



Ozone Sensitive Species By Park

Ground-level ozone can cause visible leaf injury (e.g. bleaching or dark stippling), growth and yield reductions, and altered sensitivity to stressors (e.g. pests, diseases, or drought). Park-specific ozone sensitive species lists are created by comparing a park's NPSpecies list to a list of species known to be sensitive to high ozone concentrations.

Key considerations to note:

- The presence of a species at a park does not necessarily mean that ozone injury to that species has been documented in the park.
- The ozone sensitive species list is linked to known taxonomic synonyms identified by the Integrated Taxonomic Information System (www.ITIS.gov). This link ensures that sensitive species on a park's list are identified even if they come from historic records or have regional name differences.
- Duplicate records may result when a known ozone sensitive species has been split into varieties. In those cases, both the original name (e.g. *Pinus ponderosa*) and the subdivided autonym (e.g. *Pinus ponderosa* var. *ponderosa*) may appear in the list.
- Park-specific ozone sensitive species lists are a work in progress. Lists build on information currently in the NPSpecies data system where records are continually being added or updated by National Park Service staff. To report an error or make a suggestion, go to <https://irma.nps.gov/npspecies/suggest>.

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
ABLI	Abraham Lincoln Birthplace National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Non-native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present		Native	Yes	Yes
				- <i>Ageratina altissima</i> var. <i>altissima</i> , <i>Eupatorium rugosum</i>						
ABLI	Abraham Lincoln Birthplace National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Common	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Common	Native	Yes	Yes
				- <i>Cercis canadensis</i> var. <i>canadensis</i>						
ABLI	Abraham Lincoln Birthplace National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ABLI	Abraham Lincoln Birthplace National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Rare	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Probably Present		Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present		Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Uncommon	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Common	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Uncommon	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						
ABLI	Abraham Lincoln Birthplace National Historical Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
				- <i>Rhus aromatica</i> var. <i>aromatica</i>						
ABLI	Abraham Lincoln Birthplace National Historical Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Abundant	Native	Yes	No
				- <i>Rhus copallinum</i> var. <i>latifolia</i>						
ABLI	Abraham Lincoln Birthplace National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> - <i>Rudbeckia laciniata</i> var. <i>laciniata</i>	cutleaf coneflower, green- head coneflower	Present		Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Probably Present		Native	Yes	Yes
ABLI	Abraham Lincoln Birthplace National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush	Present	Unknown	Non-native	Yes	No
ABLI	Abraham Lincoln Birthplace National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Uncommon	Native	Yes	Yes
ACAD	Acadia National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Unknown	Non-native	Yes	No
ACAD	Acadia National Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Fabales	Fabaceae	<i>Apios americana</i>	Groundnut, Wild Bean	Present	Rare	Native	Yes	Yes
ACAD	Acadia National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Occasional	Native	Yes	Yes
ACAD	Acadia National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	Present	Common	Native	Yes	No
ACAD	Acadia National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Uncommon	Non-native	Yes	Yes
ACAD	Acadia National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Uncommon	Native	Yes	No
ACAD	Acadia National Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	Beaked Hazelnut	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Present	Occasional	Native	Yes	No
ACAD	Acadia National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White Ash	Present	Occasional	Native	Yes	Yes
ACAD	Acadia National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green Ash	Present	Uncommon	Native	Yes	No
ACAD	Acadia National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black Huckleberry	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	Common Hop	Present	Uncommon	Native	Yes	No
ACAD	Acadia National Park	Asterales	Asteraceae	<i>Oclemena acuminata</i>	Whorled or Mountain Aster	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia Creeper, Woodbine	Present	Uncommon	Native	Yes	No
ACAD	Acadia National Park	Pinales	Pinaceae	<i>Pinus banksiana</i>	Jack Pine	Present	Uncommon	Native	Yes	No
ACAD	Acadia National Park	Pinales	Pinaceae	<i>Pinus rigida</i>	Pitch Pine	Present	Occasional	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ACAD	Acadia National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking Aspen	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet Cherry	Present	Unknown	Non-native	Yes	No
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Pin Cherry, Fire Cherry	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	Black Cherry	Present	Rare	Native	Yes	Yes
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	Choke Cherry	Present	Common	Native	Yes	No
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Common Blackberry	Present	Occasional	Native	Yes	Yes
ACAD	Acadia National Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	Large Pussy Willow	Present	Common	Native	Yes	No
ACAD	Acadia National Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	willow	Present	Occasional	Native	Yes	No
ACAD	Acadia National Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European Mountain Ash	Present	Occasional	Non-native	Yes	No
ACAD	Acadia National Park	Poales	Poaceae	<i>Spartina alterniflora</i>	Salt-water Cord Grass	Present	Occasional	Native	Yes	No
ACAD	Acadia National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	Snowberry	Present	Uncommon	Non-native	Yes	Yes
ACAD	Acadia National Park	Malvales	Malvaceae	<i>Tilia cordata</i>	Littleleaf Linden	Present	Uncommon	Non-native	Yes	No
ACAD	Acadia National Park	Malvales	Malvaceae	<i>Tilia platyphyllos</i>	Large-leaved Linden	Present	Uncommon	Non-native	Yes	No
ACAD	Acadia National Park	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	Witherod, Wild Raisin	Present	Common	Native	Yes	Yes
ACAD	Acadia National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i>	Highbush Cranberry	Present	Occasional	Non-native	Yes	Yes
AGFO	Agate Fossil Beds National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Unknown	Yes	No
AGFO	Agate Fossil Beds National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Rare	Native	Yes	No
AGFO	Agate Fossil Beds National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
AGFO	Agate Fossil Beds National Monument	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Uncommon	Non-native	Yes	No
