	1998	1997	1996	1997	1997	1996	1997	1996	1996

## SUMMARY STATISTICS

## FOR 1997 CALENDAR YEAR

## WATER YEARS 1995 - 1998

ANNUAL TOTAL	5167.44		
ANNUAL MEAN	14.2		15.7
HIGHEST ANNUAL MEAN			15.7
LOWEST ANNUAL MEAN			15.7
HIGHEST DAILY MEAN	868	Mar 1	868
LOWEST DAILY MEAN	.35	Sep 8	.35
ANNUAL SEVEN-DAY MINIMUM	.42	Oct 5	.42
INSTANTANEOUS PEAK FLOW			4680
INSTANTANEOUS PEAK STAGE			9.33
10 PERCENT EXCEEDS	21		30
50 PERCENT EXCEEDS	4.0		4.7
90 PERCENT EXCEEDS	.60		.79

## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY AT JEFFERSONTOWN, KY--Continued

## WATER-QUALITY RECORDS

LOCATION.-- Lat 38°11'41", long 85°33'26", Jefferson County, Hydrologic Unit 05140102, on right downstream wingwall at bridge on Ruckriegel Parkway.

DRAINAGE AREA.--5.47 mi<sup>2</sup>.

PERIOD OF DAILY RECORD.--January 1996 to October 1997.

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 2580 microsiemens, Jan. 9, 1997; minimum, 73 microsiemens, March 1-2, 1997.

pH: Maximum, 8.8 units, April 17-18, 1996; minimum, 7.0, May 28, 1996.

WATER TEMPERATURE: Maximum, 28.3° C, July 28, 1997; minimum, 0.0° C, Feb. 1-7, 1996.

DISSOLVED OXYGEN: Maximum, 21.9 mg/L, Feb. 3, 1996; minimum, 3.2 mg/L, Aug. 4, 1997.

## SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	895	822	868
18	---	---	---	---	---	---	---	---	---	898	236	727
19	---	---	---	---	---	---	---	---	---	692	340	609
20	---	---	---	---	---	---	---	---	---	738	692	727
21	---	---	---	---	---	---	---	---	---	742	732	738
22	---	---	---	---	---	---	---	---	---	764	733	744
23	---	---	---	---	---	---	---	---	---	784	244	491
24	---	---	---	---	---	---	---	---	---	450	244	368
25	---	---	---	---	---	---	---	---	---	510	450	487
26	---	---	---	---	---	---	---	---	---	547	510	521
27	---	---	---	---	---	---	---	---	---	553	539	545
28	---	---	---	---	---	---	---	---	---	545	539	543
29	---	---	---	---	---	---	---	---	---	547	544	545
30	---	---	---	---	---	---	---	---	---	546	537	541
31	---	---	---	---	---	---	---	---	---	537	532	534
MONTH	---	---	---	---	---	---	---	---	---	898	236	599



## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY AT JEFFERSONTOWN, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	688	670	680	740	733	736	518	129	388	628	612	623
2	694	669	685	744	738	740	600	518	563	631	618	625
3	697	668	686	738	731	734	632	600	623	632	601	622
4	694	665	684	731	703	720	635	630	632	650	543	636
5	693	668	683	714	703	709	637	279	531	543	169	385
6	693	662	681	709	268	496	616	378	520	622	505	564
7	694	666	682	501	187	399	646	616	633	640	622	632
8	694	669	684	530	257	440	654	646	649	646	636	640
9	676	432	523	564	297	465	656	646	652	2580	639	1220
10	557	473	512	685	564	633	662	649	656	1800	1130	1420
11	550	466	505	707	685	699	665	652	660	2130	1140	1600
12	619	550	598	717	702	709	667	160	386	1140	919	1030
13	665	619	651	717	708	713	590	483	544	922	844	890
14	674	651	666	722	701	711	639	590	623	871	756	823
15	678	660	672	722	693	704	649	636	642	1160	728	791
16	688	669	681	708	698	703	650	151	467	864	787	832
17	689	565	680	712	504	678	495	148	327	894	839	868
18	574	162	347	566	462	495	588	495	544	859	781	826
19	599	476	524	651	566	614	594	569	585	868	755	778
20	680	599	652	668	641	655	605	594	599	1070	852	965
21	696	680	691	674	332	515	607	601	603	903	809	858
22	714	678	700	619	425	521	955	606	699	1040	611	795
23	678	290	406	666	619	652	759	166	647	893	841	866
24	622	478	567	687	666	681	510	140	380	903	407	660
25	663	622	652	690	135	461	586	510	547	726	583	680
26	695	354	556	562	355	478	598	586	593	743	716	734
27	618	388	517	658	562	603	613	598	602	797	233	458
28	652	550	608	673	658	667	620	607	613	586	299	501
29	673	568	628	675	640	671	625	609	618	641	586	619
30	717	673	703	644	211	368	622	613	619	647	629	636
31	734	717	726	---	---	---	625	616	622	660	647	650
MONTH	734	162	620	744	135	612	955	129	573	2580	169	782
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	665	653	658	221	73	149	588	567	575	557	234	421
2	672	661	667	514	73	376	590	569	584	618	240	546
3	699	491	659	520	146	362	611	590	600	535	148	392
4	577	231	398	546	467	504	611	586	601	620	535	586
5	616	499	570	540	478	528	618	491	557	640	620	628
6	638	616	623	566	514	551	609	550	583	633	547	590
7	642	588	628	578	566	570	622	593	610	648	617	636
8	1350	573	799	586	574	578	620	591	608	663	173	489
9	773	718	745	585	244	506	618	596	609	597	435	541
10	723	712	717	554	320	480	623	598	612	630	597	611
11	716	704	712	583	554	569	624	582	607	642	626	631
12	717	710	713	601	583	592	610	270	446	649	628	641
13	2140	666	826	604	290	548	612	462	564	655	629	644
14	2030	865	1210	572	320	456	627	597	615	658	628	644
15	865	789	809	617	572	601	629	589	612	657	627	644
16	794	758	771	627	617	620	628	570	607	644	616	633
17	759	737	749	629	620	625	583	537	551	667	626	650
18	744	710	731	629	104	320	608	576	593	664	628	648
19	731	717	726	525	312	461	591	289	415	682	316	615
20	734	694	719	552	525	539	589	471	549	576	294	430
21	731	671	708	568	552	559	611	201	424	654	576	637
22	752	722	735	572	563	568	609	501	566	671	649	661
23	741	711	730	577	568	572	629	589	612	678	643	662
24	737	706	725	583	569	576	640	602	622	682	125	576
25	737	714	728	587	258	513	643	612	626	501	200	385
26	746	271	636	567	294	472	654	616	635	547	237	400
27	694	480	632	606	567	585	644	280	505	619	547	592
28	724	195	683	611	250	452	604	359	510	640	549	628
29	---	---	---	520	272	430	640	604	631	549	175	368
30	---	---	---	549	506	532	663	557	649	602	517	570
31	---	---	---	567	520	541	---	---	---	602	383	514
MONTH	2140	195	715	629	73	508	663	201	576	682	125	568

## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY AT JEFFERSONTOWN, KY--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG.C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	534	265	402	608	398	531	659	638	648	709	685	691
2	586	534	571	632	608	623	654	642	649	699	671	685
3	615	566	595	647	615	634	656	369	624	680	208	383
4	627	615	623	654	622	640	454	328	379	536	401	477
5	629	615	624	651	614	637	597	454	534	608	536	573
6	615	542	592	646	612	632	632	597	615	646	608	625
7	600	309	481	653	613	637	653	629	638	660	641	650
8	496	149	324	652	624	643	663	575	642	665	647	654
9	570	430	520	677	638	660	575	82	386	665	143	274
10	599	570	586	690	662	674	559	309	442	702	251	451
11	614	598	602	681	664	673	644	559	620	665	585	633
12	624	605	614	686	660	670	669	327	527	686	664	675
13	628	119	475	681	660	667	602	401	527	696	686	692
14	490	153	350	665	653	662	628	601	615	715	691	706
15	564	490	538	653	625	640	635	225	434	718	688	707
16	576	90	456	655	628	639	600	418	539	713	687	701
17	523	272	448	661	644	651	643	600	632	719	685	705
18	439	92	296	---	---	---	669	634	656	724	704	715
19	544	439	508	---	---	---	673	453	636	712	697	705
20	567	544	557	---	---	---	505	258	388	829	692	749
21	573	108	456	---	---	---	608	505	574	741	707	717
22	566	402	516	---	---	---	657	587	643	767	727	744
23	585	566	575	---	---	---	677	637	662	734	693	716
24	612	584	592	479	234	362	681	617	663	693	320	434
25	651	609	619	624	479	578	659	620	642	610	449	546
26	655	278	473	653	623	639	664	618	634	688	610	661
27	632	562	607	660	554	649	691	658	681	763	681	716
28	658	613	638	701	528	628	706	676	694	792	750	767
29	666	318	566	652	629	640	707	689	699	791	739	771
30	527	282	410	665	643	649	710	691	699	789	754	775
31	---	---	---	666	647	656	701	690	696	---	---	---
MONTH	666	90	520	701	234	629	710	82	594	829	143	643
YEAR	2580	73	611									

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

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



## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY AT JEFFERSONTOWN, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.5	7.7	7.6	7.5	7.6	7.6	7.3	7.5	8.4	8.1	8.2
2	8.0	7.7	7.8	7.7	7.5	7.6	7.8	7.6	7.7	8.3	8.1	8.2
3	8.1	7.8	7.9	7.7	7.6	7.6	7.9	7.7	7.8	8.5	8.1	8.3
4	8.0	7.8	7.9	7.7	7.6	7.6	7.9	7.8	7.8	8.3	8.0	8.1
5	8.0	7.8	7.9	7.7	7.5	7.6	7.9	7.5	7.7	8.0	7.7	7.8
6	8.0	7.7	7.9	7.6	7.2	7.4	7.8	7.5	7.7	8.1	7.8	8.0
7	7.9	7.7	7.8	7.4	7.1	7.2	7.9	7.6	7.8	8.2	8.0	8.0
8	7.9	7.7	7.8	7.4	7.1	7.2	8.0	7.7	7.8	8.2	8.0	8.1
9	7.9	7.6	7.7	7.3	7.1	7.2	8.1	7.8	7.9	8.1	7.9	8.0
10	8.0	7.5	7.7	7.4	7.3	7.3	8.1	7.8	7.9	8.2	7.9	8.0
11	7.9	7.5	7.7	7.6	7.3	7.4	8.1	7.8	7.9	8.2	7.9	8.0
12	7.9	7.6	7.7	7.7	7.3	7.5	7.8	7.5	7.6	8.2	8.0	8.1
13	7.8	7.7	7.7	7.6	7.2	7.5	8.0	7.7	7.8	8.2	8.0	8.1
14	7.8	7.6	7.7	7.7	7.3	7.4	8.1	7.8	7.9	8.2	8.0	8.1
15	7.8	7.6	7.7	7.8	7.3	7.6	8.2	7.9	8.0	8.2	7.8	8.0
16	7.7	7.6	7.6	7.8	7.6	7.7	8.0	7.7	7.9	8.0	7.7	7.8
17	7.7	7.6	7.6	7.6	7.4	7.5	7.8	7.6	7.7	8.1	7.9	8.0
18	7.6	7.2	7.3	7.6	7.3	7.4	8.0	7.8	7.9	8.2	8.0	8.0
19	7.4	7.3	7.3	7.8	7.4	7.6	8.2	7.9	8.0	8.2	8.0	8.1
20	7.6	7.4	7.4	7.8	7.5	7.7	8.2	8.0	8.1	8.1	7.9	8.0
21	7.5	7.4	7.5	7.7	7.4	7.5	8.3	8.1	8.1	8.1	7.9	8.0
22	7.9	7.4	7.6	7.9	7.4	7.6	8.2	8.1	8.1	8.0	7.6	7.8
23	7.8	7.4	7.5	8.0	7.8	7.9	8.3	7.9	8.1	7.8	7.6	7.7
24	7.6	7.3	7.5	8.0	7.8	7.9	8.0	7.7	7.8	7.8	7.6	7.7
25	7.7	7.4	7.5	7.9	7.5	7.7	8.0	7.8	7.9	7.8	7.6	7.7
26	7.7	7.3	7.4	7.6	7.5	7.6	8.1	7.9	8.0	7.9	7.7	7.8
27	7.5	7.3	7.4	7.8	7.6	7.7	8.1	8.0	8.0	7.8	7.7	7.8
28	7.5	7.3	7.4	7.9	7.7	7.8	8.2	8.0	8.1	7.8	7.6	7.7
29	7.7	7.4	7.5	7.9	7.7	7.8	8.3	8.0	8.1	7.9	7.7	7.8
30	7.6	7.4	7.5	7.7	7.4	7.5	8.3	8.0	8.1	8.0	7.8	7.9
31	7.6	7.5	7.5	---	---	---	8.3	8.1	8.2	8.1	7.8	7.9
MONTH	8.1	7.2	7.6	8.0	7.1	7.6	8.3	7.3	7.9	8.5	7.6	8.0
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.8	7.9	8.0	7.4	7.5	8.3	8.0	8.1	7.8	7.5	7.6
2	8.1	7.8	7.9	7.6	7.3	7.4	8.3	8.0	8.1	7.9	7.5	7.7
3	8.2	7.5	7.9	7.7	7.5	7.6	8.3	8.0	8.1	7.8	7.5	7.6
4	7.6	7.4	7.5	7.7	7.6	7.7	8.4	8.0	8.2	7.7	7.5	7.6
5	7.7	7.5	7.6	7.8	7.7	7.7	8.1	7.8	7.9	7.8	7.6	7.7
6	7.8	7.5	7.6	7.8	7.7	7.8	8.3	7.8	8.0	7.7	7.5	7.6
7	7.9	7.6	7.7	7.9	7.8	7.9	8.3	7.8	8.0	7.8	7.5	7.6
8	7.9	7.5	7.7	8.0	7.8	7.9	8.3	7.8	8.0	7.7	7.4	7.5
9	8.1	7.7	7.9	7.9	7.7	7.8	8.2	7.8	8.0	7.5	7.2	7.4
10	8.2	7.8	8.0	7.9	7.7	7.8	8.1	7.8	7.9	7.6	7.2	7.4
11	8.3	8.0	8.1	8.0	7.9	8.0	8.0	7.7	7.8	7.8	7.3	7.5
12	8.3	8.1	8.2	8.1	8.0	8.0	7.7	7.4	7.6	7.8	7.4	7.6
13	8.4	7.8	8.1	8.2	7.7	8.0	7.9	7.4	7.7	7.8	7.4	7.6
14	8.2	7.8	7.9	7.9	7.7	7.8	8.2	7.6	7.9	7.9	7.4	7.6
15	8.3	7.9	8.0	8.2	7.9	8.0	8.2	7.7	8.0	7.9	7.4	7.6
16	8.3	7.9	8.1	8.2	7.9	8.1	8.2	7.7	8.0	8.0	7.4	7.7
17	8.4	8.0	8.1	8.2	7.9	8.1	8.2	7.7	7.9	7.9	7.5	7.7
18	8.4	8.0	8.2	8.0	7.5	7.7	8.4	7.8	8.1	8.0	7.5	7.7
19	8.2	7.9	8.0	7.9	7.6	7.8	8.3	7.8	8.0	7.7	7.2	7.5
20	8.4	7.8	8.0	8.0	7.8	7.9	8.6	7.8	8.1	7.6	7.2	7.4
21	8.2	7.8	8.0	8.1	7.9	8.0	8.4	7.9	8.1	7.7	7.3	7.5
22	8.4	7.8	8.1	8.2	7.9	8.0	8.7	7.9	8.2	8.0	7.4	7.6
23	8.6	8.0	8.3	8.2	7.9	8.1	8.6	7.9	8.2	8.1	7.5	7.8
24	8.6	8.1	8.3	8.3	8.0	8.1	8.4	7.9	8.2	8.0	7.3	7.7
25	8.6	8.1	8.4	8.4	7.9	8.1	8.3	7.8	8.1	7.5	7.3	7.4
26	8.3	8.0	8.2	8.3	7.9	8.1	8.2	7.8	8.0	7.5	7.3	7.4
27	8.2	7.7	8.0	8.4	8.0	8.2	8.0	7.6	7.7	7.7	7.5	7.6
28	8.2	7.7	7.9	8.1	7.9	8.0	8.1	7.5	7.8	7.7	7.6	7.6
29	---	---	---	8.0	7.8	7.9	8.1	7.6	7.9	7.6	7.4	7.5
30	---	---	---	8.1	7.9	8.0	8.1	7.7	7.9	7.7	7.5	7.6
31	---	---	---	8.3	7.9	8.1	---	---	---	7.6	7.5	7.5
MONTH	8.6	7.4	8.0	8.4	7.3	7.9	8.7	7.4	8.0	8.1	7.2	7.6

SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY AT JEFFERSONTOWN, KY--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.7	7.4	7.5	7.8	7.4	7.6	7.9	7.7	7.8	7.9	7.8	7.9
2	7.9	7.6	7.8	7.9	7.5	7.7	7.9	7.7	7.8	7.9	7.8	7.9
3	8.0	7.7	7.8	8.0	7.6	7.7	7.9	7.4	7.7	7.8	7.5	7.6
4	8.0	7.8	7.9	8.0	7.6	7.8	7.4	7.2	7.3	7.7	7.6	7.6
5	8.1	7.8	7.9	8.1	7.7	7.8	7.6	7.3	7.4	7.8	7.7	7.8
6	8.0	7.8	7.9	8.0	7.7	7.9	7.7	7.5	7.6	7.9	7.8	7.8
7	7.8	7.6	7.7	8.0	7.7	7.8	7.8	7.5	7.7	7.8	7.8	7.8
8	7.7	7.5	7.6	7.9	7.6	7.8	7.8	7.6	7.7	7.8	7.8	7.8
9	7.7	7.5	7.6	7.9	7.6	7.8	7.8	7.4	7.5	8.1	7.3	7.6
10	7.8	7.6	7.7	7.9	7.6	7.8	7.5	7.4	7.5	7.6	7.4	7.5
11	7.9	7.6	7.7	7.9	7.6	7.8	7.7	7.5	7.6	7.8	7.6	7.7
12	8.0	7.6	7.8	7.9	7.6	7.8	7.7	7.3	7.5	7.9	7.7	7.8
13	8.0	7.2	7.6	7.9	7.6	7.8	7.6	7.3	7.5	7.9	7.8	7.8
14	7.4	7.2	7.3	7.9	7.6	7.8	7.8	7.5	7.6	7.9	7.8	7.8
15	7.6	7.3	7.5	7.8	7.6	7.8	7.7	7.4	7.6	7.9	7.7	7.8
16	7.6	7.2	7.5	7.8	7.6	7.7	7.9	7.5	7.7	7.9	7.7	7.8
17	7.5	7.2	7.4	7.8	7.6	7.7	7.9	7.7	7.8	7.9	7.7	7.8
18	7.5	7.2	7.4	---	---	---	7.9	7.8	7.9	7.8	7.7	7.8
19	7.6	7.4	7.5	---	---	---	7.9	7.6	7.8	7.8	7.7	7.8
20	7.7	7.6	7.6	---	---	---	7.7	7.4	7.6	7.8	7.6	7.8
21	7.8	7.3	7.6	---	---	---	8.0	7.6	7.8	7.8	7.7	7.8
22	7.7	7.4	7.5	---	---	---	8.0	7.7	7.9	7.8	7.7	7.8
23	8.0	7.5	7.7	---	---	---	8.0	7.8	7.9	7.8	7.7	7.7
24	8.1	7.7	7.9	7.8	7.3	7.5	8.0	7.8	7.9	7.8	7.5	7.7
25	8.2	7.7	7.9	7.9	7.6	7.8	8.1	7.7	7.9	7.8	7.6	7.7
26	7.9	7.5	7.7	7.9	7.7	7.8	8.0	7.7	7.9	7.8	7.7	7.7
27	8.1	7.6	7.8	7.9	7.7	7.8	8.0	7.7	7.9	7.8	7.7	7.8
28	8.1	7.7	7.8	7.9	7.7	7.8	7.9	7.7	7.8	7.8	7.7	7.7
29	7.9	7.4	7.6	7.8	7.7	7.8	7.9	7.8	7.8	7.7	7.6	7.6
30	7.6	7.4	7.4	7.9	7.7	7.8	7.9	7.8	7.9	7.7	7.6	7.6
31	---	---	---	7.9	7.7	7.8	7.9	7.8	7.9	---	---	---
MONTH	8.2	7.2	7.7	8.1	7.3	7.8	8.1	7.2	7.7	8.1	7.3	7.7
YEAR	8.7	7.1	7.8									

