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## Endangered, Threatened, and Rare Animals and Plants of Kentucky

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### ABSTRACT

The Endangered Species Committee of the Kentucky Academy of Science and the Kentucky Nature Preserves Commission cooperated in the development of a rare animal and plant list. The list includes 263 animal species (83 species of invertebrates, 180 species of vertebrates) and 309 vascular plant species identified as Endangered, Threatened, Special Concern, or of Undetermined status at the state or federal level. Categories for both state and federal designations are defined. Several population descriptors (endemic, disjunct, peripheral, nesting) are also used where appropriate. Each bird species listed is also given a monitoring strategy to indicate the type of records necessary for evaluation of its current status.

### INTRODUCTION

The increased concern for our total environment has led to a new awareness of endangered, threatened, and rare species of plants and animals. Since passage of the Federal Endangered Species Act of 1973, national interest in the conservation and preservation of these species has increased dramatically. Public awareness and concern have stimulated cooperation

between a variety of organizations and agencies in many states, resulting in the formation of numerous programs designed to identify species in need of protection.

Compiling this list is a fundamental step necessary to effectuate the recovery and preservation of our rich natural diversity. It is anticipated that publication of this list will encourage individuals, private organizations, and government agencies to become involved in research, preservation, management, and educational programs on behalf of these species.

The list should also serve as an important tool for developers and decision-makers. The best decisions concerning the most effective use of Kentucky's nat-

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ural resources can be made only after the most vulnerable elements of our natural diversity have been identified. Informed planning can then avoid unnecessary destruction of our rare fauna and flora.

The development of this list of endangered, threatened, and rare animals and plants of Kentucky is a result of a cooperative effort between the Endangered Species Committee of the Kentucky Academy of Science and the Kentucky Nature Preserves Commission. Development of the bird list was accomplished with the cooperation of the Academy and the Kentucky Ornithological Society.

The list includes species currently being monitored in Kentucky by the Commission, and should be considered a dynamic working document reflecting the best available information. A list of those species which have been delisted from earlier versions is maintained at the Commission.

The Commission maintains a computerized and manual data base as part of the Kentucky Natural Heritage Program. This information has been summarized and presented as the Kentucky Natural Areas Plan (Harker et al. 1980).

We invite input from all knowledgeable persons on species they feel should be added or deleted from the list. Comments on the nomenclature, occurrences of these species, or any other relevant information will also be appreciated.

#### ACKNOWLEDGMENTS

The authors wish to thank Richard Hannan, Sam Call, Van F. Denton, Ron Cicerello, Keith E. Camburn, Glen Fallo, and Dan VanNorman of the Kentucky Nature Preserves Commission staff; A. Floyd Scott, Austin Peay State University; Roger Barbour and Robert Kuehne, University of Kentucky; Ray Cranfill, University of Michigan; Raymond Athey, Paducah, Kentucky; John Thieret, Northern Kentucky University; David Stansberry, Ohio State University; James Sickel, Murray State University; Ralph Taylor, Marshall University; Bainard Palmerball, University of Louisville; and Brooks Burr,

Southern Illinois University, for contributions to the development of this list.

#### SPECIAL STATUS CODES

The intent in assigning a status to listed species in Kentucky is to (1) indicate the degree of rarity of the species, (2) indicate the degree of threat to continued survival of the species, and aid in establishing priorities for conservation and/or preservation efforts. Designations were established as a tool to monitor the survival potential of species. Only those species which, to the best of our knowledge, currently occur in Kentucky are assigned a status.

#### STATUS CATEGORIES

Four major status categories have been developed (Endangered, Threatened, Special Concern, and Undetermined) and 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 portion of its range in Kentucky, including those species proposed or recognized as generally endangered that occur in Kentucky.

**Threatened (T).** A species which is likely to become endangered within a foreseeable future throughout all or a significant portion of its range in Kentucky, including those species proposed or recognized as federally threatened that occur in Kentucky.

**Special Concern (S).** A species which should be continually 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, or (d) experienced researchers have identified other factors.

**Undetermined (U).** A species that has been suggested as threatened, endangered, or extirpated, but insufficient information exists for assignment to Special Concern, Threatened, or Endangered status categories.

#### ENDANGERED PLANTS

##### DESCRIPTIVE CATEGORIES

Descriptive categories we use, which may be used in conjunction with the major status categories, to describe certain aspects of the geographic distribution, population dynamics, and/or characteristics of a species in Kentucky. These classifications (lower case letters and enclosed in parentheses) are defined as follows:

**Peripheral (p).** A species which occurs in Kentucky represents the outer limit of its natural range.

**Endemic (e).** A species confined to a significant portion of its range in Kentucky.

**Distinct (d).** A species which occurs in Kentucky represents a distinct entity from the primary contiguous population or a discontinuous distribution.

**Nesting (n).** A bird species which occurs in Kentucky but may be present only during nesting times, especially during migration. Kentucky status, therefore, refers to the nesting dynamics of the species, not the population dynamics or distribution sites of these species in Kentucky. Protection of rare or unique habitats is a major factor in preservation.

##### FEDERAL DESIGNATIONS

The federal designations are placed in brackets after the appropriate status category. They are defined as follows:

**Endangered (E).** Those species which are in danger of extinction throughout all or a significant portion of their range. Those species which are endangered are designated as Endangered.

**Threatened (T).** Those species which are likely to become endangered within a foreseeable future throughout a significant portion of their range. Those species which are threatened are designated as Threatened.

**Candidate for Listing (CL).** This designation includes those species currently under review for federal protection. (Federal Register 1980a).

##### BIRD MONITORING STRATEGY

In an attempt to reflect the information required to make an accurate assessment

tern Illinois University, for contributions to the development of this list.

#### SPECIAL STATUS CODES

The intent in assigning a status to a species in Kentucky is to (1) indicate the degree of rarity of the species; (2) indicate the degree of threat to continued survival of the species, and (3) establishing priorities for conservation and/or preservation efforts. Designations were established as a tool for the survival potential of species. Only those species which, to our knowledge, currently exist in Kentucky are assigned a status.

