07069200 MAMMOTH SPRING AT MAMMOTH SPRING, AR
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 36°29'43", long 91°32'05", in NE 1/4 NW 1/4 sec.8, T.21 N., R.5 W., Clinton County, Hydrologic Unit 11010010. Spring is located in park.

PERIOD OF RECORD.--November 1993 to present.

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

DATE	TIME	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (µS/cm) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (mg/L) (00340)	COLI-FORM, FECAL, 0.7 µm-MF (COLS./ 100 mL) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 mL) (31673)	ALKA-LINITY WAT WH TOT FET FIELD (mg/L as $CaCO_3$) (00410)
DEC											
05...	0650	230	14.5	444	7.3	6.9	67	--	22	24	234
JAN											
31...	0755	335	14.0	324	7.5	7.1	70	44	K400	K830	153
MAR											
06...	0632	259	14.5	438	7.3	6.9	68	--	K12	K17	226
APR											
03...	1300	363	14.5	423	7.6	6.8	66	--	150	130	206
JUN											
12...	0720	403	14.5	392	7.2	7.6	76	<10	59	160	194
AUG											
27...	1255	279	15.0	416	7.3	7.4	74	--	30	53	222

DATE	BICAR-BONATE WATER WH IT FIELD (mg/L as HCO_3) (00450)	CAR-BONATE WATER WH IT FIELD (mg/L as CO_3) (00447)	NITRO-GEN, NO_2+NO_3 TOTAL (mg/L as N) (00630)	NITRO-GEN, NITRITE TOTAL (mg/L as N) (00615)	NITRO-GEN, AMMONIA TOTAL (mg/L as N) (00610)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS-PHORUS TOTAL (mg/L as P) (00665)	PHOS-PHORUS ORTHO TOTAL (mg/L as P) (70507)	HARD-NESS TOTAL (mg/L as $CaCO_3$) (00900)	CALCIUM DIS-SOLVED (mg/L as Ca) (00915)
DEC										
05...	289	0	0.810	<0.010	0.010	<0.20	0.040	0.020	--	--
JAN										
31...	186	0	1.20	0.010	0.020	<0.20	<0.020	0.020	220	45
MAR										
06...	278	0	0.920	<0.010	0.020	<0.20	0.050	0.020	--	--
APR										
03...	251	0	0.980	<0.010	0.010	<0.20	0.040	0.030	--	--
JUN										
12...	238	0	1.30	<0.010	<0.010	<0.20	<0.020	0.030	210	44
AUG										
27...	272	0	0.990	<0.010	<0.010	<0.20	<0.020	0.020	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (mg/L as Mg) (00925)	SODIUM, DIS-SOLVED (mg/L as Na) (00930)	POTAS-SIUM, DIS-SOLVED (mg/L as K) (00935)	SULFATE DIS-SOLVED (mg/L as SO_4) (00945)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl) (00940)	FLUO-RIDE, 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)	ALUM-INUM, TOTAL RECOV-ERABLE (µg/L as Al) (01105)	ALUM-INUM, DIS-SOLVED (µg/L as Al) (01106)
JAN										
31...	25	2.4	1.5	3.7	6.0	<0.10	222	2	190	<20
JUN										
12...	24	2.1	1.7	2.8	4.0	<0.10	282	5	70	4.0

DATE	CADMIUM TOTAL RECOV-ERABLE (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 RECOV-ERABLE (µg/L as Pb) (01051)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGA-NESE, DIS-SOLVED (µg/L as Mn) (01056)	MERCURY TOTAL RECOV-ERABLE (µg/L as Hg) (71900)	ZINC, TOTAL RECOV-ERABLE (µg/L as Zn) (01092)	ZINC, DIS-SOLVED (µg/L as Zn) (01090)
JAN										
31...	<1	<1.0	<1.0	<3.0	2	<1.0	<1.0	<0.10	5	<4.0
JUN										
12...	<1	<1.0	<1.0	2.0	<1	<1.0	0.60	<0.10	2	1.4

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