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Endangered, Threatened, And Rare Plants And Animals Of Kentucky¹

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ABSTRACT

The Endangered Species Committee of the Kentucky Academy of Science and the Kentucky Nature Preserves Commission have updated and revised the rare animal and plant list originally published in 1981. The new list includes 337 plant and 242 animal taxa identified as Endangered, Threatened, Special Concern, or Category 1 or 2 at the state and/or federal levels.

¹ The order in which the authors of this paper are presented has been determined randomly.

INTRODUCTION

The passage of the Endangered Species Act of 1973 marked a significant change in the conservation ethic of the United States as a nation. The Act is a declaration that those species which have been endangered by extinction "...are of esthetic, ecological, educational, historical, recreational, and scientific value to the Nation and its people" (1). The stated purposes of the Act "...are to provide a means whereby the ecosystems upon which endangered and threatened species depend may be conserved, [and] to provide a program for the conservation of such endangered species and threatened species..." These objectives are to be accomplished in part through the publication of a list of endangered and threatened species that become the targets of protective regulations. The subsequent amendments and reauthorizations of the Endangered Species Act have reaffirmed the United States' commitment to this course of action.

In the absence of a Kentucky endangered species act and list with the same objectives, the Endangered Species Committee of the Kentucky Academy of Science (KAS) and the Kentucky Nature Preserves Commission (KNPC) published the "Endangered, Threatened, and Rare Animals and Plants of Kentucky" (2). This non-regulatory list served to identify those native species of Kentucky plants and animals that are in need of protection, research, and/or management because they are rare, the number of populations known for a species is declining or low, or their distribution has been reduced. The overall goal of the publication of the list was to assist in the recovery and preservation of Kentucky's rich natural diversity.

A wealth of new information regarding the flora and fauna of Kentucky has been collected since 1981. The distribution and ecology of many of the species included in Branson et al. (2) are much better known. One species, *Epioblasma sampsoni*, has been officially delisted by the United States Fish and Wildlife Service (3) because of extinction and may portend similar action at the federal level for a group of related species. Several species previously unknown from Kentucky have been discovered and others not collected in many years were rediscovered. Thus, this new information has provided the impetus to reevaluate the species listed by Branson et al. (2) and to generate the updated list and status designations presented herein.

METHODS

The Kentucky Nature Preserves Commission, a state agency mandated to identify and protect natural areas, worked jointly with the Endangered Species Committee of the Kentucky Academy of Science to identify those species which are rare or threatened in the Commonwealth. The Nature Conservancy's standardized Natural Heritage Program methodology (4) was used to revise the list by Branson et al. (2). The program stores distributional and ecological information on selected species in map, manual, and computer files and is used by KNPC to locate aggregations of rare species and other natural entities that become the target of its preservation efforts. The program was therefore ideally suited for the revision which followed a process that will be briefly outlined.

Each species listed by Branson et al. (2) and many previously unlisted species were evaluated to determine if they should be retained or added to the list. The criteria utilized included, but were not limited to, the number, recency, and accuracy of occurrences; historic and present geographic distribution; habitat requirements; relative threat of habitat destruction; and ecological fragility. The information used to make the evaluation was that available as of June 30, 1985. Each species was subjectively assigned a conservation status or suggested for delisting.

The resultant list and statuses were submitted to knowledgeable individuals for peer review and suggestions for additions and deletions. All comments received were considered and in many cases discussed with the commentator before final statuses were assigned. The finalized list and statuses were forwarded to the Endangered Species Committee for review and were approved by the Kentucky Academy of Science at the 71st Annual Meeting held in Morehead, Kentucky on November 9, 1985. The only exceptions to this process were that all species officially listed or under status review for listing (excepting insects) by the United States Fish and Wildlife Service under the Endangered Species Act were included on the list (3,5,6,7,8,9).

STATUS CATEGORIES

The intent of assigning status designations is to (1) indicate the degree of rarity of the species, (2) indicate the degree of threat to the continued survival of the species, and (3) aid in establishing priorities for conservation

and/or preservation efforts. The status designations assigned have no legal or statutory implication but rather were established as a tool by the Endangered Species Committee and KNPC to monitor the survival potential of the species. The three KAS-KNPC status categories utilized are coded in capital letters and defined as follows:

Endangered (E). A species which is in danger of extirpation and/or extinction throughout all or a significant part of its range in Kentucky.

Threatened (T). A species which is likely to become endangered within the foreseeable future throughout all or a significant part of its range in Kentucky.

Special Concern (S). A species that should be monitored because (a) it exists in a limited geographic area, (b) it may become threatened or endangered due to modification or destruction of habitat, (c) certain characteristics or requirements make it especially vulnerable to specific pressures, (d) experienced researchers have identified other factors that may jeopardize it, or (e) it is thought to be rare or declining but insufficient information exists for assignment to the threatened or endangered status categories.

Federal status categories and definitions used include:

Endangered (E). "...any species which is in danger of extinction throughout all or a significant portion of its range..." (1).

Threatened (T). "...any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range" (1).

Category 1 (C1). Status review taxa for which the United States Fish and Wildlife Service "...has substantial information on hand to support the biological appropriateness of proposing to list as endangered or threatened" (7).

Category 2 (C2). Status review taxa for which information now in possession of the United States Fish and Wildlife Service "...indicates that proposing to list as endangered or threatened is possibly appropriate, but for which conclusive data on biological vulnerability and threat are not currently available to support proposed rules" (7).

INTRODUCTION TO THE PLANT AND ANIMAL LISTS

The nomenclature utilized for plant species follows Kartesz and Kartesz (10). The sources consulted for the common and scientific names of animals are as follows: crustaceans—Hobbs (11), Holsinger (12), United States Fish and Wildlife Service (5,13); gastropods—Thompson and Porter (14); pelecypods—Stansbery and Bogan (15); fishes—Bailey et al. (16), Carney (17), Robins et al. (18), Stauffer et al. (19); amphibians and reptiles—Collins et al. (20); birds—American Ornithologist's Union (21); mammals—Hall (22).

DISCUSSION

This new KAS-KNPC list includes 337 plant and 242 animal taxa. Based on generally accepted estimates of the number of native species occurring in Kentucky, the following approximate per cent of the groups indicated can be considered Endangered, Threatened, or of Special Concern: plants—11%, pelecypods—36%, fishes—31%, amphibians and reptiles—23%, birds—15%, and mammals—33%. Although extensive, the list does not adequately treat or include several groups of organisms found in Kentucky. The thallophytes, bryophytes, insects, amphipods, isopods, terrestrial and freshwater gastropods, and other groups are also important elements of our natural heritage, but are poorly known in Kentucky. Researchers are encouraged to undertake studies that will provide information needed to determine the status of members of these groups in Kentucky.

The bird monitoring strategies presented by Branson et al. (2) are no longer being used. The list and monitoring activities are now limited to species that nest or historically nested in Kentucky, and those listed or under status review by the United States Fish and Wildlife Service.