#### STATUS CATEGORIES

Four major status categories have been developed (Endangered, Threatened, of Concern, and Undetermined) and are coded in capital letters and are as follows:

*Endangered (E).* A species which is at risk of extirpation and/or extinction throughout all or a significant portion of its range in Kentucky, including those proposed or recognized as endangered that occur in Kentucky.

*Threatened (T).* A species which is likely to become endangered within the foreseeable future throughout all or a significant portion of its range in Kentucky, including those species proposed or recognized as federally threatened that occur in Kentucky.

*Of Concern (S).* A species that will be continually monitored because it exists in a limited geographic area, may become threatened or endangered due to modification or destruction of its habitat, (c) certain characteristics or elements make it especially vulnerable to specific pressures, or (d) experienced observers have identified other factors.

*Undetermined (U).* A species that has suggested as threatened, endangered, extirpated, but insufficient information exists for assignment to Species, Threatened, or Endangered categories.

#### DESCRIPTIVE CATEGORIES

Descriptive categories were developed, which may be used in conjunction with the major status categories, to describe certain aspects of the geographical distribution, population dynamics, or behavioral characteristics of a species within Kentucky. These classifications (coded as lower case letters and enclosed in parentheses) are defined as follows:

*Peripheral (p).* A species whose occurrence in Kentucky represents the edge of its natural range.

*Endemic (e).* A species confined to or with a significant portion of its range in Kentucky.

*Disjunct (d).* A species whose occurrence in Kentucky represents a separation from the primary contiguous population or a discontinuous distribution.

*Nesting (n).* A bird species which rarely nests in Kentucky but may be common at other times, especially during migration. The Kentucky status, therefore, is based upon the nesting dynamics of the species and not the population dynamics. The nesting sites of these species may be indicative of rare or unique habitat worthy of preservation.

#### FEDERAL DESIGNATION

The federal designations are enclosed in brackets after the appropriate species and are defined as follows:

*Endangered (E).* Those species in danger of extinction throughout all or a significant portion of their range. Those proposed endangered are designated as PE.

*Threatened (T).* Those species that are likely to become endangered within the foreseeable future throughout all or a significant portion of their range. Those proposed threatened are designated as PT.

*Candidate for Listing (CL).* This designation includes those species that are currently under review for federal listing (Federal Register 1980a).

#### BIRD MONITORING STRATEGIES

In an attempt to reflect the information required to make an accurate assessment

of the rare Kentucky avifauna, four monitoring strategies have been designed. These strategies will yield the maximum amount of useful data concerning occurrences, population dynamics, and seasonal fluctuations in response to the behavioral characteristics of individual species. These data will help identify and ultimately protect valuable habitat necessary for the continued existence of each species.

*Monitoring Strategy I.* Record and map all past and present occurrences. This includes nest records and valid sightings at any time of the year. This strategy is appropriate for our rarest birds for which any information is important.

*Monitoring Strategy II.* Record information concerning current population dynamics including but not limited to: Christmas counts, U.S. Fish and Wildlife breeding bird counts, National Wildlife Federation bird counts, or any species specific counts yielding information on distribution and abundance. These counts will be used to identify local, regional, and/or national trends of the desired species. Occurrence information is not mapped.

*Monitoring Strategy III.* Record and map all past and present summer sightings and summer nest sites observed from June 1 through July 31. The occurrence of a singing male on territory during the months of June and July should be regarded as a legitimate record. This strategy also pertains to those species whose occurrence in Kentucky represents the peripheral margin of the breeding range (p) and to those species that have so declined in their breeding population levels (b) that monitoring is now necessary.

*Monitoring Strategy IV.* Record and map all past and present nesting sites. This strategy is appropriate for those species that are colonial (c) and for which few breeding sites exist in the state and for those species that utilize an important ecological habitat (h) for breeding.

## INTRODUCTION TO THE ANIMAL LIST

The animal list represents a synthesis of information gathered from a variety of local, regional, state, and federal sources. The list reflects an extensive literature review and an examination of museum specimens. Several species are included which have not been taxonomically described. The sources most commonly consulted for common and scientific names are: Pelecypods, Stansbery (1980); gastropods, Pilsbry (1939), Branson (1970); crustaceans, Federal Register (1980b), Hobbs (1977), Holsinger (1976), Pennak (1978); fishes, Bailey et al. (1970), Robins et al. (1986); amphibians and reptiles, Collins et al. (1978); birds, American Ornithologists' Union (1957, and supplements); mammals, Hall (1981). Common and scientific names of species recently described reflect the available literature.

