

WHITE RIVER BASIN

07066110 JACKS FORK ABOVE TWO RIVERS
(Ambient water-quality monitoring network)

WATER-QUALITY RECORDS

LOCATION.--Lat 37°10'22", long 91°18'00", in NE 1/4 NW 1/4 sec.20, T.29 N., R.3 W., Shannon County, Hydrologic Unit 11010008, at Shawnee Campground, 4.5 mi downstream from the Eminence sewage disposal pond.

DRAINAGE AREA.--425 mi².

PERIOD OF RECORD.--April 1973 to current year.

REMARKS.--Ozark National Scenic Riverways station since April 1973 and ambient water-quality monitoring network station since November 1993. October and May data are located in the partial records section of this report.

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

| DATE | TIME | DIS-CHARGE, INST. FEET PER SECOND (00061) | TEMPERATURE WATER (DEG C) (00010) | SPECIFIC CONDUCTANCE (µS/cm) (00095) | PH WATER WHOLE FIELD (STANDARD UNITS) (00400) | OXYGEN, DIS-SOLVED (mg/L) (00300) | OXYGEN, DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00301) | COLIFORMS, MF (COLS./100 mL) (31625) | STREPTOCOCCI, FECAL, PER (COLS./100 mL) (31673) | ALKALINITY, TOT FET FIELD (mg/L as CaCO ₃) (00410) | | |
|----------|-------|-------------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------------------|-----------------------------------|------------------------------------------------------|--------------------------------------|-------------------------------------------------|----------------------------------------------------------------|-----|-----|
| NOV 1996 | 06... | 1330 | 120 | 15.0 | 348 | 8.18 | 11.2 | 111 | -- | 24 | K12 | 177 |
| JAN 1997 | 21... | 1045 | 300 | 7.0 | 342 | 7.96 | 11.6 | 95 | <10 | K11 | 24 | 173 |
| MAR | 26... | 0845 | 370 | 10.5 | 264 | 7.53 | 12.1 | 106 | -- | 46 | K16 | 134 |
| APR | 07... | 1240 | 3200 | 12.5 | 223 | 7.40 | 10.8 | 100 | -- | 102 | 80 | 104 |
| JUN | 10... | 1015 | 410 | 16.5 | 270 | 7.78 | 9.0 | 93 | <5 | 235 | 300 | 134 |
| AUG | 05... | 1045 | 230 | 21.5 | 324 | 7.24 | 9.6 | 106 | -- | 110 | 128 | 163 |

| DATE | BICARBONATE WATER WH IT FIELD (mg/L as HCO ₃) (00450) | CARBONATE WATER WH IT FIELD (mg/L as CO ₃) (00447) | NITROGEN, NO ₂ +NO ₃ 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 ₃) (00900) | CALCIUM DIS-SOLVED (mg/L as Ca) (00915) | |
|----------|-------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------------------------------------|--------------------------------------|--------------------------------------------|-----------------------------------------------------|-----------------------------------------|----|
| NOV 1996 | 06... | 216 | 0 | 0.340 | <0.010 | <0.010 | 0.20 | <0.020 | <0.010 | -- | -- |
| JAN 1997 | 21... | 211 | 0 | 0.430 | <0.010 | 0.020 | <0.20 | <0.020 | <0.010 | 180 | 36 |
| MAR | 26... | 163 | 0 | 0.290 | <0.010 | 0.010 | <0.20 | <0.020 | 0.020 | -- | -- |
| APR | 07... | 127 | 0 | 0.260 | <0.010 | 0.010 | <0.20 | 0.030 | 0.010 | -- | -- |
| JUN | 10... | 164 | 0 | 0.240 | <0.010 | 0.020 | 0.25 | <0.020 | <0.010 | 150 | 32 |
| AUG | 05... | 199 | 0 | 0.370 | <0.010 | 0.020 | <0.20 | <0.020 | <0.010 | -- | -- |

| 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 ₄) (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 | 21... | 21 | 1.4 | 1.0 | 3.7 | 3.6 | <0.10 | 174 | <1 | 20 | 7 |
| JUN | 10... | 18 | 1.2 | 1.0 | 3.1 | 2.1 | <0.10 | 142 | 4 | 110 | 17 |

| 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 TOTAL RECOVERABLE (µg/L as Hg) (71900) | ZINC, TOTAL RECOVERABLE (µg/L as Zn) (01092) | ZINC, DIS-SOLVED (µg/L as Zn) (01090) | |
|----------|------------------------------------------------|------------------------------------------|-----------------------------------------|---------------------------------------|----------------------------------------------|---------------------------------------|--------------------------------------------|------------------------------------------------|----------------------------------------------|---------------------------------------|------|
| JAN 1997 | 21... | <1 | <1.0 | <1.0 | 8 | <1 | <1.0 | 1.7 | <0.10 | 1 | 1.7 |
| JUN | 10... | <1 | <1.0 | <1.0 | 10 | <1 | <1.0 | 4.3 | <0.10 | <1 | <1.0 |

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