All of the species listed are being monitored in Kentucky by KNPC. However, information regarding species that have been delisted and many others that were not included in Branson et al. (2) or this list is being maintained in manual files at KNPC. This is being done so that we can respond to unforeseen changes in distribution or status.

We invite input from knowledgeable individuals on native species they believe deserve a status change or should be added to or deleted from the list. Each such petition

should include the scientific name of the organism, its habitat requirements, collection information (i.e., localities, number of specimens, dates, disposition of specimens), historic and present distribution, whether the species has been specifically sought during field work, threats, and recommended KAS-KNPC status. Petitions should be forwarded to the Director, KNPC, who will contact the Endangered Species Committee Chairperson and appropriate committee members for timely petition review and comment. The petitioner will be notified regarding the outcome of the review. In an effort to make the list more responsive to changes in information, all changes resulting from this petition process will be succinctly reported in the *Transactions* as revisions of the list.

We reiterate the hope expressed by Branson et al. (2) that this updated list of Kentucky's rare plants and animals will assist developers and decisionmakers in reaching informed decisions concerning the most effective use of Kentucky's natural resources. Only by focusing attention on the rarest elements of our natural heritage can we avoid the unnecessary destruction of our diverse flora and fauna.

PLANT LIST

	KAS-KNPC	STATUS FEDERAL
<i>Acer spicatum</i> Mountain Maple	T	
<i>Aconitum uncinatum</i> Monkshood	T	
<i>Adiantum capillus-veneris</i> Venus Hair Fern	E	
<i>Adlumia fungosa</i> Allegheny Vine	E	
<i>Agalinis decemloba</i> Purple False Foxglove	E	
<i>Agalinis obtusifolia</i> Purple False Foxglove	S	
<i>Agalinis skinneriana</i> Purple False Foxglove	T	
<i>Agrimonia gryposepala</i> Agrimony	S	
<i>Allium burdickii</i> Narrow-leaved Wild Leek	E	
<i>Amianthium muscaetoxicum</i> Fly Poison	T	
<i>Angelica triquinata</i> Filmy Angelica	E	
<i>Apios priceana</i> Price's Groundnut	E	C1
<i>Arabis glabra</i> Tower Mustard	S	

	KAS-KNPC	STATUS FEDERAL
<i>Arabis missouriensis</i> Missouri Rock Cress	E	
<i>Arabis perstellata</i> var. <i>perstellata</i> Rock Cress	E	C1
<i>Arenaria cumberlandensis</i> Sandwort	E	C1
<i>Arenaria fontinalis</i> Water Stitchwort	T	C1
<i>Armoracia aquatica</i> Lake Cress	T	
<i>Aster concolor</i> Aster	E	
<i>Aster pilosus</i> var. <i>priceae</i> White Heath Aster	S	
<i>Aster sericeus</i> Silky Aster	T	
<i>Aster texanus</i> Texas Aster	E	
<i>Aureolaria patula</i> False Foxglove	E	C1
<i>Baptisia leucophaea</i> Creme Wild Indigo	S	
<i>Baptisia tinctoria</i> Yellow Wild Indigo	T	
<i>Bartonia virginica</i> Screwstem	E	
<i>Berchemia scandens</i> Rattan Vine	E	
<i>Botrychium matricariifolium</i> Matricary Grape Fern	E	
<i>Botrychium oneidense</i> Blunt-lobed Grape Fern	E	
<i>Bouteloua curtipendula</i> Side-oats Grama	S	
<i>Boykinia aconitifolia</i> Brook Saxifrage	T	
<i>Cabomba caroliniana</i> Fanwort	S	
<i>Calamagrostis canadensis</i> Blue Joint Grass	E	
<i>Calamagrostis cinnoides</i> Cinna-like Reed Grass	S	
<i>Calamagrostis porteri</i> Porter's Reed Grass	E	
<i>Calopogon tuberosus</i> Grass Pink	E	
<i>Caltha palustris</i> Marsh Marigold	E	
<i>Calycanthus floridus</i> Sweet Shrub	T	
<i>Calylophus serrulatus</i> Evening Primrose	S	
<i>Carex austrina</i> Sedge	E	
<i>Carex buxbaumii</i> Sedge	E	

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Carex crawei</i>	S		<i>Cleistes divaricata</i>	S	
Sedge			Spreading Pogonia		
<i>Carex decomposita</i>	T	C2	<i>Clematis crispa</i>	T	
Sedge			Leather Flower		
<i>Carex gigantea</i>	T		<i>Clematis glaucophylla</i>	E	
Sedge			Leather Flower		
<i>Carex hystericina</i>	S		<i>Clematis viorna</i> var. <i>flaccida</i>	E	
Sedge			Leather Flower		
<i>Carex joorii</i>	E		<i>Comptonia peregrina</i>	E	
Sedge			Sweet Fern		
<i>Carex lanuginosa</i>	S		<i>Conradina verticillata</i>	E	C1
Sedge			Cumberland Rosemary		
<i>Carex leptalea</i>	S		<i>Convallaria montana</i>	E	
Sedge			Lily-of-the-Valley		
<i>Carex leptoneuria</i>	S		<i>Corallorhiza maculata</i>	E	
Sedge			Spotted Coral-root		
<i>Carex picta</i>	E		<i>Coreopsis pubescens</i>	S	
Sedge			Downy Coreopsis		
<i>Carex socialis</i>	S		<i>Corydalis sempervirens</i>	S	
Sedge			Pale Corydalis		
<i>Carex stricta</i>	E		<i>Cotinus obovatus</i>	E	
Sedge			Smoke Tree		
<i>Carex tenera</i>	S		<i>Crotonopsis linearis</i>	E	
Sedge			Linear Rushfoil		
<i>Carex triangularis</i>	S		<i>Cymophyllus fraseri</i>	T	
Sedge			Fraser's Sedge		
<i>Carya aquatica</i>	S		<i>Cyperus diandrus</i>	S	
Water Hickory			Umbrella Sedge		
<i>Carya ovata</i> var. <i>australis</i>	S		<i>Cyperus retrorsus</i>	S	
Hickory			Umbrella Sedge		
<i>Castanea pumila</i>	E		<i>Cypripedium candidum</i>	E	
Chinquapin			White Lady's-Slipper		
<i>Castilleja coccinea</i>	E		<i>Cypripedium kentuckiense</i>	S	C2
Indian Paintbrush			Kentucky Lady's-Slipper		
<i>Cayaponia grandifolia</i>	S		<i>Cypripedium parviflorum</i>	E	
Cayaponia			Small Yellow Lady-slipper		
<i>Ceanothus herbaceus</i>	E		<i>Cystopteris fragilis</i> var. <i>mackayi</i>	S	
Redroot			Mackay's Fragile Fern		
<i>Cheilanthes alabamensis</i>	E		<i>Decodon verticillatus</i>	T	
Smooth Lip Fern			Swamp Loosestrife		
<i>Cheilanthes feei</i>	E		<i>Delphinium carolinianum</i>	T	
Slender Lip Fern			Carolina Larkspur		
<i>Chelone obliqua</i> var. <i>obliqua</i>	T		<i>Deschampsia flexuosa</i>	S	
Pink Turtlehead			Hair Grass		
<i>Chelone obliqua</i> var. <i>speciosa</i>	S		<i>Dichanthelium acuminatum</i> var. <i>villosum</i>	S	
Pink Turtlehead			Panic Grass		
<i>Chrysogonum virginianum</i>	E		<i>Dichanthelium boreale</i>	S	
Green and Gold			Panic Grass		
<i>Chrysosplenium americanum</i>	E		<i>Dichanthelium sabulorum</i>	S	
Golden Saxifrage			Panic Grass		
<i>Cicuta bulbifera</i>	S		<i>Didiplis diandra</i>	S	
Bulblet-bearing Water Hemlock			Water Purslane		
<i>Cimicifuga rubifolia</i>	T	C2	<i>Diplachne panicoides</i>	E	
Bugbane			Feather Grass		
<i>Circaea alpina</i>	E				
Small Enchanter's Nightshade					