## ANIMAL LIST

PELECYPODS	STATUS	STATUS
<i>Alasmidonta atropurpurea</i>	E	<i>Villosa fabalis</i>
<i>Cumberlandia monodonta</i>	E	<i>Villosa lienosa</i>
<i>Cyprogenia stegaria</i>	T	<i>Villosa ortmanni</i>
<i>Dromus dromas</i>	E [E]	<i>Villosa trabalis</i>
<i>Epioblasma arcaeformis</i>	E	<i>Villosa vanuxemi</i>
<i>Epioblasma biemarginata</i>	E	
<i>Epioblasma brevidens</i>	E	
<i>Epioblasma capsaeformis</i>	E	
<i>Epioblasma cincinnatensis</i>	E	<b>GASTROPODS</b>
<i>Epioblasma flexuosa</i>	E	<i>Anculosa praerrosa</i>
<i>Epioblasma florentina</i>	E [E]	<i>Antroseriates spiralis</i>
<i>Epioblasma haystana</i>	E	<i>Helicodiscus fimbriatus</i>
<i>Epioblasma lewisi</i>	E [E]	<i>Helicodiscus notius specus</i>
<i>Epioblasma obliquata</i>	E	<i>Helicodiscus punctatellus</i>
<i>Epioblasma personata</i>	E	<i>Lithasia armigera</i>
<i>Epioblasma propinqua</i>	E	<i>Lithasia geniculata</i>
<i>Epioblasma rangiana</i>	E	<i>Lithasia obovata</i>
<i>Epioblasma sampsoni</i>	E	<i>Lithasia salebrosa</i>
<i>Epioblasma stewartsoni</i>	E	<i>Lithasia verrucosa</i>
<i>Epioblasma torulosa torulosa</i>	E [E]	<i>Nitocris trilineata</i>
<i>Epioblasma triquetra</i>	S	<i>Pleurocera acuta</i>
<i>Epioblasma walkeri</i>	E [E]	<i>Pleurocera alveare</i>
<i>Fusconaia maculata</i>	E	<i>Pleurocera curta</i>
<i>Hemistena lata</i>	E	<i>Rhodacmea elatior</i>
<i>Lampsilis orbiculata</i>	E [E]	<i>Vitrinizonites latissimus</i>
<i>Lasmigona compressa</i>	S(p)	
<i>Lasmigona subviridis</i>	U	<b>CRUSTACEANS</b>
<i>Leptodea leptodon</i>	E	<i>Cambarellus shufeldtii</i>
<i>Obovaria retusa</i>	E	<i>Cambarus batchi</i>
<i>Pegas fabula</i>	E	<i>Cambarus bouchardi</i>
<i>Plethobasus cicatricosus</i>	E [E]	<i>Cambarus cornutus</i>
<i>Plethobasus cooperianus</i>	E [E]	<i>Cambarus ornatus</i>
<i>Plethobasus cyphyus</i>	T	<i>Cambarus parvulus</i>
<i>Pleurobema clava</i>	E	<i>Eubranchipus neglectus</i>
<i>Pleurobema oviforme</i>	T	<i>Gammarus bousfieldi</i>
<i>Pleurobema plenum</i>	E [E]	<i>Orconectes australis</i>
<i>Pleurobema rubrum</i>	E	<i>Orconectes bisectus</i>
<i>Potamilus capax</i>	E [E]	<i>Orconectes inermis</i>
<i>Ptychobranchus subtentum</i>	T	<i>Orconectes jeffersoni</i>
<i>Quadrula cylindrica</i>	E	<i>Orconectes kentuckiensis</i>
<i>Quadrula fragosa</i>	U	<i>Orconectes lancifer</i>
<i>Quadrula sparsa</i>	E [E]	<i>Orconectes pellucidus</i>
<i>Simpsonaias ambigua</i>	E	<i>Orconectes rafinesquei</i>
<i>Toxolasma lividus</i>	S	<i>Orconectes tricuspidis</i>
		<i>Palaemonias ganteri</i>

	STATUS		STATUS
<i>Acipenser fulvescens</i> Lake sturgeon	T	<i>Hybopsis insignis</i> Blotched chub	S
<i>Alosa alabamae</i> Alabama shad	U	<i>Hybopsis meeki</i> Sticklefin chub	U
<i>Gobiomorus spilaeta</i> Northern cavefish	S	<i>Hybopsis x-punctata</i> Gravel chub	U
<i>Gobiomorus asprella</i> Crystal darter	E	<i>Ichthyomyzon castaneus</i> Chestnut lamprey	S
<i>Gobiomorus clarus</i> Western sand darter	E	<i>Ichthyomyzon fossor</i> Northern brook lamprey	T(p)
<i>Gobiomorus pellucida</i> Eastern sand darter	T	<i>Ichthyomyzon gagei</i> Southern brook lamprey	U
<i>Gobio ruptus vivax</i> Slate sand darter	E(p)	<i>Ichthyomyzon greeleyi</i> mountain brook lamprey	U
<i>Gobio agassizii</i> Spring cavefish	S	<i>Ichthyomyzon unicuspis</i> Silver lamprey	S(p)
<i>Gasterosteus elongatus</i> Side dace	U(p)	<i>Ictiobus niger</i> Black buffalo	U
<i>Gasterosteus funduloides</i> Side dace	S	<i>Lampetra appendix</i> American brook lamprey	S
<i>Gasterosteus elongatus</i> Sucker	T	<i>Lepisosteus oculatus</i> Spotted gar	T
<i>Gasterosteus zonatus</i> Sized pygmy sunfish	S(p)	<i>Lepisosteus spatula</i> Alligator gar	T(p)
<i>Gasterosteus punctatus</i> Chubsucker	U	<i>Lepomis marginatus</i> Dollar sunfish	T
<i>Gasterosteus oshoensis</i> Muskelunge	S	<i>Lepomis punctatus</i> Spotted sunfish	S
<i>Gasterosteus aculeatus</i> Pickerel	T(p)	<i>Lepomis symmetricus</i> Bantam sunfish	S(p)
<i>Gasterosteus aculeatus cinereum</i> Darter	E	<i>Lota lota</i> Burbot	U(p)
<i>Gasterosteus aculeatus fusiforme</i> Darter	S(p)	<i>Moxostoma atripinnne</i> Blackfin sucker	T(e)
<i>Gasterosteus aculeatus histrio</i> Horsequin darter	T(p)	<i>Nocomis biguttatus</i> Hornyhead chub	U
<i>Gasterosteus aculeatus microlepidum</i> Scale darter	U	<i>Notropis amnis</i> Pallid shiner	U
<i>Gasterosteus aculeatus microporca</i> East darter	E(p)	<i>Notropis ariommus</i> Popeye shiner	U
<i>Gasterosteus aculeatus nigrum susanae</i> Darter	T(e)	<i>Notropis camurus</i> Bluntnose shiner	U(p)
<i>Gasterosteus aculeatus purpurinne</i> Blue stripe darter	E(p)	<i>Notropis maculatus</i> Taillight shiner	T(p)
<i>Gasterosteus aculeatus sagitta</i> Darter	T(e)	<i>Notropis shumardi</i> Silverband shiner	U
<i>Gasterosteus aculeatus swaini</i> Swain darter	S(p)	<i>Notropis</i> sp. Palezone shiner (undescribed)	E(e)
<i>Gasterosteus aculeatus tippicanoe</i> Tippicanoe darter	E	<i>Notropis</i> sp. Sawfin shiner (undescribed)	T(p)
<i>Gasterosteus aculeatus chrysotus</i> Golden topminnow	S(p)	<i>Notropis venustus</i> Blacktail shiner	S(p)
<i>Gasterosteus aculeatus notti</i> Nott's minnow	S	<i>Noturus hildebrandi</i> Least madtom	S(p)
<i>Gasterosteus aculeatus flammnea</i> Flame chub	U	<i>Noturus phaeus</i> Brown madtom	S(p)
<i>Gasterosteus aculeatus hayi</i> Hay's minnow	T(p)	<i>Noturus stigmosus</i> Northern madtom	T
<i>Gasterosteus aculeatus placitus</i> Placid minnow	U(p)	<i>Perca flavescens</i> Yellow perch	U
<i>Gasterosteus aculeatus zelula</i> Zelula chub	U(p)	<i>Percina burtoni</i> Blotchside logperch	E
<i>Gasterosteus aculeatus gracilis</i> Gracile chub	U(p)	<i>Percina copelandi</i> Channel darter	S

