

Appendix D – Supporting Data and Information

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Table D-1. Common Terrestrial/Wetland Wildlife Species, by Community Types, That May Occur in the Vicinity Of Watts Bar Reservoir

Species By Common Name	Scientific Name	Forest Lands	Managed Open Lands *	Wetland and Riparian Communities
Amphibians				
Bullfrog	<i>Rana catesbeiana</i>			X
Eastern narrowmouth toad	<i>Gastrophryne carolinensis</i>			X
Green frog	<i>Rana clamitans</i>			X
Cope's gray treefrog	<i>Hyla chrysoscelis</i>	X		X
Spring peeper	<i>Pseudacris crucifer</i>			X
Fowler's toad	<i>Bufo woodhousii fowleri</i>	X		X
Spotted salamander	<i>Ambystoma maculatum</i>	X	X	
Dusky salamander	<i>Desmognathus fuscus</i>	X		X
Longtail salamander	<i>Eurycea longicauda</i>	X		
Spring salamander	<i>Gyrinophilus porphyriticus</i>			X
Northern slimy salamander	<i>Plethodon glutinosus</i>	X		
Ravine salamander	<i>Plethodon richmondi</i>	X		
Red salamander	<i>Pseudotriton ruber</i>			X
Reptiles				
Black rat snake	<i>Elaphe obsoleta obsoleta</i>	X	X	
Eastern garter snake	<i>Thamnophis sirtalis sirtalis</i>	X	X	X
Northern ringneck snake	<i>Diadophis punctatus edwardsii</i>	X		
Northern water snake	<i>Nerodia sipedon sipedon</i>			X
Northern fence lizard	<i>Sceloporus undulatus hyacinthinus</i>	X		
Five-lined skink	<i>Eumeces fasciatus</i>	X	X	
Broadhead skink	<i>Eumeces laticeps</i>	X		
Common snapping turtle	<i>Chelydra serpentina serpentina</i>			X
Painted turtle	<i>Chrysemys picta spp.</i>			X
Red-eared slider	<i>Trachemys scripta elegans</i>			X
Eastern box turtle	<i>Terrapene carolina carolina</i>	X	X	X
Birds				
Bald eagle *	<i>Haliaeetus leucocephalus</i>			X
Osprey *	<i>Pandion haliaetus</i>			X
Sharp-shinned hawk	<i>Accipiter striatus</i>	X		
Cooper's hawk *	<i>Accipiter cooperii</i>	X	X	
Broad-winged hawk	<i>Buteo platypterus</i>	X		
Red-shouldered hawk	<i>Buteo lineatus</i>	X		X
Red-tailed hawk	<i>Buteo jamaicensis</i>	X	X	
American kestrel	<i>Falco sparverius</i>		X	
Great horned owl	<i>Bubo virginianus</i>	X	X	X
Barred owl	<i>Strix varia</i>	X		X
Common screech owl	<i>Otus asio</i>	X	X	
Barn owl *	<i>Tyto alba</i>		X	
Turkey vulture	<i>Cathartes aura</i>	X	X	
Black vulture	<i>Coragyps atratus</i>	X	X	
American crow	<i>Corvus brachyrhynchos</i>	X	X	

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Species By Common Name	Scientific Name	Forest Lands	Managed Open Lands *	Wetland and Riparian Communities
Hairy woodpecker	<i>Picoides villosus</i>	X		X
Pileated woodpecker	<i>Dryocopus pileatus</i>	X		X
Yellow-shafted flicker	<i>Colaptes auratus</i>	X	X	
Downy woodpecker	<i>Picoides pubescens</i>	X		X
Red-bellied woodpecker	<i>Melanerpes carolinus</i>	X	X	
Belted kingfisher	<i>Megaceryle alcyon</i>			X
Great blue heron	<i>Ardea herodias</i>			X
Green heron	<i>Butorides striatus</i>			X
Double-crested cormorant	<i>Phalacrocorax auritus</i>			X
Black-crowned night-heron	<i>Nycticorax nycticorax</i>			X
Spotted sandpiper	<i>Actitis macularia</i>			X
Ring-billed gull	<i>Larus delawarensis</i>			X
Black tern	<i>Chlidonias niger</i>			X
Wilson's snipe	<i>Gallinago gallinago</i>		X	X
American woodcock	<i>Scolopax minor</i>		X	X
Killdeer	<i>Charadrius vociferus</i>		X	X
Wild turkey	<i>Meleagris gallopavo</i>	X	X	
Bobwhite quail	<i>Colinus virginianus</i>		X	
Mourning dove	<i>Zenaida macroura</i>		X	
Canada goose	<i>Branta canadensis</i>		X	X
Wood duck	<i>Aix sponsa</i>			X
Mallard	<i>Anas platyrhynchos</i>			X
Blue-winged teal	<i>Anas discors</i>			X
American black duck	<i>Anas rubripes</i>			X
Hooded merganser	<i>Lophodytes cucullatus</i>			X
Bufflehead	<i>Bucephala albeola</i>			X
Red-breasted merganser	<i>Mergus serrator</i>			X
Ring-necked duck	<i>Aythya collaris</i>			X
Pied-bill grebe	<i>Podilymbus podiceps</i>			X
Northern cardinal	<i>Cardinalis cardinalis</i>	X	X	
Eastern bluebird	<i>Sialia sialis</i>		X	
American goldfinch	<i>Carduelis tristis</i>	X	X	
Grasshopper sparrow*	<i>Ammodramus savannarum</i>		X	
Blue jay	<i>Cyanocitta cristata</i>	X		
Carolina chickadee	<i>Parus carolinensis</i>	X	X	
Red-winged blackbird	<i>Agelaius phoeniceus</i>		X	X
Rufous-sided towhee	<i>Pipilo erythrophthalmus</i>	X	X	
American robin	<i>Turdus migratorius</i>	X	X	
Northern mockingbird	<i>Mimus polyglottos</i>		X	
Carolina wren	<i>Thryothorus ludovicianus</i>	X	X	
Indigo bunting	<i>Passerina cyanea</i>		X	
Tufted titmouse	<i>Parus bicolor</i>	X		
White-breasted nuthatch	<i>Sitta carolinensis</i>	X		X
Yellow-billed cuckoo	<i>Coccyzus americanus</i>	X	X	X
Black-and-white warbler	<i>Mniotilta varia</i>	X		
Wood thrush	<i>Hylocichla mustelina</i>	X		

Species By Common Name	Scientific Name	Forest Lands	Managed Open Lands *	Wetland and Riparian Communities
Eastern wood pewee	<i>Contopus virens</i>	X		
Red-eyed vireo	<i>Vireo olivaceus</i>	X		
Pine warbler	<i>Dendroica pinus</i>	X		
Blue-gray gnatcatcher	<i>Polioptila caerulea</i>			X
Great crested flycatcher	<i>Myiarchus crinitus</i>	X		
Mammals				
Whitetail deer	<i>Odocoileus virginianus</i>	X	X	X
Gray squirrel	<i>Sciurus carolinensis</i>	X		
Southern flying squirrel	<i>Glaucomys volans</i>	X		
Eastern chipmunk	<i>Tamias striatus</i>	X	X	
Raccoon	<i>Procyon lotor</i>	X		X
Eastern cottontail rabbit	<i>Sylvilagus floridanus</i>		X	
Bobcat	<i>Lynx rufus</i>	X		X
Red fox	<i>Vulpes vulpes</i>		X	
Gray fox	<i>Urocyon cinereoargenteus</i>	X	X	
Coyote	<i>Canis latrans</i>		X	
Mink	<i>Mustela vison</i>			X
Muskrat	<i>Ondatra zibethicus</i>			X
Opossum	<i>Didelphis virginiana</i>	X	X	
Striped skunk	<i>Mephitis mephitis</i>	X	X	
Groundhog	<i>Marmota monax</i>	X	X	
White-footed mouse	<i>Peromyscus leucopus</i>	X	X	
Woodland jumping mouse *	<i>Napaeozapus insignis</i>	X	X	X
Meadow jumping mouse *	<i>Zapus hudsonius</i>	X	X	X
Deer mouse	<i>Peromyscus maniculatus</i>	X	X	
Allegheny woodrat*	<i>Neotoma magister</i>	X		
Southern bog lemming*	<i>Synaptomys cooperi</i>	X		X
Eastern mole	<i>Scalopus aquaticus</i>	X	X	
Least shrew	<i>Cryptotis parva</i>		X	X
Southeastern shrew *	<i>Sorex longirostris</i>	X		X
Short-tailed shrew	<i>Blarina brevicauda</i>	X		X
Gray bat *	<i>Myotis grisescens</i>			X
Indiana bat *	<i>Myotis sodalis</i>	X		X
Eastern small-footed myotis *	<i>Myotis leibii</i>	X		X

*Species listed as endangered, threatened, or in need of management federally, by the state of Tennessee, or recommended by the Tennessee Wildlife Resources Agency.

Table D-2. Plant Species Found in Loudon, Rhea, and Roane Counties (Tennessee Herbarium 2003)

Common Name	Scientific Name	Loudon	Rhea	Roane
Adam's needle	<i>Yucca flaccida</i>			X
Agave	<i>Manfreda virginica</i>	X	X	
Alabama lip fern	<i>Cheilanthes alabamensis</i>	X		
Allegheny brook saxifrag	<i>Boykinia aconitifolia</i>		X	
Allegheny foam flower	<i>Tiarella cordifolia</i>		X	X
Allegheny hawkweed	<i>Hieracium paniculatum</i>			X
Allegheny monkey flower	<i>Mimulus ringens</i>	X		X
Allegheny spurge	<i>Pachysandra procumbens</i>			X
Alligator weed	<i>Alternanthera philoxeroides</i>		X	
Alternate leaf dogwood	<i>Cornus alternifolia</i>			X
America blue hearts	<i>Buchnera americana</i>		X	X
American alumroot	<i>Heuchera americana</i>	X	X	X
American basswood	<i>Tilia americana var. heterophylla</i>		X	X
American beech	<i>Fagus grandifolia</i>		X	X
American bellflower	<i>Campanula americana</i>			X
American bittersweet	<i>Celastrus scandens</i>		X	X
American bur reed	<i>Sparganium americanum</i>	X		
American burnweed	<i>Erechtites hieraciifolia</i>			X
American chestnut	<i>Castanea dentata</i>		X	X
American clinging fern	<i>Lygodium palmatum</i>		X	X
American dog violet	<i>Viola conspersa</i>			X
American eelgrass	<i>Vallisneria americana</i>	X		
American elm	<i>Ulmus americana</i>			X
American false pennyroyal	<i>Hedeoma pulegioides</i>			X
American ginseng	<i>Panax quinquefolius</i>			X
American hazelnut	<i>Corylus americana</i>		X	X
American hogpeanut	<i>Amphicarpaea bracteata</i>	X	X	X
American holly	<i>Ilex opaca</i>		X	
American lily of the valley	<i>Convallaria majuscula</i>			X
American lopseed	<i>Phryma leptostachya</i>		X	X
American plum	<i>Prunus americana</i>	X		X
American pokeweed	<i>Phytolacca americana</i>	X		X
American spikenard	<i>Aralia racemosa</i>		X	
American sycamore	<i>Platanus occidentalis</i>		X	X
American water hoarhound	<i>Lycopus americanus</i>	X		X
American water plantain	<i>Alisma subcordatum</i>			X
American waterwillow	<i>Justicia americana</i>		X	X
American witch hazel	<i>Hamamelis virginiana</i>		X	X
Amur honeysuckle	<i>Lonicera maackii</i>	X		
Angularleaf milkvine	<i>Matelea gonocarpos</i>			X
Anisescented goldenrod	<i>Solidago odora</i>		X	X
Annual bastard cabbage	<i>Rapistrum rugosum</i>			X
Annual blue grass	<i>Poa annua</i>		X	
Annual marsh elder	<i>Iva annua</i>	X		
Appalachian barren strawberry	<i>Waldsteinia fragarioides</i>		X	X
Appalachian blazing star	<i>Liatris squarrulosa</i>		X	X
Appalachian bugbane	<i>Cimicifuga rubifolia</i>			X

Common Name	Scientific Name	Loudon	Rhea	Roane
Appalachian bunch flower	<i>Melanthium parviflorum</i>		X	X
Appalachian false white goat's beard	<i>Astilbe biternata</i>		X	X
Appalachian polypody	<i>Polypodium appalachianum</i>		X	X
Appalachian sandwort	<i>Arenaria glabra</i>		X	
Apple of Peru	<i>Nicandra physalodes</i>		X	X
Aromatic aster	<i>Aster oblongifolius</i>			X
Arrowfeather threeawn grass	<i>Aristida purpurascens</i>			X
Arrowhead rattlebox	<i>Crotalaria sagittalis</i>			X
Arrowleaf tearthumb	<i>Polygonum sagittatum</i>	X		X
Arrowleaf violet	<i>Viola sagittata var. sagittata</i>		X	
Arrowwood	<i>Viburnum dentatum</i>		X	X
Ashy hydrangea	<i>Hydrangea cinerea</i>			X
Ashy sunflower	<i>Helianthus mollis</i>			X
Atlantic goldenrod	<i>Solidago arguta var. caroliniana</i>		X	X
Atlantic pigeonwing	<i>Clitoria mariana</i>		X	
Autumn coralroot	<i>Corallorhiza odontorhiza</i>	X	X	
Autumn goldenrod	<i>Solidago sphacelata</i>		X	X
Axilflower	<i>Mecardonia acuminata</i>		X	X
Azure blue; quaking ladies	<i>Houstonia caerulea</i>	X		X
Bagpod	<i>Glottidium vesicarium</i>	X		
Bailey's sedge	<i>Carex baileyi</i>			X
Bald spikerush	<i>Eleocharis erythropoda</i>			X
Barnyard grass	<i>Echinochloa crusgalli</i>			X
Bastard toadflax	<i>Comandra umbellata</i>		X	
beaked agrimony	<i>Agrimonia rostellata</i>		X	X
Beaked cornsalad	<i>Valerianella radiata</i>			X
Beaked hazelnut	<i>Corylus cornuta</i>		X	
Beaked panic grass	<i>Panicum anceps</i>			X
Bearded beggar ticks	<i>Bidens aristosa</i>	X	X	X
Bearded shorthusk grass	<i>Brachyelytrum erectum</i>		X	X
Bearded skeleton grass	<i>Gymnopogon ambiguus</i>			X
Beech drops	<i>Epifagus virginiana</i>		X	
Beefsteak plant	<i>Perilla frutescens</i>		X	
Bent sedge	<i>Carex styloflexa</i>		X	X
Bermuda grass	<i>Cynodon dactylon</i>			X
Biennial beeblossom	<i>Gaura biennis</i>	X		X
Big bluestem	<i>Andropogon gerardii</i>		X	X
Birdfoot deer vetch	<i>Lotus corniculatus</i>	X		
Bird's foot violet	<i>Viola pedata</i>		X	X
Bitter dock	<i>Rumex obtusifolius</i>			X
Bitternut hickory	<i>Carya cordiformis</i>			X
Black walnut	<i>Juglans nigra</i>	X		X
Blackjack oak	<i>Quercus marilandica</i>	X	X	
Black chokecherry	<i>Aronia melanocarpa</i>		X	
Black cohosh	<i>Cimicifuga racemosa</i>			X
Black gum	<i>Nyssa sylvatica var. sylvatica</i>	X		X
Black highbush huckleberry	<i>Vaccinium fuscatum</i>			X
Black huckleberry	<i>Gaylussacia baccata</i>		X	X

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Common Name	Scientific Name	Loudon	Rhea	Roane
Black locust	<i>Robinia pseudoacacia</i>			X
Black medic	<i>Medicago lupulina</i>		X	X
Black oak	<i>Quercus velutina</i>	X	X	X
Black raspberry	<i>Rubus occidentalis</i>	X		X
Black willow	<i>Salix nigra</i>			X
Blackberry lily	<i>Belamcanda chinensis</i>	X		
Black-edged sedge	<i>Carex nigromarginata</i>		X	X
Black-eyed Susan	<i>Rudbeckia hirta var. hirta</i>	X		X
Black-eyed Susan	<i>Rudbeckia hirta var. pulcherrima</i>			X
Blackseed plantain	<i>Plantago rugelii</i>			X
Black-stemmed spleenwort	<i>Asplenium resiliens</i>	X	X	X
Bladdernut	<i>Staphylea trifolia</i>		X	X
Bloodroot	<i>Sanguinaria canadensis</i>		X	X
Bloody butcher	<i>Trillium recurvatum</i>	X		
Blue beech	<i>Carpinus caroliniana</i>		X	X
Blue cohosh	<i>Caulophyllum thalictroides</i>			X
Blue field madder	<i>Sherardia arvensis</i>			X
Blue mist flower	<i>Conoclinium coelestinum</i>		X	X
Blue sedge	<i>Carex glaucoidea</i>	X		
Blue skullcap	<i>Scutellaria lateriflora</i>	X	X	X
Blue waxweed	<i>Cuphea viscosissima</i>			X
Blunt broom sedge	<i>Carex tribuloides</i>	X		X
Blunt leaf bedstraw	<i>Galium obtusum</i>	X		
Blunt spikerush	<i>Eleocharis obtusa</i>	X		X
Bluntleaf waterleaf	<i>Hydrophyllum canadense</i>			X
Bluntlobe cliff fern	<i>Woodsia obtusa</i>	X	X	X
Bog yelloweyed grass	<i>Xyris difformis</i>		X	
Bosc's panic grass	<i>Dichanthelium boscii</i>	X	X	X
Bottomland aster	<i>Aster ontarionis</i>	X	X	X
Bouncing bet	<i>Saponaria officinalis</i>			X
Bowman's root	<i>Porteranthus trifoliatus</i>	X	X	X
Boxelder	<i>Acer negundo</i>			X
Bracken fern	<i>Pteridium aquilinum</i>	X	X	X
Bradley's spleenwort	<i>Asplenium bradleyi</i>		X	
Bristle leaf sedge	<i>Carex eburnea</i>			X
Bristlewort	<i>Ranunculus recurvatus</i>	X		X
Bristly buttercup	<i>Ranunculus hispidus var. hispidus</i>	X		X
Bristly buttercup	<i>Ranunculus hispidus var. nitidus</i>			X
Bristly greenbriar	<i>Smilax tamnoides</i>	X		
Bristly locust	<i>Robinia hispida</i>			X
Brittle water nymph	<i>Najas minor</i>		X	
Broad beech fern	<i>Phegopteris hexagonoptera</i>	X	X	X
Broad leaf arrowhead	<i>Sagittaria latifolia</i>	X	X	
Broad loose flower sedge	<i>Carex laxiflora</i>	X	X	X
Broadleaf cattail	<i>Typha latifolia</i>			X
Broadleaf enchanter's nightshade	<i>Circaea lutetiana ssp. canadensis</i>		X	X
Broadleaf rosette grass	<i>Dichanthelium latifolium</i>			X
Broadleaf sedge	<i>Carex platyphylla</i>		X	

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Broadleaf wild leek	<i>Allium ampeloprasum</i>			X
Brome fescue	<i>Vulpia bromoides</i>	X		
Broomcorn millet	<i>Panicum miliaceum</i>	X		
Broomsedge bluestem	<i>Andropogon virginicus</i>		X	X
Brown-eyed Susan	<i>Rudbeckia triloba</i>			X
Brownish beak sedge	<i>Rhynchospora capitellata</i>		X	X
Buckthorn	<i>Sideroxylon lycioides</i>			X
Bue ash	<i>Fraxinus quadrangulata</i>	X		X
Buffalo nut	<i>Pyrularia pubera</i>		X	X
Bulblet bladder fern	<i>Cystopteris bulbifera</i>	X	X	X
Bulbose woodrush	<i>Luzula bulbosa</i>		X	X
Bull crown grass	<i>Paspalum boschianum</i>	X		X
Bushclover	<i>Lespedeza bicolor</i>		X	
Bushy St. Johnswort	<i>Hypericum densiflorum</i>	X	X	X
Butler's parsley	<i>Ammoselinum butleri</i>	X		X
Butter and eggs	<i>Linaria vulgaris</i>	X		
Butterfly weed	<i>Asclepias tuberosa</i>	X	X	X
Butterweed	<i>Senecio glabellus</i>		X	
Button bush	<i>Cephalanthus occidentalis</i>		X	X
Calico aster	<i>Aster lateriflorus</i>			X
California bulrush	<i>Schoenoplectus californicus</i>		X	
Camphorweed	<i>Pluchea camphorata</i>			X
Canada blue grass	<i>Poa compressa</i>			X
Canada germander	<i>Teucrium canadense</i>			X
Canada goldenrod	<i>Solidago canadensis var. scabra</i>		X	X
Canada lettuce	<i>Lactuca canadensis</i>			X
Canada licorice root	<i>Ligusticum canadense</i>		X	X
Canada lily	<i>Lilium canadense</i>			X
Canada serviceberry	<i>Amelanchier canadensis</i>	X		
Canada white violet	<i>Viola canadensis</i>		X	X
Canada woodnettle	<i>Laportea canadensis</i>	X		X
Canadian black snakeroot	<i>Sanicula canadensis</i>	X	X	X
Canadian honewort	<i>Cryptotaenia canadensis</i>		X	X
Canadian lousewort	<i>Pedicularis canadensis</i>		X	X
Canadian summer bluet	<i>Houstonia canadensis</i>			X
Canadian clearweed	<i>Pilea pumila</i>		X	X
Candyroot	<i>Polygala nana</i>		X	
Cankerweed	<i>Prenanthes serpentaria</i>			X
Cardinal flower	<i>Lobelia cardinalis</i>	X	X	X
Carolina buckthorn	<i>Rhamnus caroliniana</i>	X	X	X
Carolina bugbane	<i>Trautvetteria caroliniensis</i>		X	X
Carolina crab grass	<i>Digitaria cognata</i>			X
Carolina elephant's foot	<i>Elephantopus carolinianus</i>		X	X
Carolina foxtail grass	<i>Alopecurus carolinianus</i>			X
Carolina geranium	<i>Geranium carolinianum</i>	X		X
Carolina hickory	<i>Carya ovata var. australis</i>			X
Carolina holly	<i>Ilex ambigua var. ambigua</i>			X
Carolina horsenettle	<i>Solanum carolinense</i>			X
Carolina leaf-flower	<i>Phyllanthus caroliniensis</i>		X	X