ALAG	Alagnak Wild River	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> , <i>Achillea millefolium</i> var. <i>borealis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
ALAG	Alagnak Wild River	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Probably Present		Native	Yes	No
ALAG	Alagnak Wild River	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
ALAG	Alagnak Wild River	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Probably Present		Native	Yes	Yes
ALFL	Alibates Flint Quarries National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Probably Present		Non-native	Yes	No
ALFL	Alibates Flint Quarries National Monument	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Probably Present		Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Unknown	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Eupatorium rugosum</i>	white-snakeroot	Present	Common	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white-snakeroot	Present	Common	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	ground-nut	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ALPO	Allegheny Portage Railroad National Historic Site	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian-hemp	Present	Uncommon	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	catalpa	Present	Rare	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Rare	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Uncommon	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American filbert, American hazel	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Probably Present		Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	bonset	Present	Uncommon	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Uncommon	Native	Yes	Yes
				- <i>Aster macrophyllus</i>						
ALPO	Allegheny Portage Railroad National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash, red ash	Present	Unknown	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Abundant	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Oclemena acuminata</i>	mountain aster	Present	Uncommon	Native	Yes	Yes
				- <i>Aster acuminatus</i>						
ALPO	Allegheny Portage Railroad National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet-cicely	Present	Uncommon	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Pinales	Pinaceae	<i>Pinus banksiana</i>	jack pine	Present	Rare	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ALPO	Allegheny Portage Railroad National Historic Site	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Rare	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	pin cherry	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Abundant	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Uncommon	Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	common buckthorn	Present	Unknown	Non-native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	shining sumac	Present	Rare	Native	Yes	No
				- <i>Rhus copallina</i>						
ALPO	Allegheny Portage Railroad National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Unknown	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry, common blackberry	Present	Common	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Probably Present		Native	Yes	No
ALPO	Allegheny Portage Railroad National Historic Site	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	elderberry	Present	Uncommon	Native	Yes	Yes
				- <i>Sambucus canadensis</i>						
ALPO	Allegheny Portage Railroad National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Uncommon	Native	Yes	Yes
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Solidago altissima</i>	late goldenrod	Present	Common	Native	Yes	No
				- <i>Solidago canadensis</i> var. <i>scabra</i>						
ALPO	Allegheny Portage Railroad National Historic Site	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
AMIS	Amistad National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Uncommon	Native	Yes	No
AMIS	Amistad National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i> - <i>Platanus occidentalis palmeri</i>	sycamore	Present	Uncommon	Native	Yes	Yes
AMIS	Amistad National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix thurberi</i>	coyote willow	Present	Uncommon	Native	Yes	No
AMIS	Amistad National Recreation Area	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding willow	Present	Uncommon	Native	Yes	No
AMIS	Amistad National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
AMIS	Amistad National Recreation Area	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow tree	Present	Rare	Non-native	Yes	Yes
ANAC	Anacostia Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
ANAC	Anacostia Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Native	Yes	No
ANAC	Anacostia Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Common	Non-native	Yes	Yes
ANAC	Anacostia Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	SWAMP MILKWEED	Probably Present		Native	Yes	No
ANAC	Anacostia Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Uncommon	Native	Yes	Yes
ANAC	Anacostia Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
ANAC	Anacostia Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	BUTTONBUSH	Probably Present		Native	Yes	No
ANAC	Anacostia Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
ANAC	Anacostia Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ANAC	Anacostia Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
ANAC	Anacostia Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
ANAC	Anacostia Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
ANAC	Anacostia Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Probably Present		Native	Yes	Yes
ANAC	Anacostia Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
ANAC	Anacostia Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
				- <i>Sambucus canadensis</i>						
ANIA	Aniakchak National Monument and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Unknown	Yes	No
				- <i>Achillea borealis</i> , <i>Achillea millefolium</i> var. <i>borealis</i>						
ANIA	Aniakchak National Monument and Preserve	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Unknown	Native	Yes	Yes
ANTI	Antietam National Battlefield	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore maple	Present	Unknown	Non-native	Yes	No
ANTI	Antietam National Battlefield	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Common	Native	Yes	Yes
ANTI	Antietam National Battlefield	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Uncommon	Non-native	Yes	Yes
ANTI	Antietam National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	milkweed	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Rare	Non-native	Yes	No
ANTI	Antietam National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
ANTI	Antietam National Battlefield	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Uncommon	Native	Yes	Yes
ANTI	Antietam National Battlefield	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
ANTI	Antietam National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
ANTI	Antietam National Battlefield	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
ANTI	Antietam National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip tree	Present	Uncommon	Native	Yes	Yes