	STATUS		STATUS
<i>Percina evides</i>	S	<i>Elaeophis guttata</i>	S(d)
Gilt darter		Corn Snake	T
<i>Percina macrocephala</i>	T	<i>Eumeces anthracinus</i>	
Longhead darter		Coal Skink	
<i>Percina (Odontopholis) sp.</i>	S(e)	<i>Graptemys kohni</i>	U
Blackfin darter (undescribed)		Mississippi Map Turtle	
<i>Percina ouachitae</i>	U	<i>Graptemys pseudogeographica</i>	U
Saddleback darter		False Map Turtle	
<i>Percina oxyrhyncha</i>	U	<i>Lampropeltis triangulum</i>	S
Sharpnose darter		<i>elapsooides</i>	
<i>Percina phoxocephala</i>	S	Scarlet Kingsnake	
Slenderhead darter		<i>Lampropeltis triangulum syspila</i>	S(p)
<i>Percina shumardi</i>	T	Red Milk Snake	
River darter		<i>Macroclemys temmincki</i>	U
<i>Percina squamata</i>	E	Alligator Snapping Turtle	
Olive darter		<i>Masticophis flagellum</i>	E
<i>Percopsis omiscomaycus</i>	S(p)	Coachwhip	
Trout-perch		<i>Nerodia cyclopion</i>	
<i>Phenacobius uranops</i>	S	Green Water Snake	
Stargazing minnow		<i>Nerodia fasciata</i>	
<i>Phoxinus cumberlandensis</i>	T(e)	Southern Water Snake	
Blackside dace		<i>Ophisaurus attenuatus</i>	
<i>Polyodon spathula</i>	S	Slender Glass Lizard	
Paddlefish		<i>Pituophis melanoleucus</i>	
<i>Scaphirhynchus platorynchus</i>	T	Pine Snake	
Shovelnose sturgeon		<i>Sistrurus miliaris</i>	E(p)
<i>Typhlichthys subterraneus</i>	T	Pigmy Rattlesnake	
Southern cavefish		<i>Thamnophis proximus</i>	
<i>Umbra limi</i>	T(p)	Western Ribbon Snake	
Central mudminnow			
<b>AMPHIBIANS</b>			
<i>Ambystoma talpoideum</i>	S		
Mole Salamander		<b>BIRDS</b>	
<i>Amphiuma tridactylum</i>	U	<i>Accipiter cooperi</i>	II
Three-toed Amphiuma		Cooper's Hawk	
<i>Cryptobranchus alleganiensis</i>	T	<i>Accipiter striatus</i>	II
Hellbender		Sharp-shinned Hawk	
<i>Hemidactylum scutatum</i>	T	<i>Aimophila aestivalis</i>	III(b)
Four-toed Salamander		Backman's Sparrow	
<i>Hyla avivoca</i>	S	<i>Ammodramus henslowii</i>	III(p)
Bird-voiced Treefrog		Henslow's Sparrow	
<i>Hyla cinerea</i>	T	<i>Ammodramus savannarum</i>	III(b)
Green Treefrog		Grasshopper Sparrow	
<i>Hyla gratiosa</i>	E	<i>Aquila chrysaetos</i>	I
Barking Treefrog		Golden Eagle	
<i>Plethodon cinereus</i>	S(p)	<i>Archilochus colubris</i>	II
Redback Salamander		Ruby-throated Hummingbird	
<i>Rana areolata</i>	U	<i>Ardea herodias</i>	IV(c)
Crawfish Frog		Great Blue Heron	
<i>Siren intermedia</i>	U	<i>Bartramia longicauda</i>	III(p)
Lesser Siren		Upland Sandpiper	
<b>REPTILES</b>			
<i>Cemophora coccinea</i>	U	<i>Botaurus lentiginosus</i>	IV(h)
Scarlet Snake		American Bittern	
<i>Chrysemys concinna</i>	U	<i>Buteo lineatus</i>	II
River Cooter		Red-shouldered Hawk	
<i>Chrysemys floridana</i>	U	<i>Casmerodium albus</i>	IV
Cooter		Great Egret	
<i>Clonophis kirtlandi</i>	E	<i>Cathartes fuscescens</i>	III(p)
Kirtland's Water Snake		Veery	
		<i>Chondestes grammacus</i>	III(b)
		Lark Sparrow	
		<i>Circus cyaneus</i>	II
		Marsh Hawk	
		<i>Cistothorus platensis</i>	III(p)
		Short-billed Marsh Wren	

## ENDANGERED PLANTS AND ANIMALS OF KENTUCKY—Branson et al.

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STATUS	STRATEGY	STATUS	STRATEGY	STATUS
S(p)				
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## VASCULAR PLANT ELEMENTS

The plant element list is composed primarily of native taxa which are known to occur in three or fewer counties. A few taxa, however, are retained on the list though they are known from more than three counties because they are of concern or are known to be rare in Kentucky. Some taxa, recorded to date from a few counties, have not been listed when the best available botanical opinion suggests that these species are more common than records indicate.

The preparation of this list is the result of an extensive literature review and examination of herbaria specimens. For consistency, the scientific names utilized in this study is standardized to Kartesz and Kartesz (1980). One species is included which has not been validly published.