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	1.0	.0	8.4	3.1
2	---	---	---	---	---	---	---	---	.3	.0	7.0	4.3
3	---	---	---	---	---	---	---	---	.3	.0	6.0	.9
4	---	---	---	---	---	---	---	---	.3	.0	8.4	1.7
5	---	---	---	---	---	---	---	---	.3	.0	10.4	7.0
6	---	---	---	---	---	---	---	---	.3	.0	10.1	7.5
7	---	---	---	---	---	---	---	---	.5	.0	7.5	3.9
8	---	---	---	---	---	---	---	---	4.4	.5	4.7	2.0
9	---	---	---	---	---	---	---	---	8.0	3.0	5.7	1.4
10	---	---	---	---	---	---	---	---	11.0	3.8	8.5	1.9
11	---	---	---	---	---	---	---	---	9.1	4.1	10.2	2.8
12	---	---	---	---	---	---	---	---	4.6	2.8	11.3	3.8
13	---	---	---	---	---	---	---	---	5.8	2.2	12.6	5.6
14	---	---	---	---	---	---	---	---	7.2	3.8	15.1	9.3
15	---	---	---	---	---	---	---	---	5.9	3.9	13.3	9.9
16	---	---	---	---	---	---	---	---	3.9	1.6	10.0	8.1
17	---	---	---	---	---	---	10.9	8.1	3.5	.3	13.1	8.4
18	---	---	---	---	---	---	12.1	7.9	4.9	.2	12.6	7.4
19	---	---	---	---	---	---	7.9	3.3	5.8	2.8	9.4	4.3
20	---	---	---	---	---	---	5.6	2.9	8.9	5.7	5.7	4.6
21	---	---	---	---	---	---	7.2	4.2	10.7	6.9	7.3	5.1
22	---	---	---	---	---	---	7.3	4.1	12.0	8.5	10.5	4.2
23	---	---	---	---	---	---	7.0	4.7	14.0	9.7	11.7	4.8
24	---	---	---	---	---	---	6.8	5.0	12.9	8.1	14.1	7.3
25	---	---	---	---	---	---	6.9	3.8	10.5	7.0	13.2	8.0
26	---	---	---	---	---	---	8.0	5.0	11.9	9.8	11.1	5.1
27	---	---	---	---	---	---	8.1	3.4	14.5	10.8	10.6	4.5
28	---	---	---	---	---	---	5.3	2.0	12.7	5.8	8.6	7.4
29	---	---	---	---	---	---	8.1	4.4	7.6	3.8	10.4	8.0
30	---	---	---	---	---	---	5.8	2.4	---	---	13.6	9.2
31	---	---	---	---	---	---	3.1	.4	---	---	12.2	9.6
MONTH	---	---	---	---	---	---	12.1	.4	14.5	.0	15.1	.9



## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGEAL PARKWAY AT JEFFERSONTOWN, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	11.7	7.3	16.8	11.0	19.2	16.0	26.6	24.6	22.8	19.0	23.8	21.2
2	13.8	6.9	18.3	11.2	17.8	16.6	25.9	22.4	23.6	19.8	24.3	22.0
3	---	---	20.9	14.2	21.2	16.6	23.7	19.9	25.3	19.9	23.3	22.2
4	---	---	18.3	10.9	19.2	15.8	23.7	18.4	25.7	21.2	23.2	22.3
5	9.2	7.1	21.0	15.0	21.6	14.8	23.9	19.1	26.2	22.6	24.4	22.1
6	12.3	6.1	17.6	15.4	21.1	17.0	24.9	19.9	26.9	24.0	24.7	21.9
7	11.5	5.4	17.6	14.6	20.8	18.2	25.8	22.2	27.0	25.0	24.6	21.7
8	9.4	7.1	18.9	16.3	19.7	17.1	24.2	21.6	26.9	23.4	24.8	21.0
9	9.4	4.8	20.9	15.4	19.5	16.6	24.3	20.9	24.9	21.3	24.7	21.9
10	14.0	4.6	21.2	16.4	20.6	16.5	23.4	19.6	23.9	20.5	24.6	21.4
11	16.6	6.9	18.9	13.8	19.1	16.7	23.0	19.7	23.5	21.0	23.9	20.4
12	20.1	11.5	15.6	12.1	20.1	16.9	25.0	20.9	23.4	20.6	23.5	20.2
13	17.1	12.1	13.3	11.6	20.5	16.7	24.9	22.8	23.6	20.9	20.2	17.4
14	14.1	10.3	17.0	9.9	22.8	17.3	25.0	21.1	24.0	21.5	17.7	15.4
15	13.4	9.9	15.7	13.8	23.5	18.3	23.1	21.0	23.9	22.3	17.5	15.2
16	13.3	8.1	18.0	15.0	23.1	18.6	25.9	19.8	24.0	22.3	19.8	17.1
17	16.9	7.2	21.9	15.4	24.6	18.9	25.5	20.6	23.8	22.3	19.2	17.6
18	18.5	10.2	23.8	17.0	23.6	19.9	26.4	22.7	24.6	22.3	19.9	16.2
19	18.8	14.2	24.7	18.4	24.6	20.2	25.6	23.3	25.9	23.5	20.2	15.6
20	17.0	13.9	24.5	19.2	24.1	19.6	25.1	22.6	26.4	23.8	20.4	15.8
21	19.5	12.2	22.0	19.5	25.9	19.7	25.8	21.1	24.6	23.2	20.2	17.6
22	18.8	14.2	22.6	16.8	25.8	20.7	24.2	21.2	26.6	22.1	20.6	16.3
23	15.5	11.5	22.9	16.7	26.6	21.5	25.1	20.0	27.4	23.3	20.7	16.0
24	16.9	9.8	25.7	19.1	25.5	21.7	26.3	20.6	24.2	22.6	20.2	18.2
25	17.4	12.4	23.5	18.6	23.5	20.3	25.0	21.7	24.5	19.7	18.2	15.6
26	14.8	10.9	21.5	18.7	22.5	18.5	24.2	20.3	24.1	20.6	19.6	16.4
27	17.0	8.8	19.9	18.5	23.9	18.0	24.0	20.5	24.1	22.6	19.7	18.6
28	14.1	11.9	19.8	17.1	25.2	20.0	23.8	21.0	23.5	20.9	18.6	15.7
29	16.5	11.9	---	---	25.7	21.8	23.9	21.3	23.7	22.1	19.0	14.9
30	14.4	11.1	---	---	26.4	23.0	22.0	20.6	23.9	22.0	19.8	14.7
31	---	---	20.1	14.2	---	---	24.3	20.6	23.6	21.0	---	---
MONTH	20.1	4.6	25.7	9.9	26.6	14.8	26.6	18.4	27.4	19.0	24.8	14.7
YEAR	27.4	.0										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	19.9	16.0	12.8	11.3	11.8	8.9	10.9	9.6	8.7	5.2	15.1	12.6
2	21.0	18.3	11.3	8.9	10.0	7.4	12.3	10.5	9.7	6.4	15.1	9.7
3	19.7	15.7	9.3	7.5	9.1	7.4	15.0	12.3	8.2	6.4	9.7	6.1
4	15.7	12.3	8.7	7.2	8.4	5.9	14.8	12.9	9.9	6.8	12.1	9.1
5	17.1	12.1	12.2	8.5	7.5	5.7	14.7	8.9	7.9	6.5	11.3	8.9
6	17.6	13.8	14.5	11.1	8.3	5.9	8.9	5.1	8.0	6.1	11.4	6.9
7	17.6	13.9	17.3	13.6	9.7	7.4	5.9	3.5	9.1	6.3	11.8	6.1
8	17.3	14.5	13.6	10.0	7.4	4.6	4.1	2.5	6.7	5.1	14.8	9.1
9	16.7	14.2	10.6	9.2	6.2	3.7	4.6	2.9	6.3	4.8	11.3	9.0
10	15.8	13.1	9.2	7.3	9.3	4.2	3.6	.4	6.4	4.7	13.4	8.2
11	14.9	11.8	7.4	5.9	12.6	9.3	.6	.3	6.4	4.6	14.1	7.4
12	15.1	11.1	7.7	4.9	12.1	10.5	.6	.3	5.6	3.8	13.7	8.2
13	16.2	12.6	7.0	5.7	10.7	8.3	.5	.2	3.8	2.2	10.7	8.4
14	17.9	14.3	6.8	5.3	9.7	6.7	.4	.2	5.7	3.5	12.0	6.7
15	18.1	15.7	6.4	3.4	10.3	6.9	1.3	.2	7.9	4.1	9.3	4.6
16	18.0	16.0	8.6	5.0	9.9	7.4	1.7	.2	6.3	3.8	10.4	3.9
17	18.9	15.4	11.2	8.0	8.0	6.9	.4	.2	8.4	2.4	8.2	6.6
18	18.6	13.6	11.3	8.7	7.7	5.2	.4	.2	11.0	4.8	9.5	7.8
19	14.2	11.3	9.2	7.1	5.2	2.6	.4	.2	10.2	8.2	13.2	8.1
20	13.5	10.0	8.7	7.1	3.8	1.6	1.5	.1	13.3	8.6	14.7	8.0
21	13.6	11.4	8.1	6.5	4.8	1.3	4.0	.8	13.5	11.6	16.6	8.9
22	16.5	13.6	7.1	5.4	7.0	4.5	6.3	4.0	11.7	5.4	13.8	10.1
23	16.3	12.3	7.7	4.1	10.7	7.0	6.7	4.3	9.8	3.3	12.8	7.5
24	14.2	11.9	9.9	7.2	10.1	5.5	5.7	2.0	9.7	4.8	12.9	6.9
25	13.7	11.9	10.4	8.6	6.4	4.9	6.2	3.2	9.9	4.6	13.1	9.9
26	15.5	12.7	9.9	6.8	7.3	4.9	4.0	2.5	10.1	6.4	14.7	8.7
27	17.5	15.5	8.0	5.4	9.3	7.2	5.4	2.3	12.9	9.8	16.1	8.0
28	18.0	16.2	8.0	4.9	13.2	9.3	5.7	3.8	13.9	7.8	14.5	10.8
29	16.6	14.6	8.0	4.5	13.6	10.2	6.4	2.8	---	---	13.7	11.2
30	16.9	15.7	11.1	8.0	10.2	8.2	6.8	3.3	---	---	11.8	9.6
31	15.7	12.6	---	---	10.9	9.5	8.5	4.6	---	---	14.0	8.1
MONTH	21.0	10.0	17.3	3.4	13.6	1.3	15.0	.1	13.9	2.2	16.6	3.9

SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGEAL PARKWAY AT JEFFERSONTOWN, KY--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.8	7.0	17.8	13.1	17.4	16.0	24.9	20.7	24.6	20.7	25.1	22.8
2	16.0	7.9	16.5	11.9	18.6	14.9	26.4	20.9	24.8	21.5	25.6	23.3
3	17.2	9.0	16.2	11.9	18.5	16.1	25.7	21.6	26.6	23.2	24.3	21.2
4	15.8	10.9	17.8	10.8	16.7	15.2	24.7	20.9	26.0	23.8	21.2	17.1
5	16.4	13.3	16.8	10.9	16.3	14.5	21.8	18.2	25.2	22.2	19.0	16.6
6	19.7	13.6	19.5	12.8	16.6	15.3	22.5	17.7	22.9	20.5	20.4	17.5
7	15.4	9.9	19.4	12.3	16.6	15.3	23.9	18.8	22.2	18.8	21.8	18.5
8	15.0	8.2	17.1	13.9	16.9	15.5	24.6	20.7	23.9	19.0	22.3	20.4
9	12.2	6.0	14.7	12.0	17.1	15.4	24.5	22.8	22.1	19.6	23.3	20.2
10	13.3	6.3	17.6	10.2	19.5	15.3	23.8	21.1	21.5	19.2	21.6	19.5
11	16.7	8.6	19.1	11.0	18.4	16.4	23.6	20.7	25.4	19.8	21.0	18.0
12	16.2	12.3	16.1	13.5	21.0	16.7	24.5	21.8	24.8	22.0	20.4	16.5
13	12.3	8.4	16.5	11.2	22.2	17.5	25.3	22.4	24.7	22.2	21.0	16.3
14	13.8	6.2	16.8	12.1	18.8	17.1	26.1	23.7	25.8	21.6	21.5	17.9
15	15.9	8.1	15.3	11.9	19.8	15.3	25.7	23.6	26.0	22.5	21.6	19.2
16	14.8	9.8	16.5	9.7	21.6	16.4	26.2	23.3	27.9	23.4	22.6	20.3
17	12.0	8.3	18.3	12.6	19.3	17.3	26.7	23.7	27.1	24.6	22.6	20.9
18	14.5	6.2	21.5	15.5	20.4	18.1	---	---	25.5	23.1	21.2	19.3
19	13.0	9.8	22.6	18.1	20.5	16.8	---	---	24.7	21.5	22.1	18.4
20	15.4	8.6	20.8	16.3	22.0	17.2	---	---	21.6	20.9	22.5	21.2
21	13.9	11.3	18.8	14.3	22.5	18.0	---	---	22.3	19.6	21.2	17.8
22	16.4	10.5	18.9	13.5	21.4	18.1	---	---	21.3	18.2	18.1	16.6
23	16.0	10.7	19.6	14.3	23.5	18.1	---	---	21.1	17.7	17.5	16.9
24	15.8	10.7	21.6	15.9	24.3	18.7	26.7	23.8	21.0	18.0	18.4	16.2
25	18.0	10.5	19.7	17.3	25.4	19.8	26.5	24.0	21.8	18.7	19.0	16.0
26	17.3	11.7	19.5	15.5	24.0	20.7	26.9	24.3	23.4	20.6	18.8	16.1
27	15.9	12.7	17.9	14.2	24.7	19.6	28.1	25.9	24.6	21.9	18.9	17.0
28	16.2	12.0	16.3	15.2	24.9	19.4	28.3	25.2	25.3	23.8	19.4	17.5
29	19.0	10.8	15.8	14.9	23.4	20.5	27.3	24.8	24.8	22.8	18.5	16.8
30	20.0	12.3	18.7	14.7	23.5	20.0	24.8	21.6	23.0	20.9	19.3	17.5
31	---	---	17.8	16.2	---	---	23.7	20.3	23.5	21.1	---	---
MONTH	20.0	6.0	22.6	9.7	25.4	14.5	28.3	17.7	27.9	17.7	25.6	16.0
YEAR	28.3	.1										

