

Appendix D6

Threatened and Endangered Species

D6a. Threatened and Endangered Species List

D6b. Threatened and Endangered Species Evaluation

Tennessee Valley Authority

Reservoir Operations Study – Final Programmatic EIS



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Appendix D6a Threatened and Endangered Species List

Table D6a-01 Threatened and Endangered Species List D6a-1

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Table D6a-01 Threatened and Endangered Species List

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Plants (311)		(10)	(311)			(72)
<i>Acalypha deamii</i>	Dearm's copperleaf		TS	F, E, A		3
<i>Acer saccharum</i> ssp. <i>leucoderme</i> *	Chalk maple		TS	W, A	U	44*, 45*
<i>Acorus calamus</i> *	Sweetflag		AP	E	S	7*, 9*
<i>Adlumia fungosa</i>	Climbing fumitory		TT	W, C		72
<i>Agalinis auriculata</i>	Earleaf foxglove		TE	D		51
<i>Amsonia tabernaemontana</i> var. <i>gattingeri</i> *	Blue star ~		TS	G, O	X	20*
<i>Anemone quinquefolia</i>	Wood anemone		MP	W		23, 27
<i>Apios priceana</i>	Price potato-bean	E	KE, TE	W, A		2, 19, 78
<i>Aplectrum hyemale</i>	Putty-root		MP	W		4
<i>Aquilegia canadensis</i> *	Wild Columbine		MP	C	U	4*
<i>Arabis canadensis</i>	Rockcress ~		MP	W, C		23
<i>Arabis glabra</i>	Tower mustard		TS	O, D		3
<i>Arabis patens</i>	Spreading rockcress		TE	C, W		18, 74
<i>Arenaria fontinalis</i> *	Sandwort		TT	G, E	X	20*
<i>Arenaria godfreyi</i>	Godfrey sandwort		TE	E		70
<i>Arenaria lanuginosa</i>	Sandwort ~		TE	C, X, W		32
<i>Asarum canadense</i>	Wild ginger ~		MP	W		4, 27
<i>Asplenium pinnatifidum</i>	Pinnatifid spleenwort		MP	C		23
<i>Asplenium resiliens</i> *	Blackstem spleenwort		MP	C	U	4*
<i>Asplenium rhizophyllum</i>	Walking fern		MP	C		4, 23
<i>Asplenium trichomanes</i>	Maidenhair spleenwort		MP	C		23
<i>Aster pratensis</i>	Barrens silky aster		TT	D		3

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Aster schreberi</i>	Shreber aster	TS	W			62
<i>Aster surculosus</i>	Creeping aster	AP	X			9
<i>Astragalus tennesseensis</i>	Tennessee milk-vetch	TS	O			20
<i>Athyrium thelypteroides</i>	Silvery glade fern	MP	W			4
<i>Aureolaria patula</i> *	False foxglove ~	TT	C, A	U	11*, 13*, 14*, 15*, 16*, 17*, 34*, 51*, 52*, 53*, 54*, 55*	
<i>Baptisia bracteata</i> var. <i>leucophaea</i>	Cream wild indigo	KS, TS	X, D		2, 78	
<i>Bartonia virginica</i>	Screwstem	KT	F			2
<i>Berberis canadensis</i>	American barberry	TS	C, G, W			54, 63, 64, 67
<i>Bigelowia nuttallii</i>	Nuttall's rayless golden-rod	AP	O			9
<i>Botrychium jenmanii</i>	Alabama grapefern	TT	X, D			63
<i>Boykinia acontifolia</i>	Brook saxifrage	AP	W, A			24
<i>Bryoxiphium norvegicum</i>	Sword moss	AP	C			26
<i>Buckleya distichophylla</i> *	Sapsuck	TT	X	U	67*, 69*, 71, 72	
<i>Cacalia muehlenbergii</i>	Great indian-plantain	MP	W			27
<i>Callirhoe triangulata</i>	Poppy-mallow ~	MP	X, D			23
<i>Camassia scilloides</i> *	Wild hyacinth	MP	W	U	4*, 23*	
<i>Cardamine clematitis</i>	Mountain bitter-cress	TT	F			12, 36
<i>Cardamine flagellifera</i> *	Bitter-cress ~	TT	W, A	S	18*, 37*	
<i>Carex comosa</i>	Bristly sedge	TT	F			78
<i>Carex decomposita</i>	Epiphytic sedge	KT	F			2
<i>Carex gravida</i>	Sedge ~	TS	C			14, 51, 52
<i>Carex hitchcockiana</i>	Sedge ~	TT	W			72
<i>Carex jamesii</i>	Sedge ~	MP	W			4