## PLANT LIST

PTERIDOPHYTES		STATUS	NAME	COMMON NAME
<i>Adiantum capillus-veneris</i>	E	<i>Calamagrostis porteri</i>	C	Porter's Reed Grass
Venus Hair Fern		<i>Porter's Reed Grass</i>		
<i>Botrychium matricariifolium</i>	E(p)	<i>Calopogon tuberosus</i>	T	Grass Pink
Matricary Grape Fern		<i>Grass Pink</i>		
<i>Botrychium oneidense</i>	E(p)	<i>Carex buxbaumii</i>	E	Sedge
Blunt-lobed Grape Fern		<i>Sedge</i>		
<i>Cheilanthes alabamensis</i>	E	<i>Carex craccae</i>	C	Sedge
Smooth Lip Fern		<i>Sedge</i>		
<i>Cheilanthes feei</i>	E(d)	<i>Carex hystericina</i>	E	Sedge
Slender Lip Fern		<i>Sedge</i>		
<i>Cystopteris fragilis</i> var. <i>Mackayi</i>	U	<i>Carex joorii</i>	E	Sedge
Mackay's Bladder Fern		<i>Sedge</i>		
<i>Dryopteris ludoviciana</i>	E(d)	<i>Carex lanuginosa</i>	E	Sedge
Southern Wood Fern		<i>Sedge</i>		
<i>Dryopteris spinulosa</i>	S(p)	<i>Carex leptalea</i>	C	Sedge
Spinulose Wood Fern		<i>Sedge</i>		
<i>Isoetes butleri</i>	E	<i>Carex leptomeria</i>	T	Sedge
Butler's Quillwort		<i>Sedge</i>		
<i>Isoetes melanopoda</i>	E	<i>Carex picta</i>	C	Sedge
Midland Quillwort		<i>Sedge</i>		
<i>Lycopodium appressum</i>	E	<i>Carex socialis</i>	T	Sedge
Southern Bog Clubmoss		<i>Sedge</i>		
<i>Trichomanes boschianum</i>	S	<i>Carex stricta</i>	C	Sedge
Filmy Fern		<i>Sedge</i>		
<i>Woodsia scopulina</i>	E	<i>Carex tenera</i>	C	Sedge
Mountain Cliff Fern		<i>Sedge</i>		
GYMNOSPERMS				
<i>Taxus canadensis</i>	T(d)	<i>Cymophyllum fraseri</i>	T	Fraser's Sedge
American Yew		<i>Fraser's Sedge</i>		
<i>Thuja occidentalis</i>	S(d)	<i>Cyperus diandrus</i>	C	Umbrella Sedge
Northern White Cedar		<i>Umbrella Sedge</i>		
MONOCOTYLEDONS				
<i>Allium burdickii</i>	E	<i>Cyperus retroflexus</i>	C	Umbrella Sedge
Narrow-leaved Wild Leek		<i>Umbrella Sedge</i>		
<i>Amianthium muscaetoxicum</i>	T	<i>Cypripedium candidum</i>	Eid	White Ladyslipper
Fly Poison		<i>White Ladyslipper</i>		
<i>Bouteloua curtipendula</i>	S	<i>Cypripedium</i> sp.	T	Lady's slipper (undescribed)
Side-oats Grama		<i>Lady's slipper</i> (undescribed)		
<i>Calamagrostis canadensis</i>	U	<i>Dichanthelium acuminatum</i>	C	var. <i>villosum</i>
Blue Joint Grass		<i>Panic Grass</i>		
<i>Calamagrostis cinnoides</i>	U	<i>Dichanthelium boreale</i>	U	Panic Grass
Cinna-like Reed Grass		<i>Panic Grass</i>		
		<i>Dichanthelium sabulorum</i>	U	Panic Grass
		<i>Echinodorus rostratus</i>	T	Burhead

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*Athyrium puberula*  
*Acetosella*  
*Acetosella medicaria*  
*Alpine Grass*  
*Anemone brevifolius*  
*Angel Grass*  
*Anemone dubia*  
*Apple Star Grass*  
*Anemone limosa*  
*App Mountain*  
*Archiboe odorata*  
*Aspet Grass*  
*Asplenium*  
*Atter Iris*  
*Athyrium articulatum*  
*Ash*  
*Athyrium elliotii*  
*Ash*  
*Athyrium longistylis*  
*Ash*  
*Athyrium cristata*  
*Air Grass*  
*Athyrium philadelphicum*  
*Wild Lily*  
*Athyrium superbum*  
*Wild Scap Lily*  
*Athyrium spongiosum*  
*Wild's Bit*  
*Athyrium australis*  
*Wild Twayblade*  
*Athyrium smallii*  
*Wild Twayblade*  
*Athyrium canadense*  
*Wild Lily of the Valley*  
*Athyrium virginicum*  
*Wild Flower*  
*Athyrium bushii*  
*Wild Satin Grass*  
*Athyrium cuspidata*  
*Wild Satin Grass*  
*Athyrium torreyana*  
*Wild*  
*Athyrium aquaticum*  
*Wild Club*  
*Athyrium racemosa*  
*Wild-kneeded Rice Grass*  
*Athyrium hoytianum*  
*Wild Grass*  
*Athyrium distichum*  
*Wild Grass*  
*Athyrium setaceum*  
*Wild prammophilum*  
*Wild Grass*  
*Athyrium cristata*  
*Wild Fringed Orchid*  
*Athyrium integrilabia*  
*White Fringeless Orchid*  
*Athyrium psycodes*  
*Purple Fringed Orchid*  
*Athyrium angustifolia*  
*Weak Bluegrass*  
*Athyrium ophioglossoides*  
*Polygonia*