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Common Name	Scientific Name	Loudon	Rhea	Roane
Carolina moonseed	<i>Cocculus carolinus</i>			X
Carolina rose	<i>Rosa carolina</i>			X
Carolina sedge	<i>Carex caroliniana</i>		X	X
Carolina spring beauty	<i>Claytonia virginica</i>		X	X
Carolina vetch	<i>Vicia caroliniana</i>		X	X
Carolina wild petunia	<i>Ruellia caroliniensis</i>	X	X	X
Cat greenbriar	<i>Smilax glauca</i>			X
Chaffweed	<i>Anagallis minima</i>			X
Cheat grass	<i>Bromus tectorum</i>	X	X	X
Cheerful sunflower	<i>Helianthus x laetiflorus</i>	X		X
Cherokee sedge	<i>Carex cherokeensis</i>		X	
Chestnut oak	<i>Quercus montana</i>	X	X	X
Chickasaw plum	<i>Prunus angustifolia</i>	X	X	X
Chinese empress tree	<i>Paulownia tomentosa</i>			X
Chinese lespedeza	<i>Lespedeza cuneata</i>	X		X
Chinese privet	<i>Ligustrum sinense</i>	X	X	X
Chinese silvergrass	<i>Miscanthus sinensis</i>	X	X	
Christmas fern	<i>Polystichum acrostichoides</i>	X	X	X
Churchmouse threawn grass	<i>Aristida dichotoma var. dichotoma</i>	X		X
Cinnamon fern	<i>Osmunda cinnamomea</i>		X	
Clammy goosefoot	<i>Chenopodium pumilio</i>		X	
Clammy ground cherry	<i>Physalis heterophylla</i>		X	
Clasping milkweed	<i>Asclepias amplexicaulis</i>		X	X
Clasping Venus looking glass	<i>Triodanis perfoliata var. perfoliata</i>		X	X
Climbing false buckwheat	<i>Polygonum scandens</i>		X	X
Clustered mountain mint	<i>Pycnanthemum muticum</i>		X	
Clustered black snakeroot	<i>Sanicula odorata</i>			X
Clustered dock	<i>Rumex conglomeratus</i>	X		X
Cockspur hawthorn	<i>Crataegus crus-galli</i>			X
Combleaf yellow false foxglove	<i>Aureolaria pectinata</i>	X	X	X
Common apple	<i>Malus pumila</i>		X	X
Common blue violet	<i>Viola sororia</i>		X	X
Common blue wood aster	<i>Aster cordifolius</i>	X	X	X
Common boneset	<i>Eupatorium perfoliatum</i>		X	
Common chickweed	<i>Stellaria media ssp. media</i>			X
Common cinquefoil	<i>Potentilla simplex var. simplex</i>	X		X
Common corn cockle	<i>Agrostemma githago</i>	X		
Common dittney	<i>Cunila origanoides</i>		X	
Common elderberry	<i>Sambucus canadensis</i>			X
Common evening primrose	<i>Oenothera biennis</i>	X		X
Common gypsyweed	<i>Veronica officinalis</i>		X	X
Common milkweed	<i>Asclepias syriaca</i>			X
Common moonseed	<i>Menispermum canadense</i>	X		X
Common mullein	<i>Verbascum thapsus</i>			X
Common ninebark	<i>Physocarpus opulifolius</i>			X
Common pear	<i>Pyrus communis</i>			X
Common periwinkle	<i>Vinca minor</i>		X	X
Common selfheal	<i>Prunella vulgaris</i>	X	X	X
Common serviceberry	<i>Amelanchier arborea</i>		X	X

Common Name	Scientific Name	Loudon	Rhea	Roane
Common sheep sorrel	<i>Rumex acetosella</i>	X		X
Common sneezeweed	<i>Helenium autumnale</i>	X	X	X
Common spikerush	<i>Eleocharis palustris</i>			X
Common St. Johnswort	<i>Hypericum perforatum</i>	X		X
Common sunflower	<i>Helianthus annuus</i>	X		
Common threesquare	<i>Schoenoplectus pungens</i>	X		X
Common velvet grass	<i>Holcus lanatus</i>		X	
Common vipers bugloss	<i>Echium vulgare</i>			X
Common wheat	<i>Triticum aestivum</i>		X	
Common winterberry	<i>Ilex verticillata</i>		X	
Common woodrush	<i>Luzula multiflora</i>		X	X
Common wormwood	<i>Artemisia vulgaris</i>			X
Common yellow oxalis	<i>Oxalis stricta</i>	X	X	X
Common yellow rocket	<i>Barbarea vulgaris</i>	X		
Compact dodder	<i>Cuscuta compacta</i>			X
Coon's tail	<i>Ceratophyllum demersum</i>		X	X
Copperleaf	<i>Acalypha gracilens</i>			X
Copperleaf	<i>Acalypha ostryifolia</i>	X	X	
Copperleaf	<i>Acalypha rhomboidea</i>			X
Copperleaf	<i>Acalypha virginica</i>	X		X
Coral honeysuckle	<i>Lonicera sempervirens</i>			X
Coralberry	<i>Symphoricarpos orbiculatus</i>			X
Corn gromwell	<i>Buglossoides arvensis</i>			X
Corn speedwell	<i>Veronica arvensis</i>			X
Cornel leaf whitetop	<i>Doellingeria infirma</i>		X	
Cow oak	<i>Quercus michauxii</i>	X		X
Cranefly orchid	<i>Tipularia discolor</i>		X	X
Cream avens	<i>Geum virginianum</i>	X	X	X
Creeping aster	<i>Aster surculosus</i>		X	X
Creeping bent grass	<i>Agrostis stolonifera</i>			X
Creeping lespedeza	<i>Lespedeza repens</i>		X	X
Crested Iris	<i>Iris cristata</i>	X	X	X
Crimson eye rose mallow	<i>Hibiscus moscheutos ssp. moscheutos</i>	X		X
Crinkleroot	<i>Dentaria diphylla</i>			X
Crooked stem aster	<i>Aster prenanthoides</i>	X		
Cross vine	<i>Bignonia capreolata</i>		X	X
Cucumber magnolia	<i>Magnolia acuminata</i>		X	X
Culver's root	<i>Veronicastrum virginicum</i>			X
Cumberland azalea	<i>Rhododendron cumberlandense</i>		X	
Cumberland mock orange	<i>Philadelphus hirsutus</i>		X	X
Curley top knotweed	<i>Polygonum lapathifolium</i>	X		X
Curly dock	<i>Rumex crispus</i>	X		X
Curly pondweed	<i>Potamogeton crispus</i>			X
Cursed buttercup	<i>Ranunculus sceleratus</i>			X
Curtis' threeawn grass	<i>Aristida dichotoma var. curtissii</i>	X		
Curtiss' milkwort	<i>Polygala curtissii</i>		X	X
Cutleaf coneflower	<i>Rudbeckia laciniata var. laciniata</i>			X
Cutleaf evening primrose	<i>Oenothera laciniata</i>		X	

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Common Name	Scientific Name	Loudon	Rhea	Roane
Cutleaf geranium	<i>Geranium dissectum</i>			X
Cutleaf toothwort	<i>Dentaria laciniata</i>			X
Cypress panic grass	<i>Dichanthelium dichotomum</i>	X	X	X
Cypress spurge	<i>Euphorbia cyparissias</i>	X		
Dallas grass	<i>Paspalum dilatatum</i>			X
Dames rocket	<i>Hesperis matronalis</i>		X	X
Dandelion	<i>Taraxacum officinale</i>			X
Deadnettle	<i>Lamium purpureum</i>			X
Deerberry	<i>Vaccinium stamineum</i>			X
Deertongue	<i>Dichanthelium clandestinum</i>			X
Dense blazing star	<i>Liatris spicata</i>			X
Densetuff hair sedge	<i>Bulbostylis capillaris</i>		X	
Deptford pink	<i>Dianthus armeria</i>		X	X
Devil's beggar ticks	<i>Bidens frondosa</i>			X
Devil's bite	<i>Liatris scariosa</i>			X
Devil's darning needles	<i>Clematis virginiana</i>			X
Devil's grandmother	<i>Elephantopus tomentosus</i>		X	X
Devil's walking stick	<i>Aralia spinosa</i>		X	X
Diamond flowers	<i>Hedyotis nigricans</i>		X	X
Dimpled trout lily	<i>Erythronium umbilicatum</i>			X
Dissected grape fern	<i>Botrychium dissectum</i>		X	X
Ditch stonecrop	<i>Penthorum sedoides</i>	X	X	X
Dogtooth violet	<i>Erythronium americanum</i>		X	X
Doll's eye	<i>Actaea pachypoda</i>		X	X
Dotted smartweed	<i>Polygonum punctatum</i>	X	X	X
Dovefoot geranium	<i>Geranium molle</i>	X		
Downy carrion flower	<i>Smilax pulverulenta</i>	X		
Downy danthonia	<i>Danthonia sericea</i>	X	X	
Downy lobelia	<i>Lobelia puberula</i>		X	
Downy milkpea	<i>Galactia volubilis</i>	X	X	X
Downy phlox	<i>Phlox pilosa</i>		X	X
Downy yellow false foxglove	<i>Aureolaria virginica</i>	X	X	X
Downy yellow violet	<i>Viola pubescens</i>			X
Drooping sedge	<i>Carex prasina</i>		X	
Dropseed	<i>Sporobolus asper var. asper</i>			X
Drummond's dropseed	<i>Sporobolus asper var. drummondii</i>			X
Dutchman's pipe	<i>Aristolochia macrophylla</i>		X	X
Dward hackberry	<i>Celtis tenuifolia</i>		X	
Dwarf chinkapin oak	<i>Quercus prinoides</i>			X
Dwarf cinquefoil	<i>Potentilla canadensis</i>		X	
Dwarf gentian	<i>Gentianella quinquefolia</i>			X
Dwarf larkspur	<i>Delphinium tricornis</i>			X
Dwarf snapdragon	<i>Chaenorhinum minus</i>		X	X
Dwarf spikerush	<i>Eleocharis parvula</i>			X
Dwarf St. Johnswort	<i>Hypericum mutilum</i>			X
Earleaf false foxglove	<i>Agalinis auriculata</i>			X
Early blue grass	<i>Poa cuspidata</i>			X
Early blue violet	<i>Viola palmata</i>		X	X
Early buttercup	<i>Ranunculus fascicularis</i>	X	X	X

Common Name	Scientific Name	Loudon	Rhea	Roane
Early goldenrod	<i>Solidago juncea</i>			X
Early saxifrage	<i>Saxifraga virginensis</i>	X		X
Early yellow rocket	<i>Barbarea verna</i>		X	X
Eastern blue-eyed grass	<i>Sisyrinchium atlanticum</i>			X
Eastern bluestar	<i>Amsonia tabernaemontana</i>		X	X
Eastern cottonwood	<i>Populus deltoides</i>			X
Eastern daisy fleabane	<i>Erigeron annuus</i>			X
Eastern featherbells	<i>Stenanthium gramineum</i>	X		
Eastern gama grass	<i>Tripsacum dactyloides</i>	X		X
Eastern gray beard tongue	<i>Penstemon canescens</i>	X	X	X
Eastern hemlock	<i>Tsuga canadensis</i>		X	X
Eastern narrowleaf sedge	<i>Carex amphibola</i>	X		X
Eastern prickly gooseberry	<i>Ribes cynosbati</i>		X	
Eastern red Bud	<i>Cercis canadensis</i>			X
Eastern red cedar	<i>Juniperus virginiana</i>	X	X	X
Eastern silver aster	<i>Aster concolor</i>		X	X
Eastern smooth beard tongue	<i>Penstemon laevigatus</i>	X	X	X
Eastern sweetshrub	<i>Calycanthus floridus var. floridus</i>		X	X
Eastern sweetshrub	<i>Calycanthus floridus var. glaucus</i>			X
Eastern wahoo	<i>Euonymus atropurpureus</i>			X
Eastern woodland sedge	<i>Carex blanda</i>		X	
Ebony spleenwort	<i>Asplenium platyneuron</i>	X	X	X
Elf orpine	<i>Diamorpha smallii</i>		X	
Elliott's bluestem	<i>Andropogon gyrans</i>			X
Elmleaf goldenrod	<i>Solidago ulmifolia</i>		X	X
Enitreleaf yellow false foxglove	<i>Aureolaria laevigata</i>		X	X
Entangled hawthorn	<i>Crataegus intricata</i>		X	
Eastern bottlebrush grass	<i>Elymus hystrix</i>			X
European privet	<i>Ligustrum vulgare</i>	X		X
Evergreen magnolia	<i>Magnolia grandiflora</i>	X		
Eyebane	<i>Chamaesyce nutans</i>			X
Fairy wand	<i>Chamaelirium luteum</i>		X	
Fall panic grass	<i>Panicum dichotomiflorum</i>		X	X
Fall phlox	<i>Phlox paniculata</i>			X
False boneset	<i>Brickellia eupatorioides</i>		X	X
False daisy	<i>Eclipta prostrata</i>			X
False dandelion	<i>Pyrrhopappus carolinianus</i>		X	X
False hop sedge	<i>Carex lupuliformis</i>	X		
False spotted St. Johnswort	<i>Hypericum pseudomaculatum</i>		X	X
False teeth skullcap	<i>Scutellaria pseudoserrata</i>			X
Fan club moss	<i>Diphasiastrum digitatum</i>	X		X
Fancy fern	<i>Dryopteris intermedia</i>		X	X
Farkleberry	<i>Vaccinium arboreum</i>		X	X
Fescue sedge	<i>Carex festucacea</i>	X		X
Few flowered nut rush	<i>Scleria pauciflora</i>		X	
Fewleaf sunflower	<i>Helianthus occidentalis</i>			X
Fibrous root sedge	<i>Carex communis</i>		X	
Field clover	<i>Trifolium campestre</i>			X
Field pansy	<i>Viola bicolor</i>		X	X

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Field paspalum	<i>Paspalum laeve</i>	X		X
Field pepperweed	<i>Lepidium campestre</i>	X	X	
Field thistle	<i>Cirsium discolor</i>			X
Fire pink	<i>Silene virginica</i>		X	X
Five angled dodder	<i>Cuscuta pentagona</i>		X	X
Flat top goldentop	<i>Euthamia graminifolia</i>			X
Flaxleaf whitetop aster	<i>Aster linariifolius</i>			X
Florida paspalum	<i>Paspalum floridanum</i>			X
Flowering dogwood	<i>Cornus florida</i>		X	X
Flowering spurge	<i>Euphorbia corollata</i>		X	X
Fluxweed	<i>Isanthus brachiatus</i>	X	X	X
Fly poison	<i>Amianthium muscaetoxicum</i>	X		X
Forked bluecurls	<i>Trichostema dichotomum</i>		X	X
Fourleaf milkweed	<i>Asclepias quadrifolia</i>	X	X	
Fowl manna grass	<i>Glyceria striata</i>		X	X
Fox sedge	<i>Carex vulpinoidea</i>	X		X
Foxtail bristle grass	<i>Setaria italica</i>			X
Fragrant bedstraw	<i>Galium triflorum</i>	X	X	X
Fragrant flat sedge	<i>Cyperus odoratus</i>			X
Fragrant sumac	<i>Rhus aromatica</i>			X
Frank's sedge	<i>Carex frankii</i>		X	X
French grass	<i>Orbexilum onobrychis</i>	X		X
French mulberry	<i>Callicarpa americana</i>		X	
Fringed loosestrife	<i>Lysimachia ciliata</i>			X
Fringed sedge	<i>Carex crinita</i>	X	X	X
Fringeleaf wild petunia	<i>Ruellia humilis</i>	X	X	X
Frost grape	<i>Vitis vulpina</i>		X	X
Frosted hawthorn	<i>Crataegus pruinosa</i>			X
Fuller's teasel	<i>Dipsacus fullonum</i>			X
Galax	<i>Galax urceolata</i>			X
Gall of the earth	<i>Prenanthes trifoliolata</i>		X	
Gattinger's false foxglove	<i>Agalinis gattingeri</i>		X	
Gattinger's panic grass	<i>Panicum gattingeri</i>			X
Gay wings	<i>Polygala paucifolia</i>		X	X
Giant cut grass	<i>Zizaniopsis miliacea</i>		X	
Giant goldenrod	<i>Solidago gigantea</i>			X
Giant ironweed	<i>Vernonia gigantea</i>			X
Giant ragweed	<i>Ambrosia trifida</i>			X
Giant reed grass	<i>Arundo donax</i>		X	
Giant river cane	<i>Arundinaria gigantea ssp. gigantea</i>			X
Glade fern	<i>Diplazium pycnocarpon</i>	X		
Globe beaksedge	<i>Rhynchospora recognita</i>		X	
Globe flat sedge	<i>Cyperus echinatus</i>		X	
Glomerate sedge	<i>Carex aggregata</i>	X		
Goat's beard	<i>Aruncus dioicus</i>		X	X
Goatsbeard	<i>Tragopogon dubius</i>			X
Golden club	<i>Orontium aquaticum</i>			X
Golden eye saxifrage	<i>Saxifraga careyana</i>		X	X
Golden ragwort	<i>Senecio aureus</i>			X

Common Name	Scientific Name	Loudon	Rhea	Roane
Golden tickseed	<i>Coreopsis tinctoria</i>		X	X
Goldenseal	<i>Hydrastis canadensis</i>			X
Goldie's Wood fern	<i>Dryopteris goldiana</i>			X
Goosegrass	<i>Eleusine indica</i>			X
Granite gooseberry	<i>Ribes curvatum</i>		X	
Grassleaf rush	<i>Juncus marginatus</i>		X	X
Gray goldenrod	<i>Solidago nemoralis</i>		X	X
Gray's sedge	<i>Carex grayi</i>			X
Great blue lobelia	<i>Lobelia siphilitica</i>	X		X
Great indian plantain	<i>Arnoglossum muehlenbergii</i>			X
Great plains flat sedge	<i>Cyperus lupulinus</i>		X	
Great yellow wood sorrel	<i>Oxalis grandis</i>		X	
Greater bladder sedge	<i>Carex intumescens</i>		X	X
Greater marsh St. John's wort	<i>Triadenum walteri</i>			X
Greater periwinkle	<i>Vinca major</i>			X
Greater straw sedge	<i>Carex normalis</i>			X
Greater tickseed	<i>Coreopsis major</i>			X
Greater yellow lady's slipper	<i>Cypripedium pubescens</i>		X	
Green adder's mouth orchid	<i>Malaxis unifolia</i>		X	X
Green antelopehorn	<i>Asclepias viridis</i>		X	
Green arrow arum	<i>Peltandra virginica</i>	X		
Green ash	<i>Fraxinus pennsylvanica</i>	X		X
Green bristle grass	<i>Setaria viridis var. major</i>			X
Green bristle grass	<i>Setaria viridis var. viridis</i>			X
Green bulrush	<i>Scirpus atrovirens</i>	X	X	X
Green carpetweed	<i>Mollugo verticillata</i>	X		X
Green comet milkweed	<i>Asclepias viridiflora</i>	X	X	X
Green dragon	<i>Arisaema dracontium</i>			X
Green fringed orchid	<i>Platanthera lacera</i>		X	
Green violet	<i>Hybanthus concolor</i>	X	X	X
Grooved flax	<i>Linum sulcatum</i>			X
Ground nut	<i>Apios americana</i>	X	X	X
Ground pine	<i>Lycopodium obscurum</i>		X	X
Hairy alumroot	<i>Heuchera villosa var. villosa</i>	X	X	X
Hairy angelica	<i>Angelica venenosa</i>	X		X
Hairy bedstraw	<i>Galium pilosum</i>		X	X
Hairy bittercress	<i>Cardamine hirsuta</i>		X	X
Hairy buttercup	<i>Ranunculus sardous</i>	X		
Hairy chervil	<i>Chaerophyllum tainturieri</i>			X
Hairy crab grass	<i>Digitaria sanguinalis</i>			X
Hairy forked nailwort	<i>Paronychia fastigiata</i>		X	X
Hairy goldenrod	<i>Solidago hispida</i>		X	
Hairy joint meadow parsnip	<i>Thaspium barbinode</i>		X	X
Hairy leaf-cup	<i>Smallanthus uvedalius</i>		X	X
Hairy lespedeza	<i>Lespedeza hirta</i>	X	X	X
Hairy lip fern	<i>Cheilanthes lanosa</i>	X	X	
Hairy phlox	<i>Phlox amoena</i>	X	X	X
Hairy seed paspalum	<i>Paspalum pubiflorum</i>		X	X
Hairy skullcap	<i>Scutellaria elliptica var. elliptica</i>		X	

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Common Name	Scientific Name	Loudon	Rhea	Roane
Hairy skullcap	<i>Scutellaria elliptica var. hirsuta</i>		X	X
Hairy small leaf tick trefoil	<i>Desmodium ciliare</i>		X	X
Hairy sunflower	<i>Helianthus hirsutus</i>	X	X	X
Hairy white old field aster	<i>Aster pilosus var. pilosus</i>	X		X
Hairy wild rye	<i>Elymus villosus</i>			X
Hairy woodland brome grass	<i>Bromus pubescens</i>		X	X
Hairy woodrush	<i>Luzula acuminata</i>			X
Halberd-leaf yellow violet	<i>Viola hastata</i>		X	X
Harper's three-part violet	<i>Viola tripartita var. glaberrima</i>		X	X
Harvest bells	<i>Gentiana saponaria</i>			X
Harvest lice	<i>Agrimonia parviflora</i>	X		X
Hayscented fern	<i>Dennstaedtia punctilobula</i>		X	X
Heart shaped peppervine	<i>Ampelopsis cordata</i>	X		X
Heartleaf hedge nettle	<i>Stachys nuttallii</i>		X	X
Heavy sedge	<i>Carex gravida</i>	X		
Hedge false bindweed	<i>Calystegia sepium</i>		X	X
Hedgehog woodrush	<i>Luzula echinata</i>		X	X
Heller's cudweed	<i>Gnaphalium helleri</i>			X
Heller's rosette grass	<i>Dichantherium oligosanthes</i>	X		X
Helmet flower	<i>Scutellaria integrifolia</i>	X	X	X
Henbit	<i>Lamium amplexicaule</i>			X
Highbush huckleberry	<i>Vaccinium corymbosum</i>		X	X
Highland doghobble	<i>Leucothoe fontanesiana</i>		X	X
Hirstue sedge	<i>Carex complanata</i>	X	X	X
Hoary puccoon	<i>Lithospermum canescens</i>			X
Hoary skullcap	<i>Scutellaria incana var. incana</i>		X	X
Hoary skullcap	<i>Scutellaria incana var. punctata</i>		X	X
Hoary tick trefoil	<i>Desmodium canescens</i>			X
Honey locust	<i>Gleditsia triacanthos</i>	X	X	X
Honeyvine	<i>Cynanchum laeve</i>			X
Hop sedge	<i>Carex lupulina</i>	X		X
Hophornbeam	<i>Ostrya virginiana</i>		X	X
Hornleaf river weed	<i>Podostemum ceratophyllum</i>	X		
Horsetail	<i>Equisetum hyemale var. affine</i>		X	X
Horseweed	<i>Conyza canadensis</i>			X
Huger's carrion flower	<i>Smilax ecirrata var. hugeri</i>	X		X
Husk tomato	<i>Physalis pubescens var. integrifolia</i>		X	X
Hybrid violet	<i>Viola x primulifolia</i>		X	X
Hyssop leaf thoroughwort	<i>Eupatorium hyssopifolium</i>		X	X
Illinois pinweed	<i>Lechea racemulosa</i>		X	X
Indian blanket	<i>Gaillardia pulchella</i>			X
Indian cucumber	<i>Medeola virginiana</i>		X	X
Indian grass	<i>Sorghastrum nutans</i>		X	X
Indian hemp	<i>Apocynum cannabinum</i>			X
Indian love grass	<i>Eragrostis pilosa</i>			X
Indian physic	<i>Porteranthus stipulatus</i>		X	
Indian pink	<i>Spigelia marilandica</i>		X	X
Indian pipe	<i>Monotropa uniflora</i>	X		X
Indian tobacco	<i>Lobelia inflata</i>		X	X