ANTI	Antietam National Battlefield	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet cicely	Present	Unknown	Native	Yes	No
ANTI	Antietam National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
ANTI	Antietam National Battlefield	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
ANTI	Antietam National Battlefield	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
ANTI	Antietam National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Rare	Non-native	Yes	No
ANTI	Antietam National Battlefield	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	pin-cherry	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
ANTI	Antietam National Battlefield	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
ANTI	Antietam National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Rare	Native	Yes	No
ANTI	Antietam National Battlefield	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Rare	Native	Yes	Yes
ANTI	Antietam National Battlefield	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
ANTI	Antietam National Battlefield	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Rare	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Milfoil, Yarrow	Present	Unknown	Non-native	Yes	No
APCO	Appomattox Court House National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	White snakeroot	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Copal-tree, Tree of heaven	Present	Unknown	Non-native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	Judas tree, Redbud	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering dogwood	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly pine	Present	Unknown	Non-native	Yes	No
APCO	Appomattox Court House National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
APCO	Appomattox Court House National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
				- <i>Sambucus canadensis</i>						
APCO	Appomattox Court House National Historical Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
APCO	Appomattox Court House National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	Ironweed, New York ironweed	Present	Unknown	Native	Yes	No
APCO	Appomattox Court House National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox grape	Present	Unknown	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Probably Present		Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Common	Native	Yes	Yes
				- <i>Alnus incana</i>						
APIS	Apostle Islands National Lakeshore	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Abundant	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Uncommon	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgins bower	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
APIS	Apostle Islands National Lakeshore	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Abundant	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bigleaf aster	Present	Common	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet cicely	Present	Rare	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus inserta</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Pinales	Pinaceae	<i>Pinus banksiana</i>	jack pine	Present	Common	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Rosales	Rosaceae	<i>Prunus americana</i>	wild plum	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Uncommon	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Probably Present		Non-native	Yes	No
APIS	Apostle Islands National Lakeshore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Rare	Non-native	Yes	No
APIS	Apostle Islands National Lakeshore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Present	Common	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
APIS	Apostle Islands National Lakeshore	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Common	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Rare	Native	Yes	Yes
APIS	Apostle Islands National Lakeshore	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Common	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Non-native	Yes	No
APIS	Apostle Islands National Lakeshore	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Common	Native	Yes	No
APIS	Apostle Islands National Lakeshore	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Probably Present		Native	Yes	No
APPA	Appalachian National Scenic Trail	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
APPA	Appalachian National Scenic Trail	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder, speckled alder	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
APPA	Appalachian National Scenic Trail	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Krigia montana</i>	mountain dwarf dandelion	Probably Present		Unknown	Yes	No
APPA	Appalachian National Scenic Trail	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Oclemena acuminata</i>	whorled wood aster	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Pinales	Pinaceae	<i>Pinus banksiana</i>	Jack Pine	Present	Unknown	Unknown	Yes	No
APPA	Appalachian National Scenic Trail	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
APPA	Appalachian National Scenic Trail	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
APPA	Appalachian National Scenic Trail	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
APPA	Appalachian National Scenic Trail	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
APPA	Appalachian National Scenic Trail	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
ARCH	Arches National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
ARCH	Arches National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Uncommon	Non-native	Yes	No
ARCH	Arches National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Uncommon	Native	Yes	No
ARPO	Arkansas Post National Memorial	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Probably Present		Native	Yes	Yes
ARPO	Arkansas Post National Memorial	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset - <i>Eupatorium perfoliatum</i> var. <i>perfoliatum</i>	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ARPO	Arkansas Post National Memorial	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Probably Present		Native	Yes	Yes
ARPO	Arkansas Post National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>serotina</i>	black cherry, black chokecherry	Probably Present		Native	Yes	Yes
ARPO	Arkansas Post National Memorial	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
ARPO	Arkansas Post National Memorial	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Probably Present		Native	Yes	Yes
ASIS	Assateague Island National Seashore	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Rare	Native	Yes	No
ASIS	Assateague Island National Seashore	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Uncommon	Native	Yes	No
ASIS	Assateague Island National Seashore	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Rare	Non-native	Yes	Yes
ASIS	Assateague Island National Seashore	Fabales	Fabaceae	<i>Apios americana</i>	ground-nut, wild bean	Present	Uncommon	Native	Yes	Yes
ASIS	Assateague Island National Seashore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp, dogbane	Present	Uncommon	Native	Yes	No