STATUS		STATUS
E(p)	<i>Pontederia cordata</i> Pickerel Weed	S
U	<i>Potamogeton praelongus</i> Pond Weed	U
E(d)	<i>Potamogeton spirillus</i> Pond Weed	U
E	<i>Rhynchospora globularis</i> Grass Beak Rush	E
T	<i>Sagittaria brevirostra</i> Arrowhead	U
E(p)	<i>Sagittaria graminea</i> Grass-leaved Arrowhead	E
E	<i>Scleria ciliata</i> Nut Rush	E
U	<i>Scirpus expansus</i> Bulrush	U
U	<i>Scirpus fluviatilis</i> Bulrush	U
E(p)	<i>Scirpus heterochaetus</i> Bulrush	U
S(p)	<i>Scirpus purshianus</i> Bulrush	U
T	<i>Smilacina stellata</i> Starry-flowered False Solomon's Seal	E
T(p)	<i>Sparganium eurycarpum</i> Common Burr Reed	U
E(p)	<i>Sphenopholis pensylvanica</i> Swamp Oats	E
T	<i>Spiranthes lucida</i> Shining Ladies' Tresses	T
T(p)	<i>Spiranthes magnicamporum</i> Ladies' Tresses	T(p)
E	<i>Spiranthes odorata</i> Sweet Ladies' Tresses	U
U	<i>Sporobolus clandestinus</i> Rough Rush Grass	U
E(d)	<i>Sporobolus heterolepis</i> Prairie Dropseed	E
E	<i>Streptopus roseus</i> Twisted Stalk	E(p)
T	<i>Torreyochloa pallida</i> Pale Manna Grass	U
T(d)	<i>Trillium nivale</i> Snow Trillium	E(d)
U	<i>Trillium pusillum</i> var. <i>ozarkanum</i> Ozark Wake Robin	T [CL]
U	<i>Trillium undulatum</i> Painted Trillium	S(p)
E(d)	<i>Vallisneria americana</i> Tape Grass	U
E(p)	<i>Veratrum parviflorum</i> False Hellebore	T
E(p) [CL]	<i>Veratrum viride</i> False Hellebore	E(p)
E	<i>Veratrum woodii</i> Wood's False Hellebore	U
E(p)	<i>Wolffia brasiliensis</i> Water Meal	U
E(p)	<i>Xerophyllum asphodeloides</i> Turkey Beard	E
E(p)	<i>Zizania aquatica</i> Wild Rice	E

	STATUS		STATUS
<i>Zizaniopsis miliacea</i> Southern Wild Rice	T	<i>Castanea pumila</i> Chinquapin	E
<b>DICOTYLEDONS</b>		<i>Castilleja coccinea</i> Indian Paintbrush	E
<i>Acer spicatum</i> Mountain Maple	T(d)	<i>Cayaponia grandifolia</i> Cayaponia	U
<i>Aconitum uncinatum</i> Monkshood	T	<i>Ceanothus herbaceus</i> Redroot	Fed.
<i>Adlumia fungosa</i> Allegheny Vine	E	<i>Chelone obliqua</i> var. <i>obliqua</i> Pink Turtlehead	E
<i>Agalinis decemloba</i> Purple False Foxglove	E	<i>Chelone obliqua</i> var. <i>speciosa</i> Pink Turtlehead	T(CL)
<i>Agalinis fasciculata</i> Purple False Foxglove	U	<i>Chrysogonium virginianum</i> Green and Gold	E
<i>Agalinis obtusifolia</i> Purple False Foxglove	E	<i>Chrysosplenium americanum</i> Golden Saxifrage	E.P.
<i>Agalinis skinneriana</i> Purple False Foxglove	E	<i>Cicuta bulbifera</i> Bulblet-bearing Water Hemlock	E.P.
<i>Agrimonia gryposepala</i> Agrimony	E(p)	<i>Cimicifuga rubifolia</i> Bugbane	T(CL)
<i>Ampelopsis arborea</i> Pepper Vine	U	<i>Circaeaa alpina</i> Small Enchanter's Nightshade	U
<i>Angelica triquinata</i> Filmy Angelica	E	<i>Cladrastis kentukea</i> Yellow-wood	T
<i>Aplos priceana</i> Sadie Price's Potato Bean	E [CL]	<i>Clematis crispa</i> Leather Flower	U
<i>Arabis glabra</i> Tower Mustard	U	<i>Clematis glaucocephala</i> Leather Flower	U
<i>Arabis missouriensis</i> Missouri Rock Cress	E	<i>Comptonia peregrina</i> Sweet Fern	T
<i>Arabis perstellata</i> var. <i>perstellata</i> Rock Cress	E(e) [CL]	<i>Couradina verticillata</i> Cumberland Rosemary	E.P.
<i>Areanaria fontinalis</i> Water Stitchwort	T [CL]	<i>Coreopsis pubescens</i> Downy Coreopsis	U
<i>Armoracia aquatica</i> Lake Cress	U	<i>Corydalis sempervirens</i> Pale Corydalis	Ssp.
<i>Aster concolor</i> Aster	E	<i>Cotinus obovatus</i> Smoke Tree	E.P.
<i>Aster sericeus</i> Silky Aster	E	<i>Crotonopsis linearis</i> Linear Rushfoil	E
<i>Aster texanus</i> Texas Aster	U	<i>Decodon verticillatus</i> Swamp Loosestrife	S
<i>Aureolaria patula</i> False Foxglove	E [CL]	<i>Delphinium carolinianum</i> Carolina Larkspur	T(p)
<i>Baptisia leucophaea</i> Creme Wild Indigo	U	<i>Delphinium exaltatum</i> Tall Larkspur	E.P.
<i>Baptisia tinctoria</i> Yellow Wild Indigo	U	<i>Dentaria multifida</i> Much-divided Toothwort	U
<i>Bartonia virginica</i> Screwstem	E	<i>Dicliptera brachiata</i> Dicliptera	U
<i>Berchemia scandens</i> Rattan Vine	U	<i>Didiplis diandra</i> Water Purslane	T
<i>Boykinia aconitifolia</i> Brook Saxifrage	T	<i>Dioclea multiflora</i> Dioclea	U
<i>Cabomba caroliniana</i> Fanwort	U	<i>Dodecatheon frenchii</i> French's Shooting Star	T(CL)
<i>Calycanthus floridus</i> Sweet Shrub	T(p)	<i>Drosera brevifolia</i> Sundew	E(d)
<i>Calylophus serrulatus</i> Evening Primrose	U	<i>Drosera intermedia</i> Sundew	E
<i>Carya ovata</i> var. <i>australis</i> Hickory	E	<i>Erigeron pulchellus</i> var. <i>brauniae</i> . Lucy Braun's Robin Plantain	U

