

NOTE

Rare and Extirpated Plants and Animals of Kentucky: 1999 Update.—The Kentucky State Nature Preserves Commission (KSNPC) published a list of rare and extirpated plants and animals of Kentucky in 1996 (1) that was updated in 1997 (2). The list and update, developed with the assistance of many scientific authorities, were based on distributional and ecological data available as of 31 Dec 1996. KSNPC (1) committed to update the list annually so that decision makers would have current information on rare species in Kentucky, but it was not updated in 1998. Herein we provide an update based on data available through 31 Dec 1998.

The methods and status categories used herein follow KSNPC (1). Species whose conservation statuses are being changed are given in Table 1; changes in nomenclature and additions to the list are presented in Tables 2 and 3, respectively. Common names are used only when there is a nomenclature change from KSNPC (1, 2) and when a species is added to the list. Sources for plant names are Cronquist (3) and Medley (4). Sources for animal names and statuses are as follows: mollusks—Turgeon et al. (5); insects—Arnett (6), Cassie et al. (7), McCafferty (8), and Schuster (9); fishes—Etnier and Starnes (10), and Page and Burr (11); amphibians and reptiles—Carlin (12) and

United States Fish and Wildlife Service (USFWS) (13); and birds—USFWS (14). We welcome questions or comments about this update or KSNPC (1, 2).

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LITERATURE CITED. (1) Kentucky State Nature Preserves Commission. 1996. Rare and extirpated plants and animals of Kentucky. Trans. Kentucky Acad. Sci. 57: 69–91. (2) Kentucky State Nature Preserves Commission. 1997. Rare and extirpated plants and animals of Kentucky: 1997 update. Trans. Kentucky Acad. Sci. 58:96–100. (3) Cronquist, A. 1980. Vascular flora of the southeastern United States. Vol. 1. Asteraceae. Univ. North Carolina

Table 1. Conservation status changes for rare and extirpated Kentucky plants and animals.

	KSNPC ¹		US ²	
	Old	New	Old	New
PLANTS				
<i>Carex buxbaumii</i>	E	H	—	—
<i>Forestiera ligustrina</i>	S	T	—	—
<i>Juncus elliotii</i>	E	H	—	—
<i>Monarda punctata</i>	E	H	—	—
<i>Myriophyllum pinnatum</i>	T	H	—	—
<i>Silene ovata</i>	E	T	—	—
FISHES				
<i>Ammocrypta pellucida</i>	S	delist	—	—
<i>Clinostomus funduloides</i>	S	delist	—	—
<i>Cyprinella camura</i>	S	E	—	—
<i>Etheostoma lynceum</i>	S	E	—	—
<i>Etheostoma parvipinne</i>	S	E	—	—
<i>Etheostoma pyrrhogaster</i>	S	E	—	—
<i>Etheostoma swaini</i>	S	E	—	—
<i>Moxostoma poecilurum</i>	S	E	—	—
<i>Noturus hildebrandi</i>	S	E	—	—
<i>Noturus phaeus</i>	S	E	—	—
REPTILES				
<i>Nerodia erythrogaster neglecta</i>	—	—	PT	—
BIRDS				
<i>Anas discors</i>	E	T	—	—
<i>Haliaeetus leucocephalus</i>	—	—	E	T

¹ S = Special Concern, T = Threatened, E = Endangered, H = Historic.
² PT = Proposed Threatened, T = Threatened, E = Endangered.

Table 2. Nomenclature changes for rare and extirpated Kentucky plants and animals.

Old Name	New Name
PLANTS	
<i>Solidago caesia</i> var. <i>curtisii</i>	<i>Solidago curtisii</i>
SNAILS	
<i>Anguispira rugoderma</i>	
Pine Mountain disc	Pine Mountain tigersnail
<i>Mesodon chilhoweensis</i>	<i>Appalachina chilhoweensis</i>
<i>Mesodon panselenus</i>	<i>Patera panselenus</i>
<i>Mesodon wetherbyi</i>	<i>Fumonelix wetherbyi</i>
<i>Triodopsis dentifera</i>	<i>Neohelix dentifera</i>
<i>Triodopsis multilineata</i>	<i>Webbhelix multilineata</i>
MUSSELS	
<i>Fusconaia subrotunda</i>	
<i>subrotunda</i>	
Long-solid	Longsolid
<i>Pegias fabula</i>	
Little-wing pearlymussel	Littlewing pearlymussel
<i>Plethobasus cooperianus</i>	
Orange-foot pimpleback	Orangefoot pimpleback
<i>Pleurobema pyramidatum</i>	<i>Pleurobema rubrum</i>
<i>Toxolasma texasensis</i>	<i>Toxolasma texasiensis</i>
INSECTS	
<i>Madeophylax</i> sp.	<i>Manophylax butleri</i>
A caddisfly (undescribed)	A limnephilid caddisfly
<i>Pseudanophthalmus</i>	
<i>abditus</i>	<i>P. horni abditus</i>
<i>Pseudanophthalmus caecus</i>	<i>P. horni caecus</i>
<i>Pseudanophthalmus major</i>	<i>P. desertus major</i>
FISHES	
<i>Fundulus dispar</i>	Northern starhead top-
Starhead topminnow	minnow
AMPHIBIANS	
<i>Eurycea longicauda</i>	
<i>guttolineata</i>	<i>E. guttolineata</i>