ASIS	Assateague Island National Seashore	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	white sage	Present	Rare	Non-native	Yes	Yes
ASIS	Assateague Island National Seashore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Rare	Native	Yes	Yes
ASIS	Assateague Island National Seashore	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Common	Native	Yes	Yes
ASIS	Assateague Island National Seashore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Unknown	Yes	No
ASIS	Assateague Island National Seashore	Cornales	Cornaceae	<i>Cornus florida</i>	dogwood	Present	Rare	Native	Yes	No
ASIS	Assateague Island National Seashore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	huckleberry	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
ASIS	Assateague Island National Seashore	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No
ASIS	Assateague Island National Seashore	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Uncommon	Unknown	Yes	Yes
ASIS	Assateague Island National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
ASIS	Assateague Island National Seashore	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Rare	Native	Yes	No
ASIS	Assateague Island National Seashore	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Abundant	Native	Yes	No
ASIS	Assateague Island National Seashore	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Uncommon	Native	Yes	No
ASIS	Assateague Island National Seashore	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Rare	Native	Yes	Yes
ASIS	Assateague Island National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Abundant	Native	Yes	Yes
ASIS	Assateague Island National Seashore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Rare	Native	Yes	No
ASIS	Assateague Island National Seashore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Unknown	Yes	Yes
ASIS	Assateague Island National Seashore	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Common	Native	Yes	No
ASIS	Assateague Island National Seashore	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
ASIS	Assateague Island National Seashore	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
ASIS	Assateague Island National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	cordgrass	Present	Abundant	Native	Yes	No
ASIS	Assateague Island National Seashore	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Unknown	Yes	Yes
ASIS	Assateague Island National Seashore	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Unknown	Yes	No
AZRU	Aztec Ruins National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
AZRU	Aztec Ruins National Monument	Rosales	Moraceae	<i>Morus nigra</i>	black mulberry	Present	Uncommon	Non-native	Yes	No
AZRU	Aztec Ruins National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
AZRU	Aztec Ruins National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No
AZRU	Aztec Ruins National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Abundant	Native	Yes	No
AZRU	Aztec Ruins National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Common	Native	Yes	No
BADL	Badlands National Park	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> var. <i>occidentalis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Unknown	Yes	No
BADL	Badlands National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
BADL	Badlands National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
BADL	Badlands National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Probably Present		Native	Yes	No
BADL	Badlands National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Uncommon	Native	Yes	Yes
BADL	Badlands National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
BADL	Badlands National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
BADL	Badlands National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Uncommon	Native	Yes	Yes
BADL	Badlands National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No
BADL	Badlands National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Probably Present		Native	Yes	Yes
BAND	Bandelier National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
BAND	Bandelier National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Uncommon	Native	Yes	Yes
BAND	Bandelier National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BAND	Bandelier National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Present	Uncommon	Native	Yes	No
BAND	Bandelier National Monument	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
BAND	Bandelier National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Non-native	Yes	No
BAND	Bandelier National Monument	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>ampla</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
BAND	Bandelier National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i> var. <i>exigua</i>	coyote willow, narrowleaf willow	Present	Uncommon	Native	Yes	No
BELA	Bering Land Bridge National Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
BELA	Bering Land Bridge National Preserve	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Probably Present		Native	Yes	No
BEOL	Bent's Old Fort National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
BEOL	Bent's Old Fort National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Non-native	Yes	No
BEOL	Bent's Old Fort National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Abundant	Native	Yes	No
BIBE	Big Bend National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
BIBE	Big Bend National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
BIBE	Big Bend National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
BIBE	Big Bend National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
BIBE	Big Bend National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
BIBE	Big Bend National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
BIBE	Big Bend National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
BIBE	Big Bend National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading dogbane	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BICA	Bighorn Canyon National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>	Indian-hemp	Present	Common	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Uncommon	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Pinales	Pinaceae	<i>Pinus ponderosa</i> - <i>Pinus ponderosa</i> var. <i>scopulorum</i>	Ponderosa pine	Present	Abundant	Native	Yes	Yes
BICA	Bighorn Canyon National Recreation Area	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Uncommon	Native	Yes	Yes
BICA	Bighorn Canyon National Recreation Area	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Rosales	Rosaceae	<i>Rubus parviflorus</i>	Western thimble-berry	Present	Uncommon	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>ampla</i> - <i>Rudbeckia laciniata</i>	Green-head coneflower	Present	Uncommon	Native	Yes	Yes
BICA	Bighorn Canyon National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i> var. <i>exigua</i> - <i>Salix exigua</i>	coyote willow, narrowleaf willow	Present	Abundant	Native	Yes	No
BICA	Bighorn Canyon National Recreation Area	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i> var. <i>albus</i> - <i>Symphoricarpos albus</i>	Common snowberry	Present	Common	Native	Yes	Yes