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Dodecatheon frenchii</i> French's Shooting Star	S	C2	<i>Gratiola viscidula</i> Hedge Hyssop	T	
<i>Draba aprica</i> Whitlow Grass	E	C2	<i>Gymnopogon ambiguus</i> Beardgrass	S	
<i>Draba cuneifolia</i> Whitlow Grass	E		<i>Gymnopogon brevifolius</i> Beardgrass	E	
<i>Drosera brevifolia</i> Dwarf Sundew	E		<i>Halesia carolina</i> Silverbell Tree	T	
<i>Drosera intermedia</i> Sundew	E		<i>Hedeoma hispidum</i> Hairy Pennyroyal	E	
<i>Dryopteris ludoviciana</i> Southern Wood Fern	E		<i>Hedyotis michauxii</i> Thyme-leaved Bluets	T	
<i>Dryopteris spinulosa</i> Spinulose Wood Fern	S		<i>Hedyotis uniflora</i> Oldenlandia	E	
<i>Echinodorus rostratus</i> Burhead	T		<i>Helianthus atrorubens</i> Sunflower	E	
<i>Echinodorus tenellus</i> Burhead	E		<i>Helianthus eggertii</i> Eggert's Sunflower	E	C2
<i>Erigeron pulchellus</i> var. <i>brauniae</i> Lucy Braun's Robin Plantain	S		<i>Helianthus silphioides</i> Silphium-like Sunflower	S	
<i>Eriogonum longifolium</i> var. <i>harperi</i> Umbrella Plant	E	C2	<i>Heracleum lanatum</i> Cow Parsnip	E	
<i>Eryngium integrifolium</i> Button Snakeroot	E		<i>Heteranthera dubia</i> Water Star Grass	T	
<i>Eupatorium luciae-brauniae</i> Lucy Braun's White Snakeroot	E	C1	<i>Heteranthera limosa</i> Mud Plantain	T	
<i>Eupatorium maculatum</i> Joe Pye Weed	E		<i>Heterotheca latifolia</i> Golden Aster	S	
<i>Eupatorium rugosum</i> var. <i>roanense</i> Roan Mountain White Snakeroot	E		<i>Hexastylis contracta</i> Heart-leaf	E	C2
<i>Euphorbia mercurialina</i> Spurge	E		<i>Hexastylis heterophylla</i> Heart-leaf	S	
<i>Fimbristylis puberula</i> Sedge	E		<i>Hexastylis shuttleworthii</i> Shuttleworth's Wild Ginger	S	
<i>Floerkea proserpinacoides</i> False Mermaid	S		<i>Hieracium longipilum</i> Long-haired Hawkweed	T	
<i>Forestiera ligustrina</i> Upland Privet	T		<i>Hierochloa odorata</i> Sweet Grass	S	
<i>Fuirena squarrosa</i> Umbrella Grass	E		<i>Hydrocotyle americana</i> Water Pennywort	S	
<i>Gaylussacia brachycera</i> Box Huckleberry	S		<i>Hydrolea ovata</i> Hydrolea	E	
<i>Gentiana alba</i> Yellowish Gentian	E		<i>Hydrophyllum virginianum</i> Virginia Waterleaf	S	
<i>Gentiana decora</i> Showy Gentian	T		<i>Hypericum adpressum</i> St. Johns-wort	E	
<i>Gentiana puberulenta</i> Prairie Gentian	E		<i>Hypericum stans</i> St. Johns-wort	S	
<i>Glyceria acutiflora</i> Manna Grass	S		<i>Iris fulva</i> Copper Iris	E	
<i>Glyceria melicaria</i> Manna Grass	S		<i>Isoetes butleri</i> Butler's Quillwort	E	
<i>Gratiola pilosa</i> Hedge Hyssop	E		<i>Isoetes melanopoda</i> Midland Quillwort	E	
			<i>Juncus articulatus</i> Rush	S	

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Juncus elliotii</i>	S		<i>Maianthemum canadense</i>	T	
Rush			Canada Mayflower		
<i>Juncus longistylis</i>	S		<i>Malus angustifolia</i>	S	
Rush			Crab Apple		
<i>Koeleria cristata</i>	E		<i>Malus ioensis</i>	S	
June Grass			Crab Apple		
<i>Lathyrus palustris</i>	S		<i>Marshallia grandiflora</i>	E	C2
Marsh Pea			Barbara's Buttons		
<i>Lathyrus venosus</i>	S		<i>Matelea carolinensis</i>	E	
Bushy Vetch			Carolina Anglepod		
<i>Leavenworthia exigua</i>			<i>Mecardonia acuminata</i>	T	
var. <i>laciniata</i>	E	C1	Mecardonia		
Glade Cress			<i>Melampyrum lineare</i>	E	
<i>Leavenworthia torulosa</i>	E		Cow Wheat		
Glade Cress			<i>Melanthium virginicum</i>	E	
<i>Leiophyllum buxifolium</i>	E		Bunch Flower		
Sand Myrtle			<i>Minuartia glabra</i>	E	
<i>Lesquerella globosa</i>	T	C2	Sandwort		
Bladder-pod			<i>Mirabilis albida</i>	S	
<i>Lesquerella lescurii</i>	E		Four-oclock		
Bladder-pod			<i>Monarda punctata</i>	E	
<i>Leucothoe recurva</i>	E		Dotted Monarda		
Fetterbush			<i>Monarda russeliana</i>	S	
<i>Liatris microcephala</i>	S		Russell's Horsemint		
Blazing-star			<i>Monotropsis odorata</i>	T	
<i>Liatris pycnostachya</i>	E		Sweet Pinesap		
Prairie Blazing-star			<i>Muhlenbergia bushii</i>	S	
<i>Lilium philadelphicum</i>	S		Bush's Satin Grass		
Wood Lily			<i>Muhlenbergia cuspidata</i>	E	
<i>Lilium superbum</i>	T		Prairie Satin Grass		
Turk's-cap Lily			<i>Muhlenbergia expansa</i>	E	
<i>Limnobia spongia</i>	T		Hair Grass		
Frog's Bit			<i>Muhlenbergia glabriflora</i>	S	
<i>Linum sulcatum</i>	E		Hair Grass		
Grooved Yellow Flax			<i>Myriophyllum heterophyllum</i>	S	
<i>Listera australis</i>	E		Water Milfoil		
Southern Twayblade			<i>Myriophyllum pinnatum</i>	S	
<i>Listera smallii</i>	T		Water Milfoil		
Small's Twayblade			<i>Najas gracillima</i>	S	
<i>Lobelia appendiculata</i>			Slender Naiad		
var. <i>gattingeri</i>	E	C2	<i>Nemophila aphylla</i>	S	
Gattinger's Lobelia			Nemophila		
<i>Lobelia nuttallii</i>	T		<i>Oenothera linifolia</i>	T	
Nuttall's Lobelia			Thread-leaved Sundrops		
<i>Lonicera prolifera</i>	S		<i>Oenothera perennis</i>	E	
Grape Honeysuckle			Small Sundrops		
<i>Ludwigia hirtella</i>	E		<i>Oenothera triloba</i>	T	
False Loosestrife			Sundrops		
<i>Lycopodium appressum</i>	E		<i>Onosmodium hispidissimum</i>	E	
Southern Bog Clubmoss			Hairy False Gromwell		
<i>Lysimachia fraseri</i>	E		<i>Onosmodium molle</i> ssp. <i>molle</i>	E	
Fringed Loosestrife			Soft False Gromwell		
<i>Lysimachia radicans</i>	E		<i>Onosmodium molle</i> ssp. <i>occidentale</i>	E	
Creeping Fringed Loosestrife			Western False Gromwell		
<i>Lysimachia terrestris</i>	S				
Swamp Candles					