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	12.8	9.4	10.8
18	---	---	---	---	---	---	---	---	---	13.9	9.3	10.6
19	---	---	---	---	---	---	---	---	---	14.1	11.3	13.2
20	---	---	---	---	---	---	---	---	---	15.3	12.9	14.0
21	---	---	---	---	---	---	---	---	---	14.9	12.3	13.4
22	---	---	---	---	---	---	---	---	---	16.5	12.4	13.8
23	---	---	---	---	---	---	---	---	---	14.1	12.3	13.0
24	---	---	---	---	---	---	---	---	---	13.7	12.7	13.2
25	---	---	---	---	---	---	---	---	---	15.3	13.0	14.1
26	---	---	---	---	---	---	---	---	---	14.9	12.0	13.4
27	---	---	---	---	---	---	---	---	---	16.1	12.0	14.1
28	---	---	---	---	---	---	---	---	---	17.4	13.8	15.5
29	---	---	---	---	---	---	---	---	---	16.3	12.9	14.2
30	---	---	---	---	---	---	---	---	---	17.6	12.9	15.1
31	---	---	---	---	---	---	---	---	---	19.4	14.7	16.9
MONTH	---	---	---	---	---	---	---	---	---	19.4	9.3	13.7



## SALT RIVER BASIN

03298135 CHENOWETH RUN AT RUCKRIEGAL PARKWAY AT JEFFERSONTOWN, KY--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.5	8.9	10.0	---	---	---	11.1	8.3	10.1	13.7	9.9	11.2
2	13.4	8.8	10.6	---	---	---	12.7	9.5	11.6	12.3	9.6	10.6
3	12.0	6.3	10.0	---	---	---	13.2	9.7	11.6	14.1	9.1	10.7
4	11.6	6.0	9.4	---	---	---	14.4	10.0	12.6	11.9	9.0	9.9
5	12.3	6.4	10.0	11.5	9.4	10.5	13.5	10.7	12.0	11.3	9.1	10.4
6	11.7	8.0	9.8	10.6	8.3	9.1	14.1	10.5	12.1	13.6	10.8	12.1
7	11.3	8.1	9.7	10.8	7.5	9.1	13.5	9.2	11.3	14.5	12.2	13.1
8	11.8	8.1	9.7	11.1	8.7	9.7	14.1	9.3	12.1	15.4	12.6	13.8
9	11.4	7.4	9.5	10.5	8.4	9.4	15.5	10.6	13.0	13.3	11.3	12.5
10	10.2	7.2	8.7	9.9	5.9	8.7	15.3	8.8	12.1	15.4	11.3	12.9
11	10.6	7.0	8.6	11.6	7.3	9.3	13.6	8.0	10.3	16.1	11.6	13.3
12	10.6	7.9	9.1	14.6	6.9	10.7	10.7	7.9	10.2	16.1	12.1	13.5
13	10.1	7.7	8.9	13.5	8.6	10.7	12.8	9.8	11.3	16.3	12.2	13.7
14	9.6	7.4	8.5	15.0	7.8	11.4	13.4	10.3	11.9	16.2	12.3	13.6
15	9.0	7.0	8.0	16.2	7.5	12.9	15.0	10.0	12.4	15.2	11.7	13.0
16	9.0	6.7	7.9	16.3	10.6	13.4	12.5	9.4	11.5	13.7	11.4	12.3
17	10.0	6.5	8.1	13.7	10.7	11.9	12.2	10.5	11.7	14.8	11.6	12.7
18	9.1	6.1	7.8	15.4	10.0	12.2	13.5	9.7	11.6	15.3	12.0	13.2
19	7.7	3.7	6.6	17.7	9.9	13.5	13.4	11.2	12.2	14.2	11.9	12.7
20	8.3	3.5	5.8	18.0	9.8	13.8	14.9	11.4	13.0	15.8	11.9	13.3
21	7.3	3.8	5.4	14.1	9.7	12.3	15.3	10.7	13.4	15.4	11.6	13.3
22	11.1	3.8	6.7	13.2	9.7	11.1	12.4	10.1	11.2	11.9	10.6	11.2
23	8.8	4.9	7.1	14.5	9.7	12.1	12.0	9.3	10.4	12.4	10.5	11.2
24	---	---	---	13.9	8.7	10.9	11.2	10.0	10.7	12.5	10.4	11.3
25	---	---	---	11.2	9.1	10.3	12.5	11.2	11.7	12.2	10.8	11.4
26	---	---	---	12.1	8.4	10.9	12.7	10.6	11.5	13.5	11.4	12.2
27	---	---	---	13.8	9.5	12.1	12.1	10.3	11.0	12.5	10.5	11.5
28	---	---	---	14.2	10.0	12.2	12.1	8.9	10.4	12.9	11.5	12.3
29	---	---	---	15.1	10.0	12.5	12.1	8.9	10.1	13.5	11.5	12.4
30	---	---	---	11.5	8.5	10.6	13.5	10.0	11.2	13.5	10.9	12.2
31	---	---	---	---	---	---	12.6	10.0	10.7	13.5	10.3	11.7
MONTH	13.4	3.5	8.5	18.0	5.9	11.2	15.5	7.9	11.5	16.3	9.0	12.2
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.9	10.4	11.7	9.9	9.3	9.7	13.3	10.2	11.5	12.2	7.3	9.2
2	13.9	10.0	11.6	9.8	8.6	9.0	13.6	10.1	11.4	12.8	7.2	9.3
3	15.0	10.2	12.0	11.3	8.7	9.6	13.5	9.5	11.5	9.9	8.5	9.3
4	12.3	9.3	10.8	9.3	8.7	9.0	11.1	5.6	8.8	12.0	8.6	10.4
5	11.9	10.6	11.1	9.6	8.9	9.1	8.6	5.2	6.5	13.0	8.4	10.4
6	13.0	10.7	11.5	10.7	9.6	10.1	9.6	5.1	6.8	12.1	7.9	9.7
7	14.3	10.8	11.9	11.4	9.8	10.6	15.1	5.6	9.9	13.5	7.3	10.0
8	14.4	11.9	12.9	10.8	9.5	10.1	15.6	9.5	12.1	9.4	7.2	8.3
9	14.9	11.9	13.0	11.2	9.6	10.5	15.5	9.9	12.5	11.0	8.5	9.6
10	14.9	12.0	13.1	11.7	10.3	10.8	15.9	10.5	12.8	12.1	8.6	10.2
11	15.3	11.9	13.1	12.2	10.4	11.2	14.9	9.0	11.8	12.7	8.3	10.3
12	14.2	11.9	12.8	12.8	10.6	11.7	11.1	7.4	8.9	13.3	8.0	10.1
13	16.0	12.6	13.9	14.0	11.0	12.4	14.1	7.9	10.5	13.5	8.5	10.8
14	14.0	12.3	12.9	11.5	9.6	10.3	15.9	9.8	12.4	13.8	8.4	10.7
15	15.3	12.1	13.3	12.6	9.5	10.9	16.2	8.8	11.9	13.6	8.0	10.7
16	15.6	12.4	13.6	12.6	9.1	10.7	15.5	8.2	10.9	14.8	8.9	11.4
17	16.4	11.5	13.9	12.2	9.1	10.3	15.9	7.8	11.3	13.6	8.1	10.4
18	15.9	10.4	12.9	12.1	9.0	10.8	16.7	9.4	12.6	13.5	7.3	10.0
19	14.1	10.2	11.4	11.4	9.5	10.6	12.4	8.4	10.4	12.0	5.7	8.0
20	15.4	9.3	11.8	10.9	8.8	9.9	16.9	8.1	11.8	10.3	6.4	8.2
21	12.7	8.9	10.2	10.9	8.2	9.5	12.2	7.6	10.0	10.4	4.9	7.5
22	15.5	8.9	12.0	11.1	8.3	9.6	16.4	8.0	11.3	12.0	6.2	8.9
23	17.3	11.8	14.1	12.0	9.3	10.5	16.9	7.6	11.6	12.8	6.8	9.5
24	17.7	11.6	14.3	12.7	9.3	10.8	15.9	7.8	11.5	11.8	6.6	8.8
25	18.0	12.5	14.7	11.4	9.3	10.2	15.6	7.9	11.2	9.4	8.0	8.6
26	15.8	10.8	12.6	12.0	9.5	10.6	15.1	7.5	10.8	9.4	8.3	8.9
27	11.6	8.5	10.2	12.6	9.1	10.8	9.2	6.9	8.1	11.0	8.5	9.7
28	12.6	7.9	9.8	11.1	9.0	9.9	14.0	7.8	10.2	9.8	8.4	9.0
29	---	---	---	11.0	9.5	10.2	15.1	7.6	10.7	10.0	8.6	9.5
30	---	---	---	11.8	9.6	10.5	14.5	7.1	10.1	10.7	8.8	9.8
31	---	---	---	12.9	10.1	11.4	---	---	---	9.7	8.6	9.0
MONTH	18.0	7.9	12.4	14.0	8.2	10.4	16.9	5.1	10.7	14.8	4.9	9.6