BICY	Big Cypress National Preserve	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Uncommon	Native	Yes	Yes
BICY	Big Cypress National Preserve	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Rare	Native	Yes	No
BICY	Big Cypress National Preserve	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Rare	Native	Yes	Yes
BICY	Big Cypress National Preserve	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
BICY	Big Cypress National Preserve	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
BICY	Big Cypress National Preserve	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
BIHO	Big Hole National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Uncommon	Native	Yes	No
BIHO	Big Hole National Battlefield	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	Black twin-berry	Present	Rare	Native	Yes	No
BIHO	Big Hole National Battlefield	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	TWINBERRY HONEYSUCKLE	Present	Unknown	Native	Yes	No
BIHO	Big Hole National Battlefield	Pinales	Pinaceae	<i>Pinus ponderosa</i>	PONDEROSA PINE	Present	Uncommon	Native	Yes	Yes
BIHO	Big Hole National Battlefield	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	QUAKING ASPEN	Present	Uncommon	Native	Yes	Yes
BIHO	Big Hole National Battlefield	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Uncommon	Native	Yes	Yes
BIHO	Big Hole National Battlefield	Ericales	Ericaceae	<i>Vaccinium membranaceum</i> - <i>Vaccinium globulare</i>	mountain bilberry, thinleaf huckleberry	Present	Unknown	Native	Yes	Yes
BISC	Biscayne National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Rare	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple, White maple, Soft Maple, River Maple	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-Heaven	Present	Unknown	Non-native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Common Trumpet Creeper	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern Catalpa	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Button Bush	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BISO	Big South Fork National River and Recreation Area	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud, Judas Tree	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virgins Bower	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogwood	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Fagales	Betulaceae	<i>Corylus americana</i>	Hazel Nut	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	American Ash, White Ash	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green Ash, Red Ash	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black Huckleberry	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweet Gum	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip poplar, Tulip tree, Yellow poplar	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	Maleberry, Male-blueberry	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia Creeper, Woodbine	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia Pine, Scrub Pine	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore, Buttonwood	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BISO	Big South Fork National River and Recreation Area	Rosales	Rosaceae	<i>Prunus americana</i>	American plum, Wild Plum	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i>	Black Cherry	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Common Blackberry	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>digitata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
BISO	Big South Fork National River and Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum lantana</i>	wayfaringtree	Present	Unknown	Non-native	Yes	No
BISO	Big South Fork National River and Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i> - <i>Viburnum cassinoides</i>	possumhaw, withe-rod	Present	Unknown	Native	Yes	Yes
BISO	Big South Fork National River and Recreation Area	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape, Foxgrape	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BITH	Big Thicket National Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Common	Native	Yes	Yes
BITH	Big Thicket National Preserve	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Uncommon	Native	Yes	Yes
BITH	Big Thicket National Preserve	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed, sage, gray sage, Louisiana sage, Louisiana wormwood, mugwort, wormwood, prairie sage, white sagebrush	Present	Rare	Non-native	Yes	Yes
BITH	Big Thicket National Preserve	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
BITH	Big Thicket National Preserve	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Uncommon	Native	Yes	Yes
BITH	Big Thicket National Preserve	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
BITH	Big Thicket National Preserve	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
BITH	Big Thicket National Preserve	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
BITH	Big Thicket National Preserve	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
BITH	Big Thicket National Preserve	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No
BITH	Big Thicket National Preserve	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Abundant	Native	Yes	No
BITH	Big Thicket National Preserve	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Uncommon	Native	Yes	Yes
BITH	Big Thicket National Preserve	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Uncommon	Native	Yes	Yes
BITH	Big Thicket National Preserve	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BITH	Big Thicket National Preserve	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Rare	Native	Yes	Yes
BITH	Big Thicket National Preserve	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Common	Native	Yes	No
BITH	Big Thicket National Preserve	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Rare	Native	Yes	No
BITH	Big Thicket National Preserve	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Common	Native	Yes	Yes
BITH	Big Thicket National Preserve	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
BITH	Big Thicket National Preserve	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Uncommon	Native	Yes	No
BITH	Big Thicket National Preserve	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Common	Non-native	Yes	Yes
BLCA	Black Canyon of the Gunnison National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Probably Present		Non-native	Yes	Yes
BLCA	Black Canyon of the Gunnison National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Present	Abundant	Native	Yes	No
BLCA	Black Canyon of the Gunnison National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
BLCA	Black Canyon of the Gunnison National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Uncommon	Native	Yes	Yes
BLCA	Black Canyon of the Gunnison National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	Coyote willow	Present	Common	Native	Yes	No
BLRI	Blue Ridge Parkway	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Achillea millefolium</i>	Achillea	Present	Unknown	Non-native	Yes	No
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	COMMON WHITE SNAKEROOT	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BLRI	Blue Ridge Parkway	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