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Orontium aquaticum</i>	T		<i>Polygala cruciata</i>	E	
Golden Club			Cross Milkwort		
<i>Oryzopsis racemosa</i>	T		<i>Polygala nuttallii</i>	E	
Black-seeded Rice Grass			Nuttall's Milkwort		
<i>Oxalis priceae</i>	E		<i>Polygala polygama</i>	E	
Price's Yellow Wood Sorrel			Purple Milkwort		
<i>Pachistima canbyi</i>	E	C2	<i>Polymnia laevigata</i>	E	C2
Mountain Lover			Leaf Cup		
<i>Parnassia asarifolia</i>	E		<i>Pontederia cordata</i>	S	
Ginger-leaved			Pickernel Weed		
Grass-of-Parnassus			<i>Potamogeton praelongus</i>	S	
<i>Parnassia grandifolia</i>	E		Pond Weed		
Grass-of-Parnassus			<i>Potamogeton pulcher</i>	S	
<i>Paronychia argyrocoma</i>	E		Spotted Pondweed		
Silver Whitlow-wort			<i>Prenanthes alba</i>	E	
<i>Paspalum boscianum</i>	S		Lion's Foot		
Lens Grass			<i>Prenanthes aspera</i>	E	
<i>Paspalum distichum</i>	S		Rough White Lettuce		
Lens Grass			<i>Psoralea stipulata</i>	E	C1
<i>Paspalum setaceum</i> var.			Scurf Pea		
<i>psammophilum</i>	S		<i>Psoralea tenuiflora</i>	E	
Lens Grass			Scurf Pea		
<i>Pedicularis lanceolata</i>	E		<i>Ptilimnium capillaceum</i>	T	
Swamp Wood Betony			Mock Bishop's-weed		
<i>Perideridia americana</i>	T		<i>Ptilimnium nuttallii</i>	E	
Perideridia			Mock Bishop's-weed		
<i>Phacelia ranunculacea</i>	S		<i>Pycnanthemum albescens</i>	E	
Phacelia			Mountain Mint		
<i>Philadelphus hirsutus</i>	E		<i>Pyrola americana</i>	E	
Mock Orange			Wintergreen		
<i>Philadelphus inodorus</i>	E		<i>Ranunculus allegheniensis</i>	T	
Mock Orange			Allegheny Crowfoot		
<i>Philadelphus pubescens</i>	T		<i>Ranunculus ambigens</i>	S	
Mock Orange			Water Spearwort		
<i>Phlox bifida</i> ssp. <i>stellaria</i>	T	C2	<i>Rhododendron canescens</i>	E	
Cleft Phlox			Honeysuckle Bush		
<i>Physostegia intermedia</i>	E		<i>Rhynchosia tomentosa</i>	E	
False Dragonhead			Erect Rhynchosia		
<i>Plantago cordata</i>	E	C2	<i>Rhynchospora globularis</i>	E	
Heart-leaved Plantain			Grass Beak Rush		
<i>Platanthera cristata</i>	E		<i>Rhynchospora macrostachya</i>	E	
Crested Fringed Orchid			Horned Rush		
<i>Platanthera integrilabia</i>	E	C2	<i>Rubus whartoniae</i>	S	C2
White Fringeless Orchid			Wharton's Bramble		
<i>Platanthera psycodes</i>	E		<i>Rudbeckia subtomentosa</i>	T	
Purple Fringed Orchid			Sweet Coneflower		
<i>Poa languida</i>	E		<i>Sabatia campanulata</i>	E	
Weak Bluegrass			Rose Pink		
<i>Podostemon ceratophyllum</i>	T		<i>Sagittaria brevirostra</i>	S	
Riverweed			Arrowhead		
<i>Pogonia ophioglossoides</i>	E		<i>Sagittaria graminea</i>	T	
Rose Pogonia			Grass-leaved Arrowhead		
<i>Polemonium reptans</i> var.			<i>Salvia urticifolia</i>	E	
<i>villosum</i>	S	C2	Sage		
Hairy Jacob's Ladder			<i>Sambucus racemosa</i>	T	
			Red-berried Elder		