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Carex picta</i>	Sedge ~	MP	X			4, 23
<i>Carex oxylepis</i> var. <i>pubescens</i>	Sedge ~	TS	A, C			3, 51
<i>Carex prasina</i> *	Sedge ~	MP	F, A	U	4*	
<i>Carex purpurifera</i>	Sedge ~	AP	W		9	
<i>Carex seorsa</i> *	Weak stellate sedge	MP	W	X	23*	
<i>Carex stricta</i>	Sedge ~	MP	E		4	
<i>Carex virescens</i>	Ribbed sedge	MP	W			23
<i>Carya aquatica</i>	Water hickory	KT	F			1
<i>Celastrus scandens</i> *	Climbing bittersweet	AP	W, A	U	6*	
<i>Cerastium velutinum</i>	Starry cerastium	TE	C		20	
<i>Cheilanthes lanosa</i>	Wooly lip-fern	MP	C, O			4
<i>Chelone glabra</i> *	Turtlehead ~	MP	F, E, A	X	23*	
<i>Chelone lyonii</i> *	Turtlehead ~	AP, MP	W	S	9*	
<i>Chimaphila maculata</i>	Spotted wintergreen	MP	X		27	
<i>Cimicifuga racemosa</i> *	Black bugbane	MP	W	U	4*	
<i>Cimicifuga rubifolia</i> *	Bugbane ~	TT	W	U	14*, 15, 17, 51, 52*, 53, 54, 61, 62, 63, 64, 65, 78	
<i>Cladrastis kentukea</i>	Yellowwood	MP	C, W		4	
<i>Claytonia caroliniana</i>	Carolina spring-beauty	AP	W		9	
<i>Clematis beadei</i> *	Clematis ~	MP	A, F	X	23*	
<i>Clematis glaucocephala</i> *	Leather-flower	TE	W, A	U	57*	
<i>Conradina verticillata</i> *	Cumberland rosemary	T	TT	G	—	51*
<i>Corallorrhiza wisteriana</i>	Wister coral-root	AP	W		9	
<i>Coreopsis auriculata</i>	Tickseed ~	MP	W		23	
<i>Coreopsis pulchra</i>	Tickseed ~	AP	O		9	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Corydalis sempervirens</i>	Pale corydalis	TE	O			71
<i>Cotinus obovatus</i>	Smoketree	AP, TS	X, O			8, 9, 11
<i>Crataegus Ashei</i>	Ashē's hawthorn	AP	D			25
<i>Cuscuta harperi</i>	Dodder ~	AP	O			9, 26
<i>Cymophyllum fraserianus</i>	Fraser sedge	TS	W			72
<i>Cyperus dentatus*</i>	Toothed cyperus	TS	A	S	37*	
<i>Cyperus engelmannii*</i>	Engelmann cyperus	TS	A, E	S	17*	
<i>Cypripedium acaule</i>	Pink lady-slipper	GE, TE	X, W		37, 44, 45, 47, 50, 51, 52, 54, 63, 69, 72	
<i>Cypripedium kentuckiense</i>	Lady-slipper	MP, TE	A, W		34	
<i>Cypripedium reginae*</i>	Showy lady-slipper	TE	F	U	72*	
<i>Cystopteris tennesseensis*</i>	Bladder-fern	AP	C	U	9*	
<i>Dalea candida</i>	White prairie clover	TE	D, O		13	
<i>Dalea foliosa</i>	Prairie clover	E	TE	O, D	20	
<i>Delphinium exaltatum</i>	Tall larkspur	TE	O, D		13, 51, 52	
<i>Delphinium tricorne</i>	Dwarf larkspur	MP	W		4, 23, 27	
<i>Dentaria diphylla*</i>	Broadleaf toothwort	MP	W	U	4*, 23*, 27*	
<i>Dentaria heterophylla*</i>	Toothwort ~	MP	W	U	4, 23, 27	
<i>Dicentra cucullaria</i>	Dutchman breeches	AP, MP	W		4, 5, 27	
<i>Didiplis diandra*</i>	Water purslane	TT	E	S	70*	
<i>Diervilla lonicera*</i>	Bush honeysuckle ~	TT	C, W	U	11*, 12*, 14*, 15*, 51*, 52*, 53*	
<i>Diervilla rivularis*</i>	Riverbank bush honeysuckle	TT	A, C	U	44*	
<i>Dirca palustris</i>	Leatherwood	MP	W		4	
<i>Disporum maculatum</i>	Spotted mandrin	AP	W		9	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Dodecatheon meadia</i>	Shooting star ~	MP	W, O		4, 27	
<i>Draba cuneifolia</i>	Wedge-leaf whitlow-grass	TS	O		3	
<i>Draba ramosissima</i>	Branching whitlow-wort	TS	C		36, 51, 52, 57, 58, 66, 67	
<i>Dryopteris cristata</i>	Crested woodfern	TT	E		68	
<i>Eleocharis intermedia*</i>	Spike-rush ~	TS	E	S	54*, 78*	
<i>Eleocharis wolfii*</i>	Wolf spikerush	TS	F, E	X	20*, 22*	
<i>Elodea canadensis*</i>	Waterweed ~	AP	B, A	S	9*	
<i>Elodea nuttallii*</i>	Waterweed	TS	B, A	S	51*, 52*	
<i>Elymus svensonii</i>	Wild rye ~	TE	C		19	
<i>Epilobium ciliatum</i>	Willow-herb ~	TS	E		52	
<i>Eriogonum longifolium</i> var. <i>harperi</i>	Harper umbrella plant	AP	C		8, 28	
<i>Erythronium albidum</i>	White dogtooth-violet	AP	W		27	
<i>Erythronium rostratum</i>	Dogtooth-violet ~	MP	W, A		4	
<i>Euonymus atropurpureus</i>	Wahoo	MP	W, A		4, 27	
<i>Euonymus obovatus</i>	Running strawberry bush	TS	W, A		4, 27	
<i>Eupatorium steeleri</i>	Steele's joe-pye weed	TS	X		72	
<i>Festuca paradoxa</i>	Fescue ~	TS	D, F		34	
<i>Fimbristylis puberula</i>	Hairy fimbriстиlis	TT	D, F		3	
<i>Fothergilla major</i>	Witch-alder ~	TT	C		12, 52	
<i>Frasera carolinensis</i>	American columbo	AP	D, W, O		31	
<i>Fraxinus quadrangulata</i>	Blue ash	MP	X, W		4	
<i>Fuirena squarrosa*</i>	Umbrella grass	TS	E, A	S	37*	
<i>Galium asprellum</i>	Rough bedstraw	TS	E		32	
<i>Gelsemium sempervirens*</i>	Yellow jessamine	TS	O	U	11*, 12*, 13*, 37*	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Gentiana austromontana</i>	Gentian ~	TS	D			72
<i>Geum laciniatum*</i>	Rough avens	TS	A	S	71*	
<i>Glyceria acutiflora</i>	Manna-grass ~	TS	E		11	
<i>Gnaphalium helleri</i>	Everlasting ~	TS	X		43, 51	
<i>Gymnocladus dioicus</i>	Kentucky coffee-tree	MP	V		4	
<i>Halesia carolina*</i>	Carolina silverbell	AP	A	U	9*	
<i>Halesia tetraptera</i> var. <i>tetraptera</i> *	Common silverbell	KT	V	U	1*, 2*	
<i>Hedeoma hispida</i>	Rough pennyroyal	KT	X		2	
<i>Helianthemum bicknellii</i>	Sunrose ~	TE	X		57	
<i>Helianthus glaucophyllus</i>	Sunflower ~	AP	W, X, D		9	
<i>Heteranthera dubia</i>	Grassleaf mud-plantain	KS	A, E		78	
<i>Heteranthera limosa*</i>	Smaller mud-plantain	KS, TT	E	S	2*, 78*	
<i>Heuchera villosa</i> var. <i>macrophylla</i>	Alumroot ~	MP	C		4	
<i>Hexastylis contracta</i>	Wild ginger ~	TS	V		75	
<i>Homaliodelphus sharpii</i>	Sharp's homaliodelphus	TE	C		53, 54, 73	
<i>Hottonia inflata*</i>	Featherfoil	AP, TS	E	S	8*, 10*	
<i>Hybanthus concolor</i>	Green violet	MP	V		4, 27	
<i>Hydrastis canadensis</i>	Goldenseal	AP, TS	V		9, 11, 18, 19, 20, 22, 31, 51, 52, 54, 55, 67, 78	
<i>Hydrophyllum appendiculatum</i>	Waterleaf ~	MP	V		4	
<i>Hydrophyllum macrophyllum</i>	Waterleaf ~	MP	W		4	
<i>Hydrophyllum virginianum*</i>	Virginia waterleaf	TT	W, A	U	69*	
<i>Hymenophyllum tayloriae</i>	Gorge filmy fern	AP	C		26	
<i>Hypericum adpressum*</i>	Creeping St. John-wort	TT	E, F	S	11*	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Ilex montana</i>	Mountain winterberry	MP	W, X			4
<i>Iris brevicaulis*</i>	Lancane iris	TE	E	S	2*	
<i>Iris fulva*</i>	Red iris	TT	E, F	S	52*	
<i>Isoetes engelmannii</i>	Quillwort ~	MP	E, A		23	
<i>Isoetes lacustris*</i>	Western quillwort	TE	B	S	36*, 55*	
<i>Isoetes melanopoda</i>	Quillwort ~	TE	E		2	
<i>Isoetria medeolooides</i>	Small-whorled pogonia	T	GE, TE	W, X	48	
<i>Jamesianthus alabamensis</i>	Jamesianthus	AP	F, A		29	
<i>Jeffersonia diphylla</i>	Twinkleaf	AP	W		8, 9	
<i>Juglans cinerea*</i>	Butternut	KS, TT	W, A	U		2*, 20*, 34*, 36*, 51*, 52*, 53*, 64*, 67*, 69*, 70*, 72*, 78*
<i>Juncus brachyccephalus</i>	Short-head rush	TS	F		52, 75	
<i>Juncus gymnocarpus*</i>	Naked-fruit rush	TS	F, E	S	45*	
<i>Leavenworthia alabamica</i>	Alabama glade-cress	AP	D, O		5	
<i>Leavenworthia exigua</i> var. <i>exigua</i>	Glade cress ~	TS	O		3, 20	
<i>Leavenworthia exigua</i> var. <i>lutea</i>	Pasture glade cress	AP	O		9	
<i>Lejeunea sharpii</i>	Sharp's lejeunea	TE	C		34	
<i>Lesquerella densipila</i>	Duck River bladderpod	AP, TT	D		19, 20, 32	
<i>Lesquerella lescurii</i>	Lescur's bladder-pod	KS	D, E		78	
<i>Leucothoe racemosa*</i>	Fetterbush ~	TT	E	U	15*	
<i>Liatris cylindracea</i>	Cylindric blazing star	TT	D		3, 11, 15, 51, 52	
<i>Ligusticum canadense</i>	Lovage ~	MP	W		4	
<i>Lilium canadense</i>	Canada lily	TT	E, F, W		51, 52, 54	
<i>Lilium michiganense</i>	Michigan lily	TT	E, F		3, 52, 78	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Lilium philadelphicum</i>	Wood lily	TE	E, F			12
<i>Lilium superbum</i>	Turkscap lily	KT, MP	D			2, 4, 23
<i>Liparis loeselii</i>	Loesel twayblade	TE	F, E			2
<i>Lobelia amoena</i>	Southern lobelia	TE	E, A			37, 44, 45, 46
<i>Lonicera canadensis*</i>	American fly honeysuckle	TS	W, F	U	67*	
<i>Lonicera dioica</i>	Smoothleaf honeysuckle	TS	W, C			16, 51, 52, 54, 64
<i>Lonicera flava</i>	Yellow honeysuckle	TS	W, C			11, 12
<i>Luzula acuminata</i>	Woodrush ~	MP	W			4, 23
<i>Lycopodium porophyllum</i>	Rock clubmoss	AP, MP	C			26
<i>Lysimachia fraseri</i>	Loosestrife ~	KE, TE	A			2, 4, 12, 43, 44
<i>Magnolia virginiana</i>	Sweetbay	TT	F			65
<i>Malus angustifolia</i>	Crab apple	KS, TS	X, D			2, 78
<i>Marshallia grandiflora</i>	Barbara buttons ~	TE	G			51
<i>Marshallia obovata*</i>	Barbara buttons ~	TT	W, A	S	36*	
<i>Marshallia trinervia</i>	Barbara buttons ~	NS, TT	A			34
<i>Meehania cordata</i>	Meehan mint	TT	W			53, 54, 65
<i>Melanthium latifolium</i>	Broadleaf bunchflower	TE	W			22
<i>Melanthium parviflorum</i>	False hellebore ~	AP	W			9
<i>Melanthium woodii*</i>	Ozark bunchflower	TE	F, E	U	54*	
<i>Melanthium virginicum</i>	Bunchflower ~	KE	W			54
<i>Menispermum canadense</i>	Yellow parilla	MP	W, A			4
<i>Mertensia virginica</i>	Bluebells	MP	A			27
<i>Mirabilis albida</i>	Pale umbrella-wort	AP, TT	O			20, 28
<i>Monarda clinopodia</i>	Horsemint ~	AP	W			4
<i>Monotropa odorata</i>	Pigmy-pipes	TT	X			1