Common Name	Scientific Name	Loudon	Rhea	Roane
Inland rush	<i>Juncus interior</i>			X
Inland woodoats	<i>Chasmanthium latifolium</i>			X
Intermediate lespedeza	<i>Lespedeza intermedia</i>	X	X	X
Interrupted fern	<i>Osmunda claytoniana</i>		X	X
Italian rye grass	<i>Lolium multiflorum</i>			X
Ivyleaf morning glory	<i>Ipomoea hederacea</i>			X
Jack-in-the-pulpit	<i>Arisaema triphyllum</i>	X		X
Jacob's ladder	<i>Polemonium reptans</i>			X
Jagged chickweed	<i>Holosteum umbellatum</i>	X		X
Japanese bristle grass	<i>Setaria faberi</i>		X	X
Japanese brome grass	<i>Bromus japonicus</i>			X
Japanese clover	<i>Kummerowia striata</i>			X
Japanese honeysuckle	<i>Lonicera japonica</i>			X
Japanese stiltgrass	<i>Microstegium vimineum</i>			X
Java bean	<i>Senna obtusifolia</i>			X
Jerusalem artichoke	<i>Helianthus tuberosus</i>	X		X
Jimson weed	<i>Datura stramonium</i>		X	X
Johnson grass	<i>Sorghum halepense</i>			X
Jumpseed	<i>Polygonum virginianum</i>		X	X
Jungle rice	<i>Echinochloa colona</i>			X
Kentucky blue grass	<i>Poa pratensis</i>	X		X
Kidney leaf grass of Parnassus	<i>Parnassia asarifolia</i>		X	
King of the meadow	<i>Thalictrum pubescens</i>			X
Koren clover	<i>Kummerowia stipulacea</i>	X	X	X
Lace grass	<i>Eragrostis capillaris</i>		X	X
Lanceleaf fogfruit	<i>Phyla lanceolata</i>	X		X
Lanceleaf loosestrife	<i>Lysimachia lanceolata</i>		X	X
Large brack tick trefoil	<i>Desmodium cuspidatum</i>		X	
Large bracted plantain	<i>Plantago aristata</i>	X	X	X
Large fruit black snakeroot	<i>Sanicula trifoliata</i>		X	
Large seed forget-me-not	<i>Myosotis macrosperma</i>	X		X
Large-flowered Barbara's button	<i>Marshallia grandiflora</i>			X
Largeleaf pond weed	<i>Potamogeton amplifolius</i>	X		
Late flowering thoroughwort	<i>Eupatorium serotinum</i>		X	X
Late purple aster	<i>Aster patens</i>	X	X	X
Lavendar old field aster	<i>Aster pilosus var. priceae</i>	X		X
Leafy bulrush	<i>Scirpus polyphyllus</i>	X		
Leafy pondweed	<i>Potamogeton foliosus</i>	X		X
Leathery rush	<i>Juncus coriaceus</i>	X	X	X
Leavenworth's sedge	<i>Carex leavenworthii</i>		X	
Lemon yellow false golden aster	<i>Heterotheca camporum</i>			X
Leonard's skullcap	<i>Scutellaria parvula var. missouriensis</i>		X	X
Lesser calaminth	<i>Calamintha nepeta</i>			X
Lesser snakeroot	<i>Ageratina aromatica</i>		X	
Lesser yellow lady's slipper	<i>Cypripedium parviflorum</i>	X		
Licorice bedstraw	<i>Galium circaezans</i>	X	X	X
Lillyleaf twayblade	<i>Liparis liliifolia</i>			X
Limestone adder's tongue	<i>Ophioglossum engelmannii</i>		X	

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Common Name	Scientific Name	Loudon	Rhea	Roane
Limestone meadow sedge	<i>Carex granularis</i>	X		X
Limestone wild petunia	<i>Ruellia strepens</i>	X		X
Lindheimer panic grass	<i>Dichanthelium acuminatum</i> var. <i>lindheimeri</i>		X	X
Lined sedge	<i>Carex striatula</i>	X	X	X
Little barley	<i>Hordeum pusillum</i>	X	X	
Little bluestem	<i>Schizachyrium scoparium</i>	X	X	X
Little brown jug	<i>Hexastylis arifolia</i> var. <i>arifolia</i>			X
Little head nut rush	<i>Scleria oligantha</i>	X		X
Little ladies' tresses	<i>Spiranthes tuberosa</i>		X	X
Little leaf buttercup	<i>Ranunculus abortivus</i>	X		X
Littleflowered alumroot	<i>Heuchera parviflora</i>		X	
Lizard tail	<i>Saururus cernuus</i>		X	X
Lobed spleenwort	<i>Asplenium pinnatifidum</i>		X	
Lobed tickseed	<i>Coreopsis auriculata</i>		X	X
Longbeak arrowhead	<i>Sagittaria australis</i>	X	X	
Longhair sedge	<i>Carex comosa</i>	X		
Longleaf ground cherry	<i>Physalis longifolia</i> var. <i>subglabrata</i>	X		
Longleaf pondweed	<i>Potamogeton nodosus</i>	X		
Longleaf summer bluet	<i>Houstonia longifolia</i>	X	X	X
Longleaf woodoats	<i>Chasmanthium sessiliflorum</i>		X	X
Longspur violet	<i>Viola rostrata</i>		X	X
Longstalk cranesbill	<i>Geranium columbinum</i>	X		
Longstyle sweet cicely	<i>Osmorhiza longistylis</i>	X		
Loomis' mountain mint	<i>Pycnanthemum loomisii</i>	X		
Lopsided rush	<i>Juncus secundus</i>		X	
Low spearwort	<i>Ranunculus pusillus</i>			X
Low spike sedge	<i>Kyllinga pumila</i>			X
Lowbush blueberry	<i>Vaccinium pallidum</i>		X	X
Lowland bladder fern	<i>Cystopteris protrusa</i>	X	X	X
Lowland rotala	<i>Rotala ramosior</i>	X		X
Lowry's blue wood aster	<i>Aster lowrieanus</i>		X	
Lyreleaf sage	<i>Salvia lyrata</i>	X	X	X
Maidenhair fern	<i>Adiantum pedatum</i>	X	X	X
Maidenhair spleenwort	<i>Asplenium trichomanes</i>		X	X
Man of the earth	<i>Ipomoea pandurata</i>	X	X	X
Many flower flat sedge	<i>Cyperus lancastriensis</i>	X		X
Maple leaf viburnum	<i>Viburnum acerifolium</i>		X	X
Marginal shield fern	<i>Dryopteris marginalis</i>		X	X
Marsh blue violet	<i>Viola cucullata</i>		X	X
Marsh bristle grass	<i>Setaria parviflora</i>			X
Marsh dayflower	<i>Murdannia keisak</i>			X
Marsh flat sedge	<i>Cyperus pseudovegetus</i>		X	
Marsh pea	<i>Lathyrus palustris</i>		X	
Marsh seedbox	<i>Ludwigia palustris</i>	X		X
Maryland golden aster	<i>Chrysopsis mariana</i>		X	X
Maryland meadow beauty	<i>Rhexia mariana</i> var. <i>mariana</i>		X	
Maryland senna	<i>Senna marilandica</i>			X
Matting rosette grass	<i>Dichanthelium meridionale</i>		X	X

Common Name	Scientific Name	Loudon	Rhea	Roane
May apple	<i>Podophyllum peltatum</i>		X	X
Meadow beauty	<i>Rhexia virginica</i>		X	X
Meadow brome grass	<i>Bromus catharticus</i>	X		
Meadow fescue	<i>Festuca pratensis</i>		X	X
Meadow foxtail grass	<i>Alopecurus pratensis</i>			X
Meadow garlic	<i>Allium canadense</i>			X
Meadow spike moss	<i>Selaginella apoda</i>	X	X	
Meadow zizia	<i>Zizia aptera</i>			X
Mercury spurge	<i>Euphorbia mercurialina</i>	X	X	X
Mexican tea	<i>Chenopodium ambrosioides</i>			X
Midland sedge	<i>Carex mesochorea</i>	X		
Mimosa	<i>Albizia julibrissin</i>	X		
Mockernut hickory	<i>Carya tomentosa</i>		X	X
Money plant	<i>Lunaria annua</i>	X		
Moth mullein	<i>Verbascum blattaria</i>			X
Mountain bush honeysuckle	<i>Diervilla rivularis</i>			X
Mountain camelia	<i>Stewartia ovata</i>		X	X
Mountain decumbent goldenrod	<i>Solidago curtisii</i>			X
Mountain false indigo	<i>Amorpha glabra</i>	X		
Mountain goldenrod	<i>Solidago flaccidifolia</i>		X	
Mountain holly	<i>Ilex ambigua var. montana</i>		X	
Mountain laurel	<i>Kalmia latifolia</i>		X	X
Mountain meadow-rue	<i>Thalictrum clavatum</i>		X	
Mountain rosebay	<i>Rhododendron catawbiense</i>		X	
Mountain silverbell	<i>Halesia tetraptera</i>	X		X
Mountain spleenwort	<i>Asplenium montanum</i>	X	X	X
Mouse-ear cress	<i>Arabidopsis thaliana</i>		X	X
Mouseeear hawkweed	<i>Hieracium venosum</i>	X	X	X
Multiflora rose	<i>Rosa multiflora</i>	X		X
Muscadine	<i>Vitis rotundifolia</i>		X	X
Naked flower tick trefoil	<i>Desmodium nudiflorum</i>		X	X
Narrowleaf bluecurls	<i>Trichostema setaceum</i>		X	X
Narrowleaf blue-eyed grass	<i>Sisyrinchium angustifolium</i>	X		X
Narrowleaf evening primrose	<i>Oenothera fruticosa ssp. fruticosa</i>			X
Narrowleaf mountain mint	<i>Pycnanthemum tenuifolium</i>		X	X
Narrowleaf plantain	<i>Plantago lanceolata</i>	X		X
Narrowleaf silkgrass	<i>Pityopsis graminifolia</i>		X	X
Narrowleaf vervain	<i>Verbena simplex</i>		X	X
Narrowleaf whitetop aster	<i>Sericocarpus linifolius</i>		X	X
Neckweed	<i>Veronica peregrina</i>		X	X
Needle grass	<i>Stipa avenacea</i>	X	X	X
Needleleaf rosette grass	<i>Dichanthelium aciculare</i>			X
Needlepod rush	<i>Juncus scirpoides</i>		X	
Needle-tip blue-eyed grass	<i>Sisyrinchium mucronatum</i>		X	
Netted chain fern	<i>Woodwardia areolata</i>		X	
Nettle leaf sage	<i>Salvia urticifolia</i>	X	X	X
New England aster	<i>Aster novae-angliae</i>			X
New Jersey tea	<i>Ceanothus americanus</i>		X	X
New York fern	<i>Thelypteris noveboracensis</i>		X	X

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Nimblewill	<i>Muhlenbergia schreberi</i>			X
Nodding chickweed	<i>Cerastium nutans var. nutans</i>			X
Nodding fescue	<i>Festuca subverticillata</i>			X
Nodding ladies' tresses	<i>Spiranthes cernua</i>		X	
Nodding onion	<i>Allium cernuum</i>			X
Northern bush honeysuckle	<i>Diervilla lonicera</i>			X
Northern panic grass	<i>Dichanthelium boreale</i>			X
Northern red oak	<i>Quercus rubra</i>	X		X
Northern slender ladies' tresses	<i>Spiranthes lacera var. gracilis</i>	X	X	X
Northern white cedar	<i>Thuja occidentalis</i>			X
Norwegian cinquefoil	<i>Potentilla norvegica</i>		X	X
Nottoway Valley brome grass	<i>Bromus nottowayanus</i>		X	
Nuttall's lobelia	<i>Lobelia nuttallii</i>			X
Nuttall's tick trefoil	<i>Desmodium nuttallii</i>		X	
Obedient plant	<i>Physostegia virginiana ssp. praemorsa</i>		X	X
Obedient plant	<i>Physostegia virginiana ssp. virginiana</i>			X
October ladies' tresses	<i>Spiranthes ovalis</i>			X
Ohio buckeye	<i>Aesculus glabra</i>	X		X
One seed bur cucumber	<i>Sicyos angulatus</i>			X
Ontario blazing star	<i>Liatris cylindracea</i>		X	X
Openflower rosette grass	<i>Dichanthelium laxiflorum</i>		X	X
Orange coneflower	<i>Rudbeckia fulgida var. fulgida</i>	X		X
Orange coneflower	<i>Rudbeckia fulgida var. umbrosa</i>		X	
Orange daylily	<i>Hemerocallis fulva</i>			X
Orangegrass	<i>Hypericum gentianoides</i>		X	X
Orchard grass	<i>Dactylis glomerata</i>	X		X
Oriental lady's thumb	<i>Polygonum caespitosum var. longisetum</i>	X		X
Osage orange	<i>Maclura pomifera</i>	X		
Oval leaf sedge	<i>Carex cephalophora</i>	X	X	X
Oxeye daisy	<i>Leucanthemum vulgare</i>	X		X
Ozark dropseed	<i>Sporobolus vaginiflorus var. ozarkanus</i>	X	X	X
Painted buckeye	<i>Aesculus sylvatica</i>	X	X	X
Pale beard tongue	<i>Penstemon pallidus</i>			X
Pale green orchid	<i>Platanthera flava var. herbiola</i>			X
Pale indian plantain	<i>Arnoglossum atriplicifolia</i>		X	X
Pale leather flower	<i>Clematis versicolor</i>			X
Pale touch-me-not	<i>Impatiens pallida</i>		X	X
Palespike lobelia	<i>Lobelia spicata</i>	X	X	X
Panicled leaf tick trefoil	<i>Desmodium paniculatum</i>		X	X
Paper mulberry	<i>Broussonetia papyrifera</i>		X	
Parasol whitetop	<i>Doellingeria umbellata</i>			X
Parrot feather watermilfoil	<i>Myriophyllum aquaticum</i>	X		
Partridge berry	<i>Mitchella repens</i>		X	
Partridge pea	<i>Chamaecrista fasciculata</i>		X	X
Partridge pea	<i>Chamaecrista nictitans</i>		X	X
Passion flower	<i>Passiflora incarnata</i>	X	X	X
Pasture spike sedge	<i>Kyllinga gracillima</i>	X		

Common Name	Scientific Name	Loudon	Rhea	Roane
Path rush	<i>Juncus tenuis</i>		X	X
Pawpaw	<i>Asimina triloba</i>		X	X
Peach	<i>Prunus persica</i>			X
Pennsylvania sedge	<i>Carex pensylvanica</i>		X	X
Pennsylvania smartweed	<i>Polygonum pensylvanicum</i>	X	X	X
Peppermint	<i>Mentha x piperita</i>	X		X
Perennial rye grass	<i>Lolium perenne</i>		X	X
Perfoliate bellwort	<i>Uvularia perfoliata</i>	X	X	X
Perfumed plum	<i>Prunus mahaleb</i>	X		
Perplexed tick trefoil	<i>Desmodium perplexum</i>		X	X
Persimmon	<i>Diospyros virginiana</i>			X
Philadelphia daisy fleabane	<i>Erigeron philadelphicus</i>			X
Philadelphia panic grass	<i>Panicum philadelphicum</i>			X
Piedmont bedstraw	<i>Galium pedemontanum</i>	X		
Piedmont rhododendron	<i>Rhododendron minus</i>	X		X
Pignut hickory	<i>Carya glabra</i>		X	X
Pinesap	<i>Monotropa hypopithys</i>		X	
Pink azalea	<i>Rhododendron periclymenoides</i>	X		X
Pink fussy bean	<i>Strophostyles umbellata</i>		X	X
Pink ladies	<i>Oenothera speciosa</i>	X		
Pink Lady's slipper	<i>Cypripedium acaule</i>	X	X	X
Pink thoroughwort	<i>Fleischmannia incarnata</i>	X		X
Pinnate prairie coneflower	<i>Ratibida pinnata</i>			X
Pitcher's sandwort	<i>Arenaria patula</i>	X		
Plantain leaf sedge	<i>Carex plantaginea</i>		X	
Pleatleaf knotweed	<i>Polygonum tenue</i>		X	
Plumleaf spiraea	<i>Spiraea prunifolia</i>			X
Pointed leaf tick trefoil	<i>Desmodium glutinosum</i>		X	
Poison ivy	<i>Toxicodendron radicans</i>			X
Poke milkweed	<i>Asclepias exaltata</i>		X	X
Poor robin's plantain	<i>Erigeron pulchellus</i>		X	X
Poorjoe	<i>Diodia teres</i>			X
Possum grape	<i>Vitis cinerea var. baileyana</i>		X	X
Post oak	<i>Quercus stellata</i>		X	X
Poverty dropseed	<i>Sporobolus vaginiflorus var. vaginiflorus</i>		X	X
Poverty oat grass	<i>Danthonia spicata</i>	X	X	X
Prairie cord grass	<i>Spartina pectinata</i>	X		
Prairie fleabane	<i>Erigeron strigosus var. strigosus</i>		X	X
Prairie rose	<i>Rosa setigera</i>	X		X
Prairie rosinweed	<i>Silphium terebinthinaceum</i>			X
Prairie tea	<i>Croton monanthogynus</i>		X	
Prairie threeawn grass	<i>Aristida oligantha</i>	X		X
Prairie wedgescale	<i>Sphenopholis obtusata var. obtusata</i>		X	X
Prairie willow	<i>Salix humilis var. humilis</i>			X
Prickly bog sedge	<i>Carex atlantica ssp. atlantica</i>			X
Prickly fan petals	<i>Sida spinosa</i>			X
Prickly lettuce	<i>Lactuca serriola</i>	X		
Prickly pear cactus	<i>Opuntia humifusa</i>			X

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Prostrate tick trefoil	<i>Desmodium rotundifolium</i>			X
Poverty brome grass	<i>Bromus sterilis</i>		X	
Puffshealth dropseed	<i>Sporobolus neglectus</i>		X	X
Purple cliffbrake fern	<i>Pellaea atropurpurea</i>	X	X	X
Purple coneflower	<i>Echinacea purpurea</i>			X
Purple cudweed	<i>Gnaphalium purpureum</i>	X		X
Purple disk sunflower	<i>Helianthus atrorubens</i>	X	X	X
Purple false foxglove	<i>Agalinis purpurea</i>			X
Purple giant hyssop	<i>Agastache scrophulariifolia</i>			X
Purple loosestrife	<i>Lythrum salicaria</i>			X
Purple love grass	<i>Eragrostis spectabilis</i>	X		X
Purple milkwort	<i>Polygala sanguinea</i>	X		
Purple phacelia	<i>Phacelia bipinnatifida</i>	X	X	X
Purple rocket	<i>Iodanthus pinnatifidus</i>	X		
Purple sedge	<i>Carex purpurifera</i>		X	
Purpleheaded sneezeweed	<i>Helenium flexuosum</i>		X	X
Purpleleaf willow herb	<i>Epilobium coloratum</i>			X
Purpletop tridens	<i>Tridens flavus var. flavus</i>			X
Pussytoes	<i>Antennaria plantaginifolia</i>		X	X
Quack grass	<i>Elymus repens</i>			X
Queen Anne's lace	<i>Daucus carota</i>			X
Queendevil	<i>Hieracium gronovii</i>			X
Quill fameflower	<i>Talinum teretifolium</i>		X	
Rabbit tobacco	<i>Gnaphalium obtusifolium</i>	X	X	X
Racemed milkwort	<i>Polygala polygama</i>		X	
Ragweed	<i>Ambrosia artemisiifolia</i>		X	X
Rattan vine	<i>Berchemia scandens</i>		X	X
Rattlesnake fern	<i>Botrychium virginianum</i>	X	X	X
Rattlesnake master	<i>Eryngium yuccifolium</i>		X	X
Rattlesnake plantain	<i>Goodyera pubescens</i>		X	X
Ravenel's rosette grass	<i>Dichantherium ravenelii</i>		X	X
Red buckeye	<i>Aesculus pavia</i>			X
Red chokecherry	<i>Aronia arbutifolia</i>		X	
Red clover	<i>Trifolium pratense</i>			X
Red Columbine	<i>Aquilegia canadensis</i>			X
Red fescue	<i>Festuca rubra</i>		X	
Red maple	<i>Acer rubrum</i>		X	X
Red mulberry	<i>Morus rubra</i>	X		X
Red trillium	<i>Trillium erectum</i>			X
Redring milkweed	<i>Asclepias variegata</i>	X		X
Redstar	<i>Ipomoea coccinea</i>	X	X	X
Redtop	<i>Agrostis gigantea</i>		X	X
Redtop panic grass	<i>Panicum rigidulum var. elongatum</i>			X
Redtop panic grass	<i>Panicum rigidulum var. rigidulum</i>	X		X
Reflexed sedge	<i>Carex retroflexa</i>	X	X	X
Resurrection fern	<i>Pleopeltis polypodioides var. michauxiana</i>	X	X	X
Ribbed sedge	<i>Carex virescens</i>		X	X
Rice button aster	<i>Aster dumosus</i>			X