## SALT RIVER BASIN

03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.3	3.7	149	12	19	1590	17	18	112	11	3.5	4.3
2	7.5	3.5	24	12	17	570	15	22	40	8.8	3.4	4.4
3	6.5	3.1	16	11	19	253	14	139	24	8.0	3.7	11
4	5.9	3.1	13	10	191	74	15	23	19	7.2	5.7	4.8
5	4.9	3.1	22	53	51	55	16	17	16	6.5	3.8	4.5
6	4.5	7.9	17	17	30	41	15	15	17	6.2	3.4	3.9
7	4.5	38	13	14	24	33	11	12	27	6.1	3.3	3.9
8	4.5	26	11	12	27	28	9.8	84	200	5.6	3.9	4.4
9	6.2	20	10	14	22	40	9.2	29	63	5.5	94	234
10	6.0	11	9.7	12	19	42	9.2	17	29	5.1	17	32
11	4.8	8.4	9.6	10	17	28	9.2	14	20	5.1	7.7	9.6
12	3.8	7.2	127	8.5	16	22	17	12	17	4.7	11	7.2
13	3.3	6.6	26	7.5	19	26	10	12	207	4.4	7.7	6.1
14	3.3	6.0	17	7.0	28	35	9.3	11	235	4.7	6.5	5.3
15	3.0	5.9	14	20	21	20	8.9	10	58	4.6	15	5.2
16	2.8	5.6	98	17	18	18	9.3	9.7	290	4.3	6.9	5.0
17	2.9	6.5	295	12	16	17	9.8	9.2	118	4.2	5.6	4.9
18	49	9.4	40	10.5	16	375	8.8	9.0	338	4.5	5.2	4.8
19	7.1	6.8	23	10	15	90	18	13	58	4.1	6.3	4.7
20	4.5	6.2	17	9.8	14	41	10	18	27	3.9	14	5.4
21	3.8	9.7	14	9.7	15	27	28	10	133	4.0	7.0	4.8
22	3.5	7.7	14	74	13	20	12	9.8	36	4.1	5.7	4.2
23	9.0	6.3	34	30	12	16	9.9	8.9	20	13	4.8	4.2
24	4.2	5.9	229	107	12	14	9.0	64	15	8.3	4.5	8.4
25	3.6	89	31	51	11	30	8.0	80	12	4.5	5.8	5.8
26	8.5	33	22	24	34	31	7.3	42	18	4.0	5.1	4.8
27	7.0	15	19	221	30	16	17	16	11	3.9	4.9	4.3
28	7.4	11	17	110	36	51	15	14	9.3	4.7	4.8	3.8
29	6.1	9.4	15	36	---	55	9.8	98	14	4.0	4.6	4.4
30	5.0	59	14	25	---	24	8.7	25	18	3.8	4.2	3.8
31	4.2	---	13	22	---	21	---	33	---	3.6	4.0	---
TOTAL	205.6	434.0	1373.3	989.0	762	3703	366.2	894.6	2201.3	172.4	283.0	413.9
MEAN	6.63	14.5	44.3	31.9	27.2	119	12.2	28.9	73.4	5.56	9.13	13.8
MAX	49	89	295	221	191	1590	28	139	338	13	94	234
MIN	2.8	3.1	9.6	7.0	11	14	7.3	8.9	9.3	3.6	3.3	3.8

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1997, BY WATER YEAR (WY)

	1996	1997	1996	1997	1996	1997	1996	1997	1996	1997	1996	1997
MEAN	6.63	14.5	44.3	39.4	24.3	82.4	35.5	52.1	51.1	10.3	7.84	14.3
MAX	6.63	14.5	44.3	65.1	27.2	119	58.8	75.3	73.4	15.1	9.13	14.8
(WY)	1997	1997	1996	1997	1997	1997	1996	1996	1997	1996	1997	1996
MIN	6.63	14.5	44.3	31.9	21.5	45.4	12.2	28.9	28.7	5.56	6.55	13.8
(WY)	1997	1997	1997	1997	1996	1996	1997	1997	1996	1997	1996	1997

## SUMMARY STATISTICS

FOR 1997 WATER YEAR

WATER YEARS 1996 - 1997

ANNUAL TOTAL	11798.3		
ANNUAL MEAN	32.3		33.2
HIGHEST ANNUAL MEAN			34.5
LOWEST ANNUAL MEAN			32.3
HIGHEST DAILY MEAN	1590	Mar 1	1590
LOWEST DAILY MEAN	2.8	Oct 16	2.8
ANNUAL SEVEN-DAY MINIMUM	3.4	Oct 11	3.4
INSTANTANEOUS PEAK FLOW	4810	Mar 2	4810
INSTANTANEOUS PEAK STAGE	14.72	Mar 2	14.72
10 PERCENT EXCEEDS	56		74
50 PERCENT EXCEEDS	12		13
90 PERCENT EXCEEDS	4.2		4.5