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Plants (continued)						
<i>Muhlenbergia glaberrima</i>	Muhly ~		KS, TS	X, D		20, 78
<i>Muhlenbergia tenuiflora</i>	Muhly ~	MP	C, W		4	
<i>Najas gracillima</i>	Thread-like nailad		KS	A, B		78
<i>Neobreckia aquatica*</i>	Lake-cress		AP, KT, TS	B, E	S	2*, 7*, 78*
<i>Neviusia alabamensis</i>	Snow-wreath		AP, MP, TT	W, C		4, 7, 9, 33
<i>Oenothera macrocarpa</i> ssp. <i>macrocarpa</i>	Missouri primrose		TT	O		20
<i>Oenothera perennis</i>	Small sundrops		KE	E, A		2
<i>Oldenlandia uniflora*</i>	Oldenlandia ~		KE	E, D	S	2*
<i>Onosmodium mollle</i> ssp. <i>hispidissimum</i>	Hairy false gromwell		TS	X		11
<i>Ophioglossum engelmannii</i>	Adder-tongue ~	AP	O, D			3, 13, 18
<i>Orobanche uniflora</i>	One-flower cancer-root	AP	W			9
<i>Osmorhiza longistylis</i>	Anise-root	MP	W			4, 23, 27
<i>Oxalis grandis</i>	Wood-sorrel ~	AP	W			8, 9
<i>Pachysandra procumbens</i>	Allegheny-spurge	AP, MP	W			4, 6, 24, 26, 31
<i>Panax quinquefolius</i>	Ginseng	MP, TS	W			2, 4, 11, 12, 13, 17, 18, 22, 23, 34, 36, 44, 51, 52, 54, 63, 64, 69, 72, 78
<i>Panicum acuminatum</i> var. <i>leucothrix</i>	Panic-crass		TS	D, E		47
<i>Parnassia grandifolia</i>	Largeleaf grass-of-parnassus		TS	F, A		53, 54, 70
<i>Paxistima canbyi</i>	Cliff-green		TE	D, E		64
<i>Pedicularis lanceolata</i>	Swamp lousewort		TT	E		54
<i>Pellaea atropurpurea</i>	Purple cliff-brake	MP	C			4, 23

