

COUNTY REPORT  
OF  
ENDANGERED, THREATENED, AND SPECIAL CONCERN  
PLANTS, ANIMALS, AND NATURAL COMMUNITIES  
OF  
KENTUCKY

KENTUCKY STATE NATURE PRESERVES COMMISSION  
801 SCHENKEL LANE  
FRANKFORT, KY 40601  
(502) 573-2886 (phone)  
(502) 573-2355 (fax)

[www.kynaturepreserves.org](http://www.kynaturepreserves.org)

## Kentucky State Nature Preserves Commission Key for County List Report

The attached report lists endangered, threatened, special concern, and historic plants, animals, and natural communities (elements) reported from each county in Kentucky. Within a county, elements are arranged first by taxonomic complexity (plants first, natural communities last), and second by scientific name. A key to status, ranks, and count data fields follows.

|               |  |  |                     |                           |                |
|---------------|--|--|---------------------|---------------------------|----------------|
| <b>STATUS</b> | KSNPC:                                 | Kentucky State Nature Preserves Commission status: | S = special concern | H = historic              | X = extirpated |
|               | N or blank                             | = none   | E = endangered      | T = threatened            |                |
| <u>USES:</u>  | U.S. Fish and Wildlife Service status: |  |                     |                           |                |
|               | N or blank                             | = none   | C = candidate       |                           |                |
|               | LE                                     | = listed as endangered                             |                     | LT = listed as threatened |                |

LTNL = Listed Threatened in part of its range, but is not listed in Kentucky (Copperbelly water snake has a special conservation agreement in 14 Kentucky counties as an alternative to Federal Listing.)

|              |                |  |  |                  |   |                                  |  |              |
|--------------|----------------|--|--|------------------|---|----------------------------------|--|--------------|
| <b>RANKS</b> | <u>G RANK:</u> | Estimate of element abundance on a global scale:   | G1 = extremely rare                          | G2 = rare        | G3 = uncommon   | G4 = common                      | G5 = very common                                   | GX = extinct |
|              |                |  | GU = uncertain                               |                  | GH = historically known and expected to be rediscovered |                                  |  |              |
|              |                | Subspecies and variety abundances are coded with a 'T' suffix; the 'G?' portion of the rank then refers to the entire species. |  |                  |   |                                  |  |              |
|              | <u>SRANK:</u>  | Estimate of element abundance in Kentucky:   | S1 = extremely rare                          | S2 = rare        | S3 = uncommon   | SA = accidental                  | SR = reported but without persuasive documentation |              |
|              |                |  | S4 = many occurrences                        | S5 = very common | SU = uncertain  | SX = extirpated                  | S#N = non-breeding rank for non-resident species   |              |
|              |                |  | SRF = reported falsely in literature         |                  |   | SH = historically known in state |  |              |
|              |                |  | SE = exotic                                  | ?                | ?   |                                  |  |              |
|              |                |  | SZ = not of significant conservation concern |                  |   |                                  |  |              |
|              |                |  | S#B - breeding rank for non-resident species |                  |   |                                  |  |              |

## COUNT DATA FIELDS

**# OF OCCURRENCES:** Number of occurrences of a particular element from a county. Column headings are as follows:

- E - currently reported from the county
- H - reported from the county but not seen since 1980 (at least 20 years)
- F - reported from county & cannot be relocated but for which further inventory is needed (previously reported as "O")
- X - known to have extirpated from the county
- U - reported from a county but cannot be mapped to a quadrangle or exact location.

The data from which the county report is generated is continually updated. The date on which the report was created is in the report footer. Contact KSNPC for a current copy of the report, which is produced in this form annually.

Please note that the quantity and quality of data collected by the Kentucky Natural Heritage Program are dependent on the research and observations of many individuals and organizations. In most cases, this information is not the result of comprehensive or site-specific field surveys; many natural areas in Kentucky have never been thoroughly surveyed, and new species of plants and animals are still being discovered. For these reasons, the Kentucky Natural Heritage Program cannot provide a definitive statement on the presence, absence, or condition of biological elements in any part of Kentucky. Heritage reports summarize the existing information known to the Kentucky Natural Heritage Program at the time of the request regarding the biological elements or locations in question. They should never be regarded as final statements on the elements or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

KSNPC appreciates the submission of any endangered species data for Kentucky from field observations. For information on data reporting or other data services provided by KSNPC, please contact the Data Manager at:

KY State Nature Preserves Commission  
801 Schenkel Lane  
Frankfort, KY 40601  
phone: (502) 573-2886  
fax: (502) 573-2355