Common Name	Scientific Name	Loudon	Rhea	Roane
Rice cutgrass	<i>Leersia oryzoides</i>	X	X	X
Richweed	<i>Collinsonia canadensis</i>		X	X
Ridged yellow flax	<i>Linum striatum</i>		X	X
River birch	<i>Betula nigra</i>		X	X
Riverbank wild rye	<i>Elymus riparius</i>		X	
Rock cap fern	<i>Polypodium virginianum</i>		X	
Rose pink	<i>Sabatia angularis</i>			X
Rosebay	<i>Rhododendron maximum</i>		X	
Rosy sedge	<i>Carex rosea</i>		X	X
Rough barnyard grass	<i>Echinochloa muricata var. muricata</i>	X		X
Rough boneset	<i>Eupatorium pilosum</i>		X	
Rough cocklebur	<i>Xanthium strumarium</i>			X
Rough dropseed	<i>Sporobolus clandestinus</i>	X	X	X
Rough flat sedge	<i>Cyperus retrofractus</i>			X
Rough leaf dogwood	<i>Cornus drummondii</i>			X
Round fruit hedge hyssop	<i>Gratiola virginiana</i>		X	X
Roundheaded lespedeza	<i>Lespedeza capitata</i>	X		X
Roundleaf catchfly	<i>Silene rotundifolia</i>		X	
Roundleaf greenbriar	<i>Smilax rotundifolia</i>		X	X
Roundleaf ragwort	<i>Senecio obovatus</i>			X
Roundleaf thoroughwort	<i>Eupatorium rotundifolium</i>		X	X
Roundlobed liverleaf	<i>Hepatica americana</i>	X	X	X
Roundseed panic grass	<i>Dichanthelium sphaerocarpon</i>	X	X	X
Roundseed panic grass	<i>Dichanthelium sphaerocarpon var. isophyllum</i>			X
Roundseed St. Johnswort	<i>Hypericum sphaerocarpum</i>		X	
Royal fern	<i>Osmunda regalis var. spectabilis</i>		X	X
Rescue grass	<i>Bromus commutatus</i>	X	X	X
Rue anemone	<i>Thalictrum thalictroides</i>		X	X
Rufous bulrush	<i>Scirpus pendulus</i>			X
Running strawberry bush	<i>Euonymus obovatus</i>			X
Russian olive	<i>Elaeagnus umbellata</i>			X
Rusty black haw	<i>Viburnum rufidulum</i>		X	X
Ruth's little brown jug	<i>Hexastylis arifolia var. ruthii</i>	X	X	X
Sampson's snakeroot	<i>Orbexilum pedunculatum</i>			X
Sand bittercress	<i>Cardamine parviflora</i>		X	X
Sand hickory	<i>Carya pallida</i>		X	X
Sand violet	<i>Viola affinis</i>			X
Sandbar love grass	<i>Eragrostis frankii</i>			X
Sandbar willow	<i>Salix exigua</i>	X		X
Sanddune wallflower	<i>Erysimum capitatum</i>			X
Sandplain flax	<i>Linum intercursum</i>			X
Sassafras	<i>Sassafras albidum</i>	X	X	X
Saw greenbriar	<i>Smilax bona-nox</i>	X		X
Scaldweed	<i>Cuscuta gronovii</i>			X
Scaly blazing star	<i>Liatis squarrosa</i>	X	X	X
Scarlet Indian paintbrush	<i>Castilleja coccinea</i>			X
Scarlett pimpernel	<i>Anagallis arvensis</i>			X
Seedbox	<i>Ludwigia alternifolia</i>	X		X

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Common Name	Scientific Name	Loudon	Rhea	Roane
Sensitive fern	<i>Onoclea sensibilis</i>	X	X	X
Sessile leaf bellwort	<i>Uvularia sessilifolia</i>	X	X	
Shagbark hickory	<i>Carya ovata</i> var. <i>ovata</i>			X
Shaggy solider	<i>Galinsoga quadriradiata</i>	X		
Shallow sedge	<i>Carex lurida</i>		X	X
Sharpleaf St. Johnswort	<i>Hypericum denticulatum</i> var. <i>acutifolium</i>		X	X
Sharploded liverleaf	<i>Hepatica acutiloba</i>		X	X
Sharpscale sedge	<i>Carex oxylepis</i> var. <i>oxylepis</i>	X		
Sharpscale sedge	<i>Carex oxylepis</i> var. <i>pubescens</i>			X
Sharpwinged monkey flower	<i>Mimulus alatus</i>	X		X
Shiny wedgescale	<i>Sphenopholis nitida</i>	X	X	X
Shooting star	<i>Dodecatheon meadia</i>		X	
Shortbeaked sedge	<i>Carex brevior</i>	X		
Shortbristle horned beak sedge	<i>Rhynchospora corniculata</i>	X		
Shortleaf pine	<i>Pinus echinata</i>			X
Short's sedge	<i>Carex shortiana</i>			X
Showy goldenrod	<i>Solidago erecta</i>		X	X
Showy goldenrod	<i>Solidago speciosa</i> var. <i>rigidiuscula</i>			X
Showy goldenrod	<i>Solidago speciosa</i> var. <i>speciosa</i>			X
Showy orchid	<i>Galearis spectabilis</i>		X	
Shumard's oak	<i>Quercus shumardii</i>	X	X	X
Shrubby St. Johnswort	<i>Hypericum prolificum</i>			X
Sicklepod	<i>Arabis canadensis</i>			X
Sidebeak pencil flower	<i>Stylosanthes biflora</i>		X	X
Sideoats gamma grass	<i>Bouteloua curtipendula</i>			X
Silky dogwood	<i>Cornus amomum</i>		X	X
Silver beard grass	<i>Bothriochloa laguroides</i> ssp. <i>torreyana</i>			X
Silver maple	<i>Acer saccharinum</i>			X
Silver plume grass	<i>Saccharum alopecuroidum</i>		X	
Singleheaded pussytoes	<i>Antennaria solitaria</i>			X
Silver glade fern	<i>Deparia acrostichoides</i>			X
Sixweeks fescue	<i>Vulpia octoflora</i> var. <i>octoflora</i>			X
Sleepy catchfly	<i>Silene antirrhina</i>		X	X
Slender crab grass	<i>Digitaria filiformis</i>	X	X	X
Slender fimbry	<i>Fimbristylis autumnalis</i>		X	X
Slender leaf false foxglove	<i>Agalinis tenuifolia</i>		X	X
Slender lespedeza	<i>Lespedeza virginica</i>	X	X	X
Slender loose flower sedge	<i>Carex gracilescens</i>			X
Slender muhly	<i>Muhlenbergia tenuiflora</i>		X	X
Slender parsley piert	<i>Aphanes microcarpa</i>	X		X
Slender toothwort	<i>Dentaria heterophylla</i>			X
Slender wedgescale	<i>Sphenopholis obtusata</i> var. <i>major</i>			X
Slender woodland sedge	<i>Carex digitalis</i>		X	X
Slender woodoats	<i>Chasmanthium laxum</i>			X
Slenderstalk beeblossum	<i>Gaura filipes</i>	X	X	X
Slimleaf panic grass	<i>Dichanthelium linearifolium</i>	X	X	X
Slippery elm	<i>Ulmus rubra</i>		X	X
Small bonny bellflower	<i>Campanula divaricata</i>		X	X

Common Name	Scientific Name	Loudon	Rhea	Roane
Small carp grass	<i>Arthraxon hispidus</i>			X
Small flowered buttercup	<i>Ranunculus parviflorus</i>	X	X	X
Small flowered hawkbeard	<i>Crepis pulchra</i>		X	X
Small flowered phacelia	<i>Phacelia dubia var. dubia</i>			X
Small fruit primrose willow	<i>Ludwigia microcarpa</i>			X
Small green wood orchid	<i>Platanthera clavellata</i>			X
Small head blazing star	<i>Liatris microcephala</i>		X	X
Small head rush	<i>Juncus brachycephalus</i>			X
Small pondweed	<i>Potamogeton pusillus</i>	X		
Small skullcap	<i>Scutellaria parvula var. parvula</i>			X
Small spike false nettle	<i>Boehmeria cylindrica</i>			X
Small woodland sunflower	<i>Helianthus microcephalus</i>	X	X	X
Smallflower baby blue eyes	<i>Nemophila aphylla</i>	X		
Small's beard tongue	<i>Penstemon smallii</i>	X		
Small's black snakeroot	<i>Sanicula smallii</i>	X		X
Small's ragwort	<i>Senecio anonymus</i>	X		X
Smooth blue aster	<i>Aster laevis var. laevis</i>			X
Smooth brome grass	<i>Bromus inermis</i>			X
Smooth carrion flower	<i>Smilax herbacea var. herbacea</i>			X
Smooth cliffbrake fern	<i>Pellaea glabella</i>			X
Smooth hedge nettle	<i>Stachys tenuifolia</i>			X
Smooth oxeye	<i>Heliopsis helianthoides</i>			X
Smooth phlox	<i>Phlox glaberrima</i>	X	X	X
Smooth rock cress	<i>Arabis laevigata var. laevigata</i>	X	X	X
Smooth serviceberry	<i>Amelanchier laevis</i>		X	X
Smooth sheath sedge	<i>Carex laevivaginata</i>			X
Smooth small leaf tick trefoil	<i>Desmodium marilandicum</i>		X	X
Smooth sumac	<i>Rhus glabra</i>			X
Smooth tick trefoil	<i>Desmodium laevigatum</i>		X	X
Smooth wood reed	<i>Cinna arundinacea</i>	X		X
Smooth yellow false foxglove	<i>Aureolaria flava</i>	X		X
Smooth crab grass	<i>Digitaria ischaemum</i>			X
Soft agrimony	<i>Agrimonia pubescens</i>	X	X	X
Soft beard plume grass	<i>Saccharum brevibarbe var. contortum</i>	X		
Soft rush	<i>Juncus effusus</i>	X	X	X
Softstem bulrush	<i>Schoenoplectus tabernaemontani</i>	X		X
Solomon's plume	<i>Smilacina racemosa</i>	X	X	X
Solomon's seal	<i>Polygonatum biflorum</i>	X	X	X
Sourwood	<i>Oxydendrum arboreum</i>		X	X
Southern adder's tongue	<i>Ophioglossum vulgatum</i>			X
Southern blackberry	<i>Rubus betulifolius</i>			X
Southern blue monkshood	<i>Aconitum uncinatum</i>			X
Southern crab apple	<i>Malus angustifolia</i>		X	
Southern hackberry	<i>Celtis laevigata</i>		X	
Southern Lady fern	<i>Athyrium filix-femina ssp. asplenioides</i>	X	X	X
Southern mountain mint	<i>Pycnanthemum pycnanthemoides</i>		X	
Southern pinxter azalea	<i>Rhododendron canescens</i>	X	X	
Southern prairie aster	<i>Aster paludosus ssp. hemisphericus</i>		X	
Southern red oak	<i>Quercus falcata</i>	X		X

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Southern red trillium	<i>Trillium sulcatum</i>		X	X
Southern sedge	<i>Carex australis</i>	X		
Southern woodland violet	<i>Viola hirsutula</i>			X
Southern yellow loosestrife	<i>Lysimachia tonsa</i>		X	X
Spanish needles	<i>Bidens bipinnata</i>			X
Sparse-lobed grape fern	<i>Botrychium biternatum</i>			X
Spicebush	<i>Lindera benzoin</i>		X	X
Spike watermilfoil	<i>Myriophyllum spicatum</i>	X	X	
Spiked hoary pea	<i>Tephrosia spicata</i>		X	X
Spiny pigweed	<i>Amaranthus spinosus</i>	X		X
Splitbeard bluestem	<i>Andropogon ternarius</i>	X	X	X
Spotted geranium	<i>Geranium maculatum</i>	X	X	X
Spotted knapweed	<i>Centaurea biebersteinii</i>			X
Spotted lady's thumb	<i>Polygonum persicaria</i>	X	X	X
Spotted mandarin	<i>Disporum maculatum</i>		X	X
Spotted St. Johnswort	<i>Hypericum punctatum</i>	X	X	X
Spotted water hemlock	<i>Cicuta maculata</i>			X
Spotted wintergreen	<i>Chimaphila maculata</i>		X	X
Spreading hedge parsley	<i>Torilis arvensis</i>			X
Spreading sedge	<i>Carex laxiculmis</i>			X
Spreading yellow false foxglove	<i>Aureolaria patula</i>			X
Spring coralroot	<i>Corallorhiza wisteriana</i>			X
Spring draba	<i>Draba verna</i>		X	X
Spring ladies' tresses	<i>Spiranthes vernalis</i>		X	
Spurred butterfly pea	<i>Centrosema virginianum</i>		X	X
Square steam spikerush	<i>Eleocharis quadrangulata</i>			X
Squarrose sedge	<i>Carex squarrosa</i>			X
Squaw root	<i>Conopholis americana</i>			X
St. Andrew's cross	<i>Hypericum hypericoides</i>		X	X
St. Andrew's cross	<i>Hypericum stragulum</i>		X	
St. Anthony's turnip	<i>Ranunculus bulbosus</i>	X		X
Staggerbush	<i>Lyonia ligustrina</i>	X		X
Stalkless yellowcress	<i>Rorippa sessiliflora</i>	X		X
Star chickweed	<i>Stellaria pubera</i>		X	X
Star grass	<i>Hypoxis hirsuta</i>	X	X	X
Star of Bethlehem	<i>Ornithogalum umbellatum</i>	X		X
Star tickseed	<i>Coreopsis pubescens</i>			X
Starry rosinweed	<i>Silphium asteriscus</i>			X
Starved panic grass	<i>Dichanthelium depauperatum</i>		X	X
Steeplebush	<i>Spiraea tomentosa</i>		X	
Stellate sedge	<i>Carex albicans var. australis</i>		X	
Stickywillie	<i>Galium aparine</i>	X		X
Stiff cowbane	<i>Oxypolis rigidior</i>		X	X
Stiff dogwood	<i>Cornus foemina</i>			X
Stiff goldenrod	<i>Solidago rigida ssp. glabrata</i>			X
Stiff marsh bedstraw	<i>Galium tinctorium</i>	X	X	X
Stiff tick trefoil	<i>Desmodium obtusum</i>		X	X
Stiff yellow flax	<i>Linum medium var. texanum</i>		X	X
Stink grass	<i>Eragrostis cilianensis</i>		X	X

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Stoneroot	<i>Collinsonia verticillata</i>		X	X
Strong quillwort	<i>Isoetes valida</i>			X
Stragglng St. Johnswort	<i>Hypericum dolabriforme</i>	X	X	X
Straw colored flat sedge	<i>Cyperus strigosus</i>		X	X
Strawberry bush	<i>Euonymus americanus</i>		X	X
Striped cream violet	<i>Viola striata</i>			X
Striped gentian	<i>Gentiana villosa</i>		X	
Stripped maple	<i>Acer pensylvanicum</i>		X	
Sugar cane plume grass	<i>Saccharum giganteum</i>			X
Sugar maple	<i>Acer saccharum ssp. saccharum</i>		X	X
Sulphur cinquefoil	<i>Potentilla recta</i>	X		X
Summer grape	<i>Vitis aestivalis var. aestivalis</i>		X	X
Summer grape	<i>Vitis aestivalis var. bicolor</i>		X	
Swamp dewberry	<i>Rubus hispidus</i>			X
swamp doghobble; fetterbush	<i>Leucothoe racemosa</i>			X
Swamp milkweed	<i>Asclepias incarnata ssp. incarnata</i>	X		X
Swamp smartweed	<i>Polygonum hydropiperoides</i>	X		X
Swamp sunflower	<i>Helianthus angustifolius</i>			X
Swan's sedge	<i>Carex swanii</i>		X	X
Sweet azalea	<i>Rhododendron arborescens</i>		X	
Sweet birch	<i>Betula lenta</i>		X	X
Sweet briar rose	<i>Rosa eglanteria</i>		X	
Sweet gum	<i>Liquidambar styraciflua</i>	X	X	X
Sweet Sagewort	<i>Artemisia annua</i>		X	
Sweet vernal grass	<i>Anthoxanthum odoratum</i>		X	
Sweetflag	<i>Acorus calamus</i>			X
Sweetscented joe pye weed	<i>Eupatorium purpureum</i>		X	X
Switch grass	<i>Panicum virgatum</i>			X
Tag Alder	<i>Alnus serrulata</i>	X	X	X
Tall blazing star	<i>Liatris aspera</i>	X		X
Tall false indigo	<i>Amorpha fruticosa</i>		X	
Tall fescue	<i>Festuca arundinacea</i>		X	X
Tall larkspur	<i>Delphinium exaltatum</i>			X
Tall morning glory	<i>Ipomoea purpurea</i>			X
Tall rattlesnake root	<i>Prenanthes altissima</i>		X	
Tall thimbleweed	<i>Anemone virginiana</i>	X		X
Tall thoroughwort	<i>Eupatorium altissimum</i>			X
Tall tickseed	<i>Coreopsis tripteris</i>		X	
Taper leaf water hoarhound	<i>Lycopus rubellus</i>			X
Tapered rosette grass	<i>Dichanthelium acuminatum</i>	X	X	X
Tapertip rush	<i>Juncus acuminatus</i>	X	X	X
Tarheel sedge	<i>Carex austrocaroliniana</i>		X	X
Teal love grass	<i>Eragrostis hypnoides</i>			X
Ten-lobed false foxglove	<i>Agalinis obtusifolia</i>		X	X
Tennessee leafcup	<i>Polymnia laevigata</i>		X	
Terrestrial water sandwort	<i>Callitriche terrestris</i>			X
Thicket bean	<i>Phaseolus polystachyus</i>		X	
Thicket sedge	<i>Carex abscondita</i>		X	X
Thin fruit sedge	<i>Carex flaccosperma</i>	X	X	

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Thin paspalum	<i>Paspalum setaceum</i>	X	X	X
Thin spike threeawn grass	<i>Aristida longespica</i>			X
Thinleaf late purple aster	<i>Aster phlogifolius</i>		X	
Thinleaf sunflower	<i>Helianthus decapetalus</i>			X
Three parted beggar tickes	<i>Bidens tripartita</i>			X
Threeawn grass	<i>Aristida virgata</i>			X
Thymeleaf sandwort	<i>Arenaria serpyllifolia</i>	X		
Thymeleaf speedwell	<i>Veronica serpyllifolia</i>			X
Timothy grass	<i>Phleum pratense</i>			X
Tiny bluet	<i>Houstonia pusilla</i>			X
Tiny mousetail	<i>Myosurus minimus</i>		X	X
Toothed spurge	<i>Euphorbia dentata</i>	X	X	X
Toothed whitetop aster	<i>Sericocarpus asteroides</i>			X
Touch-me-not; jewelweed	<i>Impatiens capensis</i>			X
Trailing arbutus	<i>Epigaea repens</i>			X
Trailing fuzzy bean	<i>Strophostyles helvula</i>			X
Trailing lespedeza	<i>Lespedeza procumbens</i>	X		X
Tree of Heaven	<i>Ailanthus altissima</i>			X
Trifoliolate orange	<i>Ptelea trifoliata</i>	X		X
Trumpet creeper	<i>Campsis radicans</i>		X	X
Trumpet weed	<i>Eupatorium fistulosum</i>		X	
Tulip poplar	<i>Liriodendron tulipifera</i>		X	X
Twining snoutbean	<i>Rhynchosia tomentosa</i>		X	X
Twinleaf	<i>Jeffersonia diphylla</i>	X		X
Twisted sedge	<i>Carex torta</i>		X	X
Two flower dwarf dandelion	<i>Krigia biflora</i>	X	X	X
Two flower melic grass	<i>Melica mutica</i>			X
Two headed water sandwort	<i>Callitriche heterophylla</i>		X	X
Umbrella magnolia	<i>Magnolia tripetala</i>		X	X
Umbrella sedge	<i>Rhynchospora colorata</i>			X
Upland bent grass	<i>Agrostis perennans</i>		X	X
Upland boneset	<i>Eupatorium sessilifolium</i>		X	X
Upland white aster	<i>Aster ptarmicoides</i>		X	X
Variable leaf little brown jug	<i>Hexastylis heterophylla</i>			X
Variable panic grass	<i>Dichantherium commutatum</i>	X	X	X
Vase vine	<i>Clematis viorna</i>			X
Vasey's trillium	<i>Trillium vaseyi</i>	X		X
Veiny pea	<i>Lathyrus venosus</i>		X	
Veiny skullcap	<i>Scutellaria nervosa</i>			X
Velvet leaf tick trefoil	<i>Desmodium viridiflorum</i>		X	X
Velvet panicum	<i>Dichantherium scoparium</i>	X		X
Vente conmigo	<i>Croton glandulosus</i>			X
Venus' pride	<i>Houstonia purpurea var. calycosa</i>		X	X
Venus' pride	<i>Houstonia purpurea var. purpurea</i>	X	X	X
Violet wood sorrel	<i>Oxalis violacea</i>	X	X	X
Virginia bluebell	<i>Mertensia virginica</i>		X	
Virginia buttonweed	<i>Diodia virginiana</i>		X	X
Virginia creeper	<i>Parthenocissus quinquefolia</i>	X	X	X
Virginia ground cherry	<i>Physalis virginiana</i>	X		

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Virginia meadowsweet	<i>Spiraea virginiana</i>			X
Virginia pennywort	<i>Obolaria virginica</i>	X		X
Virginia pepperweed	<i>Lepidium virginicum</i>	X	X	X
Virginia plantain	<i>Plantago virginica</i>			X
Virginia snakeroot	<i>Aristolochia serpentaria</i>			X
Virginia spiderwort	<i>Tradescantia virginiana</i>		X	
Virginia strawberry	<i>Fragaria virginiana</i>	X	X	X
Virginia tephrosia, catgut	<i>Tephrosia virginiana</i>		X	X
Virginia water hoarhound	<i>Lycopus virginicus</i>	X	X	X
Virginia wild rye	<i>Elymus virginicus</i>		X	X
Virginia willow	<i>Itea virginica</i>	X	X	X
Virginia mountain mint	<i>Pycnanthemum virginianum</i>	X		X
Virginia pine	<i>Pinus virginiana</i>		X	X
Walking fern	<i>Asplenium rhizophyllum</i>	X	X	X
Wall-rue	<i>Asplenium ruta-muraria</i>			X
Water knotweed	<i>Polygonum amphibium</i>		X	
Water oak	<i>Quercus nigra</i>			X
Water speedwell	<i>Veronica anagallis-aquatica</i>			X
Watercress	<i>Rorippa nasturtium-aquaticum</i>	X		X
Waterthread pondweed	<i>Potamogeton diversifolius</i>	X		
Wavy hair grass	<i>Deschampsia flexuosa</i>		X	
Waxleaf aster	<i>Aster undulatus</i>		X	X
Waxy-leaf meadow-rue	<i>Thalictrum revolutum</i>		X	X
Weak rush	<i>Juncus debilis</i>		X	X
Weakstalk bulrush	<i>Schoenoplectus purshianus</i>			X
Weedy dwarf dandelion	<i>Krigia caespitosa</i>	X		
West Indian nightshade	<i>Solanum ptychanthum</i>			X
Western waterweed	<i>Elodea nuttallii</i>			X
Whip nut rush	<i>Scleria triglomerata</i>			X
White arrowleaf aster	<i>Aster urophyllus</i>			X
White ash	<i>Fraxinus americana</i>	X	X	X
White avens	<i>Geum canadense</i>			X
White bergamot	<i>Monarda clinopodia</i>			X
White blue-eyed grass	<i>Sisyrinchium albidum</i>	X		X
White clintonia	<i>Clintonia umbellulata</i>		X	
White clover	<i>Trifolium repens</i>			X
White crownbeard	<i>Verbesina virginica</i>		X	X
White edge sedge	<i>Carex debilis</i>		X	X
White flowered leafcup	<i>Polymnia canadensis</i>			X
White fringe tree	<i>Chionanthus virginicus</i>		X	X
White grass	<i>Leersia virginica</i>	X	X	X
White oak	<i>Quercus alba</i>	X	X	X
White panicle aster	<i>Aster lanceolatus</i>	X	X	
White pine	<i>Pinus strobus</i>	X	X	X
White poplar	<i>Populus alba</i>		X	X
White root rush	<i>Juncus brachycarpus</i>		X	X
White snakeroot	<i>Ageratina altissima</i>	X	X	X
White sweet clover	<i>Melilotus albus</i>	X		X
White thoroughwort	<i>Eupatorium album var. album</i>		X	X