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Perideridia americana</i>	Perideridia ~	MP	D, C			4
<i>Phacelia bipinnatifida</i>	Phacelia ~	MP	W			4
<i>Phacelia dubia</i>	Scorpion-weed	MP	O			4
<i>Phacelia ranunculacea</i>	Blue scorpion-weed	TS	W			78
<i>Philadelphus hirsutus*</i>	Mock-orange ~	MP	C	U	4*	
<i>Philadelphus inodorus</i>	Mock-orange ~	KT	C		2, 78	
<i>Phlox pilosa</i> ssp. <i>ozarkana</i>	Downy phlox	TS	X, D		2	
<i>Phlox subulata</i>	Moss phlox	TT	X, C		63	
<i>Pinus virginiana*</i>	Virginia pine	MP	X	U	4*, 23	
<i>Pityopsis ruthii**</i>	Ruth golden aster	E	TE	G	A	37*, 44*
<i>Platanthera cristata</i>	Crested fringed orchid	MP	E, D		4, 23	
<i>Platanthera flava</i> var. <i>flava</i> *	Southern rein orchid	AP, TS	F, E, A	S	7*, 9*, 34*	
<i>Platanthera integrilabia</i>	Monkey-face orchid	C	AP, MP	F, A	4, 25	
<i>Platanthera orbiculata</i>	Large roundleaf orchid	TT	W		69	
<i>Polemonium reptans</i>	Greek valerian	MP	W, A		4, 23, 27	
<i>Polygonia boykinii</i>	Boykin milkwort	TS	O		20	
<i>Polygonia mariana</i>	Milkwort ~	TS	D		3, 13	
<i>Polytmnia laevigata</i>	Smooth leafcup	AP	C, W		9	
<i>Porella wataugensis</i>	Liverwort ~	TT	C		58	
<i>Potamogeton amplifolius*</i>	Largeleaf pondweed	TT	B, A	S	55*	
<i>Potamogeton epihydrus*</i>	Creekgrass	TS	B, A	A	12*, 37*, 55*, 56*, 57*	
<i>Potamogeton tennesseensis*</i>	Pondweed ~	TT	A	A	37*, 55*	
<i>Prenanthes barbata</i>	Barbed rattlesnake-root	TS	D, X		3	
<i>Prenanthes crepidinea</i>	Nodding rattlesnake-root	TE	W, D, O		78	
<i>Ptilimnium capillaceum</i>	Hair-like mock bishop-weed	KT	E		2, 78	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Ptilimnium nuttallii</i>	Nuttall's mock bishop's-sweat	KE	E, F, W			78
<i>Radula voluta</i>	Liverwort ~	TS	C			73
<i>Ranunculus flabellaria</i>	Buttercup ~	AP, TT	E			34
<i>Rhamnus alnifolia</i>	Alder-leaf buckthorn	TE	E, F			54
<i>Rhododendron minus</i>	Carolina rhododendron	AP	X, C			9
<i>Rhynchospora capillacea</i>	Capillary beakrush	TE	A			54
<i>Ribes curvatum</i>	Gooseberry ~	AP	W, X			9
<i>Ruellia purshiana</i>	Pursh petunia	TS	X			17, 51, 52, 63
<i>Sabatia campestris</i>	Prairie pink	MP	W, D			80
<i>Sabatia capitata</i>	Rose-gentian	TE	X, D			12
<i>Sacciolepis striata</i> *	Gibbos panic-grass	TS	E	A	13*, 37*	
<i>Sagittaria brevirostra</i>	Short-beaked arrowhead	TT	F, E			78
<i>Sagittaria platyphylla</i> *	Ovate-leaved arrowhead	TS	E	S	13*	
<i>Salix caroliniana</i> *	Coastal plain willow	MP	G, A	X	4, 23*	
<i>Salvia azurea</i> var. <i>grandiflora</i>	Blue sage	TS	D			2, 3
<i>Salvia urticifolia</i>	Sage ~	MP	X, D			23
<i>Sarracenia oreophila</i> *	Green pitcher plant	E	GE, NE	E, A	S	42*
<i>Saxifraga caroliniana</i>	Saxifrage ~	TE	F, C			72
<i>Schoenolirion croceum</i>	Sunnybell ~	TT	O			20
<i>Sciaphylloides fluviatilis</i> *	River bulrush	AP	E	S	2*, 51*	
<i>Scutellaria montana</i>	Mountain skullcap	E	TE	X		11, 12, 13, 37, 69
<i>Scutellaria saxatilis</i>	Rock skullcap	TT	X, W, C			37, 69
<i>Sedum nevii</i>	Stonecrop ~	AP, TE	C			9, 44, 45
<i>Sedum ternatum</i>	Stonecrop ~	MP	C, W			4, 27

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Selaginella arenicola</i> ssp. <i>riddellii</i>	Spikemoss ~	AP	O			25, 26
<i>Silene caroliniana</i> ssp. <i>pensylvanica</i>	Wild pink ~	TT	C			67, 70
<i>Silene ovata</i>	Ovate catchfly	TE	W			22
<i>Silphium brachiatum</i>	Rosinweed ~	AP	X			8, 9
<i>Silphium wasiotense</i>	Kentucky rosin-weed	TE	W			53, 54
<i>Smilacina stellata</i>	Starflower solomons-seal	TE	W, A			65
<i>Solidago flaccidifolia</i>	Goldenrod ~	MP	W			4
<i>Solidago ptarmicoidea</i>	Goldenrod ~	TE	D			14, 51, 52
<i>Solidago sphacelata</i>	Goldenrod ~	MP	X, C			4
<i>Solidago uliginosa</i>	Goldenrod ~	TS	F, E			66
<i>Sparganium androcladum</i> *	Branching burreed	TE	E, A	S		70*, 71*
<i>Sphenopholis pensylvanica</i>	Swamp oats	KS	E, F			2
<i>Spiraea virginiana</i>	Virginia spirea	T	TE	G		51
<i>Spiranthes lucida</i>	Shining ladies'-tresses	TT	A, F			51
<i>Sporobolus clandestinus</i>	Rough dropseed	KT	D			77
<i>Staphylea trifolia</i>	Bladdernut	MP	W			4, 27
<i>Stellaria longifolia</i> *	Longleaf stitchwort	KS	F, E	U		2*
<i>Stellaria pubera</i>	Giant chickweed	MP	W			4, 27
<i>Stewartia ovata</i>	Mountain-camellia	AP, MP	W, A			23, 25, 26
<i>Stylisma humistrata</i>	Southern morning-glory	TT	X			12
<i>Sullivantia sullivantii</i>		TE	C			54
<i>Symplocarpus foetidus</i>	Skunk cabbage	TE	E			68, 70
<i>Symplocos tinctoria</i>	Horse sugar	TS	A, W			36, 37, 44, 45

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Plants (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Synosma suaveolens</i>	Sweet-scented indian-plainain	TT	X, W			78
<i>Talinum calcaricum</i>	Limestone fame-flower	TS	O			20, 32
<i>Talinum mengesii</i>	Fame-flower ~	AP	O			26
<i>Tetragonotheca helianthoides</i>	False-sunflower ~	TE	X			55
<i>Thalictrum mirabile*</i>	Little mountain meadow-rue	AP	C	X		26*
<i>Thuja occidentalis</i>	Northern white cedar	TS	C, F			51, 52, 54, 67, 69, 72
<i>Tiarella cordifolia</i>	Foamflower	MP	W			4, 27
<i>Tradescantia ernestiana</i>	Spiderwort ~	MP	C, W			4
<i>Trautvetteria carolinensis</i>	False-bugbane	MP	A, E			4
<i>Trepocarpus aethusae*</i>	Trepocarpus	KE	A	S		2*, 78*
<i>Trichomanes boschianum</i>	Bristle fern	MP, TT	C			23, 27, 58
<i>Trichomanes petersii*</i>	Dwarf filmy-fern	AP, TT	C	S		9, 36*, 58*
<i>Trifolium calcaricum</i>	Leo's trifolium	TE	O			20
<i>Trifolium reflexum</i>	Buffalo clover	TE	X, D			58
<i>Trillium flexipes</i>	Bent trillium	MP	W			4
<i>Trillium lancifolium</i>	Lance-leaf trillium	TE	W, A			12
<i>Trillium recurvatum</i>	Prairie trillium	AP	W			31
<i>Trillium rugelii</i>	Southern nodding trillium	TE	W			44
<i>Trillium sessile</i>	Toadshade ~	AP	W			32
<i>Trillium sulcatum</i>	Southern red trillium	AP	W			9
<i>Triosteum angustifolium</i>	Horse-gentian ~	AP, MP	D			9, 23, 27, 31, 80
<i>Triplophora trianthophora</i>	Three-birds-orchid	MP	W			23
<i>Tsuga caroliniana</i>	Carolina hemlock	TT	X, O			8, 23
<i>Ulmus serotina</i>	September elm	KS	W, X, O			78

