

WHITE RIVER BASIN

07050150 ROARING RIVER SPRING NEAR CASSVILLE, MO

(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°35'30", long 93°50'00", in SE 1/4 NE 1/4 sec.27, T.22 N., R.27 W., Barry County, Hydrologic Unit 11010001. Sample at outlet of spring in Roaring River State Park.

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

REMARKS.--Previously sampled downstream from spring and published as "Roaring River at Roaring River State Park" (07050152) from November 1991 to October 1993.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPERATURE WATER (DEG C) (00010)	SPECIFIC CONDUCTANCE (µS/cm) (00095)	PH WHOLE FIELD (STANDARD UNITS) (00400)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED SATURATION (00301)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	COLIFORM, FECCAL, 0.7 µm-MF (COLS./100 mL) (31625)	STREPTOCOCCI, KF AGAR PER 100 mL) (31673)	ALKALINITY WAT TOT FIELD (mg/L as CaCO <sub>3</sub> ) (00410)
NOV 1996	07...	140	14.0	339	7.24	8.90	87	--	82	58	169
JAN 1997	08...	42	13.5	308	7.03	7.10	67	<10	32	12	106
MAR	05...	100	13.0	290	6.92	9.00	86	--	54	210	125
APR	14...	72	13.5	311	7.25	8.80	83	--	32	K13	132
JUN	25...	28	14.0	332	7.19	8.00	77	<5	--	125	142
AUG	12...	34	14.0	339	6.88	7.80	76	--	240	345	146

DATE	BICARBONATE WATER FIELD (mg/L as HCO <sub>3</sub> ) (00450)	CARBONATE WATER FIELD (mg/L as CO <sub>3</sub> ) (00447)	NITROGEN, NO <sub>2</sub> +NO <sub>3</sub> TOTAL (mg/L as N) (00630)	NITROGEN, NITRITE TOTAL (mg/L as N) (00615)	NITROGEN, AMMONIA TOTAL (mg/L as N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOSPHORUS TOTAL (mg/L as P) (00665)	PHOSPHORUS ORTHO TOTAL (mg/L as P) (70507)	HARDNESS TOTAL (mg/L as CaCO <sub>3</sub> ) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
NOV 1996	206	0	2.70	<0.010	<0.010	<0.20	<0.020	0.020	--	--
JAN 1997	130	0	2.80	<0.010	0.010	<0.20	<0.020	0.020	160	59
MAR	152	0	2.40	<0.010	<0.010	<0.20	0.060	0.020	--	--
APR	162	0	2.40	<0.010	0.020	<0.20	0.020	<0.010	--	--
JUN	174	0	2.60	<0.010	0.020	<0.20	<0.020	0.020	160	61
AUG	178	0	2.60	<0.010	<0.010	<0.20	0.030	0.020	--	--

DATE	MAGNESIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTASSIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE, DIS-SOLVED (mg/L as SO <sub>4</sub> ) (00945)	CHLORIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUORIDE, DIS-SOLVED (mg/L as F) (00950)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (mg/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (mg/L) (00530)	ALUMINUM, TOTAL RECOVERABLE (µg/L as Al) (01105)	ALUMINUM, DIS-SOLVED (µg/L as Al) (01106)
JAN 1997	2.0	4.4	1.4	3.7	32	<0.10	260	<1	40	7.8
JUN	2.6	3.8	1.2	3.6	7.0	<0.10	204	4	30	3.2

DATE	CADMIUM TOTAL RECOVERABLE (µg/L as Cd) (01027)	CADMIUM, DIS-SOLVED (µg/L as Cd) (01025)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, TOTAL RECOVERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGANESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY, RECOVERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN 1997	<1	<1.0	1.1	10	3	1.0	2.6	<0.10	9	7.7
JUN	<1	<1.0	<1.0	<1.0	<1	<1.0	0.80	<0.10	4	5.3

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