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White tinged sedge	<i>Carex albicans</i> var. <i>albicans</i>			X
White vervain	<i>Verbena urticifolia</i>		X	X
White wood aster	<i>Aster divaricatus</i> var. <i>divaricatus</i>	X	X	X
Whitehair rosette grass	<i>Dichanthelium villosissimum</i>		X	X
Whitestar	<i>Ipomoea lacunosa</i>			X
White Turtle head	<i>Chelone glabra</i>		X	X
Whorled milkweed	<i>Asclepias verticillata</i>	X	X	X
Whorled milkwort	<i>Polygala verticillata</i> var. <i>ambigua</i>		X	X
Whorled milkwort	<i>Polygala verticillata</i> var. <i>verticillata</i>			X
Whorled mountain mint	<i>Pycnanthemum verticillatum</i> var. <i>pilosum</i>		X	
Whorled rosinweed	<i>Silphium trifoliatum</i> var. <i>trifoliatum</i>		X	X
Widowcross	<i>Sedum pulchellum</i>	X		
Widow's frill	<i>Silene stellata</i>		X	X
Wild basal	<i>Satureja vulgaris</i>		X	X
Wild bergamot	<i>Monarda fistulosa</i>		X	X
Wild black cherry	<i>Prunus serotina</i>	X		X
Wild blue phlox	<i>Phlox divaricata</i>	X	X	X
Wild comfrey	<i>Cynoglossum virginianum</i>			X
Wild garlic	<i>Allium vineale</i>		X	X
Wild ginger	<i>Asarum canadense</i>			X
Wild goose plum	<i>Prunus munsoniana</i>			X
Wild honeysuckle	<i>Lonicera dioica</i>	X		X
Wild hyacinth	<i>Camassia scilloides</i>			X
Wild hydrangea	<i>Hydrangea arborescens</i>	X	X	X
Wild quinine	<i>Parthenium integrifolium</i>		X	X
Wild sweet William	<i>Phlox maculata</i> ssp. <i>pyramidalis</i>		X	X
Wild yam	<i>Dioscorea villosa</i>	X	X	X
Willdenow's croton	<i>Croton willdenowii</i>		X	
Willdenow's sedge	<i>Carex willdenowii</i>			X
Willow oak	<i>Quercus phellos</i>		X	X
Willow-leaf aster	<i>Aster pratensis</i>			X
Wineberry	<i>Rubus phoenicolasius</i>		X	
Winged elm	<i>Ulmus alata</i>		X	X
Winged sumac	<i>Rhus copallinum</i>	X		X
Wingleaf primrose willow	<i>Ludwigia decurrens</i>	X		X
Wingstem	<i>Verbesina alternifolia</i>			X
Winter bent grass	<i>Agrostis hiemalis</i>	X	X	X
Wirey panic grass	<i>Panicum flexile</i>	X	X	X
Wirestem muhly	<i>Muhlenbergia frondosa</i>			X
Witch grass	<i>Panicum capillare</i>			X
Withe rod	<i>Viburnum cassinoides</i>		X	
Wood anemone	<i>Anemone quinquefolia</i>		X	X
Woodland blue grass	<i>Poa sylvestris</i>			X
Woodland lettuce	<i>Lactuca floridana</i>	X	X	X
Woodland muhly	<i>Muhlenbergia sylvatica</i>		X	X
Woodland stonecrop	<i>Sedum ternatum</i>	X	X	X
Woodland sunflower	<i>Helianthus divaricatus</i>			X
Wool grass	<i>Scirpus cyperinus</i>			X

Common Name	Scientific Name	Loudon	Rhea	Roane
Woolly blueberry	<i>Vaccinium hirsutum</i>		X	
Wreath goldenrod	<i>Solidago caesia</i>		X	X
Wrinkle leaf goldenrod	<i>Solidago rugosa ssp. aspera</i>		X	
Yarrow	<i>Achillea millefolium</i>			X
Yellow birch	<i>Betula alleghaniensis</i>		X	
Yellow bristle grass	<i>Setaria glauca</i>	X		X
Yellow buckeye	<i>Aesculus flava</i>	X	X	X
Yellow chestnut oak	<i>Quercus muhlenbergii</i>			X
Yellow crownbeard	<i>Verbesina occidentalis</i>			X
Yellow fairy bells	<i>Disporum lanuginosum</i>		X	X
Yellow flat sedge	<i>Cyperus flavescens</i>	X	X	X
Yellow fruit sedge	<i>Carex annectens</i>		X	X
Yellow giant hyssop	<i>Agastache nepetoides</i>			X
Yellow jasmine	<i>Gelsemium sempervirens</i>		X	
Yellow meadow parsnip	<i>Thaspium trifoliatum var. flavum</i>		X	X
Yellow passion flower	<i>Passiflora lutea</i>		X	X
Yellow screwstem	<i>Bartonia virginica</i>		X	
Yellow sweet clover	<i>Melilotus officinalis</i>			X
Yellow trillium	<i>Trillium luteum</i>	X	X	X
Yellowdicks	<i>Helenium amarum</i>	X		X
Yellow-fruit horse gentian	<i>Triosteum angustifolium</i>			X
Yellowroot	<i>Xanthorrhiza simplicissima</i>		X	X
Yellowseed false pimpernel	<i>Lindernia dubia</i>		X	X
Zigzag bladderwort	<i>Utricularia subulata</i>		X	
Zigzag goldenrod	<i>Solidago flexicaulis</i>		X	X
Zigzag spiderwort	<i>Tradescantia subaspera</i>		X	

*Species listed as endangered, threatened, or in need of management federally, by the state of Tennessee, or recommended by the Tennessee Wildlife Resources Agency.

Table D-3. Tennessee 2004 Proposed Final 303(d) Listing for Water Bodies in the Local Watts Bar Reservoir Watershed

County	Hydrologic Unit	Impaired Segment	Water Body	Miles/ Acres Impaired	Cause	Source
Rhea, Roane, Meigs	TN06010201-270 TN06010201-240 TN06010201-200 TN06010201-230 TN06010201-190 TN06010201-160	TN06010201 001-1000	Watts Bar Reservoir	34,075 acres	PCBs	Contaminated Sediments
Loudon	TN06010201-140	TN06010201 001-2000	Upper Watts Bar Reservoir from Sweetwater Creek to Fort Loudoun Dam	1,790 acres	Low DO, PCBs	Upstream Impoundment Contaminated Sediments
Loudon	TN06010201-140	TN06010201 065-1000	Steekee Creek	11.0 miles	Physical Substrate Habitat Alterations Loss of biological integrity due to siltation Escherichia coli	Pasture Grazing
Loudon/ Monroe	TN06010201-150	TN06010201 015-0100	Bacon Creek	10.2 miles	Escherichia coli	Pasture Grazing Feeding Operations (NPS)
Loudon/ Monroe	TN06010201-150	TN06010201 015-1000	Sweetwater Creek	29.3 miles	Nitrates Loss of biological integrity due to siltation Escherichia coli	Municipal Point Source Discharge, Channelization Land Development Animal Feeding Operations (NPS)
Loudon/ Roane	TN06010201-160	TN06010201 087-1000	Hines Creek	20.3 miles	Escherichia coli	Pasture Grazing
Loudon	TN06010201-160	TN06010201 1149-1000	Polecat Creek	13.1 miles	Escherichia coli	Pasture Grazing
Loudon/ Monroe	TN06010201-170	TN06010201 013-100	Mud Creek	7.2 miles	Escherichia coli	Pasture Grazing
Loudon/ Monroe	TN06010201-170	TN06010201 013-200	Greasy Branch	7.3 miles	Escherichia coli	Pasture Grazing

County	Hydrologic Unit	Impaired Segment	Water Body	Miles/ Acres Impaired	Cause	Source
Loudon/ Monroe	TN06010201-170	TN06010201 013-1000	Pond Creek	13.57 miles	Nitrates Physical Substrate Habitat Alteration Escherichia coli	Pasture Grazing Livestock in Stream Animal Feeding Operations (NPS)
Loudon/ Monroe	TN06010201-170	TN06010201 013-2000	Pond Creek	4.18 miles	Nitrates Escherichia coli	Pasture Grazing Livestock in Stream
Roane	TN06010201-180	TN06010201 011-1000	Paint Rock Creek	12.2 miles	Escherichia coli	Pasture Grazing
Roane	TN06010201-200	TN06010201 0620-1000	Cardiff Creek	3.8 miles	Chrome Hexavalent pH	CERCLA site
Roane	TN06010201-200	TN06010201 1621-1000	Caney Creek	13.2 miles	Physical Substrate Habitat Alteration Loss of biological integrity due to siltation Escherichia coli	Pasture Grazing Collection System Failure
Roane	TN06010201-230	TN06010201 040-0600	Black Creek (Whites Creek)	16.7 miles	Polycyclic Aromatic Hydrocarbons (PAHs) Organic Enrichment Physical Substrate Habitat Alterations Escherichia coli	Municipal Point Source Discharges Collection System Failures Resource Conservation and Recovery Act Hazardous Waste Channelization
Roane	TN06010207-040	TN06010207 001-0100	Watts Bar Reservoir- Clinch River Arm	2,336 acres	PCBs Chlordane Mercury	Industrial Point Source Contaminated Sediments
Anderson	TN06010207-040	TN06010207 247-1000	Whiteoak Creek	5.3	Cesium Strontium Biological integrity loss due to undetermined cause	CERCLA Site

County	Hydrologic Unit	Impaired Segment	Water Body	Miles/ Acres Impaired	Cause	Source
Roane	TN06010207-060	TN06010207 026-1000	East Fork Poplar Creek	9.7 miles	PCBs Mercury Escherichia coli Loss of biological integrity due to siltation Nitrates Phosphates	Industrial Point Source Municipal Point Source Contaminated Sediments Collection System Failure High-Density Municipal Area
Roane	TN06010207-060	TN06010207 026-0600	Bear Creek	10.87 miles	Nitrates Escherichia coli	CERCLA Site Undetermined Source
Anderson	TN06010207-060	TN06010207 026-2000	East Fork Poplar Creek	11.3 miles	PCBs Mercury Escherichia coli Loss of biological integrity due to siltation Nitrates Phosphates	Industrial Point Source Contaminated Sediments High-Density Municipal Area
Roane	TN06010207	TN06010207 247-0100	Melton Branch	2.0	Strontium	CERCLA Site
Roane	TN06010207	TN06010207 028-1000	Caney Creek	7.4 miles	Loss of biological integrity due to siltation Habitat loss due to alteration of streamside or littoral vegetative cover	Pasture Grazing
Cumberland	TN06010208-010	TN06010208 013-0400	Drowning Creek	13.1 miles	Loss of biological integrity due to siltation Physical Substrate Habitat Alterations	Animal Feeding Operations (NPS)
Cumberland	TN06010208-010	TN06010208 013-1000	Obed River		This 12.4 mile section of the Obed River has been identified as "threatened" by the division due to a document decline in diversity at biological stations	

County	Hydrologic Unit	Impaired Segment	Water Body	Miles/ Acres Impaired	Cause	Source
Cumberland	TN06010208-020	TN06010208 013-2000	Obed River	3.2 miles	Flow Alterations Habitat loss due to stream flow alterations	Discharges from MS4 area Upstream Impoundment
Cumberland	TN06010208-030	TN06010208 015-0510	Long Branch	2.2 miles	Loss of biological integrity due to siltation	Abandoned Mine Lands
Cumberland	TN06010208-040	TN06010208 015-0800	Byrd Creek	38.6 miles	Impairment undetermined	Undetermined Source
Cumberland	TN06010208-040	TN06010208 015-0810	One Mile Creek	8.5 miles	Loss of biological integrity due to siltation	Land Development
Morgan	TN06010208-070	TN06010208 008-2000	Clear Creek	1.41 miles	Oil	Petroleum Activities
Roane/ Morgan	TN06010208-110	TN06010208 001-1000	Watts Bar Reservoir- Emory River Arm	1,258.7 acres	PCBs Chlordane	Industrial Point Source Contaminated Sediments
Morgan	TN06010208-120	TN06010208 004-0200	Flat Fork	3.7 miles	Nitrates Physical Substrate Habitat Alterations Loss of biological integrity due to siltation	Pasture Grazing Channelization
Morgan	TN06010208-120	TN06010208 004-1000	Crooked Fork	6.9 miles	Nitrates	Municipal Point Source Discharge Pasture Grazing
Morgan	TN06010208-120	TN06010208 004-2000	Crooked Fork	16.7 miles	Nitrates Physical Substrate Habitat Alterations Loss of biological integrity due to siltation	Permitted Small Flows Abandoned Mining Channelization
Morgan	TN06010208-130	TN06010208 020-0100	Smith Branch	5.4	pH	Abandoned Mines
Morgan	TN06010208-130	TN06010208 020-0400	Golliher Creek	5.6	Manganese Iron pH	Abandoned Mines
Morgan	TN06010208-130	TN06010208 020-0500	Fagon Mill Creek	2.6	Manganese pH	Abandoned Mines
Morgan	TN06010208-130	TN06010208 020-0600	Laurel Creek	2.7	pH	Abandoned Mines

County	Hydrologic Unit	Impaired Segment	Water Body	Miles/ Acres Impaired	Cause	Source
Morgan	TN06010208-130	TN06010208 020-2000	Crab Orchard Creek	2.3	pH	Abandoned Mines
Morgan	TN06010208-130	TN06010208 020-3000	Crab Orchard Creek	7.9	Manganese pH	Abandoned Mines

Table D-4. Tennessee River - Watts Bar Reservoir Flood Profiles

River Mile	100-Year Flood	Flood Risk Profile*	Landmark
529.90	746.5	747.0	Watts Bar Dam
530.00	746.5	747.0	
531.00	746.5	747.0	
532.00	746.5	747.0	
532.03	746.5	747.0	
532.33	746.5	747.0	Piney River
533.00	746.5	747.0	
534.00	746.5	747.0	
534.16	746.5	747.0	
535.00	746.5	747.0	
536.00	746.5	747.0	
536.29	746.5	747.0	
537.00	746.5	747.0	
538.00	746.5	747.0	
538.07	746.5	747.0	Wann Branch
538.42	746.5	747.0	
539.00	746.5	747.0	
540.00	746.5	747.0	
540.55	746.5	747.0	
541.00	746.5	747.0	
542.00	746.5	747.0	
542.68	746.5	747.0	
543.00	746.5	747.0	
544.00	746.5	747.1	
544.71	746.5	747.1	Whites Creek
544.81	746.5	747.1	
545.00	746.5	747.1	
546.00	746.5	747.2	
546.94	746.5	747.2	
547.00	746.5	747.2	
547.51	746.5	747.2	Cane Creek
548.00	746.5	747.2	
548.28	746.5	747.2	Gordon Branch
549.00	746.5	747.2	
549.07	746.5	747.2	
550.00	746.5	747.2	
551.00	746.5	747.2	
551.20	746.5	747.2	
552.00	746.5	747.3	
552.85	746.5	747.3	King Creek
553.00	746.5	747.3	
553.32	746.5	747.3	
554.00	746.5	747.3	
555.00	746.5	747.4	
555.45	746.5	747.4	

River Mile	100-Year Flood	Flood Risk Profile*	Landmark
556.00	746.5	747.4	
556.58	746.5	747.4	Bolden Branch
557.00	746.5	747.5	
557.58	746.5	747.5	
558.00	746.5	747.5	
559.00	746.5	747.6	
559.71	746.5	747.6	
560.00	746.5	747.6	
561.00	746.6	747.7	
561.84	746.6	747.8	
562.00	746.6	747.8	
562.30	746.6	747.8	Caney Creek
563.00	746.7	747.8	
563.97	746.7	747.9	
564.00	746.7	747.9	
565.00	746.8	748.0	
565.97	746.9	748.1	
566.00	746.9	748.1	
567.00	747.0	748.3	
567.76	747.1	748.4	Clinch River
568.00	747.1	748.5	
568.20	747.2	748.5	Tennessee Highway 58
568.23	747.2	748.5	
569.00	747.3	748.9	
570.00	747.5	749.3	Riley Creek
570.36	747.5	749.5	
571.00	747.6	749.5	
571.50	747.6	749.6	Smith Creek
572.00	747.6	749.7	
572.49	747.6	749.8	
573.00	747.7	749.9	
574.00	747.8	750.1	
574.62	747.9	750.2	
575.00	747.9	750.3	Paint Rock Creek
575.20	747.9	750.4	
576.00	748.1	750.7	
576.72	748.2	750.9	
577.00	748.2	751.0	
578.00	748.4	751.5	
578.87	748.6	751.9	Polecat Creek
578.88	748.6	751.9	
579.00	748.7	751.9	
579.77	748.9	752.5	Pond Creek
580.00	749.0	752.7	
581.00	749.4	753.4	
581.01	749.4	753.4	
582.00	749.6	753.8	

River Mile	100-Year Flood	Flood Risk Profile*	Landmark
583.00	749.8	754.3	
583.13	749.9	754.3	Hines Creek
583.14	749.9	754.3	
584.00	750.1	754.7	
584.90	750.2	755.0	Interstate 75
585.00	750.3	755.1	
585.27	750.3	755.2	
585.48	750.5	755.4	Sweetwater Creek
586.00	750.7	755.8	
587.00	751.2	756.7	
587.39	751.4	757.1	
588.00	751.7	757.5	
589.00	752.1	758.1	
589.52	752.3	758.5	
590.00	752.4	758.7	
591.00	752.8	759.3	
591.32	752.9	759.5	Southern Railway
591.56	753.0	759.6	
591.58	753.0	759.6	U.S. Highway 11
591.73	753.1	759.8	Steekee Creek
592.00	753.3	760.0	
592.58	753.6	760.4	Clear Branch
593.00	753.8	760.7	
593.78	754.3	761.3	
594.00	754.4	761.5	
595.00	754.9	762.1	
595.91	755.4	762.7	
596.00	755.4	762.8	
597.00	756.2	763.8	
598.00	756.9	764.8	
598.04	756.9	764.9	
599.00	757.7	766.0	
600.00	758.6	767.1	
600.17	758.7	767.3	
601.00	759.2	768.1	
601.13	759.3	768.2	Little Tennessee River
601.20	759.4	768.3	Town Creek
602.00	759.9	769.0	Muddy Creek
602.30	760.0	769.3	Fort Loudoun Dam

*The Flood Risk Profile is equal to the 500-year flood from Mile 543.0 upstream to Fort Loudoun Dam.

Table D-5. Clinch River - Watts Bar Reservoir Flood Profiles

River Mile	100-Year Flood	Flood Risk Profile*	Landmarks
0.00	747.1	748.4	
1.00	747.1	748.4	
2.00	747.1	748.4	
2.25	747.1	748.4	US Highway 70
2.40	747.1	748.4	Interstate Highway 40
3.00	747.1	748.4	
3.03	747.1	748.4	
3.24	747.1	748.6	
4.00	747.5	749.2	
4.20	747.6	749.4	
4.36	747.6	749.4	Emory River
5.00	747.6	749.5	
6.00	747.7	749.6	
6.30	747.7	749.6	
7.00	747.8	749.8	
8.00	747.9	750.0	
8.40	748.0	750.1	
9.00	748.2	750.3	
9.45	748.3	750.5	
10.00	748.5	750.8	
10.50	748.7	751.1	
11.00	748.8	751.2	
11.55	748.8	751.4	
12.00	748.9	751.4	Poplar Creek
12.60	749.0	751.5	
13.00	749.1	751.7	
13.65	749.3	752.1	
14.00	749.5	752.4	
14.04	749.6	752.4	State Route 58
14.59	749.9	752.9	Grassy Creek
14.70	750.0	753.0	
15.00	750.1	753.2	
15.75	750.4	753.6	
16.00	750.5	753.7	
16.80	751.0	754.2	
16.98	751.2	754.4	Caney Creek
17.00	751.2	754.5	
17.85	752.0	755.5	
18.00	752.1	755.6	
18.90	752.8	756.5	
19.00	752.9	756.6	
19.27	753.0	756.7	Papaw Creek
19.95	753.3	757.1	
20.00	753.3	757.1	
20.83	753.9	757.8	Whiteoak Creek

River Mile	100-Year Flood	Flood Risk Profile*	Landmarks
21.00	754.0	757.9	
21.70	754.3	758.3	State Route 95
22.00	754.5	758.5	
22.05	754.5	758.5	
23.00	755.2	759.1	
23.10	755.3	759.2	Melton Hill Dam
*The Flood Risk Profile is equal to the 500-year flood.			