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| County    | Taxonomic Group | Scientific name                               | Common name   | Statuses | Ranks       | # of Occurrences |   |   |
|-----------|-----------------|---|---|----------|-------------|------------------|---|---|
|           | HABITAT         |   |   | E        | H           | F                | X | U |
| McCracken | PLANTS          | <i>AESCULUS PAVIA</i>                         | RED BUCKEYE   | T        | G5/S2S3     | 0                | 1 | 0 |
| McCracken | PLANTS          | <i>ASTER DRUMMONDI VAR TEXANUS</i>            | TEXAS ASTER   | T        | G5T?S2      | 0                | 0 | 0 |
| McCracken | PLANTS          | <i>BAPTISIA BRACTEATA VAR LEUCOPHAEA</i>      | CREAM WILD INDIGO   | S        | G4G5T4T5/S3 | 2                | 0 | 0 |
| McCracken | PLANTS          | <i>CAREX HYSTERICINA</i>                      | PORCUPINE SEDGE   | H        | G5/SH       | 0                | 1 | 0 |
| McCracken | PLANTS          | <i>CARYA AQUATICA</i>                         | WATER HICKORY   | T        | G5/S2S3     | 1                | 0 | 0 |
| McCracken | PLANTS          | <i>HALESIA TETRAPTERA</i>                     | MOUNTAIN SILVER-BELL  | E        | G5/S1S2     | 2                | 0 | 0 |
| McCracken | PLANTS          | <i>HETEROTHECA SUBAXILLARIS VAR LATIFOLIA</i> | BROAD-LEAF GOLDEN-ASTER   | T        | G5T/S2      | 1                | 0 | 0 |
| McCracken | PLANTS          | <i>HYDROLEA UNIFLORA</i>                      | ONE-FLOWER FIDDLELEAF   | S        | G5/S3?      | 0                | 1 | 0 |
| McCracken | PLANTS          | <i>HYPERICUM ADPRESSUM</i>                    | CREEPING ST. JOHN'S-WORT  | H        | G2G3/SH     | 0                | 0 | 0 |
| McCracken | PLANTS          | <i>LATHYRUS PALUSTRIS</i>                     | VETCHLING PEAVINE   | T        | G5/S2       | 0                | 0 | 0 |
| McCracken | PLANTS          | <i>LESPEDEZA STUEVII</i>                      | TALL BUSH-CLOVER  | S        | G4?/S3?     | 0                | 1 | 0 |
| McCracken | PLANTS          | <i>LILIUM SUPERBUM</i>                        | TURK'S CAP LILY   | T        | G5/S1S2     | 0                | 0 | 0 |
| McCracken | PLANTS          | <i>MALUS ANGUSTIFOLIA</i>                     | SOUTHERN CRABAPPLE  | S        | G5?/S3      | 0                | 1 | 0 |
| McCracken | PLANTS          | <i>MELANTHERA NIVEA</i>                       | SNOW MELANTHERA   | S        | G5/S3?      | 1                | 0 | 0 |
| McCracken | PLANTS          | <i>MUHLENBERGIA GLABRIFLORIS</i>              | HAIR GRASS  | S        | G4?/S2S3    | 0                | 1 | 0 |
| McCracken | PLANTS          | <i>PRENANthes ASPERA</i>                      | ROUGH RATTLESNAKE-ROOT  | E        | G4?/S1      | 1                | 1 | 0 |
| McCracken | PLANTS          | <i>RUDBECKIA SUBTomentosa</i>                 | DRY PRAIRIES AND BARRENS, LIMESTONE GLADES, DRY, OPEN ROCKY WOODS. USUALLY IN ACID SOILS. | E        | G5/S1       | 1                | 0 | 1 |
| McCracken | PLANTS          | <i>SILPHIUM LACINIATUM VAR ROBINSONII</i>     | SWEET CONEFLOWER  | E        | G5T?S2      | 5                | 0 | 0 |
| McCracken | PLANTS          | <i>SOLIDAGO BUCKLEYI</i>                      | COMPASS PLANT   | T        | G4/S2S3     | 0                | 1 | 0 |
|           |                 |   | BUCKLEY'S GOLDENROD   | S        |             |                  |   |   |