SALT RIVER BASIN

03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.6	16	34	9.2	7.1	9.5	31	69	19	15	9.1	4.0
2	3.5	7.6	15	8.5	7.2	9.1	19	33	12	10	6.5	3.9
3	3.4	5.8	27	8.1	6.9	9.2	11	29	9.6	8.2	5.9	3.9
4	2.9	5.0	21	7.8	8.0	9.4	15	22	16	11	5.4	3.6
5	2.4	4.2	13	20	12	9.6	11.5	17	20	9.3	5.1	3.5
6	2.2	4.3	11	241	16	8.7	10	14	12	7.5	6.2	3.4
7	2.6	4.3	10	273	20	8.4	8.6	40	9.3	136	68	3.6
8	3.0	4.2	10	148	24	86	10.5	22	9.6	50	52	4.2
9	2.9	3.9	11	44	28	132	14	17	37	17	27	3.6
10	3.2	4.2	84	24	45	30	12	14	105	12	12	3.4
11	3.0	4.0	18	18	227	19	10	12	53	10	8.9	3.6
12	2.9	4.1	11	18	110	16	8.8	11	54	9.0	7.5	3.3
13	4.5	28	9.0	17	49	14	8.0	9.4	81	8.8	6.7	3.4
14	9.7	14	8.0	14	31	12	20	8.9	36	11	6.3	3.4
15	3.2	6.7	7.5	13	25	11	68	8.8	27	88	5.8	3.8
16	2.8	5.4	7.0	11	40	9.9	191	8.0	18	20	5.5	3.8
17	2.8	4.8	6.8	11	43	10	92	7.2	14	12	5.4	3.9
18	2.6	4.4	6.6	10	44	23	37	6.9	12	8.7	5.2	4.2
19	2.6	4.5	6.7	9.9	27	13	67	6.5	35	7.5	5.0	4.2
20	3.1	4.2	6.1	9.1	21	298	51	22	13	31	4.6	4.0
21	3.0	12	5.7	8.6	16	78	34	8.0	128	11	4.4	4.9
22	3.1	11	35	9.6	14	38	26	56	58	7.8	4.2	5.4
23	3.2	6.5	12	17	14	25	21	236	103	7.0	4.1	4.6
24	11	5.4	88	11	12	19	18	45	29	6.4	4.3	4.6
25	7.0	4.9	41	9.9	11	26	14	25	18	5.6	4.5	4.6
26	6.0	4.7	16	9.3	11	18	13	17	14	5.1	8.0	4.5
27	4.8	4.3	12	8.8	13	15	36	35	12	5.4	4.7	4.3
28	3.5	4.1	10	8.4	10	14	15	16	10	5.1	4.3	4.5
29	3.2	4.3	10	8.2	---	13	109	13	14	4.8	5.7	5.2
30	3.1	105	11	7.6	---	12	218	11	54	60	4.2	6.4
31	3.2	---	8.8	7.3	---	18	---	35	---	25	4.1	---
TOTAL	118.0	301.8	572.2	1020.3	892.2	1013.8	1199.4	874.7	1032.5	625.2	310.6	123.7
MEAN	3.81	10.1	18.5	32.9	31.9	32.7	40.0	28.2	34.4	20.2	10.0	4.12
MAX	11	105	88	273	227	298	218	236	128	136	68	6.4
MIN	2.2	3.9	5.7	7.3	6.9	8.4	8.0	6.5	9.3	4.8	4.1	3.3

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	1996	1997	1998	1996	1997	1998	1996	1997	1998	1996	1997	1998
MEAN	5.22	12.3	31.4	36.6	26.8	65.9	37.0	44.1	45.5	13.6	8.56	10.9
MAX	6.63	14.5	44.3	65.1	31.9	119	58.8	75.3	73.4	20.2	10.0	14.8
(WY)	1997	1997	1997	1996	1998	1997	1996	1996	1998	1998	1998	1996
MIN	3.81	10.1	18.5	31.9	21.5	32.7	12.2	28.2	28.7	5.56	6.55	4.12
(WY)	1998	1998	1998	1997	1996	1998	1997	1998	1996	1997	1996	1998

SUMMARY STATISTICS FOR 1997 CALENDAR YEAR FOR 1998 WATER YEAR WATER YEARS 1996 - 1998

ANNUAL TOTAL	10777.4	8084.4	
ANNUAL MEAN	29.5	22.1	29.1
HIGHEST ANNUAL MEAN			34.5
LOWEST ANNUAL MEAN			22.1
HIGHEST DAILY MEAN	1590	Mar 1	1590
LOWEST DAILY MEAN	2.2	Oct 6	2.2
ANNUAL SEVEN-DAY MINIMUM	2.7	Oct 4	2.7
INSTANTANEOUS PEAK FLOW			1320
INSTANTANEOUS PEAK STAGE			8.21
10 PERCENT EXCEEDS	51		62
50 PERCENT EXCEEDS	10		11
90 PERCENT EXCEEDS	3.9		4.2



## SALT RIVER BASIN

03298150 CHENOWETH RUN AT GELHAUS LANE NEAR FERN CREEK, KY--Continued

## WATER-QUALITY RECORDS

LOCATION.--Lat 38°09'36", long 85°32'32", Jefferson County, Hydrologic Unit 05140102, at bridge on Gelhaus Lane, 100 ft above Razor Branch, and at mile 2.3.

DRAINAGE AREA.--11.6 mi<sup>2</sup>.

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

COOPERATION.--Field determinations were made in cooperation with Louisville and Jefferson County Metropolitan Sewer District personnel.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1996 to October 1997.

pH: January 1996 to October 1997.

WATER TEMPERATURE: January 1996 to October 1997.

DISSOLVED OXYGEN: January 1996 to October 1997.

EXTREMES OF PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 1440 microsiemens, Feb. 14, 1997; minimum, 68 microsiemens, July 29, 1996.

pH: Maximum, 10.3 units, April 12, 1996; minimum, 7.1 units, Feb. 6, 1996, Sept. 7-8, 1996, and May 23, 1997.

WATER TEMPERATURE: Maximum, 32.3° C, July 27, 1997; minimum, 0.0° C, Jan. 31, 1996, Feb. 1, 2, 5-7, 1996, and Jan. 15-19, 1997.

DISSOLVED OXYGEN: Maximum, 20.6 mg/L, March 4, 1996; minimum, 3.2 mg/L, Sept. 8, 1997.

## WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	OXYGEN, DIS- SOLVED (MG/L) (00300)
DEC						
03...	1205	13	668	8.3	9.5	12.7
JAN						
08...	1030	133	409	7.9	12.0	9.7
FEB						
17...	1220	39	565	8.6	10.0	12.6
MAR						
05...	1200	9.4	622	9.0	7.0	17.6
APR						
22...	0940	22	571	8.0	12.5	10.8
MAY						
14...	1155	9.4	610	8.7	23.5	14.6
JUN						
11...	1025	41	476	8.0	20.5	8.7
JUL						
09...	0840	18	571	8.3	24.0	8.9
AUG						
13...	1205	8.0	619	8.8	21.0	12.4