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Sanguisorba canadensis</i>	E		<i>Solidago spathulata</i>	S	
American Burnet			Goldenrod		
<i>Saxifraga michauxii</i>	E		<i>Solidago squarrosa</i>	E	
Michaux's Saxifrage			Squarrose Goldenrod		
<i>Saxifraga micranthidifolia</i>	E		<i>Sparganium eurycarpum</i>	E	
Brook Lettuce			Common Bur Reed		
<i>Schizachne purpurascens</i>	E		<i>Sphenopholis pensylvanica</i>	E	
False Melic			Swamp Oats		
<i>Schwalbea americana</i>	E	C2	<i>Spiraea alba</i>	E	
Chaffseed			Meadow Sweet		
<i>Scirpus expansus</i>	S		<i>Spiranthes lucida</i>	T	
Bulrush			Shining Ladies' Tresses		
<i>Scirpus fluviatilis</i>	T		<i>Spiranthes magnicamporum</i>	E	
Bulrush			Ladies' Tresses		
<i>Scirpus hallii</i>	E		<i>Spiranthes odorata</i>	E	
Bulrush			Sweet Lady's Tresses		
<i>Scirpus heterochaetus</i>	E		<i>Sporobolus clandestinus</i>	E	
Bulrush			Dropseed		
<i>Scirpus microcarpus</i>	E		<i>Sporobolus heterolepis</i>	E	
Bulrush			Prairie Dropseed		
<i>Scleria ciliata</i>	E		<i>Stachys eplingii</i>	S	
Nut Rush			Hedge-nettle		
<i>Scutellaria leonardii</i>	S		<i>Stellaria longifolia</i>	S	
Small Skullcap			Switchwort		
<i>Sedum telephioides</i>	T		<i>Streptopus roseus</i>	E	
Live Forever			Twisted Stalk		
<i>Sida hermaphrodita</i>	E		<i>Styrax grandifolia</i>	S	
Virginia Mallow			Storax		
<i>Silene ovata</i>	T		<i>Sullivantia sullivantii</i>	E	
Catchfly			Sullivant's Sullivantia		
<i>Silene regia</i>	E	C2	<i>Symphoricarpos albus</i>	E	
Royal Catchfly			Snowberry		
<i>Silphium laciniatum</i>	S		<i>Synandra hispidula</i>	--	C2
Compass Plant			Synandra		
<i>Silphium terebinthinaceum</i> var.			<i>Taxus canadensis</i>	S	
<i>lucy-brauniae</i>	S		Canadian Yew		
Lucy Braun's Prairie Dock			<i>Tephrosia spicata</i>	E	
<i>Smilacina stellata</i>	E		Goat's-rue		
Starry-flowered False Solomon's			<i>Thalictrum coriaceum</i>	E	
Seal			Maid-of-the-Mist		
<i>Solidago albopilosa</i>	E	C1	<i>Thalictrum mirabile</i>	S	
White-haired Goldenrod			Meadow Rue		
<i>Solidago buckleyi</i>	S		<i>Thaspium pinnatifidum</i>	S	
Buckley's Goldenrod			Cutleaf Meadow Parsnip		
<i>Solidago curtisii</i>	S		<i>Thermopsis mollis</i>	E	
Curtis' Goldenrod			Bush Pea		
<i>Solidago puberula</i>	T		<i>Thuja occidentalis</i>	S	
Puberulent Goldenrod			Northern White Cedar		
<i>Solidago radula</i>	E		<i>Torreyochloa pallida</i>	E	
Rough Goldenrod			Pale Manna Grass		
<i>Solidago roanensis</i>	T		<i>Trepocarpus aethusae</i>	E	
Roan Mountain Goldenrod			Trepocarpus		
<i>Solidago rupestris</i>	E		<i>Trichomanes boschianum</i>	S	
Goldenrod			Filmy Fern		
<i>Solidago shortii</i>	E	E	<i>Trichostema setaceum</i>	S	
Short's Goldenrod			Blue Curls		

	KAS- KNPC	STATUS FEDERAL
<i>Trifolium reflexum</i>	E	
Buffalo Clover		
<i>Trifolium stoloniferum</i>	E	C1
Running Buffalo Clover		
<i>Trillium nivale</i>	E	
Snow Trillium		
<i>Trillium pusillum</i>		
var. <i>ozarkanum</i>	E	C2
Ozark Wake Robin		
<i>Trillium undulatum</i>	T	
Painted Trillium		
<i>Ulmus serotina</i>	S	
September Elm		
<i>Utricularia vulgaris</i>	E	
Bladderwort		
<i>Vallisneria americana</i>	S	
Tape Grass		
<i>Veratrum parviflorum</i>	T	
False Hellebore		
<i>Veratrum woodii</i>	T	
Wood's False Hellebore		
<i>Vernonia fasciculata</i>	S	
Fascicled Ironweed		
<i>Vernonia noveboracensis</i>	E	
New York Ironweed		
<i>Viburnum lentago</i>	E	
Nannyberry		
<i>Viburnum nudum</i>	E	
Possum Haw		
<i>Viola egglestonii</i>	T	
Glade Violet		
<i>Viola pedatifida</i>	S	
Prairie Violet		
<i>Viola tripartita</i>	E	
Yellow Violet		
<i>Viola walteri</i>	E	
Walter's Violet		
<i>Woodsia scopulina</i>	E	
Mountain Cliff Fern		
<i>Xerophyllum asphodeloides</i>	S	
Turkey Beard		
<i>Zizania aquatica</i>	E	
Wild Rice		
<i>Zizaniopsis miliacea</i>	E	
Southern Wild Rice		

ANIMAL LIST

	KAS- KNPC	STATUS FEDERAL
CRUSTACEANS		
<i>Caecidotea barri</i>		
Clifton Cave isopod	--	C2
<i>Cambarellus puer</i>	E	
Crayfish		
<i>Cambarellus shufeldtii</i>	S	
Crayfish		

	KAS- KNPC	STATUS FEDERAL
<i>Cambarus batchi</i>	E	C2
Crayfish		
<i>Cambarus bouchardi</i>	E	C2
Big South Fork crayfish		
<i>Cambarus cornutus</i>	S	
Crayfish		
<i>Cambarus ornatus</i>	S	
Crayfish		
<i>Cambarus parvovulus</i>	E	
Crayfish		
<i>Cambarus sciotensis</i>	E	
Crayfish		
<i>Gammarus bousfieldi</i>	E	C2
Bousfield's amphipod		
<i>Orconectes australis</i>	T	
Crayfish		
<i>Orconectes bisectus</i>	E	
Crayfish		
<i>Orconectes inermis</i>	T	
Crayfish		
<i>Orconectes jeffersoni</i>	E	C2
Louisville crayfish		
<i>Orconectes lancifer</i>	E	
Crayfish		
<i>Orconectes palmeri</i>	E	
Crayfish		
<i>Orconectes pellucidus</i>	S	
Crayfish		
<i>Palaemonias ganteri</i>	E	E
Kentucky cave shrimp		
<i>Procambarus viaeviridis</i>	T	
Crayfish		
GASTROPODS		
<i>Leptoxis praerosa</i>	--	C2
Onyx rocksnail		
<i>Lithasia armigera</i>	--	C2
Armored rocksnail		
<i>Lithasia geniculata</i>	--	C2
Ornate rocksnail		
<i>Lithasia salebrosa</i>	--	C2
Rustic rocksnail		
<i>Lithasia verrucosa</i>	--	C2
Varicose rocksnail		

PELECYPODS

<i>Alasmidonta atropurpurea</i>	E	C2
Cumberland elktoe		
<i>Alasmidonta marginata</i>	T	
Elktoe		
<i>Cumberlandia monodonta</i>	E	C2
Spectacle case		
<i>Cyprogenia stegaria</i>	T	C2
Fanshell		
<i>Dromus dromas</i>	E	E
Dromedary mussel		