Data Current as of June 2002

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|-----------|-----------------|---------------------------------------|-----------------------|----------|-------------|------------------|--|---|---|---|
|           |                 |                                       |                       |          |             |                  | E  | H | F | X |
| McCracken | GASTROPODS      | <i>LEPTOXIS PRAESEA</i>               | ONYX ROCKSNAIL        | S        | G5/S4       | 0 1 0 0 0        | CALL (1885) INDICATED THAT IN THE OHIO RIVER AT THE FALLS IT OCCURRED IN THE GREATEST PROFUSION WHERE THE BOTTOM IS CLEAN ROCK OR ROCK WITH ABUNDANT CONFERVOID VEGETATION."   |   |   |   |
| McCracken | GASTROPODS      | <i>LITHASIA ARMIGERA</i>              | ARMORED ROCKSNAIL     | S        | G3/G4/S3/S4 | 0 0 0 0 1        | BARS AND POOLS WITH SAND, GRAVEL, AND ROCK SUBSTRATES (KNPO), SLOPING ROCK OUTCROPS WITH POCKETS OF SAND, GRAVEL AND MUD, PARTIALLY BURIED LOGS, AND ROCK RIPRAP (SICKEL 1988).  |   |   |   |
| McCracken | GASTROPODS      | <i>LITHASIA GENICULATA</i>            | ORNATE ROCKSNAIL      | S        | G3/G4/S1    | 0 3 0 0 0        | OBSERVATIONS ON THE HABITAT INCLUDE SPECIMENS TAKEN FROM RECENTLY EXPOSED BARS AND POOLS WITH SAND, GRAVEL, AND ROCK SUBSTRATES (HAG AND PALMER-BALL, PERS COMM.).   |   |   |   |
| McCracken | BIVALVES        | <i>FUSCONAIJA SUBROTUNDA</i>          | LONGSOLID             | S        | G3/T3/S3    | 0 1 0 0 0        | GRAVEL BARS AND DEEP POOLS IN LARGE RIVERS AND LARGE TO MEDIUM-SIZED STREAMS (AHLSTEDT 1984, GOODRICH AND VAN DER SCHALIE 1944, NEEL AND ALLEN 1964, PARMALEE 1967).   |   |   |   |
| McCracken | BIVALVES        | <i>LAMPSILIS ABRUPTA</i>              | PINK MILKET           | E/L/E    | G2/S1       | 2 3 1 0 0        | LARGE RIVERS IN HABITATS RANGING FROM SILT TO BOULDERS, BUT APPARENTLY MORE COMMONLY FROM GRAVEL AND COBBLE, COLLECTED FROM SHALLOW AND DEEP WATER WITH CURRENT VELOCITY RANGING FROM ZERO TO SWIFT (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, BUCHANAN 1980). B   |   |   |   |
| McCracken | BIVALVES        | <i>LAMPSILIS OVATA</i>                | POCKETBOOK            | E        | G5/S1       | 0 3 0 0 0        | CONSIDERED A LARGE RIVER SPECIES (CLELCH AND VAN DER SCHALIE 1944, PARMALEE 1967, STANSBERRY 1976), BUT OCCURS IN MEDIUM-SIZED STREAMS IN GRAVEL, SAND, OR EVEN MUD (PARMALEE 1967, JOHNSON 1970, GORDON AND LAZER 1989). IN THE LOWER WABASH AND OHIO RIVERS    |   |   |   |
| McCracken | BIVALVES        | <i>OBOVARIA RETUSA</i>                | RING PINK             | E/L/E    | G1/S1       | 0 1 0 1 0        | LARGE RIVER SPECIES THAT INHABITS GRAVEL AND SAND BARS (BOGAN AND PARMALEE 1983, GOODRICH AND VAN DER SCHALIE 1944, NEEL AND ALLEN 1964, STANSBERRY 1976).   |   |   |   |
| McCracken | BIVALVES        | <i>PLETHOBASUS COOPERIANUS</i>        | ORANGEFOOT PIMPLEBACK | E/L/E    | G1/S1       | 4 2 2 0 0        | USUALLY FOUND IN LARGE RIVERS IN SAND AND GRAVEL SUBSTRATES (AHLSTEDT 1983, BOGAN AND PARMALEE 1983, MILLER, A.C. ET AL. 1986).  |   |   |   |
| McCracken | BIVALVES        | <i>PLETHOBASUS CYPHUS</i>             | SHEEPNOSE             | S        | G3/S3       | 3 5 1 0 0        | USUALLY FOUND IN LARGE RIVERS IN CURRENT ON MUD, SAND, OR GRAVEL BOTTOMS AT DEPTH OF 1-2 METERS OR MORE (BAKER 1928, PARMALEE 1967, GORDON AND LAZER 1989).  |   |   |   |
| McCracken | BIVALVES        | <i>PLEUROBEMA RUBRUM</i>              | PYRAMID PIGTOE        | E        | G2/S1       | 0 1 0 0 0        | INHABITS MEDIUM TO LARGE RIVERS AND USUALLY OCCURS IN SAND OR GRAVEL BOTTOMS IN DEEP WATERS (AHLSTEDT 1984, MURRAY AND LEONARD 1962, PARMALEE ET AT. 1982).  |   |   |   |
| McCracken | BIVALVES        | <i>POTAMILUS CAPAX</i>                | FAT POCKETBOOK        | E/L/E    | G1/S1       | 1 1 1 1 0        | Occurs in medium to large-sized rivers often around island and back channels, and sometimes in ditches, in mud (coze); mixed sand, mud, and clay; or fine silt and mud in flowing water at depths of a few inches up to eight feet (PARMALEE 1967, AHLSTEDT AN   |   |   |   |
| McCracken | BIVALVES        | <i>POTAMILUS PURPURATUS</i>           | BLEIFER               | E        | G5/S1       | 1 0 0 0 0        | DEEP STREAMS WITH DEEP MUD AND FAIRLY QUIET POOLS (MURRAY AND LEONARD 1962). IN MISSOURI BOOTHEEL STREAMS, IT IS FOUND IN SMALL TO MEDIUM GRAVEL WITH MUD OCCASIONALLY INTERSPERSED (OESCH 1984). IN THE ST. FRANCIS RIVER OF ARKANSAS AND MISSOURI, INDIVIDUALS |   |   |   |
| McCracken | BIVALVES        | <i>QUADRULA CYLINDRICA CYLINDRICA</i> | RABBITSHOOT           | T        | G3/T3/S2    | 1 2 1 0 0        | SMALL TO LARGE RIVERS WITH SAND, GRAVEL, AND COBBLE AND MODERATE TO SWIFT CURRENT, SOMETIMES IN DEEP WATER (PARMALEE 1967, BOGAN AND PARMALEE 1983).   |   |   |   |
| McCracken | CRUSTACEANS     | <i>CAMBARELLUS BIUEI</i>              | A DWARF CRAYFISH      | E        | G4/G5/S1    | 0 0 1 0 0        | CYPRESS SWAMPS, STREAMS, AND LOWLANDS (DRAINED WETLANDS) ON THE MISSISSIPPI ALLUVIAL PLAIN, USUALLY AMONG LIVING OR DEAD VEGETATION (PAGE 1985).   |   |   |   |
| McCracken | CRUSTACEANS     | <i>ORCONECTES LANCIFER</i>            | A CRAYFISH            | E        | G5/S1       | 0 1 0 0 0        | OXBOW LAKES AND STREAMS ON THE GULF COASTAL PLAIN (PAGE 1985), WHERE IT LIVES AMONG ORGANIC DEBRIS, USUALLY NEAR BALD CYPRESS (BURR AND HOBBS 1984).   |   |   |   |