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Plants (continued)						
<i>Vaccinium macrocarpon</i>	American cranberry	TT	E			46
<i>Viola canadensis</i>	Canada violet	AP	WV			9
<i>Viola pubescens</i> var. <i>eriocarpa</i>	Downy yellow violet	MP	W			4
<i>Viola tricolor</i> var. <i>tripartita</i>	Three-parted violet	TS	W			11, 12, 52
<i>Woodisia appalachiana</i> *	Appalachian woodsia	TS	C	U		71*
<i>Xerophyllum asphodeloides</i>	Turkey-beard	TT	X			44
<i>Xyris tennesseensis</i>	Tennessee yellow-eyed grass	E	AP	F, A		28
<i>Zigadenus elegans</i> ssp. <i>glaucus</i> *	White camas	TE	C	U		72*
Snails (14)						
		(4)	(14)			(11)
<i>Atheania anthonyi</i> *	Anthony's river snail	E	AS, TE	B, S	F	7, 10*
<i>Campeloma decampi</i>	Slender campeloma	E	AP	M, S		7
<i>Elminia interrupta</i> *	Knotty elmia		NE	M	F	37*
<i>Lithasia armigera</i> *	Armored rocksnail	AT, KS	B	F	1*, 3*, 5*, 78*	
<i>Lithasia geniculata</i> *	Ornate rocksnail		AT, KS	B	F	1*, 3*, 5*
<i>Lithasia lima</i> *	Warty rocksnail	AT	B, M	F	5*	
<i>Lithasia salebrosa</i> *	Muddy rocksnail		AT, KS	B	F	1*, 5*, 78*
<i>Lithasia verrucosa</i> *	Varicose rocksnail		AT, KS	B, M	F	1*, 3*, 5*, 10*, 23*, 32*
<i>Mesodon clarki nantahala</i>	Noonday globe	T	NT	W		60
<i>Pleurocera alveare</i> *	Rugged hornsail		AT	B, M	F	3*, 5*, 6*
<i>Pleurocera copulenta</i> *	Corpulent hornsail		AT	B	F	5*, 10*
<i>Pleurocera curta</i> *	Shortspire hornsail		AT	B, M	F	1*, 3*, 5*, 8*
<i>Pleurocera walkeri</i> *	Telescope hornsail		AT	B, M	F	5*
<i>Pyrgulopsis pachytia</i>	Armored snail	E	AP	M, S		7

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Mussels (49)		(26)	(49)			(42)
<i>Alasmidonta raveneliana*</i>	Appalachian elktoe	E	NE, TE	M	I	58*, 60*
<i>Alasmidonta viridis</i>	Slippershell mussel		NE	S		60
<i>Cumberlandia monodonta*</i>	Spectaclecase		AP, TS	B, M	F	3*, 5*, 7*, 32*, 52*, 53*, 54
<i>Cyrogenia stegaria*</i>	Fanshell	E	AP, KE, TE	B, M	F	1*, 3*, 5*, 8*, 14*
<i>Dromus dromas*</i>	Dromedary pearlymussel	E	AP, TE	B, M	F	14*
<i>Ellipsaria lineolata*</i>	Butterfly		AS	B, M	F	4*, 5*, 6*, 7*, 8*, 9*, 10*, 23*, 32*
<i>Elliptio dilatata*</i>	Spike		AS, NS	B, M	F	5*, 8*, 10*, 32*, 33*, 37*, 40*, 60
<i>Epioblasma brevidens*</i>	Cumberlandian combshell	E	AP, TE	M	X	20*, 23*, 30*
<i>Epioblasma capsaeformis*</i>	Oyster mussel	E	TE	M	X	20*
<i>Epioblasma florentina walkeri*</i>	Tan riffleshell	E	TE, VE	M	A	20*, 36, 37*
<i>Fusconaia barnesiiana*</i>	Tennessee pigtoe		AS, NE, VS	M	X	23*, 30*, 69
<i>Fusconaia cor*</i>	Shiny pigtoe pearlymussel	E	AP, TE	M	F	32*, 33*
<i>Fusconaia cuneolus*</i>	Fine-rayed pigtoe	E	AP, TE	M	F	32*, 33*, 53*
<i>Fusconaia subrotunda* subrotunda*</i>	Long solid		KT	B	F	1*
<i>Hemistena lata*</i>	Cracking pearlymussel	E	AP, TE	B, M	F	3*, 5*, 32*, 33*
<i>Lampsilis abrupta*</i>	Pink mucket	E	AP, KE, TE	B	F	1*, 2*, 3*, 5*, 7*, 8*, 10*, 12*, 14*, 16*, 23*, 51*, 61*, 73*
<i>Lampsilis fasciola*</i>	Wavy-rayed lampmussel		AS, NS	M, S	F	23*, 41*, 60
<i>Lampsilis ovata*</i>	Pocketbook		AS, KE	B, M	F	1*, 5*, 8*, 10*, 23*, 25*, 28*, 30*, 32*, 33*, 77*
<i>Lasmigona complanata*</i>	White heelsplitter		MS	B, M	X	23*
<i>Lemiox rimosus*</i>	Birdwing pearlymussel	E	TE, AS	M	F	19*, 20*, 32*, 33*