BLRI	Blue Ridge Parkway	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild Sarsparilla	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Fagales	Betulaceae	<i>Betula pubescens</i>	downy birch	Present	Unknown	Non-native	Yes	No
BLRI	Blue Ridge Parkway	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virgins Bower	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Boneset	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	large-leaved aster	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus americana</i> var. <i>americana</i>	White Ash	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	red ash	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Huckleberry	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Krigia montana</i>	mountain dwarf dandelion	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i> - <i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	MALEBERRY	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Oclemena acuminata</i> - <i>Aster acuminatus</i>	whorled wood aster	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet cicely	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolius</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Pinales	Pinaceae	<i>Pinus pungens</i>	TABLE MOUNTAIN PINE	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	QUAKING ASPEN	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Prunus pensylvanica</i> - <i>Prunus pennsylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Prunus serotina</i>	Black Cherry, wild black cherry	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
BLRI	Blue Ridge Parkway	Fabales	Fabaceae	<i>Robinia pseudoacacia</i> - <i>Robinia pseudo-acacia</i>	Black Locust	Present	Common	Native	Yes	No
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Blackberry	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Rosales	Rosaceae	<i>Rubus canadensis</i>	BLACKBERRY	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Coneflower, cut-leaved coneflower, green coneflower	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Malpighiales	Salicaceae	<i>Salix sericea</i>	Silky Willow	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Lurales	Lauraceae	<i>Sassafras albidum</i> - <i>Sassafras variifolium</i>	Sassafras	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	Virgina cup-plant	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Solidago altissima</i>	Tall Goldenrod	Present	Unknown	Native	Yes	No
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Verbesina	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Asterales	Asteraceae	<i>Vernonia noveboracensis</i> - <i>Vernonia novaeboracensis</i>	New York Ironweed	Present	Unknown	Unknown	Yes	No
BLRI	Blue Ridge Parkway	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	possumhaw	Present	Unknown	Native	Yes	Yes
BLRI	Blue Ridge Parkway	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i> - <i>Viburnum opulus</i> var. <i>roseum</i>	European cranberrybush	Present	Unknown	Non-native	Yes	Yes
BLRI	Blue Ridge Parkway	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> var. <i>occidentalis</i>	common yarrow	Present	Common	Non-native	Yes	No
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Ageratina altissima</i> , <i>Eupatorium rugosum</i>										
BLUE	Bluestone National Scenic River	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Uncommon	Native	Yes	No
- <i>Apocynum sibiricum</i>										
BLUE	Bluestone National Scenic River	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Uncommon	Native	Yes	No
BLUE	Bluestone National Scenic River	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
BLUE	Bluestone National Scenic River	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Uncommon	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Uncommon	Non-native	Yes	No
BLUE	Bluestone National Scenic River	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Common	Native	Yes	No
BLUE	Bluestone National Scenic River	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Common	Native	Yes	No
BLUE	Bluestone National Scenic River	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
BLUE	Bluestone National Scenic River	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Uncommon	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Uncommon	Native	Yes	Yes
- <i>Aster macrophyllus</i>										
BLUE	Bluestone National Scenic River	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Abundant	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
BLUE	Bluestone National Scenic River	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Uncommon	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Abundant	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot	Present	Common	Native	Yes	No
BLUE	Bluestone National Scenic River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
BLUE	Bluestone National Scenic River	Pinales	Pinaceae	<i>Pinus pungens</i>	table mountain pine	Present	Unknown	Native	Yes	No
BLUE	Bluestone National Scenic River	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
BLUE	Bluestone National Scenic River	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Common	Native	Yes	No
BLUE	Bluestone National Scenic River	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BLUE	Bluestone National Scenic River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
BLUE	Bluestone National Scenic River	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Abundant	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Common	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Abundant	Native	Yes	No
BLUE	Bluestone National Scenic River	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i> - <i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Common	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
BLUE	Bluestone National Scenic River	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Uncommon	Native	Yes	No
BLUE	Bluestone National Scenic River	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	common elderberry	Present	Common	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Solidago altissima</i>	late goldenrod	Present	Unknown	Native	Yes	No
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Uncommon	Native	Yes	Yes
BLUE	Bluestone National Scenic River	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
BLUE	Bluestone National Scenic River	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Unknown	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore, sycamore maple	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BOHA	Boston Harbor Islands National Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Unknown	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain-ash, rowan, rowan-berry	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Unknown	Native	Yes	Yes
BOHA	Boston Harbor Islands National Recreation Area	Malvales	Malvaceae	<i>Tilia cordata</i>	littleleaf linden	Present	Unknown	Non-native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
BOHA	Boston Harbor Islands National Recreation Area	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