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|-----------|-----------------|---|---------------------|----------|---------|------------------|------------------|---|---|---|---|
|           |                 |   |                     |          |         |                  | E                | H | F | X | U |
| HABITAT   |                 |   |                     |          |         |                  |                  |   |   |   |   |
| McCracken | INSECTS         | <i>EUPHYES DUKEI</i>  | DUKES' SKIPPER      | S        | G3/S1   | 3 0 0 1 0        |                  |   |   |   |   |
|           |                 | SHADED TUPelo SWAMPS IN SOUTH, PARTIALLY SHADED MARSHES AND DITCHES IN MIDWEST (OPLER AND MALIKUL 1982). FEEDS ON CAREX (WALTERIANA (L.D. GIBSON P. HYALINOLEPIS) (L.D. GIBSON PERS COMM). ON THE ATLANTIC COAST IT ALSO FEEDS ON CAREX (WALTERIANA (L.D. GIBSON P. |                     |          |         |                  |                  |   |   |   |   |
| McCracken | INSECTS         | <i>SATYRIUM FAVORIUS ONTARIO</i>  | NORTHERN HAIRSTREAK | S        | G4T4/S1 | 0 1 0 0 0        |                  |   |   |   |   |
|           |                 | S. FAVORIUS IS FOUND IN WOODS OR EDGES OF DECIDUOUS OAKS (OPLER AND MALIKUL 1982). MAIN HABITAT REQUIREMENTS ARE BLACK JACK OAK (QUERCUS MARilandica) AND A NECTAR SOURCE SUCH AS FARKELEBERRY (VACCINUM ARBORETUM) OR DOGBANE (APOCYNUM CANNAB                     |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ACIPENSER FULVESCENTS</i>  | LAKE STURGEON       | E        | G3/S1   | 0 1 0 0 0        |                  |   |   |   |   |
|           |                 | LAKES AND LARGE RIVERS WITH A FIRM SAND/GRAVEL BOTTOM (BURR AND WARREN 1986, ETNIER AND STARNES 1993).  |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ATRACTOSTEUS SPATULA</i>   | ALLIGATOR GAR       | E        | G3G4/S1 | 0 1 0 0 0        |                  |   |   |   |   |
|           |                 | SLUGGISH POOLS AND BACKWATERS OF LARGE RIVERS, BACKWATERS, AND OXBOW LAKES (BURR AND WARREN 1986, PAGE AND BURR 1991, ETNIER AND STARNES 1993).   |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>CYPRINELLA VENUSTA</i>   | BLACKTAIL SHINER    | S        | G5/S3   | 1 0 0 0 0        |                  |   |   |   |   |
|           |                 | OCURS IN CREEKS AND SMALL STREAMS OF THE COASTAL PLAIN OVER FIRM SAND AND GRAVEL OF RUFFLES AND RACEWAYS, AND ALONG UNDERCUT BANKS OR AMONG SUBMERGED STUMPS AND LOGS (BURR AND WARREN 1986). ALSO, OVER FIRM SAND OR GRAVEL IN THE MISSISSIPPI AND LOWER OH        |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ERIMYZON SUETTA</i>  | LAKE CHUB/JACKER    | T        | G5/S2   | 0 1 0 0 0        |                  |   |   |   |   |
|           |                 | LOWLAND LENTIC HABITATS (WETLANDS AND FLOODPLAIN LAKES) WITH SUBMERGENT AND FLOATING VEGETATION (BURR AND WARREN 1986, ETNIER AND STARNES 1993).  |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ESOX NIGER</i>   | CHAIN PICKEREL      | S        | G5/S3   | 1 0 0 0 0        |                  |   |   |   |   |
|           |                 | COASTAL PLAIN WETLANDS, STREAMS, AND VEGETATED OXBOW LAKE SHORELINES, AND IT ALSO TOLERATES RESERVOIR CONDITIONS (BURR AND WARREN 1986, ETNIER AND STARNES 1993).   |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ETHEOSTOMA PROELIAE</i>  | CYPRESS DARTER      | T        | G5/S2   | 1 0 0 0 0        |                  |   |   |   |   |
|           |                 | SMALL TO MEDIUM-SIZE SLUGGISH STREAMS, OXBOWS, AND WETLANDS WHERE THE BOTTOM IS SOFT AND AQUATIC VEGETATION ABOUNDS (BURR AND MAYDEN 1979, KUEHN AND BARBOUR 1983, PAGE 1983, BURR AND WARREN 1986).  |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>HYBOGNATHUS HAYI</i>   | CYPRESS MINNOW      | E        | G5/S1   | 1 2 0 0 0        |                  |   |   |   |   |
|           |                 | OXBOW LAKES AND QUIET WATER OF LOW GRADIENT STREAMS ON THE COASTAL PLAIN AND SAWNEE HILLS. USUALLY OVER MUD OR SAND BOTTOMS, BUT OCCASIONALLY ASSOCIATED WITH SUBMERGED AQUATIC VEGETATION OR OTHER COVER (BURR AND WARREN 1986, PFLEIGER 1975, SMITH 1979, G       |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ICHTHYOMYZON CASTANEUS</i>   | CHESTNUT LAMPREY    | S        | G4/S2   | 1 2 0 0 0        |                  |   |   |   |   |
|           |                 | MODERATE-SIZE CREEKS, LARGE RIVERS, AND RESERVOIRS. SUBSTRATE CONSISTS OF GRAVEL AND RUBBLE WITH AREAS OF SAND AND SILT. LARVAE REQUIRE CLEAR STREAMS WITH STABLE BARS OF SILT, SAND AND ORGANIC DETRITUS (BECKER 1983, PFLEIGER 1975, ROHDE AND LANTEIGNE-COUD     |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>ICTIOBUS NIGER</i>   | BLACK BUFFALO       | S        | G5/S3   | 4 0 0 0 0        |                  |   |   |   |   |
|           |                 | RESERVOIRS AND MEDIUM TO LARGE RIVERS WITH MODERATE TO LOW GRADIENT AND SOMETIME SWIFT CURRENT (BECKER 1983, PFLEIGER 1975, SMITH 1979, TRAUTMAN 1981, AND BURR AND WARREN 1986).   |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>LEPOMIS MINIATUS</i>   | REDSPOTTED SUNFISH  | T        | G5/S2   | 4 0 0 0 0        |                  |   |   |   |   |
|           |                 | OCCURS IN WELL-VEGETATED SWAMPS, SLOUGHS, BOTTOMLAND LAKES, AND LOW GRADIENT STREAMS (BURR AND MAYDEN 1979, PFLEIGER 1975, SMITH 1979, BURR AND WARREN 1986, ETNIER AND STARNES 1993).  |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>LOTA LOTA</i>  | BURBOT              | S        | G5/SU   | 1 0 0 0 0        |                  |   |   |   |   |
|           |                 | KENTUCKY SPECIMENS GENERALLY COME FROM MEDIUM TO LARGE-SIZE RIVERS. IN THE NORTH, THEY INHABIT COOL, LARGE, AND DEEP RIVERS AND LAKES (BECKER 1983, PFLEIGER 1975, SCOTT AND CROSSMAN 1973, SMITH 1979, TRAUTMAN 1981).   |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>MENidia BERYLLINA</i>  | INLAND SILVERSIDE   | T        | G5/S2   | 4 0 0 0 0        |                  |   |   |   |   |
|           |                 | SCHOOLING SURFACE FISH THAT OCCURS IN THE MISSISSIPPI RIVER AND FLOODPLAIN LAKES (BURR AND WARREN 1986, ETNIER AND STARNES 1993).   |                     |          |         |                  |                  |   |   |   |   |
| McCracken | FISHES          | <i>NOTROPIS MACULATUS</i>   | TAILLIGHT SHINER    | T        | G5/S2S3 | 1 1 0 0 0        |                  |   |   |   |   |
|           |                 | LOW GRADIENT STREAMS, OXBOW LAKES, AND SLOUGHS IN AND AROUND CYPRESS KNEES, MARGINAL VEGETATION, AND ACCUMULATIONS OF STICKS AND DETRITUS (BURR AND PAGE 1975, BURR AND WARREN 1986, ETNIER AND STARNES 1993).  |                     |          |         |                  |                  |   |   |   |   |