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Mussels (continued)						
<i>Lexingtonia dolabelloides</i> *	Slabside pearlymussel	C	AP	M	F	19*, 20*, 21*, 23*, 32*, 33*, 34*, 37*, 53*
<i>Ligumia recta</i> *	Black sandshell		AS	B, M	F	4*, 5*, 6*, 8*, 10*, 23*
<i>Obovaria retusa</i> *	Ring pink	E	AP, TE	B	F	1*, 3*, 4*
<i>Obovaria subrotunda</i> *	Round hickorynut		AS	B, M	F	5*, 23*, 30*
<i>Pegias fabula</i>	Little-wing pearlymussel	E	TE, NS	M, S		60, 76
<i>Plethobasus cicatricosus</i> *	White wartyback	E	AP, TE	B	F	3*, 5*
<i>Plethobasus cooperianus</i> *	Orange-footed pimpleback	E	AS, KE, TE	B	F	1*, 3*, 5*, 8*, 14*, 16*
<i>Plethobasus cyphyus</i> *	Sheepnose		AP	B, M	F	1*, 5*, 8*, 9*
<i>Pleurobema clava</i> *	Clubshell	E	AP, TE	B, M	F	3*
<i>Pleurobema cordatum</i> *	Ohio pigtoe		AS	B, M	F	4*, 5*, 6*, 8*, 10*, 23*
<i>Pleurobema gibberum</i>	Cumberland pigtoe	E	TE	M, S		76
<i>Pleurobema oviforme</i> *	Tennessee clubshell		AS, TS	B, M	F	8*, 14*, 16*, 20*, 23*, 33*, 36, 37*
<i>Pleurobema plenum</i> *	Rough pigtoe	E	AP, TE	B, M	F	3*, 4*, 5*, 7*, 8*, 14*
<i>Pleurobema rubrum</i> *	Pyramid pigtoe		AP, KE	B, M	F	1*, 5*, 8*
<i>Potamilus alatus</i> *	Pink heelsplitter		MS	B, M	X	23*
<i>Potamilus capax</i> *	Fat pocketbook	E	KE	B	F	77*
<i>Potamilus ohioensis</i> *	Pink papershell		AS	B	F	4*, 7*
<i>Ptychobranchus fasciolaris</i> *	Kidneyshell		AS	M	F	5*, 10*, 23*
<i>Ptychobranchus subtentum</i>	Fluted kidneyshell	C	AS	M		54
<i>Quadrula cylindrica cylindrica</i> *	Rabbitfoot		AS, KT, TE	B, M	F	1*, 3*, 5*, 10*, 19*, 20*, 23*, 32*, 33*
<i>Quadrula cylindrica strigillata</i>	Rough rabbitsfoot	E	TE, VE	M		54
<i>Quadrula intermedia</i> *	Cumberland monkeyface	E	AP, TE	M	F	20*, 32*, 33*
<i>Quadrula metanevra</i> *	Monkeyface		AS	B, M	F	5*, 6*, 8*, 9*, 10*, 32*

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Mussels (continued)						
<i>Toxolasma cylindrellus</i>	Pale lilliput	E	TE	S		20
<i>Toxolasma lividus*</i>	Purple lilliput		AS	B, S	F	4*, 5*, 6*, 7*, 8*, 23*
<i>Truncilla truncata*</i>	Deertoe		AE	B, M	F	4*, 5*, 8*, 23*
<i>Villosa perpurpurea</i>	Purple bean	E	TE	M, S		64
<i>Villosa trabalis*</i>	Cumberland bean	E	TE	M, S	A	37*, 64*
<i>Villosa vanuxamensis*</i>	Mountain creekshell		NT	M, S	F	41*
Insects (6)						
		(0)	(6)			(0)
<i>Batrasiymodes spelaeus</i>	A beetle		AS	C		6, 8
<i>Batrisodes jonesi</i>	A beetle		AS	C		5, 23
<i>Folsomia candida</i>	A springtail		AS	C		5
<i>Ptomaphagus episcopus</i>	A cave obligate beetle		AS	C		9
<i>Ptomaphagus valentinei</i>	A beetle		AS	C		9
<i>Rhadine caudata</i>	A ground beetle		AS	C		8
Crayfish (6)						
		(0)	(6)			(0)
<i>Cambarus hamulatus</i>	Troglobitic crayfish		AS	U		9
<i>Cambarus hiwasseeensis</i>	Hiwassee crayfish		NS	M, S		41, 49
<i>Cambarus jonesi</i>	Troglobitic crayfish		AS	U		5, 7, 8
<i>Cambarus veitchorum</i>	A troglobitic crayfish		AT	U		7
<i>Oncorhynchus wrighti</i>	A crayfish		TE	S		3
<i>Procambarus pecki</i>	Troglobitic crayfish		AS	U		5, 8
Other Arthropods (3)						
		(0)	(3)			(1)
<i>Coras lamellosus</i>	A pseudoscorpion		AS	C		9
<i>Nesticus barri</i>	A cave obligate spider		AS	C		9
<i>Palaemonias</i> sp.*	Undescribed caveshrimp		AS	U	Q	6*

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Fish (66)		(11)	(66)			(29)
<i>Acipenser fulvescens*</i>	Lake sturgeon	KE, TE	B	F	17*, 18*, 61*, 62*, 73*	
<i>Alosa alabamae*</i>	Alabama shad	KE	B	F	1*	
<i>Ammocrypta clara</i>	Western sand darter	TS	M, S		54	
<i>Trachoseus spatzula</i>	Alligator gar	KE, TS	B		2, 77	
<i>Cariodes velifer*</i>	Highfin carpsucker	TS	M	F	3*, 13*, 19*, 32*, 36*, 52*, 64*, 73*, 74	
<i>Clinostomus funduloides</i> ssp. 1	Smoky dace	NS, TS	M, S		57, 60	
<i>Cycloleptus elongatus*</i>	Blue sucker	TT	B, M	F	3*, 15, 16, 17, 19*, 52, 62, 73*, 78	
<i>Cyprinella monacha*</i>	Spotfin chub	T	AP, NT, TT	M	F	51, 57, 60, 64*, 65
<i>Cyprinella spiloptera</i>	Spotfin shiner	MS	M, S		4, 23	
<i>Cyprinella whipplei*</i>	Steelcolor shiner	MS	B, M, S	X	4, 23, 27*	
<i>Elassoma alabamae*</i>	Spring pygmy sunfish	AP	S	S	4, 7*	
<i>Erimystax cahni</i>	Slender chub	T	TT	M	54	
<i>Erimystax insignis</i>	Blotched chub	GT	M		50	
<i>Esox niger*</i>	Chain pickerel	KS	B, M	F	2*	
<i>Etheostoma aquale*</i>	Coppercheek darter	TT	M	X	19*, 20*, 21*	
<i>Etheostoma blennioides</i>	Greenside darter	MS	M, S		23	
<i>Etheostoma newmanni</i>	Slackwater darter	T	AP	M, S		5
<i>Etheostoma boschungi</i>	Ashy darter	TT	M, S	X	20*, 21*, 22, 33	
<i>Etheostoma denoncourti*</i>	Golden darter	TS	M	X	19*, 20*	
<i>Etheostoma flabellare</i>	Fantail darter	MS	M, S		4	
<i>Etheostoma guttellelli</i>	Tuckasegee darter	TE	S		58	
<i>Etheostoma kennicotti</i>	Stripetail darter	MS	M, S		4	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Fish (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Etheostoma luteovinctum</i> *	Redband darter	TS	S	X	20*, 21*	
<i>Etheostoma parvipinne</i>	Goldstripe darter	KS	S		2	
<i>Etheostoma percnurum</i>	Duskytail darter	E	TE	M, S	55	
<i>Etheostoma pseudovulatum</i>	Egg-mimic darter	TE	S		19	
<i>Etheostoma rufilineatum</i> *	Redline darter	MS	M, S	X	4, 23, 27*	
<i>Etheostoma</i> sp. D*	Bluemask darter	E	TE	M, S	I	76*
<i>Etheostoma striatum</i> *	Striated darter	TT	S	X	20*, 21	
<i>Etheostoma tuscumbia</i> *	Tuscumbia darter	AP, TS	S	S	4, 7*, 8	
<i>Etheostoma vulneratum</i>	Wounded darter	GE, NS	M		47, 48, 60	
<i>Etheostoma wapiti</i> *	Boulder darter	E	AP, TE	M	F	32*, 33*
<i>Etheostoma zonistium</i>	Bandfin darter	MS	S		4	
<i>Fundulus julisia</i>	Barrens topminnow	TE	S		22	
<i>Hemitremia flammea</i>	Flame chub	TS	S		20, 33, 34	
<i>Ichthyomyzon castaneus</i>	Chestnut lamprey	KS	B		78	
<i>Ichthyomyzon unicuspis</i> *	Silver lamprey	TS	M	F	2*, 3*	
<i>Ictiobus niger</i>	Black buffalo	KS	B, M		78	
<i>Lepomis miniatus</i>	Spotted sunfish	KT	M		2	
<i>Lythrurus fasciolaris</i>	Rosefin shiner	MS	M, S		4, 23	
<i>Moxostoma carinatum</i> *	River redhorse	GS	B, M	F	47*	
<i>Moxostoma duquesnei</i>	Black redhorse	MS	B, M		23	
<i>Moxostoma macrolepidotum</i> *	Shorthead redhorse	MS	B	X	23*, 27*	
<i>Moxostoma</i> sp. 2*	Sicklefin redhorse	NS	B, M	I	41*, 60*	
<i>Notropis boops</i>	Bigeye shiner	MS	S		23	
<i>Notropis rubellus micropteryx</i>	Rosyface shiner	MS	M, S		23	
<i>Notropis rupestris</i>	Bedrock shiner	TS	S		21, 76	