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Epioblasma arcaeformis</i>	E		<i>Pleurobema plenum</i>	E	E
Sugarspoon			Rough pigtoe		
<i>Epioblasma biemarginata</i>	E		<i>Pleurobema pyramidatum</i>	E	C2
Angled riffleshell			Pyramid pigtoe		
<i>Epioblasma brevidens</i>	E	C2	<i>Potamilus capax</i>	E	E
Cumberland combshell			Fat pocketbook		
<i>Epioblasma capsaeformis</i>	E	C2	<i>Ptychobranhus subtentum</i>	T	
Oyster mussel			Fluted kidneyshell		
<i>Epioblasma florentina</i>	E	E	<i>Quadrula cylindrica</i>	E	C2
Yellow-blossom pearlymussel			Rabbitsfoot		
<i>Epioblasma florentina walkeri</i>	E	E	<i>Quadrula fragosa</i>	E	C2
Tan riffleshell			Winged mapleleaf		
<i>Epioblasma haysiana</i>	E		<i>Quadrula sparsa</i>	E	E
Acornshell			Appalachian monkeyface		
<i>Epioblasma lewisi</i>	E		<i>Simpsonaias ambigua</i>	T	C2
Forkshell			Salamander mussel		
<i>Epioblasma obliquata</i>	E	C2	<i>Toxolasma lividus</i>	E	
Catspaw			Purple lilliput		
<i>Epioblasma stewardsoni</i>	E		<i>Villosa fabalis</i>	E	C2
Cumberland leafshell			Bean villosa		
<i>Epioblasma torulosa rangiana</i>	E		<i>Villosa lienosa</i>	S	
Northern riffleshell			Little spectacle case		
<i>Epioblasma torulosa torulosa</i>	E	E	<i>Villosa ortmanni</i>	E	C2
Tubercled blossom			Kentucky creekshell		
<i>Epioblasma triquetra</i>	S		<i>Villosa trabalis</i>	E	E
Snuffbox			Cumberland bean mussel		
<i>Fusconaia subrotunda</i>			<i>Villosa vanuxemensis</i>	T	
<i>subrotunda</i>	T		Mountain creekshell		
Long-solid					
<i>Hemistena lata</i>	E	C2	FISHES		
Crackling pearlymussel			<i>Acipenser fulvescens</i>	E	C2
<i>Lampsilis orbiculata</i>	E	E	Lake sturgeon		
Pink mucket			<i>Alosa alabamiae</i>	S	
<i>Lampsilis ovata</i>	E		Alabama shad		
Pocketbook			<i>Amblyopsis spelaea</i>	S	C2
<i>Lasmigona compressa</i>	T		Northern cavefish		
Creek heelsplitter			<i>Ammocrypta asprella</i>	E	C2
<i>Lasmigona subviridis</i>	T		Crystal darter		
Green floater			<i>Ammocrypta clara</i>	E	
<i>Leptodea leptodon</i>	E	C2	Western sand darter		
Scaleshell			<i>Ammocrypta pellucida</i>	S	C2
<i>Obovaria retusa</i>	E	C2	Eastern sand darter		
Ring pink			<i>Ammocrypta vivax</i>	E	
<i>Pegias fabula</i>	E	C2	Scaly sand darter		
Little-winged pearlymussel			<i>Clinostomus elongatus</i>	S	
<i>Plethobasus cicatricosus</i>	E	E	Redside dace		
White wartyback			<i>Clinostomus funduloides</i>	S	
<i>Plethobasus cooperianus</i>	E	E	Rosyside dace		
Orange-footed pimpleback			<i>Cycleptus elongatus</i>	--	C2
<i>Plethobasus cyphus</i>	S		Blue sucker		
Bullhead			<i>Erimyzon sucetta</i>	T	
<i>Pleurobema clava</i>	E	C2	Lake chubsucker		
Clubshell			<i>Esox niger</i>	S	
<i>Pleurobema oviforme</i>	E	C2	Chain pickerel		
Tennessee clubshell			<i>Etheostoma cinereum</i>	T	
			Ashy darter		

	KAS- KNPC	STATUS FEDERAL		KAS- KNPC	STATUS FEDERAL
<i>Etheostoma fusiforme</i>	E		<i>Lepisosteus spatula</i>	E	
Swamp darter			Alligator gar		
<i>Etheostoma maculatum</i>	T		<i>Lepomis marginatus</i>	E	
Spotted darter			Dollar sunfish		
<i>Etheostoma microlepidum</i>	E		<i>Lepomis punctatus</i>	T	
Smallscale darter			Spotted sunfish		
<i>Etheostoma microperca</i>	E		<i>Lota lota</i>	S	
Least darter			Burbot		
<i>Etheostoma nigrum susanae</i>	E	C2	<i>Menidia beryllina</i>	T	
Johnny darter			Inland silverside		
<i>Etheostoma parvipinne</i>	S		<i>Moxostoma atripinne</i>	S	
Goldstripe darter			Blackfin sucker		
<i>Etheostoma proeliare</i>	T		<i>Moxostoma poecilurum</i>	S	
Cypress darter			Blacktail redhorse		
<i>Etheostoma sagitta spilotum</i>	S		<i>Nocomis biguttatus</i>	S	
Arrow darter			Hornyhead chub		
<i>Etheostoma swaini</i>	S		<i>Notropis amnis</i>	E	
Gulf darter			Pallid shiner		
<i>Etheostoma tippecanoe</i>	S		<i>Notropis camurus</i>	S	
Tippecanoe darter			Bluntnose shiner		
<i>Etheostoma lynceum</i>	S		<i>Notropis hudsonius</i>	S	
Banded darter			Spottail shiner		
<i>Etheostoma (Nanostoma) sp.</i>	S		<i>Notropis maculatus</i>	T	
Firebelly darter (undescribed)			Taillight shiner		
<i>Fundulus chrysotus</i>	E		<i>Notropis venustus</i>	E	
Golden topminnow			Blacktail shiner		
<i>Fundulus notti (=dispar)</i>	E		<i>Notropis sp.</i>	E	C2
Starhead topminnow			Palezone shiner (undescribed)		
<i>Hemitremia flammea</i>	E		<i>Notropis sp.</i>	E	
Flame chub			Sawfin shiner (undescribed)		
<i>Hybognathus hayi</i>	T		<i>Noturus exilis</i>	E	
Cypress minnow			Slender madtom		
<i>Hybognathus placitus</i>	S		<i>Noturus hildebrandi</i>	S	
Plains minnow			Least madtom		
<i>Hybopsis gelida</i>	S	C2	<i>Noturus phaeus</i>	S	
Sturgeon chub			Brown madtom		
<i>Hybopsis gracilis</i>	S		<i>Noturus stigmosus</i>	S	
Flathead chub			Northern madtom		
<i>Hybopsis insignis</i>	E		<i>Percina burtoni</i>	E	
Blotched chub			Blotchside logperch		
<i>Hybopsis meeki</i>	S	C2	<i>Percina evides</i>	S	
Sicklefin chub			Gilt darter		
<i>Hybopsis x-punctata</i>	E		<i>Percina macrocephala</i>	T	C2
Gravel chub			Longhead darter		
<i>Ichthyomyzon castaneus</i>	S		<i>Percina squamata</i>	E	
Chestnut lamprey			Olive darter		
<i>Ichthyomyzon fossor</i>	T		<i>Percopsis omiscomaycus</i>	S	
Northern brook lamprey			Trout-perch		
<i>Ichthyomyzon gagei</i>	E		<i>Phenacobius uranops</i>	S	
Southern brook lamprey			Stargazing minnow		
<i>Ichthyomyzon greeleyi</i>	T		<i>Phoxinus cumberlandensis</i>	E	C1
Mountain brook lamprey			Blackside dace		
<i>Ictiobus niger</i>	S		<i>Rhinichthys cataractae</i>	S	
Black buffalo			Longnose dace		
<i>Lampetra appendix</i>	T		<i>Scaphirhynchus albus</i>	E	C2
American brook lamprey			Pallid sturgeon		