Table 3. Additions to the list of rare and extirpated Kentucky plants and animals.

	KSNPC ¹	US
PLANTS		
<i>Agalinis auriculata</i>	E	—
Earleaf foxglove		
<i>Aster radula</i>	E	—
Low rough aster		
<i>Bouteloua curtipendula</i>	S	—
Side-oats grama		
<i>Krigia occidentalis</i>	E	—
Western dwarf dandelion		
<i>Silphium pinnatifidum</i>	S	—
Tansy rosinweed		
<i>Silphium wasiotense</i>	S	—
Appalachian rosinweed		
<i>Vaccinium erythrocarpum</i>	E	—
Highbush cranberry		
INSECTS		
<i>Callophrys irus</i>	S	—
Frosted elfin		
<i>Ephemerella inconstans</i>	H	—
An ephemerellid mayfly		
<i>Euphyes dukesi</i>	S	—
Duke's skipper		
<i>Erora laeta</i>	S	—
Early hairstreak		
<i>Polygonia faunus</i>	H	—
Green comma		
<i>Polygonia progne</i>	H	—
Gray comma		
<i>Raptoheptagenia cruentata</i>	H	—
A heptageniid mayfly		
<i>Traverella lewisi</i>	H	—
A leptophlebiid mayfly		
BIRDS		
<i>Anas clypeata</i>	E	—
Northern shoveler		

¹ S = Special Concern, E = Endangered, H = Historic.

Press, Chapel Hill, NC. (4) Medley, M.E. 1989. *Silphium wasiotense* (Asteraceae), a new species from the Appalachian Plateaus in eastern Kentucky. Sida 13:286–291. (5) Turgeon, D.D., J.F. Quinn, A.E. Bogan, E.V. Coan, F.G. Hochberg, W.G. Lyons, P.M. Mikkelsen, R.J. Neves, C.F.E. Roper, G. Rosenberg, B. Roth, A. Scheltema, F.G. Thompson, M. Vecchione, and J.D. Williams. 1998. Common and scientific names of aquatic invertebrates from the United States and Canada: mollusks. 2nd ed. Am. Fish. Soc. Spec. Publ. 26. (6) Arnett, R.H., Jr. (ed). 1983. Checklist of the beetles of North and Central America and the West Indies. Flora and Fauna Publications, Gainesville, FL. (7) Cassie, B., J. Glassberg, P. Opler, R. Robbins, and G. Tudor. 1995. North American Butterfly Association (NABA) checklist and English names of North American butterflies. North American Butterfly Association, Morristown, NJ. (8) McCafferty, W.P. 1996. The Ephemeroptera

species of North America and index to their complete nomenclature. Trans. Am. Entomol. Soc. 122:1–54. (9) Schuster, G.A. 1997. Description of a new species of terrestrial limnephilid caddisfly (Trichoptera) from Kentucky and West Virginia (USA). Pages 417–424 in R.W. Holzenthal and O.S. Flint Jr. (eds). Proceedings of the 8th International Symposium on Trichoptera, 1995. Ohio Biological Survey, Columbus, OH. (10) Etnier, D.A., and W.C. Starnes. 1993. The fishes of Tennessee. University Press, Knoxville, TN. (11) Page, L.M., and B.M. Burr. 1991. A field guide to freshwater fishes of North America north of Mexico. Houghton Mifflin, Boston, MA. (12) Carlin, J.L. 1997. Genetic and morphological differentiation between *Eurycea longicauda longicauda* and *E. guttolineata* (Caudata: Plethodontidae). Herpetologica 53: 206–217. (13) United States Fish and Wildlife Service. 1997. Endangered and threatened wildlife and plants; de-

termination of threatened status for the northern population of the copperbelly water snake. Fed. Reg. 62:4183–4192. (14) United States Fish and Wildlife Service. 1995. Endangered and threatened wildlife and plants; final rule

to reclassify the bald eagle from endangered to threatened in all of the lower 48 states. Fed. Reg. 60:36000–36010.—**Kentucky State Nature Preserves Commission**, 801 Schenkel Lane, Frankfort, Kentucky 40601.

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