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name Fish (continued)	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
<i>Noturus baileyi</i>	Smoky madtom	E	TE	M		55
<i>Noturus flavipinnis</i>	Yellowfin madtom	T	TE	M		54, 55, 56
<i>Noturus flavus</i>	Stonecat		NE	M, S		60
<i>Noturus sp. 3</i>	Duck River saddled madtom		TT	M, S		20
<i>Noturus stanauli*</i>	Pygmy madtom	E	TE	M	X	19*
<i>Percina aurantiaca*</i>	Tangerine darter		GT, TS	M	A	36*, 37*, 47*, 51, 55, 64*, 65, 70, 72, 73*
<i>Percina burtoni*</i>	Blotchside logperch		TS	M	X	2, 22, 36, 55
<i>Percina macrocephala</i>	Longhead darter		TT	M		21, 72
<i>Percina phoxocephala*</i>	Slenderhead darter		TS	M	X	2, 19*, 20*, 21
<i>Percina sciara</i>	Dusky darter		GS	M, S		48
<i>Percina squamata</i>	Olive darter		GT, NS	M		48, 60
<i>Percina tanasi*</i>	Snail darter	T	TT	M	F	10*, 11, 12*, 14*, 16*, 17*, 18*, 32, 35*, 36*, 43*, 61*, 73*
<i>Phenacobius crassilabrum</i>	Fatlips minnow		VS	M, S		69
<i>Phenacobius mirabilis</i>	Suckermouth minnow		MS	M, S		23
<i>Phoxinus tennesseensis</i>	Tennessee dace		TS	S		36, 44, 51, 55, 64
<i>Polyodon spathula*</i>	Paddlefish		AS	B	F	4*, 7
<i>Rhinichthys atratulus</i>	Blacknose dace		MS	M, S		4
<i>Speoplatyrhynchus pousoni*</i>	Alabama cavefish	E	AP	U	Q	5*
<i>Typhlichthys subterraneus*</i>	Southern cavefish		AP, TS	U	Q	3*, 5*, 7*, 75*, 76
Amphibians (18)		(0)	(18)			(2)
<i>Ambystoma talpoideum</i>	Mole salamander		NS	A, W		49
<i>Aneides aeneus</i>	Green salamander		AP, ME	C		9, 23, 26, 27

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Amphibians (continued)						
<i>Cryptobranchus a. alleganiensis*</i>	Eastern hellbender		AP, GS, MS, NS, TS	B, M, S	F	3*, 8, 17*, 18*, 19, 20*, 21, 23, 30*, 36*, 41, 42*, 47*, 49, 51*, 52*, 54*, 55*, 72, 76, 78
<i>Desmognathus ocoee</i>	Mountain dusky salamander	AS	S, F			9
<i>Eurycea guttolineata</i>	Three-lined salamander	KT	A, F, W			2
<i>Eurycea junaluska</i>	Junaluska salamander	TS	A, S			55
<i>Eurycea l. longicauda</i>	Longtail salamander	NS	A, C, F			58
<i>Eurycea lucifuga</i>	Cave salamander	ME	C, A, S			23, 27
<i>Gyrinophilus pallaeucus</i>	Tennessee cave salamander	AP, TT	U, C			5, 8, 9, 11, 13, 16, 18
<i>Gyrinophilus porphyriticus</i>	Spring salamander	ME	A, C, F			23
<i>Hemidactylum scutatum</i>	Four-toed salamander	MS, NS	A, F			23, 49
<i>Hyla avivoca</i>	Bird-voiced treefrog	KT	A, F			1
<i>Hyla cinerea*</i>	Green treefrog	KS	A, F	S		2*
<i>Hyla gratiosa</i>	Barking treefrog	KS	A, W, F			78
<i>Plethodon dorsalis</i>	Zigzag salamander	MS	A, C			23
<i>Pseudacris brachyphona</i>	Mountain chorus frog	MS, NS	A, F			4, 23
<i>Pseudotriton ruber</i>	Red salamander	MS	A, F, S			4, 23
<i>Rana areolata circulosa</i>	Northern crawfish frog	KS	A, D, E			1
Reptiles (14)		(0)	(14)			(3)
<i>Apalone mutica mutica*</i>	Midland smooth softshell	KS	B, M	F		2*
<i>Apalone s. spinifera</i>	Eastern spiny softshell	VS	B, M			69
<i>Eumeces anthracinus pluvialis</i>	Southern coal skink	AS, MS	A			4, 5, 23
<i>Eumeces inexpectatus</i>	Southeastern five-lined skink	KS	O, X			2, 78
<i>Graptemys ouachitensis*</i>	Ouachita map turtle	MS	B, M	F		4*, 23*