	KAS- KNPC	STATUS FEDERAL
<i>Typhlichthys subterraneus</i>	S	
Southern cavefish		
<i>Umbra limi</i>	T	
Central mudminnow		
AMPHIBIANS		
<i>Ambystoma platineum</i>	E	
Silvery Salamander		
<i>Amphiuma tridactylum</i>	E	
Three-toed Amphiuma		
<i>Aneides aeneus</i>	--	C2
Green Salamander		
<i>Cryptobranchus alleganiensis</i>	--	C2
Hellbender		
<i>Eurycea longicauda</i>		
<i>guttolineata</i>	T	
Three-lined Salamander		
<i>Hyla avivoca</i>	T	
Bird-voiced Treefrog		
<i>Hyla cinerea</i>	S	
Green Treefrog		
<i>Hyla versicolor</i>	S	
Gray Treefrog		
<i>Plethodon cinereus</i>	S	
Redback Salamander		
<i>Plethodon wehrlei</i>	E	
Wehrle's Salamander		
<i>Rana pipiens</i>	S	
Northern Leopard Frog		
REPTILES		
<i>Chrysemys picta dorsalis</i>	S	
Southern Painted Turtle		
<i>Clonophis kirtlandii</i>	E	C2
Kirtland's Snake		
<i>Elaphe guttata</i>	S	
Corn Snake		
<i>Eumeces anthracinus</i>		
<i>anthracinus</i>	S	
Northern Coal Skink		
<i>Eumeces anthracinus pluvialis</i>	E	
Southern Coal Skink		
<i>Farancia abacura</i>	S	
Mud Snake		
<i>Lampropeltis triangulum</i>		
<i>elapsoides</i>	S	
Scarlet Kingsnake		
<i>Macrolemys temminckii</i>	T	C2
Alligator Snapping Turtle		
<i>Masticophis flagellum</i>	E	
Coachwhip		
<i>Nerodia cyclopion</i>	E	
Green Water Snake		
<i>Nerodia erythrogaster neglecta</i>	S	C2
Copperbelly Water Snake		
<i>Nerodia fasciata</i>	E	
Southern Water Snake		
<i>Ophisaurus attenuatus</i>	S	
Slender Glass Lizard		

	KAS- KNPC	STATUS FEDERAL
<i>Pituophis melanoleucus</i>	S	
Pine Snake		
<i>Sistrurus miliarius</i>	T	
Pigmy Rattlesnake		
<i>Thamnophis proximus</i>	T	
Western Ribbon Snake		
<i>Thamnophis sauritus</i>	S	
Eastern Ribbon Snake		
<i>Trionyx muticus</i>	S	
Smooth Softshell		
BIRDS		
<i>Accipiter cooperii</i>	S	
Cooper's Hawk		
<i>Accipiter striatus</i>	S	
Sharp-shinned Hawk		
<i>Actitis macularia</i>	E	
Spotted Sandpiper		
<i>Aimophila aestivalis</i>	T	C2
Bachman's Sparrow		
<i>Ammodramus henslowii</i>	S	
Henslow's Sparrow		
<i>Anas discors</i>	E	
Blue-winged Teal		
<i>Anhinga anhinga</i>	E	
Anhinga		
<i>Ardea herodias</i>	S	
Great Blue Heron		
<i>Bartramia longicauda</i>	E	
Upland Sandpiper		
<i>Botaurus lentiginosus</i>	E	
American Bittern		
<i>Bubulcus ibis</i>	S	
Cattle Egret		
<i>Campephilus principalis</i>	--	E
Ivory-billed Woodpecker		
<i>Casmerodius albus</i>	E	
Great Egret		
<i>Charadrius melodus</i>	--	T
Piping Plover		
<i>Chondestes grammacus</i>	T	
Lark Sparrow		
<i>Cistothorus platensis</i>	S	
Sedge Wren		
<i>Corvus corax</i>	E	
Common Raven		
<i>Corvus ossifragus</i>	S	
Fish Crow		
<i>Dendroica fusca</i>	T	
Blackburnian Warbler		
<i>Dendroica kirtlandii</i>	--	E
Kirtland's Warbler		
<i>Dolichonyx oryzivorus</i>	S	
Bobolink		
<i>Egretta caerulea</i>	E	
Little Blue Heron		