Table D-6. Recreation Inventory Database for Watts Bar Reservoir

Area Name	Operating Sector	Operator	Parcel Number	River Mile	County	Acres	Facilities Present
Ladd Landing Park	Public	City of Kingston	121	C 0.5 L	Roane	2	Picnic tables, Paved trails, Launching ramp
Arrowhead Resort	Private	Commercial	241	T 545.0 R	Rhea	60	Fish berm, Swimming beach, Playground, Play courts, Launching ramp, Camping, Boat slips, Fishing licenses sold, Restaurant, Rooms, Cabins
Bayside Marina	Private	Commercial	41/42	T 548.0 L	Roane	10	Swimming beach, Launching ramp, Camping, Boat slips, Fishing licenses sold, Restaurant
Belcove	Public	TWRA	12-43	T 569.4 R	Roane	2.7	Launching ramp
Hog Pen	Public	TWRA	12-6	T 540.5 L	Meigs	4	Launching ramp
Blue Springs	Public	TWRA	12-20	T 547.5 L	Roane	4.8	Launching ramp
Blue Springs Boat Dock	Private	Commercial	37	T 547.2 L	Roane	3	Picnic tables, Fish Berm, Swimming beach, Launching ramp, Camping, Boat slips, Fishing licenses sold, Restaurant
Brigadoon Resort	Private	Commercial	230	T 545.0 R	Roane	22	Picnic tables, Fish berm, Swimming beach, Playground, Play courts, Launching ramp, Camping, Boat slips, Restaurant, Cabins
Brown's Chapel	Public	TWRA	12-36	T 561.1 R	Roane	2.6	Launching ramp
Buck Toms Scout Camp	Quasi-public	Boy Scouts of America	221a	T 551.0 R	Roane	564	
Campground on the Lakeshore	Private	Commercial	27	T 541.0 L	Meigs	5	Fish berm, Swimming beach, Playground, Play courts, Launching ramp, Camping, Boat slips
Caney Creek Campground	Public	Roane County	201	T 562.3 R	Roane	30	Picnic tables, Pavilion, Unpaved trails, Camping
Caney Creek Marina	Private	Commercial	201	T 562.3 R	Roane	1	Launching ramp, Boat slips, Restaurant
Cedine Bible Camp	Quasi-public	Church Camp	Non-TVA Property	T 544.3 R	Rhea	25	
Cherokee Point Campground	Private	Commercial	13	T 538.5 L	Meigs	36	Paved trails, Launching ramp, Camping, Cabins
Eden Resort Marina	Private	Commercial	250	T 542.3 R	Rhea	6	Picnic tables, Swimming beach, Play courts, Launching ramp, Camping, Boat slips, Cabins

Appendix D – Supporting Data and Information

Area Name	Operating Sector	Operator	Parcel Number	River Mile	County	Acres	Facilities Present
Euchee Marina and Campground	Private	Commercial	18/20	T 539.9 L	Meigs	20	Picnic tables, Swimming beach, Playground, Play courts, Launching ramps (2), Camping, Boat slips, Fishing licenses sold, Restaurant, Rooms, Cabins
Winton Chapel	Public	TWRA	12-29	T 551.3 R	Roane	3.8	Launching ramp
Fooshee Pass	Private	Commercial	10	T 538.0 L	Meigs	56	Picnic tables, Pavilion, Playground, Launching ramp, Camping
Fred's Bait and Tackle	Private	Commercial	Non-TVA Land	T 601.4 R	Loudon	<1	
Harbor Point Marina	Private	Commercial	222	T 551.8 R	Roane	10	Picnic tables, Launching ramp, Boat slips
Harriman City Ramp	Public	City of Harriman	175	E 10.5 R	Roane	3.7	Launching ramp
Harriman Riverfront Park	Public	City of Harriman	Non-TVA Property	E 12.5 R	Roane	10.4	Picnic Tables, Pavilions (2), Unpaved trails, Playground
Hogback	Public	TWRA	12-24	T 546.0 R	Roane	1.2	Launching ramp
Hornsby Hollow	Private	Commercial	22	T 540.0 L	Meigs	58	Pavilion, Fish Berm, Swimming beach, Playground, Play courts, Launching ramps, Camping, Boat slips
John Knox Presbytery Camp	Quasi-public	Church Camp	45	T 550.0 L	Roane	120	
Paint Rock at Johnson Valley	Public	TWRA	12-62	T 572.5 R	Roane	1.6	Launching ramp
Kingston	Public	TWRA	12-44	C 2.4 L	Roane	0.2	Launching ramps (2)
Kingston City Park	Public	City of Kingston	121	C 1.0 L	Roane	11	Picnic tables, Pavilions (2), Paved trails, Fish berm, Playground, Play courts, Launching ramps (3)
Kingston Fossil Plant Ramp	Public	TVA	190	C 2.7 R	Roane	1	Launching ramp
KOA	Public	TWRA	12-38	T 562.5 L	Roane	2.1	Launching ramp
Ladd Park	Public	City of Kingston	125	C 4.5 L	Roane	3	Picnic tables, Pavilions, Launching ramp
Wide Spot	Public	TWRA	12-4	T 539.0 L	Meigs	6.1	Launching ramp
Laurel Bluff	Public	TWRA	12-59	T 572.5 L	Roane	0.9	Launching ramp
Little Emory	Public	TWRA	12-48	E 0.5 R	Roane	6.1	Launching ramp
Long Island Marina	Private	Commercial	114	T 571.7	Roane	17	Picnic tables, Launching ramp, Boat slips
Meigs County Park	Public	Meigs County	5	T 531.0	Meigs	240	Pavilions (3), Play courts
Mourneys Cove	Public	TWRA	12-41	T 569.7 L	Roane	1.1	Launching ramp
New Hope	Public	TWRA	219	T 553.8 R	Roane	2.7	Launching ramp
Oak Ridge	Public	TWRA	Non-TVA Land	C 14.3 L	Roane	44.6	Launching ramp

Watts Bar Reservoir Land Management Plan

Area Name	Operating Sector	Operator	Parcel Number	River Mile	County	Acres	Facilities Present
Piney Point Resort	Private	Commercial	264	T 532.5 R	Rhea	5	Swimming pool, Launching ramp, Boat slips, Fishing licenses sold, Restaurant, Cabins
Pond Creek	Public	TWRA	12-68	T 579.6 L	Loudon	4.8	Launching ramp
Rector Branch	Public	TWRA	12-17	T 545.0 R	Rhea	0.8	Launching ramp
Red Cloud Campground	Private	Commercial	Non-TVA Property	T 542.0 R	Rhea	10	Launching ramp, Camping, Boat slips
Rhea Harbor	Private	Commercial	275	T 532.5 R	Rhea	4	Picnic tables, Fish berm, Swimming beach, Playground, Play courts, Launching ramp, Boat slips, Fishing licenses sold, Cabins
Rhea Springs	Public	TWRA	12-8	T 532.2 R	Rhea	1	Launching ramp
Riley Creek Recreation Area	Private	Commercial	74	T 570.0	Roane	79	Picnic tables, Swimming beach, Launching ramp, Camping
Riverside Park	Public	City of Loudon	99	T 591.7 L	Loudon	3.5	Picnic tables, Pavilion, Paved trails, Fish berm, Playground, Play courts, Launching ramp
Roane County Park	Public	Roane County	201	T 562.3 R	Roane	183	Picnic tables, Pavilions (5), Unpaved trails, Paved trails, Fish berm, Swimming beach, Playground, Launching ramp
Rockwood Community Park	Public	City of Rockwood	219	T 553.0 R	Roane	89	Picnic tables, Fish berm, Launching ramp
Rockwood First Baptist Church Camp	Quasi-public	Church Camp	Non-TVA Property	T 545.0 R	Roane	10	
Roddy	Public	TWRA	12-26	T 544.7 R	Rhea	1.5	Launching ramp
Sam's Dock	Private	Commercial	14	T 538.2 L	Meigs	6	Picnic tables, Pavilions, Fish berm, Swimming beach, Launching ramp, Camping, Boat slips, Restaurant, Cabins
Shady Grove	Public	TWRA	12-32	T 557.1 L	Roane	3.2	Launching ramp
Shelton's Campground	Private	Commercial	Non-TVA Property	T 545.0 R	Roane	10	Launching ramp, Camping
Soaring Eagle	Private	Commercial	136	C 17.0 L	Roane	48	Picnic tables, Pavilion, Fish berm, Swimming pool, Play courts, Launching ramp, Camping
Southwest Point	Public	City of Kingston	121	C 0.0 L	Roane	42	Picnic tables, Pavilion, Paved trails, Fish berm, Play courts, Visitor center, Overlook, Museum
Southwest Point Golf Course	Private	Commercial	68	T 567.0 L	Roane	0	Golf

Appendix D – Supporting Data and Information

Area Name	Operating Sector	Operator	Parcel Number	River Mile	County	Acres	Facilities Present
Spring City Boat Dock	Public	Spring City	277	T 532.5 R	Rhea	32	Fish berm, Launching ramp, Camping, Boat slips, Restaurant, Cabins
Sugar Tree	Public	TWRA	12-53	E 0.8 L	Roane	3.7	Launching ramp
Terrace View Resort	Private	Commercial	245	T 545.0 R	Rhea	8.7	Swimming pool, Launching ramp, Boat slips, Fishing licenses sold, Restaurant, Rooms, Cabins
The Landing	Private	Commercial	29	T 541.5 L	Meigs	2	Fish berm, Launching ramp, Boat slips, Restaurant
Veteran's Park	Public	Spring City, Tennessee	270	T 532.5 R	Rhea	22	Picnic tables, Pavilions (2), Paved trails, Playground, Play courts, Launching ramp
Watts Bar Dam Reservation-- Headwater	Public	TVA	4	T 530.0	Rhea/Meigs	160.8	Picnic tables, Pavilions, Paved trails, Swimming beach, Playground, Play courts, Launching ramp
Watts Bar Lake Campground and Marina	Private	Commercial	Non-TVA Property	T 562.5 L	Roane	10	Fish berm, Swimming pool, Playground, Camping, Cabins
Watts Bar Marina and Resort	Private	Private Commercial	300	T 530.0 R	Rhea	185	Unpaved trails, Swimming pool, Play courts, Launching ramp, Boat slips, Fishing licenses sold, Restaurant, Cabins
Whites Creek SWA	Public	TVA	238	T 545.2 R	Rhea	171	Unpaved trails

C = Clinch River Mile
 E = Emory River Mile
 L = Left Bank
 R = Right Bank
 T = Tennessee River Mile

Cultural Resources Coordination Comments

September 21, 2004

Mr. Russell Townsend
Tribal Historic Preservation Officer
Eastern Band of the Cherokee Indians
Post Office Box 455
810 Acquoni Road
Cherokee, North Carolina 28719

Dear Mr. Townsend:

**WATTS BAR RESERVOIR, LANDS PLANNING ENVIRONMENTAL ASSESSMENT,
MULTIPLE COUNTIES**

The Tennessee Valley Authority (TVA) is developing a Land Management Plan (LMP) for TVA lands on Watts Bar Reservoir. Watts Bar Reservoir is located between Watts Bar Dam and Fort Loudoun Dam and flows from northeast to southwest through four counties in east Tennessee; Roane, Loudon, Rhea, and Meigs. This LMP is similar to recent ones on Gunterville, and Norris Reservoirs. TVA prepares LMPs with the participation of public agencies and officials, private organizations and individuals to provide a clear statement of how TVA will manage public land. Identifying land for specific uses minimizes conflicting land uses and makes it easier to handle requests for use of public land. For the action proposed in the draft Environmental Impact Statement (EIS), which is currently being prepared, TVA Cultural Resources staff have identified the area of potential effects (APE) regarding cultural resources pursuant to 36 CFR Part 800.16(d) as the approximately 14,000 acres of TVA fee-owned land being planned or previously committed to specific land uses. Enclosed are a general description of the project and map of Watts Bar Reservoir. Specific maps of the draft LMP can be accessed on its website- www.tva.com/environment/reports/wattsbar/index.htm. However, if you require hard copies for your initial review, our office will be glad to furnish a set.

TVA Cultural Resources is conducting this consultation as prescribed pursuant to 36 C.F.R. Part 800.3(f)(2) of the Advisory Council's regulations. Please review your records and documentation within the project area regarding historic properties or areas that you have attached religious, cultural or traditional significance. Should such sites or areas of interest be present, TVA Cultural Resources is inviting your office to be a consulting party to the project. Please respond within thirty (30) calendar days after receipt of this letter. Because of the location involved with this project, TVA is inviting the following groups to be consulting parties to the proposed project:

- Cherokee Nation
- United Keetoowah Band
- Muscogee (Creek) Nation of Oklahoma
- Thlopthlocco Tribal Town
- Alabama-Coushatta Tribe
- Alabama-Quassarte Tribal Town
- Kialegee Tribal Town
- Absentee Shawnee
- Shawnee Nation
- Eastern Shawnee Tribe
- Chickasaw Nation

If you have any questions or need additional information, please contact Eric Howard at (865) 632-1403 or fax at (865) 632-1795.

Sincerely,

J. Bennett Graham, Manager
Cultural Resources

Enclosures

cc: Ms. Jennifer Barnett
Tennessee Division of Archaeology
5103 Edmondson Pike
Nashville, TN 37211

September 21, 2004

Ms. Jennifer Barnett
Tennessee Division of Archaeology
5103 Edmondson Pike
Nashville, TN 37211

Dear Ms. Barnett:

**WATTS BAR RESERVOIR, LANDS PLANNING ENVIRONMENTAL ASSESSMENT,
MULTIPLE COUNTIES**

The Tennessee Valley Authority (TVA) is developing a Land Management Plan (LMP) for TVA lands on Watts Bar Reservoir. Watts Bar Reservoir is located between Watts Bar Dam and Fort Loudoun Dam and flows from northeast to southwest through four counties in east Tennessee; Roane, Loudon, Rhea, and Meigs. This LMP is similar to recent ones on Gunterville, and Norris Reservoirs. TVA prepares LMPs with the participation of public agencies and officials, private organizations and individuals to provide a clear statement of how TVA will manage public land. Identifying land for specific uses minimizes conflicting land uses and makes it easier to handle requests for use of public land. For the action proposed in the draft Environmental Impact Statement (EIS), which is currently being prepared, TVA Cultural Resources staff have identified the area of potential effects (APE) regarding cultural resources pursuant to 36 CFR Part 800.16(d) as the approximately 14,000 acres of TVA fee-owned land being planned or previously committed to specific land uses. Enclosed are a general description of the project and map of Watts Bar Reservoir. Specific maps of the draft LMP can be accessed on its website- www.tva.com/environment/reports/wattsbar/index.htm. Hard copies of these maps will be available in the draft EIS. However, if you require copies for your initial review, our office will be glad to furnish a set.

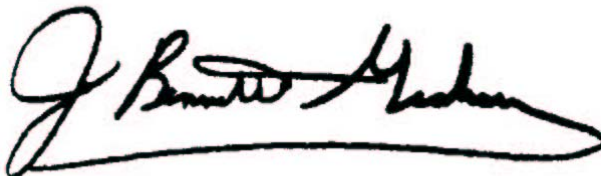
Pursuant to 36 CFR Part 800.4(b)(2) of the Advisory Council's regulations, TVA Cultural Resources is initiating consultation with your office and requests your office's comments regarding the potential effects on properties listed or eligible for listing on the National Register of Historic Places within the APE in Tennessee.

Pursuant to 36 CFR Part 800.3(f)(2) of the Advisory Council's regulations, TVA Cultural Resources is also inviting Indian tribes that might attach religious or cultural significance to historical properties in the area of potential effects to be consulting parties to this project. Because of the location involved with this project, TVA is inviting the following groups to be consulting parties to the proposed project:

- Cherokee Nation
- Eastern Band of Cherokee Indians
- United Keetoowah Band
- Muscogee (Creek) Nation of Oklahoma
- Thlopthlocco Tribal Town
- Alabama-Coushatta Tribe
- Alabama-Quassarte Tribal Town
- Kialegee Tribal Town
- Absentee Shawnee
- Shawnee Nation
- Eastern Shawnee Tribe
- Chickasaw Nation

If you have any questions or need additional information, please contact Eric Howard at (865) 632-1403 or fax at (865) 632-1795.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Bennett Graham". The signature is fluid and cursive, with a long horizontal flourish at the bottom.

J. Bennett Graham, Manager
Cultural Resources

Enclosures

cc: Dr. Joe Garrison
Deputy State Historic Preservation Officer
Tennessee Historical Commission
2941 Lebanon Road
Nashville, TN 37243-0442



Creek Nation of Oklahoma
Cultural and Historic Preservation

October 21, 2004

J. Bennet Graham
Tennessee Valley Authority
PO Box 1589
Norris, TN 37828-1589

RE:Land Management Plan (Multiple Counties) Watts Bar Reservoir, TN

Dear Mr. Graham,

Sorry for the delay in responding to your request and We thank you for inquiring with the Muscogee (Creek) Nation of Oklahoma. Looking at the site and in checking with our resources we do not foresee any impact by this project.

However, We expect to be notified in case of inadvertent discoveries which are pertinent to the Muscogee (Creek) Nation of Oklahoma as required by the Cultural and Historic Preservation Laws which are applicable. Also, please forward any reports/findings that are produced from the site.

Sincerely,

Tim Thompson
Cultural Research Specialist
(918) 732-7732 x7732



RECEIVED
Environmental Policy and

MAR 15 2004

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

Doc Type: EIS-Admi
Index Field: Public Comment
Project Name: Watts Bar
Project No: 2004-1

March 8, 2004

Mr. Jon Loney
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, Tennessee 37902-1499

RE: TVA, WATTS BAR RESERVOIR INTEGRATED LAND PLAN,
UNINCORPORATED, MULTI COUNTY,

Dear Mr. Loney:

At your request, our office has reviewed the above-referenced Notice of Intent to Prepare and Environmental Impact Statement in accordance with regulations codified at 36 CFR 800 (Federal Register, December 12, 2000, 77698-77739). Upon draft of the Environmental Impact Statement, please submit the document to this office for our review and comment.

Upon receipt of the draft document, we will continue our review of this undertaking as expeditiously as possible. Until such time as this office has rendered a final comment on this project, your Section 106 obligation under federal law has not been met. Please inform this office if this project is not funded or is canceled by the federal agency. Questions and comments may be directed to Jennifer Barnett (615) 741-1588, ext. 17.

Your cooperation is appreciated.

Sincerely,

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

HLH/jmb



Preserving America's Heritage

October 11, 2005

Mr. J. Bennett Graham
Senior Archaeologist
Tennessee Valley Authority
400 West Summit Hill Drive
Knoxville, TN 37902-1401

REF: Programmatic Agreement for proposed land plans in Tennessee

Dear Mr. *Bennett* Graham:

Enclosed is the executed Programmatic Agreement for the referenced program. By carrying out the terms of the Agreement, the Tennessee Valley Authority will have fulfilled its responsibilities under Section 106 of the National Historic Preservation Act and the Council's regulations.

We appreciate your cooperation in reaching this Agreement. If you have any questions, please call Dr. Tom McCulloch at 202-606-8554.

Sincerely,

Don L. Klima
Director
Office of Federal Agency Programs

Enclosure

ADVISORY COUNCIL ON HISTORIC PRESERVATION

1100 Pennsylvania Avenue NW, Suite 809 • Washington, DC 20004
Phone: 202-606-8503 • Fax: 202-606-8647 • achp@achp.gov • www.achp.gov

PROGRAMMATIC AGREEMENT
AMONG
THE TENNESSEE VALLEY AUTHORITY,
THE ADVISORY COUNCIL ON HISTORIC PRESERVATION,
AND THE TENNESSEE STATE HISTORIC PRESERVATION OFFICER
REGARDING THE IMPLEMENTATION OF RESERVOIR LAND MANAGEMENT PLANS IN
TENNESSEE

WHEREAS, the Tennessee Valley Authority (TVA) has proposed to develop Reservoir Land Management Plans for TVA land holdings within the State of Tennessee, these reservoirs being Boone in Sullivan and Washington Counties; Cherokee in Grainger, Hamblen, Hawkins, and Jefferson Counties; Chickamauga in Bradley, Hamilton, McMinn, Rhea, and Meigs Counties; Douglas in Cocke, Jefferson, and Sevier Counties; Fort Loudoun in Blount, Knox, and Loudon Counties; Fort Patrick Henry in Sullivan and Hawkins Counties; Great Falls in Van Buren, Warren, and White Counties; Gunter'sville in Marion County; Kentucky in Benton, Decatur, Hardin, Henry, Houston, Humphreys, Perry, Stewart, and Wayne Counties; Melton Hill in Anderson, Knox, Loudon, and Roane Counties; Nickajack in Hamilton and Marion Counties; Nolichucky in Green County; Normandy in Bedford and Coffee Counties; Norris in Anderson, Campbell, Claiborne, Grainger, and Union Counties; Ocoee #1, #2, and #3 in Polk County; Pickwick in Hardin County; South Holston in Sullivan County; Watauga in Carter and Johnson Counties; Watts Bar in Loudon, Meigs, Rhea, and Roane Counties; Wilbur in Carter County; and the Beech River Project consisting of Beech, Cedar, Dogwood, Lost Creek, Pin Oak, Pine, Redbud, and Sycamore Reservoirs in Henderson County, Tennessee; and

WHEREAS, TVA has determined that the implementation of the Land Management Plans has the potential to affect historic properties that are eligible for listing in the National Register of Historic Places (NRHP); and

WHEREAS, TVA has consulted with the Advisory Council on Historic Preservation (Council), the Tennessee State Historic Preservation Officer (SHPO), the Eastern Band of Cherokee Indians, the United Keetoowah Band, the Cherokee Nation of Oklahoma, Chickasaw Nation, the Muscogee (Creek) Nation of Oklahoma, the Poarch Band of Creek Indians, the Alabama-Coushatta Tribe, the Alabama-Quassarte Tribal Town, the Kialegee Tribal Town, the Mississippi Band of Choctaw Indians, the Choctaw Nation of Oklahoma, the Jena Band of Choctaw Indians, the Seminole Nation of Oklahoma, the Seminole Indian Tribe, the Eastern Shawnee Tribe of Oklahoma, and the Absentee-Shawnee Tribe of Oklahoma pursuant to 36 CFR Part 800, the regulations of the Council implementing Section 106 of the National Historic Preservation Act (16 U.S.C. 470f); and

WHEREAS, the Eastern Band of Cherokee Indians, the Chickasaw Nation, the Choctaw Nation of Oklahoma, and the Muscogee (Creek) Nation of Oklahoma have been invited to be a signatory to the Programmatic Agreement; and will assist TVA in determining NRHP eligibility of historic properties and appropriateness of treatment plans for historic properties which have religious or cultural significance to the Eastern Band of Cherokee Indians, Chickasaw Nation, the Choctaw Nation of Oklahoma, and/or the Muscogee (Creek) Nation of Oklahoma that will be adversely affected by TVA Land Management Plans; and

WHEREAS, TVA has conducted complete or partial investigations to identify historic properties on portions of lands considered in the Reservoir Land Management Plans; and

WHEREAS, 36 CFR Part 800.14(b) of the regulations of the Council encourages the use of Programmatic Agreements when effects on historic properties are regional in scope and cannot be fully determined prior to the approval of the undertaking; and

WHEREAS, TVA will develop a Reservoir Land Management Plan at each of these reservoirs which will clearly identify the area of potential effect (APE) for each reservoir;

NOW THEREFORE, TVA, the Council, the SHPO, the Eastern Band of Cherokee Indians, Chickasaw Nation, the Choctaw Nation of Oklahoma and the Muscogee (Creek) Nation of Oklahoma agree that the undertaking shall be implemented in accordance with the following stipulations to satisfy TVA's Section 106 responsibilities for Reservoir Land Management Plans. The TVA Federal Preservation Officer, or the designee thereof, shall act for TVA in all matters concerning the administration of this Agreement.