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STATUS		STATUS		STATUS
E	<i>Aconitum aquaticum</i> Water Eryngo	U	<i>Leavenworthia uniflora</i> Glade Cress	S
E	<i>Aconitum luciae-brauniae</i> Braun's White Snake Root	E(e) [CL]	<i>Leiophyllum buxifolium</i> Sand Myrtle	U(p)
U	<i>Aconitum maculatum</i> Pye Weed	E(p)	<i>Lesquerella globosa</i> Bladder-pod	T [CL]
E(d)	<i>Aconitum rugosum</i> var. <i>roanensis</i> Roan Mountain White Snakeroot	E(d)	<i>Leucothoe recurva</i> Fetterbush	E(p)
E	<i>Aconitum mercurialina</i> George	S	<i>Liatris pycnostachya</i> Prairie Blazing Star	E(p)
T [CL]	<i>Aconitum proserpinacoides</i> False Mermaid	T(p)	<i>Linum sulcatum</i> Grooved Yellow Flax	U
E	<i>Aconitum ligustrina</i> Giant Privet	T	<i>Lobelia nuttallii</i> Nuttall's Lobelia	T(p)
E(p)	<i>Acaena brachycera</i> Huckleberry	S	<i>Ludwigia hirtella</i> False Loosestrife	E
E(p)	<i>Acaena alba</i> Brownish Gentian	E	<i>Lysimachia fraseri</i> Fringed Loosestrife	E
T [C]	<i>Acaena decora</i> Fox Gentian	T	<i>Lysimachia radicans</i> Creeping Fringed Loosestrife	E(p)
U	<i>Acaena puberulenta</i> White Gentian	T	<i>Lysimachia terrestris</i> Swamp Candles	T
T	<i>Acaena pilosa</i> Goat Hyssop	T	<i>Malus angustifolia</i> Crab Apple	U
U	<i>Acaena hispida</i> Goat Hyssop	E	<i>Malus ioensis</i> Crab Apple	U
T	<i>Acaena hispida</i> Carolina Tree	E	<i>Marshallia grandiflora</i> Barbara's Buttons	E
T	<i>Acaena hispida</i> Penroyal	U	<i>Matelea carolinensis</i> Carolina Anglepod	E
E	<i>Acaena uniflora</i> Londonia	U	<i>Mecardonia acuminata</i> Mecardonia	T
T	<i>Acaena atrorubens</i> Red-flower	E	<i>Melampyrum lineare</i> Cow Wheat	U
S-p	<i>Acaena eggertii</i> Egert's Sunflower	E [CL]	<i>Minuartia glabra</i> Sandwort	E
E	<i>Acaena silphioides</i> Silphium-like Sunflower	U	<i>Monarda punctata</i> Dotted Monarda	E
E	<i>Acaena lanatum</i> White Parsnip	E(p)	<i>Monarda russeliana</i> Russel's Horsemint	U
S	<i>Acaena latifolia</i> Broad Aster	U	<i>Monotropis odorata</i> Sweet Pinesap	T
E(p)	<i>Acaena longipilum</i> Leaved Hawkweed	E(p)	<i>Myriophyllum heterophyllum</i> Water Milfoil	U
E(p)	<i>Acaena shuttleworthii</i> Shuttleworth's Wild Ginger	E	<i>Najas gracillima</i> Slender Naiad	U
U	<i>Acaena canadenensis</i> Seal	S	<i>Najas guadalupensis</i> Southern Naiad	U
U	<i>Acaena ovata</i> Acea	E(p)	<i>Nemophila aphylla</i> Nemophila	S
T	<i>Acaena quadrivalvis</i> Acea	U	<i>Oenothera linifolia</i> Sundrops	S
U	<i>Acaena virginianum</i> Waterleaf	T	<i>Oenothera perennis</i> Sundrops	E
T [C]	<i>Acaena adpressum</i> Downy-woort	E	<i>Oenothera triloba</i> Sundrops	T
E(d)	<i>Acaena valdiviana</i> Acea	T	<i>Onosmodium hispidissimum</i> Hairy False Gromwell	T
E	<i>Acaena exigua</i> var. <i>laciniata</i> Cress	E(e) [CL]	<i>Onosmodium molle</i> ssp. <i>molle</i> Soft False Gromwell	E [CL]
U	<i>Acaena torulosa</i> Cress	E [CL]	<i>Onosmodium molle</i> ssp. <i>occidentale</i> Western False Gromwell	E(p)