	KAS- KNPC	STATUS FEDERAL		KAS- KAS-KNPC	STATUS FEDERAL
<i>Elanoides forficatus forficatus</i>	--	C2	<i>Wilsonia canadensis</i>	S	
American Swallow-tailed Kite			Canada Warbler		
<i>Empidonax minimus</i>	T				
Least Flycatcher			MAMMALS		
<i>Falco peregrinus</i>	E	E	<i>Clethrionomys gapperi maurus</i>	S	C2
Peregrine Falcon			Gapper's Red-backed Mouse		
<i>Fulica americana</i>	E		<i>Felis concolor cougar</i>	E	E
American Coot			Mountain Lion		
<i>Gallinula chloropus</i>	E		<i>Lutra canadensis</i>	S	
Common Moorhen			River Otter		
<i>Haliaeetus leucocephalus</i>	E	E	<i>Microsorex hoyi winnemana</i>	--	C2
Bald Eagle			Pygmy Shrew		
<i>Ictinia mississippiensis</i>	S		<i>Mustela nivalis</i>	S	
Mississippi Kite			Least Weasel		
<i>Ixobrychus exilis</i>	E		<i>Myotis austroriparius</i>	E	C2
Least Bittern			Southeastern Myotis		
<i>Junco hyemalis</i>	S		<i>Myotis grisescens</i>	E	E
Dark-eyed Junco			Gray Myotis		
<i>Lanius ludovicianus migrans</i>	--	C2	<i>Myotis keenii</i>	S	
Migrant Loggerhead Shrike			Keen's Myotis		
<i>Lophodytes cucullatus</i>	E		<i>Myotis sodalis</i>	E	E
Hooded Merganser			Indiana Myotis		
<i>Nycticorax nycticorax</i>	E		<i>Myotis subulatus leibii</i>	E	C2
Black-crowned Night-Heron			Small-footed Myotis		
<i>Nycticorax violaceus</i>	T		<i>Neotoma floridana magister</i>	--	C2
Yellow-crowned Night-Heron			Eastern Wood Rat		
<i>Pandion haliaetus</i>	E		<i>Nycticeius humeralis</i>	T	
Osprey			Evening Bat		
<i>Passerculus sandwichensis</i>	S		<i>Peromyscus gossypinus</i>	S	
Savannah Sparrow			Cotton Mouse		
<i>Phalacrocorax auritus</i>	E		<i>Plecotus rafinesquii</i>	T	C2
Double-crested Cormorant			Rafinesque's Big-eared Bat		
<i>Pheucticus ludovicianus</i>	S		<i>Plecotus townsendii</i>		
Rose-breasted Grosbeak			<i>virginianus</i>	E	E
<i>Picoides borealis</i>	E	E	Virginia Big-eared Bat		
Red-cockaded Woodpecker			<i>Sorex cinereus</i>	S	
<i>Podilymbus podiceps</i>	E		Masked Shrew		
Pied-billed Grebe			<i>Sorex dispar</i>	E	C2
<i>Poocetes gramineus</i>	S		Long-tailed Shrew		
Vesper Sparrow			<i>Spilogale putorius</i>	S	
<i>Rallus elegans</i>	E		Spotted Skunk		
King Rail			<i>Sylvilagus aquaticus</i>	S	
<i>Riparia riparia</i>	S		Swamp Rabbit		
Bank Swallow			<i>Sylvilagus transitionalis</i>	E	C2
<i>Sterna antillarum athalassos</i>	E	E	New England Cottontail		
Interior Least Tern			<i>Ursus americanus</i>	E	
<i>Thryomanes bewickii</i>	S	C2	Black Bear		
Bewick's Wren					
<i>Tyto alba</i>	S				
Common Barn-Owl					
<i>Vermivora bachmanii</i>	E	E			
Bachman's Warbler					
<i>Vermivora chrysoptera</i>	S				
Golden-winged Warbler					
<i>Vireo bellii</i>	S				
Bell's Vireo					

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LITERATURE CITED

1. United States Congress. 1983. The Endangered Species Act as amended by Public Law 97-304 (The Endangered Species Act Amendments of 1982). U.S. Gov. Printing Office, Washington, District of Columbia.
2. Branson, B.A., D.F. Harker, Jr., J.M. Baskin, M.E. Medley, D.L. Batch, M.L. Warren, Jr., W.H. Davis, W.C. Houtcooper, B. Monroe, Jr., L.R. Phillippe, and P. Cupp. Endangered, threatened, and rare animals and plants of Kentucky. *Trans. Ky. Acad. Sci.* 42:77-89.
3. United States Fish and Wildlife Service. 1986. Endangered and threatened wildlife and plants. U.S. Dep. Inter., Washington, District of Columbia.
4. The Nature Conservancy. 1982. Natural heritage program operations manual. Revised 1985. The Nat. Conservancy, Arlington, Virginia.
5. United States Fish and Wildlife Service. 1984. Endangered and threatened wildlife and plants; review of invertebrate wildlife for listing as endangered or threatened species. *Federal Register* 49:21664-21675.
6. United States Fish and Wildlife Service. 1986. Piping plover. *Endangered Species Tech. Bull.* 11:3.
7. United States Fish and Wildlife Service. 1985. Endangered and threatened wildlife and plants; review of vertebrate wildlife. *Federal Register* 50:37958-37967.
8. United States Fish and Wildlife Service. 1985. Interior least tern. *Endangered Species Tech. Bull.* 10:7,12.
9. United States Fish and Wildlife Service. 1985. Endangered and threatened wildlife and plants; review of plant taxa for listing as endangered or threatened species; notice of review. *Federal Register* 50:39526-39527.
10. Kartesz, J.T., and R. Kartesz. 1980. A synonymized checklist of the vascular flora of the United States, Canada and Greenland. Univ. N.C. Press, Chapel Hill, North Carolina.
11. Hobbs, H.H., Jr. 1976. Crayfishes (Astacidae) of North and Middle America. *Water Pollut. Control Res. Ser.* 18050 ELD05/72, U.S. Environ. Prot. Agency, Cincinnati, Ohio.
12. Holsinger, J.R. 1972. The freshwater amphipod crustaceans (Gammaridae) of North America. *Water Pollut. Control Res. Ser.* 18050 ELD04/72, U.S. Environ. Prot. Agency, Cincinnati, Ohio.
13. United States Fish and Wildlife Service. 1980. Endangered and threatened wildlife and plants; proposed endangered status and critical habitat for the Kentucky cave shrimp. *Federal Register* 45:68975-68977.
14. Thompson, F.G. and C.M. Porter. 1985. Class Gastropoda - freshwater snails. Pp. 48-55 in *American Malacological Union suggested draft list of common names for mollusks occurring from America north of Mexico. Shells and Sea Life* 17.
15. Stansbery, D.H., and A.E. Bogan. 1985. Class Bivalvia - bivalve mollusks. Pp. 60-65 in *American Malacological Union suggested draft list of common names for mollusks occurring from America north of Mexico. Shells and Sea Life* 17.
16. Bailey, R.M., J.E. Fitch, E.S. Herald, E.A. Lachner, C.C. Lindsey, C.R. Robins, and W.B. Scott. 1970. A list of common and scientific names of fishes from the United States and Canada. 3rd Ed. *Am. Fish. Soc. Spec. Publ.* No. 6.
17. Carney, D.A. 1985. Comparative morphology and reproductive biology of two species of darters of the subgenus *Nanostoma* (Percidae: *Etheostoma*) in western Kentucky. Thesis. South. Ill. Univ. Carbondale, Carbondale, Illinois.
18. Robins, C.R., R.M. Bailey, C.E. Bond, J.R. Brooker, E.A. Lachner, R.N. Lea, and W.B. Scott. 1980. A list of common and scientific names of fishes from the United States and Canada. 4th Ed. *Am. Fish. Soc. Spec. Publ.* No. 12.
19. Stauffer, J.R., Jr., B.M. Burr, C.H. Hocutt, and R.E. Jenkins. 1982. Checklist of the fishes of the central and northern

- Appalachian Mountains. Proc. Biol. Soc. Wash. 95:27-47.
20. Collins, J.T., R. Conant, J.E. Huheey, J.L. Knight, E.M. Rundquist, and H.M. Smith. 1982. Standard common and current scientific names for North American amphibians and reptiles. 2nd Ed. Soc. Study Amphibians and Reptiles, Herpetol. Circ. No. 7.
21. American Ornithologist's Union. 1983. Checklist of North American birds. 6th Ed. Am. Ornithologist's Union, Lawrence, Kansas.
22. Hall, E.R. 1981. The mammals of North America. 2nd Ed. Vols. I and II. John Wiley and Sons, New York, New York.



Warren, Melvin L. et al. 1986. "Endangered, Threatened, and Rare plants and animals of Kentucky." *Transactions of the Kentucky Academy of Science* 47(3-4), 83-98.

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