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ETNIER AND STAHLHES 1993.

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|-----------|-----------------|---|---------------------------|----------|-------|------------------|-----------|---------|---|---------|---------|
|           |                 |   |                           |          |       |                  | G3/S2S3   | G3/S2S3 | T | G5/S2S3 | G5/S2S3 |
| McCracken | FISHES          | <i>NOTURUS STIGMOSUS</i>  | NORTHERN MADTOM           | S        |       | 2 1 0 0 0        |           |         |   |         |         |
|           |                 | LARGE STREAMS AND RIVERS IN MODERATE TO SWIFT CURRENT OVER GRAVEL AND SAND, AND SOMETIMES DEBRIS OR PONDWEED FOR COVER (BURN AND WARREN 1986).  |                           |          |       |                  |           |         |   |         |         |
| McCracken | FISHES          | <i>UMBRA LIMI</i>   | CENTRAL MUDMINNOW         | T        |       | 1 0 0 0 0        |           |         |   |         |         |
|           |                 | RESTRICTED TO DENSE BEDS OF SUBMERGED AQUATIC VEGETATION OR ORGANIC DEBRIS PILES IN SPRING-FED WETLANDS, DITCHES, AND THE MARGINS OF LOWLAND LAKES OF THE COASTAL PLAIN (BURN AND WARREN 1986).   |                           |          |       |                  |           |         |   |         |         |
| McCracken | AMPHIBIANS      | <i>AMPHIUMA TRIDACTYLOM</i>   | THREE-TOED AMPHIUMA       | E        |       | 0 0 0 0 1        |           |         |   |         |         |
|           |                 | THE AMPHIUMA IS FOUND IN LAKES, OPEN SPRING STREAMS OF RUNNING WATER, AND STREAMS FLOWING OVER CALCAREOUS ROCKS. ALSO RECORDED FROM DRAINAGE DITCHES, BAYOUS, AND WOODED ALLUVIAL SWAMPS (BISHOP 1974). PROBABLY ONLY THE LATTER IN KENTUCKY. |                           |          |       |                  |           |         |   |         |         |
| McCracken | AMPHIBIANS      | <i>HYLA CINerea</i>   | GREEN TREEFROG            | S        |       | 2 0 0 0 0        |           |         |   |         |         |
|           |                 | FLOODPLAIN WETLANDS, PARTICULARLY THOSE DOMINATED BY BUTTONBUSH AND HERBACEOUS EMERGENT VEGETATION.   |                           |          |       |                  |           |         |   |         |         |
| McCracken | AMPHIBIANS      | <i>RANA AREOLATA CIRCULOSA</i>  | NORTHERN CRAWFISH FROG    | S        |       | 17 1 6 0         |           |         |   |         |         |
|           |                 | BREEDS IN PONDS IN FARMLAND AND EDGE, REMAINS UNDERGROUND THROUGHOUT MOST OF THE YEAR, USING CRAWFISH BURROWS IN MOIST GRASSLANDS AND MEADOWS.  |                           |          |       |                  |           |         |   |         |         |
| McCracken | REPTILES        | <i>APALONE MUTICA MUTICA</i>  | MIDLAND SMOOTH SOFTSHELL  | S        |       | 0 1 0 0 0        |           |         |   |         |         |
|           |                 | OPEN WATER HABITATS, MOST NUMEROUS IN OPEN RIVER SITUATIONS WITH GRAVEL OR SAND SUBSTRATES, BUT ALSO PRESENT IN SLOWER RIVERS AND IMPOUNDMENTS.   |                           |          |       |                  |           |         |   |         |         |
| McCracken | REPTILES        | <i>MACROCLEMYS TEMMINCKII</i>   | ALLIGATOR SNAPPING TURTLE | T        |       | 0 1 0 0 0        |           |         |   |         |         |
|           |                 | FLOODPLAIN SLOUGHS, BACKWATER AREAS OF LARGER RIVERS, IMPOUNDMENTS. SEEMS TO PREFER MUDDY SUBSTRATE WITH DARK RETREATS INCLUDING MUSKAT AND BEAVER DENNS, LOGS, OR SHELTERING VEGETATION.   |                           |          |       |                  |           |         |   |         |         |