	STATUS		STAN.
<i>Oxalis priceae</i>	E	<i>Salix amygdaloides</i>	U
Price's Yellow Wood Sorrel		Peachleaf Willow	
<i>Pachistima canbyi</i>	E(d) [CL]	<i>Salvia urticifolia</i>	E
Mountain Lover		Sage	
<i>Panax quinquefolius</i>	T	<i>Sambucus racemosa</i>	T
Ginseng		Red-berried Elder	
<i>Parnassia asarifolia</i>	E	<i>Sanguisorba canadensis</i>	E
Ginger-leaved Grass-of-Parnassus		American Burnet	
<i>Parnassia grandifolia</i>	E(p)	<i>Saxifraga michauxii</i>	E(p)
Grass-of-Parnassus		Michaux's Saxifrage	
<i>Paronychia argyrocoma</i>	E	<i>Saxifraga micranthidifolia</i>	E(p)
Silver Whitlow-wort		Brook Lettuce	
<i>Perideridia americana</i>	T	<i>Schwalbea americana</i>	E(p)
Perideridia		Chaffseed	
<i>Phacelia ranunculacea</i>	U	<i>Scutellaria leonardii</i>	U
Phacelia		Small Scullicap	
<i>Philadelphus hirsutus</i>	U	<i>Sedum telephioides</i>	S
Mock Orange		Live Forever	
<i>Phlox bifida</i> ssp. <i>stellaris</i>	T [CL]	<i>Sida hermaphrodita</i>	E
Cleft Phlox		Virginia Mallow	
<i>Physostegia intermedia</i>	E	<i>Silene ovata</i>	T P
False Dragonhead		Catchfly	
<i>Plantago cordata</i>	E	<i>Silene regia</i>	E [CL]
Heart-leaved Plantain		Royal Catchfly	
<i>Podostemum ceratophyllum</i>	S	<i>Silphium laciniatum</i>	U
Riverweed		Compass Plant	
<i>Polemonium reptans</i> var. <i>villosum</i>	S [CL]	<i>Silphium terebinthinaceum</i>	U
Hairy Jacob's Ladder		var. <i>Lucy-brauniae</i>	
<i>Polygala cruciata</i>	T	Lucy Braun's Prairie Dock	E (P)
Cross Milkwort		<i>Solidago albopilosaa</i>	P
<i>Polygala nuttallii</i>	U	White-haired Goldenrod	
Nuttall's Milkwort		<i>Solidago buckleyi</i>	U
<i>Polygala polygama</i>	E	Buckley's Goldenrod	
Purple Milkwort		<i>Solidago curtissii</i>	T
<i>Polygonia laevigata</i>	E [CL]	Curtis' Goldenrod	
Leaf Cup		<i>Solidago missouriensis</i>	U
<i>Prenanthes alba</i>	E(p)	Missouri Goldenrod	
Lion's Foot		<i>Solidago puberula</i>	T
<i>Prenanthes aspera</i>	U	Puberulent Goldenrod	
Rough White Lettuce		<i>Solidago radula</i>	E
<i>Psoralea stipulata</i>	E(e) [CL]	Rough Goldenrod	
Scurf Pea		<i>Solidago rigida</i> var. <i>glabrata</i>	U
<i>Ptilimnium capillaceum</i>	T	Smooth Stiff Goldenrod	
Hair-like Mock Bishop's-weed		<i>Solidago roanensis</i>	T
<i>Ptilimnium nuttallii</i>	T	Roan Mountain Goldenrod	
Nuttall's Mock Bishop's-weed	E	<i>Solidago rupestris</i>	E
<i>Pycnanthemum albescens</i>		Goldenrod	
Mountain Mint		<i>Solidago shortii</i>	E (P)
<i>Ranunculus allegheniensis</i>	T(p)	Short's Goldenrod	E (P)
Allegheny Crowfoot		<i>Solidago spathulata</i>	T
<i>Rhododendron canescens</i>	E	Goldenrod	
Honeysuckle Bush		<i>Solidago squarrosa</i>	E
<i>Rhynchosia tomentosa</i>	E(p)	Square-rose Goldenrod	
Erect Rhynchosia		<i>Spiraea alba</i>	E
<i>Rubus whartoniae</i>	U	Meadow Sweet	
Wharton's Bramble		<i>Sporobolus clandestinus</i>	U
<i>Rudbeckia subtomentosa</i>	E(p)	Rough Rush Grass	
Sweet Coneflower		<i>Stachys eplingii</i>	E
<i>Sabatia campanulata</i>	T	Nuttall's Hedge-nettle	
Rose Pink		<i>Stellaria longifolia</i>	U
<i>Sabatia campestris</i>	E	Stitchwort	
Rose Pink		<i>Styrax grandifolia</i>	U
		Storax	

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STATUS				
U	<i>Sullivantia sullivantii</i> Sullivant's Sullivantia	E(p) [CL]	BRANSON, B. A. 1970. Checklist and distribution of Kentucky aquatic gastropods. Ky. Fish and Wildl. Res. Fish. Bull. 54, Frankfort, Ky. 20 pp.	
E	<i>Veronica hispida</i> Veronica	T [CL]	COLLINS, J. T., J. E. HUHEEY, J. L. KNIGHT, AND H. M. SMITH. 1978. Standard common and current scientific names for North American amphibians and reptiles. Soc. for Study of Amphibians and Reptiles, Herpetol. Circ. No. 7. 36 pp.	
T	<i>Veronica spicata</i> Great Rue	E	FEDERAL REGISTER. 1980a. Part IV. Department of the Interior. Fish and Wildlife Service. Endangered and threatened wildlife and plants: review of plant taxa for listing as endangered or threatened species. 45(242): 82480-82569.	
E	<i>Veronica mirabilis</i> Yellow Rue	U	FEDERAL REGISTER. 1980b. Part II. Department of the Interior. Fish and Wildlife Service. Republication of lists of endangered and threatened species and correction of technical errors in final rules. 45(99): 33768-33779.	
T-P	<i>Vitis pinnatifidum</i> Leaf Meadow Parsnip	U	HALL, E. R. 1981. The mammals of North America, 2nd ed. Vol. I and II. John Wiley and Sons, N.Y.	
E(p)	<i>Vitis mollis</i> Vine Pea	E(p)	HARKER, D. F., JR., M. E. MEDLEY, W. C. HOURCOOPER, AND A. PHILLIPPI. 1980. Kentucky natural areas plan. Ky. Nat. Pres. Comm., Frankfort, Ky.	
E-P	<i>Vitis aethusae</i> Scarpus	E	HOBBS, H. H., JR. 1976. Crayfishes (Astacidae) of North and Middle America. 18050 ELD05/72, U.S. Environ. Protec. Agency, Cincinnati, Ohio.	
I	<i>Vitis setaceum</i> Vitis	U	HOLSINGER, J. R. 1976. The freshwater amphipod crustaceans (Gammaridae) of North America. 18050 ELD04/72, U.S. Environ. Protec. Agency, Cincinnati, Ohio.	
S	<i>Vitis rotundifolia</i> Swamp Elm	U	KARTESZ, J. T., AND R. KARTESZ. 1980. A synonymized checklist of the vascular flora of the United States, Canada and Greenland. Univ. of N.C. Press, Chapel Hill, N.C.	
F	<i>Vitis gibba</i> Bladderwort	S	PENNAK, R. W. 1978. Fresh-water invertebrates of the United States. 2nd Ed. John Wiley & Sons, New York, N.Y.	
T	<i>Vitis vulgaris</i> Cavort	E	PILSBRY, H. A. 1939-1948. Land Mollusca of North America (north of Mexico). Monogr. No. 3, Vol. I, Parts 1 and 2; Vol. II, Parts 1 and 2, Acad. Nat. Sci. Phil., Philadelphia, Pa.	
E-P	<i>Vitis hispida</i> Red Ironweed	U	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.	
C	<i>Vitis cordata</i> Rock Ironweed	E	STANSBERY, D. H. 1980. A list of mussels from the Ohio River System. Unpubl. list, September 1980, Columbus, Ohio.	
T	<i>Vitis lentago</i> Berry	U		
E	<i>Vitis ovalifolia</i> Haw	E		
F	<i>Vitis rotundifolia</i> Violet	T		
C	<i>Vitis cordata</i> Leaved Violet	S		
T	<i>Vitis rotundifolia</i> Violet	T		
C	<i>Vitis rotundifolia</i> Violet	E		
F	<i>Vitis rotundifolia</i> Violet	E		

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