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Reptiles (continued)						
<i>Lampropeltis getula nigra</i>	Black kingsnake		MS	D, E, X		4
<i>Lampropeltis triangulum elapsoides</i>	Scarlet kingsnake		KS	X, W		78
<i>Lampropeltis triangulum triangulum</i>	Eastern milk snake		AS	D		9
<i>Macrochelys temminckii</i>	Alligator snapping turtle		AP, TS	B, M		2, 3, 5, 6, 27, 28, 78
<i>Ophisaurus attenuatus longicaudus</i>	Eastern slender glass lizard		TS	D, X		55
<i>Pituophis m. melanoleucus</i>	Northern pine snake		AS, KT, TT	X		10, 19, 43, 57, 78
<i>Regina septemvittata</i>	Queen snake		MS	A, S		23
<i>Sistrurus miliarius streckeri*</i>	Western pygmy rattlesnake		KT, TT	A, F	S	2*, 3, 4, 20
<i>Thamnophis sauritus</i>	Eastern ribbon snake		KS	A, E		78
Birds (23)		(6)	(22)		(8)	
<i>Accipiter striatus</i>	Sharp-shinned hawk		TS	X		54
<i>Anhinga anhinga</i>	Anhinga		TS	B		2
<i>Aquila chrysaetos</i>	Golden eagle		TT	C, X		78
<i>Ardea herodias</i>	Great blue heron		KS	A, B, E		1, 2, 77, 78
<i>Bubulcus ibis</i>	Cattle egret		KS	A, E		78
<i>Casmerodius albus*</i>	Great egret		KE, TE	B, E, F	S	2*, 13*, 78*
<i>Charadrius melanodus*</i>	Piping plover	E/T		B, G	S	2*
<i>Dendroica cerulea</i>	Cerulean warbler		NS, TS	W		52, 60, 78
<i>Egretta caerulea</i>	Little blue heron		KE, TS	A, B, E		2, 78
<i>Falco peregrinus*</i>	Peregrine falcon		AP, TE	A, C	R	8*, 12*, 18*

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Birds (continued)						
<i>Haliaeetus leucocephalus</i> *	Bald Eagle	T	AP, KE, TS	A, B	R	2*, 3*, 4*, 8*, 9*, 10*, 13*, 14*, 15*, 16*, 22*, 31*, 54*, 55*, 63*, 64*, 73*, 78*
<i>Xobrychus exilis</i>	Least bittern		TS	E		12, 13, 19, 34
<i>Limnothlypis swainsonii</i> *	Swainson's warbler	E	GE, ME	A, B	S	36*, 54, 69, 71
<i>Myoteria americana</i> *	Wood stork					2*
<i>Nictanassa violacea</i>	Yellow-crowned night-heron		KT	A, B, E		2
<i>Ncticorax nycticorax</i>	Black-crowned night-heron		KT	A, B		78
<i>Pandion haliaetus</i>	Osprey		AP, KT	A, B		2, 5, 9, 29, 78
<i>Petrochelidon pyrrhonota</i>	Cliff swallow		MS	C		4
<i>Picoides borealis</i>	Redcockaded woodpecker	E	AP, ME, TS	X		9
<i>Rallus elegans</i>	King rail		TS	E		12
<i>Riparia riparia</i>	Bank swallow		KS	A		77
<i>Grus americana</i> *	Whooping crane	E		D, E	S	13*
<i>Sterna antillarum</i> *	Least Tern	E	KE	B, G	S	1*, 77*
Mammals (16)		(2)	(16)		(4)	
<i>Coynorhinus rafinesquii</i> *	Eastern big-eared bat		AP, NS, TS	C, W	R	6*, 9*, 54*, 60*, 69*
<i>Mustela frenata</i>	Long-tailed weasel		AP	W, D, F		5
<i>Myotis austroriparius</i>	Southeastern bat		KE	A, C		77
<i>Myotis griseescens</i> *	Gray bat	E	AP, ME, TE, KE	C, B, A	R	2*, 3*, 4*, 5*, 6*, 7*, 8*, 9*, 11*, 12*, 13*, 14*, 15*, 16*, 17*, 19*, 20*, 22*, 26*, 33*, 34*, 53*, 54*, 62*, 68*, 76*, 77*, 78*
<i>Myotis leibii</i> *	Eastern small-footed bat		NS, TS	C, V, X	R	11*, 53*, 59*

Table D6a-01 Threatened and Endangered Species List (continued)

Scientific Name	Common Name	Federal Status	State Status	Habitat Codes	Direct Effects Analysis	Reaches
Mammals (continued)						
<i>Myotis septentrionalis</i>	Northern long-eared bat		AS, MS, NS	C, W, X		4, 26, 58
<i>Myotis sodalis*</i>	Indiana bat	E	AP, ME, TE, KE	A, C, W	R	9*, 11*, 19*, 22*, 33*, 53*, 54*, 58*, 59*, 62*, 76*, 77*, 78*
<i>Napaeozapus insignis</i>	Woodland jumping mouse		TS	A, W		34, 46, 64
<i>Neotoma floridana haematoxaea</i>	Southern Appalachian woodrat	NS	C, W			60
<i>Neotoma magister</i>	Allegheny woodrat	TS	C			3, 11, 19, 20, 75
<i>Parascalops breweri</i>	Hairy-tailed mole	TS	W			65
<i>Sorex cinereus</i>	Common shrew	TS	A, F			11, 34
<i>Sorex fumeus</i>	Smoky shrew	TS	A, W			46, 53, 54, 69
<i>Sorex longirostris</i>	Southeastern shrew	TS	A, D, W			2, 3, 17, 18, 34, 51, 52, 53, 54, 64, 69, 78
<i>Synaptomyss cooperi</i>	Southern bog lemming	TS	E, F, W			68
<i>Zapus hudsonius</i>	Meadow jumping mouse	TS	A, E			3, 19, 34, 78
Totals (526)		(59)	(525)			(172)

Table D6a-01 Threatened and Endangered Species List (continued)

Symbol Codes:

- ~ = Common name for group, not just this species.
- * = In states where it is protected, this species is known from areas within the waterbodies where it could be directly affected by ROS alternatives.

Federal Status Codes:

- C = Identified candidate.
- E = Endangered.
- T = Threatened.

State Status Codes:

First letter = State designation:

A = Alabama, G = Georgia, K = Kentucky, M = Mississippi, N = North Carolina, T = Tennessee, V = Virginia.

Second letter = Status in that state:

E = Endangered.

P = Protected (Alabama) - level of endangerment not specified.

S = Various "special concern" categories (e.g., in need of management, potential, and rare).

T = Threatened.

Habitat Codes:

- B = Big rivers.
- M = Small rivers and large creeks.
- S = Small creeks.
- U = Underground aquifers.
- A = Riparian areas along streams and ponds.
- G = Gravel bars or boulders in large creeks or rivers.
- E = Non-forested seeps, wetlands, or wet meadows.
- F = Forested seeps or wetlands.
- W = Moist woodlands.
- X = Xeric hardwood or coniferous forests, or mountain woods.
- D = Prairies, fields, roadsides, fencerows, or early successional woodlands.
- O = Limestone, sandstone, or granite outcrops (including cedar glades).
- C = Caves, sinkholes, rock houses, boulders, bluffs, or cliff faces.

Direct Effects Analysis Codes:

- A = Apalachia tailwater.
- F = Flowing water habitats.
- I = Reservoir inflow areas.
- Q = Underground aquifers.
- R = Wide-ranging species.
- S = Shorelines and associated wetlands.
- U = Upland habitats.

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