| McCracken | REPTILES        | <i>THAMNOphis SAURITUS SAURITUS</i>   | EASTERN RIBBON SNAKE      | S        |       | 1 0 0 0 0        |           |         |   |         |         |
|           |                 | VARIETY OF SEMI-OPEN HABITATS, GENERALLY IN WEEDY OR BRUSHY GROWTH ALONG THE MARGINS OF SLOUGHS, MARSHES AND OTHER AQUATIC HABITATS.  |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>ACCIPIITER STRATUS</i>   | SHARP-SHINNED HAWK        | S        |       | 1 0 0 0 0        |           |         |   |         |         |
|           |                 | FOREST AND OPEN WOODLAND, CONIFEROUS, MIXED, OR DECIDUOUS, PRIMARILY IN CONIF. IN MORE NORTHERN AND MOUNTAINOUS PORTION OF RANGE (B83COM01NA). MIGRATES THROUGH VARIOUS HABITATS, MAINLY ALONG RIDGES, LAKESHORES, & COASTLINES (B83COM01NA). |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>AMMOPHILA AESTIVALIS</i>   | BACHMAN'S SPARROW         | E        |       | 0 0 0 1 0        |           |         |   |         |         |
|           |                 | OPEN PINE WOODS WITH SCATTERED BUSHES OR UNDERSTORY, BRUSHY OR OVERGROWN HILLSIDES, OVERGROWN FIELDS WITH THICKETS AND BRAMBLES, GRASSY ORCHARDS.   |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>ARDEA HERODIAS</i>   | GREAT BLUE HERON          | S        |       | 0 0 1 0 0        |           |         |   |         |         |
|           |                 | FRESHWATER AND BRACKISH MARSHES, ALONG LAKES, RIVERS, BAYS, LAGOONS, OCEAN BEACHES, MANGROVES, FIELDS, AND MEADOWS.   |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>CORVUS OSSIFRAGUS</i>  | FISH CROW                 | S        |       | 2 1 0 0 0        |           |         |   |         |         |
|           |                 | BEACHES, BAYS, LAGOONS, INLETS, SWAMPS, NEAR MARSHES, AND, LESS FREQUENTLY, DECIDUOUS OR CONIFEROUS WOODLAND, IN INLAND SITUATIONS PRIMARILY IN BALD CYPRESS SWAMPS AND ALONG MAJOR WATERCOURSES. ALSO GARBAGE DUMPS.                         |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>ICTINIA MISSISSIPPIENSIS</i>   | MISSISSIPPI KITE          | S        |       | 1 0 0 0 0        |           |         |   |         |         |
|           |                 | TALL FOREST, OPEN WOODLAND, PRAIRIE, SEMIARID RANGELAND, SHELTERBELTS, WOODED AREAS BORDERING LAKES AND STREAMS IN MORE OPEN REGIONS, SCRUBBY OAKS AND MESQUITE.  |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>LOPHODYTES CUCULLATUS</i>  | HOODED MERGANSER          | T        |       | 0 1 0 0 0        |           |         |   |         |         |
|           |                 | STREAMS, LAKES, SWAMPS, MARSHES, AND ESTUARIES; WINTERS MOSTLY IN FRESHWATER BUT ALSO REGULARLY IN ESTUARIES AND SHELTERED BAYS (B83COM01NA).   |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>RIPARIA RIPARIA</i>  | BANK SWALLOW              | S        |       | 0 0 1 0 0        |           |         |   |         |         |
|           |                 | OPEN AND PARTLY OPEN SITUATIONS, FREQUENTLY NEAR FLOWING WATER (B83COM01NA).  |                           |          |       |                  |           |         |   |         |         |
| McCracken | BIRDS           | <i>TOTTA ALBA</i>   | BARN OWL                  | S        |       | 2 0 0 0 0        |           |         |   |         |         |
|           |                 | OPEN AND PARTLY OPEN COUNTRY IN A WIDE VARIETY OF SITUATIONS, OFTEN AROUND HUMAN HABITATION (B83COM01NA). IN NORTHERN WINTER OFTEN ROOSTS IN DENSE CONIFERS, ALSO ROOSTS IN NEST BOXES IF AVAILABLE (A85MAR01NA).                             |                           |          |       |                  |           |         |   |         |         |