BOWA	Booker T. Washington National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BOWA	Booker T. Washington National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree of heaven	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Catawba tree, Northern Catalpa	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering dogwood	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black huckleberry	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip poplar, Tulip tree	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly pine	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Pinales	Pinaceae	<i>Pinus virginiana</i>	Scrub pine, Virginia pine	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	Wild black cherry	Present	Unknown	Unknown	Yes	Yes
BOWA	Booker T. Washington National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Unknown	Unknown	Yes	No
BOWA	Booker T. Washington National Monument	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Unknown	Unknown	Yes	Yes
BRCA	Bryce Canyon National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Probably Present		Native	Yes	No
BRCA	Bryce Canyon National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
BRCA	Bryce Canyon National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Uncommon	Native	Yes	Yes
BUFF	Buffalo National River	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BUFF	Buffalo National River	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Native	Yes	No
BUFF	Buffalo National River	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Common	Non-native	Yes	Yes
BUFF	Buffalo National River	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Common	Native	Yes	No
BUFF	Buffalo National River	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i> - <i>Clematis virginiana</i> var. <i>missouriensis</i>	devil's darnig needles, devil's-darning-needles, Virginia bower, virgin's bower	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
BUFF	Buffalo National River	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Uncommon	Native	Yes	Yes
BUFF	Buffalo National River	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
BUFF	Buffalo National River	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Common	Native	Yes	No
BUFF	Buffalo National River	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No
BUFF	Buffalo National River	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
BUFF	Buffalo National River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
BUFF	Buffalo National River	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Abundant	Native	Yes	Yes
BUFF	Buffalo National River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Fabales	Fabaceae	<i>Robinia pseudoacacia</i> - <i>Robinia pseudo-acacia</i>	black locust, false acacia, yellow locust	Present	Common	Native	Yes	No
BUFF	Buffalo National River	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Probably Present		Native	Yes	Yes
BUFF	Buffalo National River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i> - <i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
BUFF	Buffalo National River	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Common	Native	Yes	Yes
BUFF	Buffalo National River	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
CACH	Canyon De Chelly National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Rare	Native	Yes	No
CACH	Canyon De Chelly National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i> - <i>Oenothera elata</i> ssp. <i>hirsutissima</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
CACH	Canyon De Chelly National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Abundant	Native	Yes	Yes
CACH	Canyon De Chelly National Monument	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Occasional	Non-native	Yes	No
CACH	Canyon De Chelly National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
CACH	Canyon De Chelly National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
CACH	Canyon De Chelly National Monument	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Occasional	Native	Yes	No
CACH	Canyon De Chelly National Monument	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
CACH	Canyon De Chelly National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Abundant	Native	Yes	No
CACH	Canyon De Chelly National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Rare	Native	Yes	No
CACO	Cape Cod National Seashore	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Non-native	Yes	No
CACO	Cape Cod National Seashore	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Occasional	Non-native	Yes	Yes
CACO	Cape Cod National Seashore	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus rugosa</i>	speckled alder	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
CACO	Cape Cod National Seashore	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Uncommon	Native	Yes	Yes
CACO	Cape Cod National Seashore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Uncommon	Native	Yes	No
CACO	Cape Cod National Seashore	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Abundant	Native	Yes	No
CACO	Cape Cod National Seashore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Occasional	Non-native	Yes	No
CACO	Cape Cod National Seashore	Fagales	Betulaceae	<i>Betula pubescens</i> - <i>Betula alba</i> var. <i>pubescens</i>	white birch	Present	Unknown	Non-native	Yes	No
CACO	Cape Cod National Seashore	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet-creeper	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
CACO	Cape Cod National Seashore	Asterales	Asteraceae	<i>Centaurea nigra</i>	black knapweed	Present	Common	Non-native	Yes	No
CACO	Cape Cod National Seashore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Common	Native	Yes	No
CACO	Cape Cod National Seashore	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Present	Rare	Native	Yes	Yes
CACO	Cape Cod National Seashore	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Rare	Native	Yes	Yes
CACO	Cape Cod National Seashore	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Common	Native	Yes	No
CACO	Cape Cod National Seashore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Abundant	Native	Yes	Yes
CACO	Cape Cod National Seashore	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop	Present	Unknown	Non-native	Yes	No
CACO	Cape Cod National Seashore	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
CACO	Cape Cod National Seashore	Pinales	Pinaceae	<i>Pinus banksiana</i>	jack pine	Present	Occasional	Native	Yes	No
CACO	Cape Cod National Seashore	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Abundant	Native	Yes	No
CACO	Cape Cod National Seashore	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire-cherry	Present	Uncommon	Native	Yes	Yes
CACO	Cape Cod National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Abundant	Native	Yes	Yes
CACO	Cape Cod National Seashore	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke-cherry	Present	Rare	Native	Yes	No
CACO	Cape Cod National Seashore	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	common buckthorn	Present	Occasional	Non-native	Yes	No
CACO	Cape Cod National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	winged sumac	Present	Common	Native	Yes	No
				- <i>Rhus copallina</i>						