Stipulations

TVA will ensure that the measures outlined below are a part of all Reservoir Land Management Plans developed by TVA within the state of Tennessee, and that these provisions relating to identification, evaluation, and treatment of historic properties are carried out within the APE prior to the commencement of any ground-disturbing activities or activities that may have visual or other effects on a historic property. This Agreement allows phased identification, evaluation, and treatment of the historic properties located within the APE.

1. CONSULTATION:

TVA will seek comments from all appropriate consulting parties as defined at 36 CFR 800.2(c), and from signatories to this agreement on any undertaking proposed pursuant to a Reservoir Land Management Plan. All comments received in response to such requests for comments will be taken into consideration by TVA in its decision to proceed with such undertaking.

2. AREA OF POTENTIAL EFFECT (APE):

The APE is defined as all TVA fee lands described in the Reservoir Land Management Plan and those private or other non-TVA lands which may be affected by an undertaking on TVA fee land.

3. IDENTIFICATION:

A. TVA shall conduct surveys to identify all historic properties within the APE for each Reservoir Land Management Plan. Previous inventories of TVA lands have identified some but not necessarily all historic properties eligible and potentially eligible for listing in the NRHP.

B. The surveys will be carried out in a manner consistent with the *Secretary of the Interior's Standards and Guidelines for Identification* (48 FR 44720-23) and the Tennessee SHPO Standards and Guidelines for Architectural and Archaeological Resource Management Studies. Survey Plans will be provided to all signatories for thirty (30) days for review and comment, and TVA shall take all comments into account prior to implementation. A written report of the survey shall be submitted to the SHPO, Indian tribes, and the other signatories for thirty (30) days for review and comment. Existing information such as previous survey data, photographs, maps, drawings, building plans, descriptions, sketches, etc. shall be used along with new data.

4. EVALUATION:

A. TVA, in consultation with the SHPO, Indian tribes, and the other signatories to this Agreement, shall evaluate the National Register eligibility of properties identified through the surveys in accordance with 36 CFR Part 800.4(c). For properties that have been determined to be potentially eligible for listing in the NRHP, TVA shall conduct evaluation studies in a manner consistent with the *Secretary of the Interior's Standards and Guidelines for Identification and Evaluation* (48 FR 44720-26) and the Tennessee SHPO Standards and Guidelines for Architectural and Archaeological Resource Management Studies. The SHPO, Indian tribes, and the other signatories shall review and comment on the scope of work (SOW) prior to the evaluation. The evaluations shall be conducted in consultation with the SHPO, Indian tribes, and the other signatories, and a written report shall be submitted to all signatories for thirty (30) days for review and comment.

B. Properties which have been evaluated and have been found to meet National Register criteria shall be considered historic properties. Should a dispute arise on the eligibility of a historic property, TVA will consult with the SHPO to resolve the objection. If TVA and the SHPO do not agree with the determination of eligibility, or if the Council or the Secretary of the Interior (Secretary) so request, TVA shall obtain a determination of eligibility from the Secretary pursuant to 36 CFR Part 63. If an Indian tribe that attaches religious and cultural significance to a property off tribal land does not agree with the determination of eligibility, it may ask the Council to request the TVA Federal Preservation Officer to reassess the determination of eligibility.

5. TREATMENT PLANS:

A. AVOIDANCE, PROTECTION, AND MAINTENANCE:

- (1) TVA, in consultation with the SHPO, Indian tribes, and the other signatories, shall ensure that historic properties determined eligible for listing in the NRHP are, to the extent prudent and feasible as determined by the consultation process, avoided and preserved in place while conducting activities that could affect the characteristics of such property. In the implementation of the Reservoir Land Management Plans, alternatives to avoid adversely affecting historic properties eligible for the NRHP will be considered. All eligible historic properties, that are avoided, will be protected by a buffer zone established in consultation with the SHPO, Indian tribes, and the other signatories.
- (2) TVA will develop a protection and maintenance plan for historic properties on a particular reservoir within two (2) years of the completion of a Reservoir Land Management for that reservoir as specified under Stipulation 10.B. of this Agreement. This plan will be consistent with the standards for archaeological resources set forth in *Treatment of Archaeological Properties* (Advisory Council on Historic Preservation 1989), and with the recommended approaches to rehabilitation of historic structures set forth in the *Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings* (U.S. Department of the Interior, National Park Service, 1983). Furthermore, this plan will be developed in consultation with the SHPO, Indian tribes, and the other signatories. TVA will seek and consider the views of other consulting parties pursuant to 36 CFR Part 800.3(f).

B. DATA RECOVERY:

- (1) When historic properties eligible for the NRHP will be adversely affected by unavoidable physical destruction or damage and all avenues of avoidance have been considered, and a treatment plan for data recovery is found through consultation with the signatories to this Agreement and Indian tribes having a cultural affiliation with the historic properties to be the appropriate treatment, data recovery will be implemented. In such an instance, TVA shall develop a data recovery plan in consultation with the SHPO, Indian tribes, and the other signatories for the recovery of historic and archaeological data from properties that are determined to be eligible for inclusion in the NRHP.
- (2) The data recovery plan shall be developed in accordance with 36 CFR Part 800.5 and 800.16 and will be consistent with 36 CFR Part 800 and the standards set forth in *Archeology and Historic Preservation: Secretary of Interior's Standards and Guidelines*. The data recovery plan shall specify, at a minimum:
 - (a) the property, properties, or portions of properties where data recovery is to be carried out;
 - (b) any property, properties, or portions of properties that will be destroyed without data recovery;
 - (c) the research questions to be addressed through data recovery, with an explanation of their relevance and importance;
 - (d) the field and laboratory methods to be used, with an explanation of their relevance to the research questions;
 - (e) the methods to be used in analysis, data management, and dissemination of data, including a schedule;
 - (f) the proposed disposition of recovered materials and records. The proposed location of this material will be at the University of Tennessee, McClung Museum except for items specified under Stipulation 9 below;
 - (g) proposed methods for involving the interested public in data recovery;
 - (h) proposed methods for disseminating results of the work to the interested public;
 - (i) a proposed schedule for the submission of progress reports to the SHPO; and
 - (j) a plan, developed in consultation with the SHPO, Indian tribes, and the other signatories, delineating the manner in which historic properties, human remains, and associated funerary objects discovered subsequent to the ratification of this Agreement document would be treated.
- (3) TVA shall provide all signatories an opportunity to monitor the implementation of the data recovery plan.

6. POST REVIEW DISCOVERIES:

Previously unidentified historic properties discovered during the implementation of the Reservoir Land Management Plans will be subject to the evaluation process under Stipulation 4 and treated according to the process under Stipulation 5.

Should historic properties be discovered on TVA lands, the discovered historic properties shall be protected and stabilized to prevent any further disturbance until TVA can make an informed decision about further steps to take to meet Federal agency obligations under Section 106 and the terms of this Agreement.

7. REPORTS:

TVA shall ensure that all historical and archaeological investigations undertaken for compliance with this Agreement are recorded in formal written reports that meet the *Archeology and Historic Preservation: Secretary of Interior's Standards and Guidelines* and the Tennessee SHPO Standards and Guidelines for Architectural and Archaeological Resource Management Studies. The SHPO, Indian tribes, and the other signatories shall be afforded thirty (30) days to review and comment on any archaeological or historical reports submitted under this Agreement.

8. SHORELINE STABILIZATION:

Consistent with its obligations under Section 110 of the NHPA, TVA will monitor reservoir shorelines to determine whether any historic properties are being affected by reservoir operation and/or vandalism. TVA will implement appropriate measures, in consultation with the SHPO, Indian tribes, and the other signatories to protect eligible historic properties that are determined to be adversely affected by such causes.

Since fiscal year 1999, TVA has been pursuing a systematic effort in identifying the most significant and endangered archaeological sites along its reservoir shorelines and stabilizing/protecting them. All stabilization to date has been coordinated with the requisite SHPO and Indian tribes.

9. TREATMENT OF HUMAN REMAINS:

A. TVA shall ensure that the treatment of any human remains discovered within the APE complies with all State and Federal laws, including the Native American Graves Protection and Repatriation Act (NAGPRA), concerning archaeological sites and treatment of human remains. Regarding human remains identified on State lands, TVA shall ensure that the remains be treated in a manner that is consistent with the Advisory Council of Historic Preservation's *Policy Statement Regarding the Treatment of Human Remains and Grave Goods* (1988), and in accordance with Tennessee Code Annotated (T.C.A.) 46-4-101 et seq. "Termination of Use of Land as a Cemetery," and T.C.A. 11-6-116b, "Notification and Observation," and T.C.A. 11-6-119 "Reinterment" with implementing Tennessee Rules and Regulations Chapter 0400-9-1 "Native American Indian Cemetery Removal and Reburial." Should human remains be encountered during historic properties investigations or post-review discovery, all ground disturbing activities in the vicinity of the human remains will be ceased immediately. TVA will notify signatories within three (3) business days and invite them to comment on any plans developed to treat the human remains.

B. After consultation with signatories and culturally affiliated Indian tribes in accordance with the provisions of NAGPRA, if any Native American human remains and/or associated funerary objects are excavated during the survey, evaluation, or data recovery of historic properties, TVA shall ensure that these remains and associated objects will be repatriated in accordance with the provisions of NAGPRA within sixty (60) days of completion of any investigations specified in the research design. The temporary curation of the human remains and associated funerary objects will be at the University of Tennessee, McClung Museum during this interim.

10. TIMETABLES FOR COMPLIANCE:

A. Consistent with Stipulation 11 that allows phased compliance, TVA shall ensure that the commitments in this Agreement are met prior to commencement of any ground-disturbing activities. In the event that previously unidentified historic properties should be encountered during the implementation of any ground-disturbing activities, consultation with the SHPO, Indian tribes, and the other signatories will be conducted to determine where work can resume while the effects to the historic property are addressed.

B. Within two (2) years of completion of a Reservoir Land Management plan in Tennessee, TVA will develop a plan for protection and maintenance of historic properties at that particular reservoir. The plan will be submitted to the SHPO, Indian tribes, and the other signatories for review pursuant to Stipulation 5.A(2).

C. Throughout this agreement, unless otherwise stated, the SHPO, Indian tribes, and the other signatories shall have thirty (30) days to review and comment on all reports concerning investigations of historic properties and proposed data recovery plans provided by TVA. Comments received from the signatories shall be taken into consideration in preparing final plans. A copy of the final reports and data recovery plans shall be provided to the signatories.

11. PHASED COMPLIANCE:

Consistent with 36 CFR Part 800.4(b)(2), this Agreement allows phased identification, evaluation, and treatment of historic properties in order to meet the requirements of Section 106 of the National Historic Preservation Act (NHPA).

12. LAND TRANSFER OF PROPERTY RIGHTS:

The instrument of conveyance for the transfer, lease or sale, of any parcel containing or that may contain a historic property from the Federal Government to a third party will include provisions to ensure that all requirements of Section 106 of the NHPA and its implementing regulations (36 CFR Part 800) are met. The instrument of conveyance shall contain, when necessary to protect historic properties, a legally binding preservation covenant for the protection of such properties prepared in consultation with the SHPO, Indian tribes, and the other signatories. TVA may release the grantee from the preservation covenant in whole or in part, as appropriate, pursuant to the terms of the covenant and after consultation with the SHPO, Indian tribes, and the other signatories. The covenant may be enforced by TVA or the United States of America.

13. ADMINISTRATIVE CONDITIONS:

A. If Stipulations 1 - 12 have not been implemented within ten (10) years, this Agreement shall be considered null and void, unless the signatories have agreed in writing as provided in Paragraph 13.B. below to an extension for carrying out its terms. If no agreement is reached on an extension at the end of this 10-year period, TVA and the SHPO will resume consultation pursuant to 36 CFR Part 800.

B. If Stipulations 1 - 12 have not been implemented within nine (9) years from the date of this Agreement's execution TVA and the SHPO shall review the Agreement to determine whether the Agreement should be extended. If an extension is deemed necessary, TVA, the Council, and the SHPO and other signatories will consult to make appropriate revisions to the Agreement.

C. The signatories to this Agreement shall consult at least once every year to review implementation of the terms of this Agreement. Prior to the reviews, TVA shall provide to the signatories a report detailing how it has carried out its obligations pursuant to this Agreement.

D. The Council, SHPO, Indian tribes and the other signatories may monitor activities carried out pursuant to the Agreement, and the Council will review such activities if so requested. TVA will cooperate with the Council, SHPO, Indian tribes and the other signatories in carrying out their monitoring and review responsibilities.

E. The signatories to this Agreement may agree to amend the terms of the Agreement. Such amendment shall be effective upon the signatures of all signatories to this Agreement, which shall be appended to the Agreement as an attachment.

F. Should the SHPO, Indian tribes and the other signatories object within thirty (30) days after receipt of any plans, specifications, contracts, or other documents provided for review pursuant to this Agreement, TVA shall consult with the SHPO to resolve the objection. If TVA determines that the objection cannot be resolved, TVA shall request the further comments of the Council pursuant to 36 CFR Part 800. Any Council comment provided in response to such a request will be taken into account by TVA in accordance with 36 CFR Part 800 with reference only to the subject of the dispute; TVA's responsibility to carry out all actions under this Agreement that are not the subjects of the dispute will remain unchanged.

G. In the event the SHPO is unable to fulfill its responsibilities pursuant to this Agreement, TVA shall consult with the Council on an appropriate course of action for implementing the terms of this Agreement.

H. If the Council determines that the terms of this Programmatic Agreement are not being carried out, or if this Agreement is terminated, TVA shall comply with subpart B of 36 CFR Part 800 with regard to individual Reservoir Land Management Plans covered by this Agreement.

I. TVA shall ensure that public involvement in addition to its outreach to the signatories to this Agreement is conducted pursuant to 36 CFR Part 800.14 by inviting comment through Public meetings, Public notices, or other appropriate mechanisms as may be agreed upon by the signatories.

Execution and implementation of this Programmatic Agreement evidences that TVA has taken into account the effects on historic properties resulting from its action to develop Reservoir Land Management Plans in Tennessee and TVA has thereby complied with its obligations under Section 106 of National Historic Preservation Act for these actions..

SIGNATORIES:

ADVISORY COUNCIL ON HISTORIC PRESERVATION

By: John M. Jordan Date: 10/11/05
[]

TENNESSEE VALLEY AUTHORITY

By: [Signature] Date: 7.20.05
[]

TENNESSEE STATE HISTORIC PRESERVATION OFFICER

By: Herbert L. Hagen, DSHPO Date: 8/23/05
[]

CONCURRING PARTIES:

EASTERN BAND OF CHEROKEE INDIANS

By: _____ Date: _____
[]

CHICKASAW NATION

By: _____ Date: _____
[]

CHOCTAW NATION OF OKLAHOMA

By: _____ Date: _____
[]

MUSCOGEE (CREEK) NATION OF OKLAHOMA

By: _____ Date: _____
[]

By: _____ Date: _____
[]

By: _____ Date: _____
[]

Table D-7. Invasive Exotic Pest Plants of Tennessee

Rank 1 — Severe Threat: Exotic plant species that possess characteristics of invasive species and spread easily into native plant communities and displace native vegetation

Common Name	Scientific Nomenclature
Air-potato	<i>Dioscorea oppositifolia</i> L.
Amur bush honeysuckle	<i>Lonicera maackii</i> (Rupr.) Maxim.
Asian bittersweet	<i>Celastrus orbiculata</i> Thunb.
Autumn olive	<i>Elaeagnus umbellata</i> Thunb.
Bush honeysuckle	<i>Lonicera x bella</i> Zabel
Camus Nepalgrass, Japanese grass	<i>Microstegium vimineum</i> (Trin.) A.
Chinese privet	<i>Ligustrum sinense</i> Lour.
Common privet	<i>Ligustrum vulgare</i> L.
Common reed	<i>Phragmites australis</i> (Cav.) Trin. ex Steud.
English ivy	<i>Hedera helix</i> L.
Eurasian water milfoil	<i>Myriophyllum spicatum</i> L.
Garlic-mustard	<i>Alliaria petiolata</i> (Bieb.) Cavara & Grande
January jasmine	<i>Lonicera fragrantissima</i> Lindl. & Paxton
Japanese honeysuckle	<i>Lonicera japonica</i> Thunb.
Japanese knotweed, Japanese bamboo	<i>Polygonum cuspidatum</i> Seib. & Zucc
Japanese spiraea	<i>Spiraea japonica</i> L.f.
Johnson grass	<i>Sorghum halepense</i> (L.) Pers.
Kudzu	<i>Pueraria montana</i> (Lour.) Merr.
Mimosa	<i>Albizia julibrissin</i> Durz.
Morrow's bush honeysuckle	<i>Lonicera morrowii</i> A. Gray
Multiflora rose	<i>Rosa multiflora</i> Thunb.
Princess tree	<i>Paulownia tomentosa</i> (Thunb.) Sieb. & Zucc. ex Steud
Purple loosestrife	<i>Lythrum salicaria</i> L. [all varieties and cultivars]
Sericea lespedeza	<i>Lespedeza cuneata</i> (Dum.-Cours.) G. Don
Tartarian honeysuckle, twinsisters	<i>Lonicera tatarica</i> L.
Thorny-olive	<i>Elaeagnus pungens</i> Thunb.
Tree of heaven	<i>Ailanthus altissima</i> (Mill.) Swingle
Tropical soda apple	<i>Solanum viarum</i> Dunal
Winter creeper	<i>Euonymus fortunei</i> (Turcz.) Hand.-Mazz.

Rank 2 — Significant Threat: Exotic plant species that possess characteristics of invasive species but are not presently considered to spread as easily into native plant communities as those species listed as Rank 1— Severe Threat

Common Name	Scientific Nomenclature
Alligatorweed	<i>Alternanthera philoxeroides</i> (Mart.) Griseb.
Asian spiderwort	<i>Murdannia keisak</i> (Hassk.) Hand.-Mazz.
Bicolor lespedeza, shrubby bushclover	<i>Lespedeza bicolor</i> Turcz.
Bull thistle	<i>Cirsium vulgare</i> (Savi) Ten.
Bunchy knotweed, oriental lady's-thumb	<i>Polygonum caespitosum</i> Blume
Burning bush	<i>Euonymus alata</i> (Thunb.) Sieb.
Canada thistle	<i>Cirsium arvense</i> L. (Scop.)
Chinese wisteria	<i>Wisteria sinensis</i> (Sims) DC.
Coltsfoot	<i>Tussilago farfara</i> L.
Common cocklebur, rough cocklebur	<i>Xanthium strumarium</i> L.
Common mullein	<i>Verbascum thapsus</i> L.
Common periwinkle	<i>Vinca minor</i> L.
Crown vetch	<i>Coronilla varia</i> L.
Curly pondweed	<i>Potamogeton crispus</i> L.
Cutleaf teasel	<i>Dipsacus laciniatus</i> L.
Dame's rocket	<i>Hesperis matronalis</i> L.
Foxtail-millet	<i>Setaria italica</i> (L.) P. Beauv.
Fuller's teasel	<i>Dipsacus fullonum</i> L.
Garden vetch	<i>Vicia sativa</i> L.
Green millet	<i>Setaria viridis</i> (L.) P. Beauv.
Hairy jointgrass	<i>Arthraxon hispidus</i> (Thunb.) Makino
Hayek watercress	<i>Rorippa nasturtium-aquaticum</i> (L.)
Hydrilla, water thyme	<i>Hydrilla verticillata</i> (L.f.) Royle
Japanese barberry	<i>Berberis thunbergii</i> DC.
Japanese brome grass	<i>Bromus japonicus</i> Thunb. ex Murray
Japanese privet	<i>Ligustrum japonicum</i> Thunb.
Leatherleaf clematis	<i>Clematis ternifolia</i> DC.
Meadow brome	<i>Bromus commutatus</i> Schrad.
Meadow fescue	<i>Festuca pratensis</i> Huds.
Moneywort, creeping Jenny	<i>Lysimachia nummularia</i> L.
Mugwort, common wormwood	<i>Artemisia vulgaris</i> L.
Musk thistle, nodding thistle	<i>Carduus nutans</i> L.
Nandina, sacred-bamboo	<i>Nandina domestica</i> Thunb.
Nodding foxtail-grass, Japanese bristle-grass	<i>Setaria faberi</i> R.A.W. Herrm.
Oregon grape	<i>Mahonia bealei</i> (Fortune) Carriere
Parrot's feather, water milfoil	<i>Myriophyllum aquaticum</i> (Vell.) Verdc.
Poison hemlock	<i>Conium maculatum</i> L.
Rye brome	<i>Bromus secalinus</i> L.
Spotted knapweed	<i>Centaurea biebersteinii</i> DC.
Spreading hedge-parsley	<i>Torilis arvensis</i> (Huds.) Link
Tall fescue	<i>Festuca arundinacea</i> Schreb.
Thatch brome grass, cheat grass	<i>Bromus tectorum</i> L.
White poplar	<i>Populus alba</i> L.
White sweet clover	<i>Melilotus alba</i> Medik.
Wild carrot, Queen Anne's-lace	<i>Daucus carota</i> L.
Wisteria	<i>Wisteria floribunda</i> (Willd.) DC.
Yellow foxtail, smooth millet	<i>Setaria pumila</i> (Poir.) Roem. & Schult.
Yellow sweet clover	<i>Melilotus officinalis</i> (L.) Lam.
Zebra grass, Chinese silver grass	<i>Miscanthus sinensis</i> Andersson

Rank 3 — Lesser Threat: Exotic plant species that spread in or near disturbed areas and are not presently considered a threat to native plant communities