Data Current as of June 2002

County Report of Endangered, Threatened, and Special Concern Plants, Animals, and Natural Communities of Kentucky  
Kentucky State Nature Preserves Commission

**County      Taxonomic Group      Scientific name**

| HABITAT   | Common name                            |                     |      | Statuses  | Ranks     | # of Occurrences |
|---|--|---------------------|------|-----------|-----------|------------------|
|   | E                                      | H                   | F    |           |           |                  |
| McCracken BIRDS<br>DENSE BRUSH, MESQUITE, SCRUB OAK, IN ARID REGIONS BUT OFTEN NEAR WATER (BS3COM01NA); MOIST WOODLAND, BRUSH IN WINT.  | <b>VIREO BELLI</b>                     | BELL'S VIREO        | S    | G5/S2/S3B | 1 1 0 0 0 |                  |
| McCracken MAMMALS<br>WOODLAND EDGE, SCATTERED COVER AND HEDGEROWS IN CULTIVATED AREAS, OPEN WOODLAND, BRUSH IN WINT.                    | <b>MYOTIS AUSTROPIARIUS</b>            | SOUTHEASTERN MYOTIS | E    | G3G4/S1S2 | 1 0 0 0 0 |                  |
| McCracken MAMMALS<br>THE SOUTHEASTERN MYOTIS USES PRIMARILY CAVES FOR HIBERNACULA AND SUMMER MATERNITY AND ROOSTING SITES.              | <b>MYOTIS SODALIS</b>                  | INDIANA BAT         | E/LE | G2/S1S2   | 1 0 0 0 0 |                  |
| McCracken MAMMALS<br>INDIANA BATS USE PRIMARILY CAVES FOR HIBERNACULA, ALTHOUGH THEY ARE OCCASIONALLY FOUND IN OLD MINE PORTALS.        | <b>NYCTICEIUS HUMERALIS</b>            | EVENING BAT         | T    | G5/S2S3   | 3 0 0 0 0 |                  |
| McCracken MAMMALS<br>THE EVENING BAT IS A COLONIAL SPECIES THAT ROOSTS IN TREES AND HOUSES. IT APPARENTLY MIGRATES SOUTHWARD IN WINTER. | <b>FLOODPLAIN RIDGE/TERRACE FOREST</b> |                     | N    | S1        | 1 0 0 0 0 |                  |
| McCracken COMMUNITIES   | <b>WET PRAIRIE</b>                     |                     | N    | S1        | 1 0 0 0 0 |                  |
| McCracken COMMUNITIES   |  |                     |      |           |           |                  |