Common Name	Scientific Nomenclature
Bachelor's button, cornflower	<i>Centaurea cyanus L.</i>
Balloonvine, love-in-a-puff	<i>Cardiospermum halicacabum L.</i>
Brazilian elodea, Brazilian water-weed	<i>Egeria densa Planch.</i>
Bromegrass, rescue grass	<i>Bromus catharticus Vahl</i>
California poppy	<i>Eschscholzia californica Cham.</i>
Chicory	<i>Cichorium intybus L.</i>
Chinaberry	<i>Melia azedarach L.</i>
Corn gromwell	<i>Lithospermum arvense (L.) I. M. Johnston</i>
Field garlic	<i>Allium vineale L.</i>
Giant reed, elephant grass	<i>Arundo donax L.</i>
Gill-over-the-ground, ground ivy	<i>Glechoma hederacea L.</i>
Hairy crabweed	<i>Fatoua villosa (Thunb.) Nakai</i>
Japanese clover	<i>Kummerowia striata (Thunb.) Schindl.</i>
Korean clover	<i>Kummerowia stipulacea (Maxim.) Makino</i>
Lady's thumb	<i>Polygonum persicaria L.</i>
Ox-eye daisy	<i>Chrysanthemum leucanthemum L.</i>
Pale-yellow iris	<i>Iris pseudacorus L.</i>
Paper mulberry	<i>Broussonetia papyrifera (L.) L'Her. ex Vent.</i>
Puncturevine	<i>Tribulus terrestris L.</i>
Russian olive	<i>Elaeagnus angustifolia L.</i>
Sicklepod senna	<i>Senna obtusifolia (L.) H. S. Irwin & Barneby</i>
Smooth bromegrass	<i>Bromus inermis Leyss.</i>
Spiny cocklebur	<i>Xanthium spinosum L.</i>
Star of Bethlehem	<i>Ornithogalum umbellatum L.</i>
Stinging nettle	<i>Urtica dioica L.</i>
Wild parsnip	<i>Pastinaca sativa L.</i>
Wineberry	<i>Rubus phoenicolasius Maxim.</i>
Yellow goat's-beard	<i>Tragopogon dubius Scop.</i>

Table D-8. Non-native, Non-invasive Species Suitable for Erosion Control/Stabilization Activities

Non-Native, Non-Invasive Species Suitable For Erosion Control/Stabilization Activities

Annual Ryegrass
Foxtail, Browntop, and Japanese Millets
Winter Wheat
Oats (Spring Variety)
Orchardgrass
Perennial Ryegrass
Redtop
Rye
Timothy
Weeping Lovegrass
Crimson, Red, and Ladino Clovers

Table D-9. Visual Consequences

Parcel Number	Alt. A Zone	Alt. A Acres	Alt. B Zone	Alt. C Zone	Alt. A and B Acres	Proposed Allocation or Action Description	Visual Consequence of Alt. B	Visual Consequence of Alt. C
1	6	10.5	2	2	10.5	TVA-managed boat ramp and parking; TVA management in Alternatives B and C.	Potential minor visual impacts	Potential minor visual impacts
9	6	122.5	6	4	122.5	Fooshee Pass Recreation Area, potential expansion of campground in Alternatives A and B.	No Change	Potentially Beneficial
10	6	78.4	6	4	78.4	Fooshee Pass Recreation Area, campground operations in Alternatives A and B.	No Change	Potentially Beneficial
15a	n/a	n/a	3	3	4.1	New parcel for protection of forested wetlands in Alternatives B and C, formerly part of Parcel 15 (Zone 7).	Potentially Beneficial	Potentially Beneficial
16a	n/a	n/a	3	3	3.0	New parcel for protection of significant bottomland hardwood forested wetland in Alternatives B and C, formerly part of Parcel 16 (Zone 7).	Potentially Beneficial	Potentially Beneficial
17	3	1.4	3	3	2.6	Protection of historic structures, Alternatives B and C, adds 1.2 acres from Parcel 16 (Zone 7).	No Change	No Change
57	3	8.1	3	3	9.5	Protection of historic and cultural resources, Alternatives B and C, adds 1.4 acres from Parcel 56 (Zone 7).	No Change	No Change
70a	n/a	n/a	2	2	1.3	New parcel for navigation safety landing in Alternatives B and C, formerly part of Parcel 70 (Zone 4).	Potential minor visual impacts	Potential minor visual impacts
90	7	1.4	2	2	1.4	Changed 1.4 acres to Zone 2 for Navigation Safety Harbor in Alternatives B and C, add remainder to Parcel 89 (Zone 4).	Potential minor visual impacts	Potential minor visual impacts
91	3	16.2	3	3	11.9	Marble Bluff Habitat Protection Area decreased 4.8 acres in Alternatives B and C and adds to Parcel 92 (Zone 4).	No Change	No Change
92	4	33.9	4	4	34.9	Natural Resource Conservation, Alternatives B and C, gives 3.8 acres to Parcel 94 (Zone 3) and adds 4.8 acres from Parcel 91 (Zone 3)	No Change	No Change
94	3	9.2	3	3	11.2	Polecat Creek Slopes Habitat Protection Area, Alternatives B and C, adds 3.8 acres from Parcel 92 (Zone 4), and gives 1.8 acres to Parcel 96 (Zone 4).	Potentially Beneficial	Potentially Beneficial
98	6	9.4	4	4	9.4	Fronts Tennessee National Golf Course; recreation activity not supported on TVA Land.	Potentially Beneficial	Potentially Beneficial
122	2	9.0	2	2	16.6	Kingston Pump Station, Alternatives B and C, adds 7.6 acres from Parcel 121 (Zone 6).	Potential minor visual impacts	Potential minor visual impacts
127a	n/a	n/a	2	2	1.9	New parcel for navigation safety landing in Alternatives B and C, formerly part of Parcel 127 (Zone 7).	Potential minor visual impacts	Potential minor visual impacts

Parcel Number	Alt. A Zone	Alt. A Acres	Alt. B Zone	Alt. C Zone	Alt. A and B Acres	Proposed Allocation or Action Description	Visual Consequence of Alt. B	Visual Consequence of Alt. C
137a	n/a	n/a	2	2	2.8	New parcel for navigation safety landing in Alternatives B and C, formerly part of Parcel 142.	Potential minor visual impacts	Potential minor visual impacts
140	5	7.8	4	4	7.8	No longer considered suitable for Zone 5 in Alternatives B and C (per industrial assessment).	Potentially Beneficial	Potentially Beneficial
142	5	319.5	5	4	302.5	Former Clinch River Breeder Reactor site, Alternatives B and C, gives 14.2 acres to Parcel 144 (Zone 3) and 2.8 acres to create a new navigation safety landing Parcel 137a (Zone 2).	No Change	No Change
143	5	391.3	5	4	181.6	Former Clinch River Breeder Reactor site, Alternatives B and C, gives 42.6 acres to Parcel 145 and 166.7 acres to Grassy Creek Habitat Protection Area, Parcel 146 (Zone 3).	No Change	No Change
144	3	48.0	3	3	62.2	Former Clinch River Breeder Reactor site, protection for wetlands and cultural resources; Alternatives B and C add 14.2 acres from Parcel 142 as a shoreline buffer.	Potentially Beneficial	Potentially Beneficial
145	5	332.9	5	4	375.7	Former Clinch River Breeder Reactor site, Alternatives B and C add 42.6 acres from Parcel 143.	No Change	Potentially Beneficial
146	3	98.6	3	3	265.3	Grassy Creek Habitat Protection Area; Alternatives B and C add 166.7 acres from Parcel 143.	Potentially Beneficial	Potentially Beneficial
152a	n/a	n/a	4	4	2.2	New parcel Natural Resource Conservation in Alternatives B and C, formerly part of Parcel 152 Sugar Grove Habitat Protection Area (Zone 3), no sensitive resources are present.	No Change	No Change
159	3	3.4	3	3	5.7	Protection of wetlands on small islands, Alternatives B and C, adds a 2.3-acre island from Parcel 189 (Zone 4).	No Change	No Change
172	4	21.2	4	4	26.8	Natural Resource Conservation, Alternatives B and C, add 5.6 acres from Parcel 170, no longer suitable for Zone 5.	Potentially Beneficial	Potentially Beneficial
175	6	3.4	6	6	23.3	City of Harriman public recreation area, Alternatives B and C, adds 19.9 acres from Parcel 174 (no longer suitable for Zone 5) and 1.5 acres from Parcel 176 (no longer needed for protection of cultural resources).	Potentially Beneficial	Potentially Beneficial
176	3	3.3	3	3	1.8	Protection of cultural resources, decreased by 1.5 acres in Alternatives B and C, not needed to protect resource.	No Change	No Change
181a	n/a	n/a	3	3	3.5	New parcel for protection of rare plants in Alternatives B and C, formerly part of Parcel 181 (1.4 acres, Zone 5) and Parcel 179 (2.2 acres, Zone 4).	Potentially Beneficial	Potentially Beneficial

Parcel Number	Alt. A Zone	Alt. A Acres	Alt. B Zone	Alt. C Zone	Alt. A and B Acres	Proposed Allocation or Action Description	Visual Consequence of Alt. B	Visual Consequence of Alt. C
205	3	5.0	4	4	5.0	Change from Zone 3 to 4 in Alternatives B and C, no wetlands present.	No Change	No Change
207a	n/a	n/a	3	3	7.1	New parcel for the protection of sensitive cultural resources, formerly part of Parcel 207 (Zone 2).	Potentially Beneficial	Potentially Beneficial
218	5	61.4	6	4	61.4	Potential City of Rockwood Recreation Area.	Potentially Beneficial	Potentially Beneficial
224a	n/a	n/a	2	2	4.9	New parcel for Navigation Safety Harbor in Alternatives B and C, formerly part of Parcel 224.	Potential long-term cumulative impacts	Potential long-term cumulative impacts
229a	n/a	n/a	2	2	0.3	New parcel for a road right-of-way in Alternatives B and C, formerly part of Parcels 229 and 230.	Potential minor visual impacts	Potential minor visual impacts
243	6	2.9	7	7	2.9	Bill's Pier, change from Zone 6 to 7 in Alternatives B and C, no longer used for commercial recreation.	Potential minor visual impacts	
255	6	8.7	4	4	8.7	Sand Island changes from Zone 6 to 4 in Alternatives B and C, to be managed for informal recreation use and protection of cultural resources.	Potentially Beneficial	Potentially Beneficial
297	5	245.0	5	4	245.0	Suitable for industrial use to support water-based industries.	No Change	Potentially Beneficial
298	5	34.4	5	4	34.4	Potential barge terminal site, suitable for industrial use to support water-based industries.	No Change	Potentially Beneficial
299	6	370.3	4	4	423.4	'The Pines,' change to Zone 4 from 6 in Alternatives B and C, to be managed for informal recreation use and conservation of natural resources, add 53.0 acres from Parcel 300.	Potentially Beneficial	Potentially Beneficial
300	6	237.4	6	6	184.3	Watts Bar Resort in Alternatives B and C give 53.0 acres to Parcel 299, to align area with commercial recreation license.	No Change	No Change

Notes:

Potential long-term incremental changes are likely to occur for Parcels 80 and 257 under Alternative B. Reallocating these parcels from Zone 4 to Zone 6 would incrementally change the aesthetic sense of place from relatively harmonious landscapes to more heavily human-altered environments. These changes could include shorelines that are naturally appearing that would be developed for beaches, boat ramps, or marinas.

Potentially beneficial visual impacts could occur for many parcels under Alternative C. These beneficial attributes would include reallocating some parcels from Economic Development (Zone 5) and Developed Recreation (Zone 6) to either Zone 3 or Zone 4.

Potentially negative aesthetic impacts could occur for Parcels 295, 296, 299, and 5 under Alternate B. These parcels would be reallocated from either Zone 4 or Zone 6 to Zone 5. In each scenario, the parcels would be allocated for Economic Development and would likely be managed for commercial business, light manufacturing, and general industrial purposes. These incremental changes in the landscape would result in long-term cumulative impacts for Watts Bar Reservoir.

Table D-10. Description of Soils With Characteristics to be Classified as Prime Farmland in the Watts Bar Land Plan Parcels

County	Soil Symbol	Description	Prime Farmland Acreage
Loudon			
	CmB2	Cumberland silty clay loam, eroded gently sloping	1
	Em	Emory silt loam	13
	HnA	Huntington loam, nearly level phase	19
	HnC	Huntington loam, sloping phase	7
	Ln	Lindside silt loam	30
	Lo	Lindside silt loam, local alluvium phase	1
	SaB	Sequatchie fine sandy loam, gently sloping phase	1
	ScB	Sequatchie loam, gently sloping phase	2
	ScC	Sequatchie loam, sloping phase	5
	Wo	Wolftever silt loam	4
		Total	83
Meigs			
	CaB	Capshaw silt loam, 2 to 5 percent slopes	9
	DaB2	Decatur silt loam, 2 to 5 percent slopes, eroded	12
	Eg	Egam silty clay loam	20
	Em	Emory silt loam	2
	EsB	Etowah silt loam, 2 to 5 percent slopes	4
	EtB	Etowah gravelly silt loam, 2 to 5 percent slopes	2
	HoB	Holston loam, 2 to 5 percent slopes	5
	Ln	Lindside silt loam	73
	Lv	Lobelville cherty silt loam	21
	MrC	Minvale cherty silt loam, 5 to 12 percent slopes	16
	Ne	Newark silt loam	45
	TIB	Tarklin silt loam, 2 to 8 percent slopes	2
	TnC	Tarklin cherty silt loam, 5 to 12 percent slopes	4
	WtB	Whitwell loam, 0 to 5 percent slopes	35
	WvB	Wolftever silt loam, 1 to 5 percent slopes	5
		Total	255
Rhea			
	AnB	Altavasta loam, 1 to 5 percent slopes	79
	CaB	Capshaw silt loam, 2 to 5 percent slopes	63
	Eg	Egam silty clay loam, 0 to 3 percent slopes	4
	EtB	Etowah loam, 2 to 5 percent slopes	200
	Ha	Hamblen silt loam, occasionally flooded	73
	HoB	Holston loam, 2 to 5 percent slopes	45
	ShB	Shady loam, 1 to 5 percent slopes	6
	Sm	Shady loam, 0 to 3 percent slopes, occasionally flooded	19
	TmB	Tasso-Minvale complex, 2 to 5 percent slopes	102
	WbB2	Waynesboro loam, 2 to 5 percent slopes, eroded	193
	WfB	Wolftever silt loam, 2 to 5 percent slopes	20
		Total	804

County	Soil Symbol	Description	Prime Farmland Acreage
Roane			
	Af	Allen very fine sandy loam	5
	Av	Apison very fine sandy loam	17
	Gs	Greendale silt loam	58
	Hi	Huntington silt loam (Arrington)	115
	Jg	Jefferson gravelly fine sandy loam	7
	Li	Lindside silt loam	66
	Lv	Leadvale very fine sandy loam	85
	Nv	Nolichucky	78
	Pg	Pope gravelly fine sandy loam	70
	Pl	Pope loamy fine sand	169
	Ps	Philo very fine sandy loam (Sil)	63
	Pv	Pope very fine sandy loam	588
	Rg	Roane gravelly loam	91
	Sv	Sequatchie very fine sandy loam	217
	Ws	Wolftever silt loam	223
	Wv	Waynesboro very fine sandy loam	52
		Total	1904

Sources: Soil Surveys of Loudon, Meigs, Rhea, and Roane counties, USDA-NRCS

Table D-11. Acreage of Prime Farmland (greater than 1 acre) and Agricultural Land Use for Each Parcel Allocated to Zone 2

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
3	280	137	49	193	95
4	146	10	7	16	1
122	9	3	33	2	
190	1260	4	<1		
207	19	3	16	4	
213	4	2	48		
282	169	51	30	43	13
294	34	19	56		
Total/%	1921	229	30	258	109

Table D-12. Acreage of Prime Farmland (greater than 1 acre) and Agricultural Land Use for Each Parcel Allocated to Zone 3

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
8	141	8	6	1	
46	785	17	2	5	
50	20	20	100	2	2
69	4	4	95		
75	15	15	97		
78	83	83	100		
88	648	256	40	50	26
93	10	5	48	2	1
97	39	39	100		
101	22	12	56		
103	15	2	13		
132	5	4	82		
138	5	3	60		
139	19	9	48		
141	63	60	95	11	11
144	48	38	79		
146	99	8	8		
149	13	5	38		
159	3	3	100		
166	79	57	72	5	2
169	16	10	61		
171	5	5	100		
173	10	10	100	1	1
176	3	3	100		
180	11	7	61	6	4
188	25	11	43	11	2
193	8	7	86		
194	8	2	24		
196	11	8	70		
214	14	10	72		
233	81	27	34	7	4
237	88	22	25		
238	171	15	9	2	
253	20	14	72		
254	427	23	5		
268	39	39	99	13	13
276	49	22	45	6	3
281	8	8	100		
288	9	7	79		
Total/%	3118	898	62	122	69

Table D-13. Acreage of Prime Farmland (greater than 1 acre) and Agricultural Land Use for Each Parcel Allocated to Zone 4

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
7	729	9	1	3	
31	7	2	30		
40	176	1	1		
44	23	2	9		
51	42	8	19	23	5
54	22	20	92	1	1
60	2	1	67		
62	5	5	100		
64	1	1	91		
67	4	3	75		
72	113	17	15	36	10
80	15	6	40		
82	37	7	19		
89	36	23	64	8	7
92	34	9	26	5	1
100	11	9	80	2	2
104	7	2	28		
129	24	4	17		
130	60	20	33	1	
134	62	35	56	7	5
137	79	50	63	10	8
155	10	8	77		
156	15	2	13		
158	24	11	46		
161	23	12	53	2	2
165	48	21	44	21	11
172	21	11	52	2	
179	56	26	46	7	5
182	37	20	54	4	4
187	57	27	48	14	5
189	20	15	75		
192	6	3	50		
200	56	10	18	3	
202	29	7	24	4	
204	24	10	42	2	2
217	31	7	23		
263	14	4	28		
267	25	25	100	5	4
278	20	18	90	3	3
280	71	11	16	6	
283	132	4	3	13	
285	225	73	33		

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
286	43	5	12	1	
290	10	2	20	1	
291	97	17	18		
292	25	2	8		
296	198	46	23	35	17
306	54	5	9	2	
Total/%	2858	636	41	221	92

Table D-14. Acreage of Prime Farmland (greater than 1 acre) and Agricultural Land Use for Each Parcel Allocated to Zone 5

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
140	8	8	100	3	3
142	320	25	8	5	
143	391	2	1	4	
145	333	107	32	56	7
147	76	5	7		
148	22	2	9		
168	46	43	94	16	15
170	12	6	50		
174	22	20	91	2	1
181	8	1	13		
218	61	4	7	5	
297	245	34	14	7	
Total/%	1544	257	36	98	26

Table D-15. Acreage of Prime Farmland (greater than 1 acre) and Agricultural Land Use for Each Parcel Allocated to Zone 6

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
1	11	11	100		
5	249	22	9	9	1
9	123	13	11		
10	78	9	11		
12-08	3	3	88		
12-18	2	2	95		
12-29	5	2	41		
12-30	5	3	58	2	2
12-32	3	1	34		
12-35	3	2	59		
12-36	4	3	77		
12-44	3	2	74		
12-48	10	2	20		
12-50	8	1	12		
12-53	6	3	49		
12-54	2	1	67		
12-60	2	1	59		
12-66	4	2	53		
12-68	6	2	32		
12-70	4	1	23		
13	6	3	50		
45	33	7	22	3	2
68	24	20	82	14	12
74	78	2	3		
98	9	4	43	3	1
99	10	6	59	4	4
116	8	3	40	4	1
121	26	9	35	6	3
175	3	4	133	2	1
183	25	15	60		
201	84	25	30	1	
218	69	19	27	14	4
230	22	4	18	2	
240	7	6	92		
255	9	6	69		
264	5	4	77		
266	100	19	19		
270	53	8	15	5	2
277	12	7	61	1	1
299	370	18	5	2	
300	237	3	1	4	
Total/%	1721	278	47	76	34

Table D-16. Acreage of Prime Farmland (greater than 1 acre) and Agricultural Land Use for Each Parcel Allocated to Zone 7

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
11	41	6	15		
15	76	8	11	2	
16	28	1	4	2	
25	91	13	14	10	4
34	25	1	4		
36	54	19	35	6	2
38	36	4	11	5	
43	47	4	9	4	
48	66	22	33	3	
53	45	28	62	10	8
56	62	10	16	4	
59	35	13	37		
61	31	8	26	3	
63	47	23	49	21	14
66	29	16	56	6	4
71	15	8	55		
73	27	3	11	3	
81	24	10	41		
95	16	3	19	6	1
102	53	25	47	12	7
107	20	18	91		
109	10	7	70	2	2
112	26	10	39	1	
113	6	2	36		
117	28	13	47	2	
118	25	8	32	3	
119	8	1	12		
123	20	2	10	4	2
127	13	10	77		
128	25	16	63		
133	16	5	32	4	
150	7	5	68		
151	17	9	54		
153	41	18	44	2	
154	31	23	74		
157	26	8	31		
160	15	11	74		
162	10	10	100		
167	12	12	100		
184	29	4	14	4	2
195	15	2	14		
197	27	4	15	5	

Parcel Number	Total Acres	Prime Farmland Acreage	Percent Prime Farmland in Parcel	Acres of Parcel Used for Agriculture	Acres of Prime Farmland in Parcel Used for Agriculture
203	17	8	48		
206	15	7	46	2	
210	12	2	17		
212	76	26	34	24	11
216	32	6	19		
220	18	2	11		
221	43	8	19	5	
229	45	5	11	1	
232	39	5	13	2	
234	40	31	78		
239	24	1	4		
242	17	11	66		
248	45	4	9		
251	24	3	13	2	
252	12	3	25		
259	12	4	33		
260	48	7	14		
262	41	34	83	5	5
265	51	43	84	10	10
269	38	24	63		
273	8	7	85		
274	5	2	38		
287	28	4	14		
289	38	19	50	2	1
293	24	10	41	11	77
Total/%	2027	699	39	188	150

Table D-17. Parcels With Existing Licenses for Use as Agriculture

Zone	Parcel	Total Acres	Acres Licensed
2	2	23.8	0.1
2	3	280.4	159.0
2	207	19.1	4.8
2	282	169	22.6
3	103	14.9	2.1
3	159	3.4	0.7
3	169	12.4	4.1
3	173	9.8	2.7
3	233	80.6	16.0
4	51	42.2	23.3
4	72	111.9	19.3
4	130	60.3	8.8
4	161	18.1	3.9
4	168	45.7	10.5
4	187	56.8	10.3
4	224	128.6	4.5
4	228	22.4	1.4
4	271	14.0	5.9
4	280	70.6	0.0
4	283	132.1	25.7
4	296	199.8	90.2
5	218	61.4	26.6
6	219	69.4	0.2
7	52	12.4	1.0
7	63	45.5	11.3
7	102	53.3	1.8
7	160	14.8	2.8
7	162	14.7	7.9
7	167	12.3	0.6
7	229	42.1	0.7