## EASTERN SHAWNEE TRIBE OF OKLAHOMA

P.O. Box 350 • Seneca, MO 64865 • (918) 666-2435 • FAX (918) 666-3325

July 23, 2002

Department of Energy  
Gary S. Hartman, EIS Document Manager  
Oak Ridge Operations Office  
PO Box 2001  
Oak Ridge, Tennessee 37831

Re: Paducah Gaseous Diffusion Plant,  
McCracken County, Kentucky  
Portsmouth Gaseous Diffusion Plant.  
Pike County, Ohio

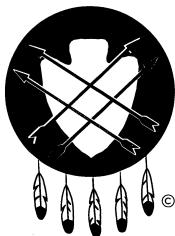
Dear Mr. Hartman:

Thank you for notice of the referenced project. The Eastern Shawnee Tribe of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during construction, the Eastern Shawnee Tribe request notification and further consultation.

The Eastern Shawnee Tribe has no objection to the proposed construction. However, if any human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction, the construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

Sincerely,

*Charles Enyart*  
Charles Enyart, Chief  
Eastern Shawnee Tribe of Oklahoma

**PEORIA TRIBE OF INDIANS OF OKLAHOMA**

118 S. Eight Tribes Trail (918) 540-2535 FAX (918) 540-2538  
P.O. Box 1527  
MIAMI, OKLAHOMA 74355

CHIEF  
John P. Froman

SECOND CHIEF  
Joe Goforth

July 26, 2002

Gary S. Hartman  
Department of Energy  
Oak Ridge Operations Office  
P. O. Box 2001  
Oak Ridge, Tennessee 37831

RE: DUF conversion facilities

Thank you for notice of the referenced project. The Peoria Tribe of Indians of Oklahoma is currently unaware of any documentation directly linking Indian Religious Sites to the proposed construction. In the event any items falling under the Native American Graves Protection and Repatriation Act (NAGPRA) are discovered during construction, the Peoria Tribe request notification and further consultation.

The Peoria Tribe has no objection to the proposed construction. However, if any human skeletal remains and/or any objects falling under NAGPRA are uncovered during construction, the construction should stop immediately, and the appropriate persons, including state and tribal NAGPRA representatives contacted.

John P. Froman  
Chief

xc: Bud Ellis, Repatriation/NAGPRA Committee Chairman

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**AMESQ**

Log No. 71278  
Date Received AUG 2 2002  
File Code                   

|                            |                          |                                    |                                   |                                      |
|----------------------------|--------------------------|------------------------------------|-----------------------------------|--------------------------------------|
| TREASURER<br>LeAnne Reeves | SECRETARY<br>Hank Downum | FIRST COUNCILMAN<br>Claude Landers | SECOND COUNCILMAN<br>Jenny Rampey | THIRD COUNCILMAN<br>Jason Dollarhide |
|----------------------------|--------------------------|------------------------------------|-----------------------------------|--------------------------------------|



July 26, 2002

**TENNESSEE HISTORICAL COMMISSION**  
DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
2941 LEBANON ROAD  
NASHVILLE, TN 37243-0442  
(615) 532-1550

**Mr. Gary S. Hartman**  
Oak Ridge Operations/DP-80  
Post Office Box 2001  
Oak Ridge, Tennessee, 37831

**RE: DOE, DUF MANAGEMENT/ETTP, OAK RIDGE, ANDERSON COUNTY**

Dear Mr. Hartman:

In response to your request, received on Wednesday, July 24, 2002, we have reviewed the documents you submitted regarding your proposed undertaking. Our review of and comment on your proposed undertaking are among the requirements of Section 106 of the National Historic Preservation Act. This Act requires federal agencies or applicant for federal assistance to consult with the appropriate State Historic Preservation Office before they carry out their proposed undertakings. The Advisory Council on Historic Preservation has codified procedures for carrying out Section 106 review in 36 CFR 800. You may wish to familiarize yourself with these procedures (Federal Register, December 12, 2000, pages 77698-77739) if you are unsure about the Section 106 process.

Considering available information, we find that the project as currently proposed MAY AFFECT PROPERTIES THAT ARE ELIGIBLE FOR LISTING IN THE NATIONAL REGISTER OF HISTORIC PLACES. You should continue consultation with our office, designated consulting parties and invite them to participate in consultation, and provide us with appropriate survey documentation for review and comment. Please direct questions and comments to Joe Garrison (615) 532-1559. We appreciate your cooperation.

Sincerely,

A handwritten signature in cursive ink that appears to read "Herbert L. Harper".

Herbert L. Harper  
Executive Director and  
Deputy State Historic  
Preservation Officer

HLH/jyg

**OFFICIAL FILE COPY**  
**AMESQ**

Log No. 72373 AUG 8 2002

Date Received \_\_\_\_\_

File Date \_\_\_\_\_