CACO	Cape Cod National Seashore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Non-native	Yes	No
				- <i>Robinia pseudo-acacia</i>						
CACO	Cape Cod National Seashore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy-willow	Present	Common	Native	Yes	No
CACO	Cape Cod National Seashore	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Native	Yes	No
CACO	Cape Cod National Seashore	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Occasional	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
CACO	Cape Cod National Seashore	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	Present	Uncommon	Native	Yes	Yes
CACO	Cape Cod National Seashore	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	smooth cordgrass	Present	Abundant	Native	Yes	No
CACO	Cape Cod National Seashore	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Unknown	Native	Yes	No
CACO	Cape Cod National Seashore	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i> - <i>Viburnum cassinoides</i>	withe-rod	Present	Common	Native	Yes	Yes
CACO	Cape Cod National Seashore	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox-grape	Present	Common	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
CAHA	Cape Hatteras National Seashore	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed, sage, gray sage, Louisiana sage, Louisiana wormwood, mugwort, wormwood, prairie sage, white sagebrush	Present	Unknown	Non-native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CAHA	Cape Hatteras National Seashore	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Non-native	Yes	No
CAHA	Cape Hatteras National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Non-native	Yes	No
CAHA	Cape Hatteras National Seashore	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CAHA	Cape Hatteras National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
CAHA	Cape Hatteras National Seashore	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
CAHA	Cape Hatteras National Seashore	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
CALO	Cape Lookout National Seashore	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i> - <i>Ailanthus glandulosa</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
CALO	Cape Lookout National Seashore	Fabales	Fabaceae	<i>Apios americana</i> - <i>Apios tuberosa</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
CALO	Cape Lookout National Seashore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
CALO	Cape Lookout National Seashore	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Ampelopsis quinquefolia</i> , <i>Pseodera quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
CALO	Cape Lookout National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
CALO	Cape Lookout National Seashore	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CALO	Cape Lookout National Seashore	Laurales	Lauraceae	<i>Sassafras albidum</i> - <i>Sassafras variifolium</i>	sassafras	Present	Unknown	Native	Yes	Yes
CALO	Cape Lookout National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i> - <i>Spartina glabra</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
CALO	Cape Lookout National Seashore	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
CANA	Canaveral National Seashore	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Rare	Native	Yes	Yes
CANA	Canaveral National Seashore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
CANA	Canaveral National Seashore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No
CANA	Canaveral National Seashore	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Native	Yes	No
CANA	Canaveral National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
CANA	Canaveral National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Abundant	Native	Yes	No
CANA	Canaveral National Seashore	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Common	Native	Yes	Yes
CANA	Canaveral National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Uncommon	Native	Yes	No
CANY	Canyonlands National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
CANY	Canyonlands National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i> - <i>Asclepias fascicularis</i>	Swamp milkweed	Probably Present		Native	Yes	No
CANY	Canyonlands National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Uncommon	Native	Yes	No
CARE	Capitol Reef National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
CARE	Capitol Reef National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i> - <i>Amelanchier alnifolia</i> var. <i>pumila</i>	Saskatoon serviceberry	Present	Uncommon	Native	Yes	No
CARE	Capitol Reef National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
CARE	Capitol Reef National Park	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Uncommon	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CARE	Capitol Reef National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Showy catalpa	Present	Uncommon	Non-native	Yes	No
CARE	Capitol Reef National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Uncommon	Non-native	Yes	Yes
CARE	Capitol Reef National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Uncommon	Non-native	Yes	No
CARE	Capitol Reef National Park	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera hookeri</i>	Western evening-primrose	Probably Present		Native	Yes	Yes
CARE	Capitol Reef National Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	Black poplar	Present	Uncommon	Non-native	Yes	No
CARE	Capitol Reef National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Uncommon	Native	Yes	Yes
CARE	Capitol Reef National Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet cherry	Present	Uncommon	Non-native	Yes	No
CARE	Capitol Reef National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Uncommon	Non-native	Yes	No
CARE	Capitol Reef National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i> - <i>Salix nigra</i>	Goodding's black willow	Present	Uncommon	Native	Yes	No
CARE	Capitol Reef National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	Snowball-bush	Present	Uncommon	Non-native	Yes	No
CARE	Capitol Reef National Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	Northern fox grape	Present	Uncommon	Non-native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow, Yarrow	Present	Unknown	Non-native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree of Heaven	Present	Unknown	Non-native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading dogbane	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Gentianales	Apocynaceae	<i>Asclepias incarnata</i> - <i>Asclepias incarnata</i> ssp. <i>pulchra</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
CARL	Carl Sandburg Home National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
				- <i>Cercis canadensis</i> var. <i>canadensis</i>						
CARL	Carl Sandburg Home National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Unknown	Native	Yes	No
				- <i>Eupatorium perfoliatum</i> var. <i>perfoliatum</i>						
CARL	Carl Sandburg Home National Historic Site	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
				- <i>Aster macrophyllus</i>						
CARL	Carl Sandburg Home National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present		Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia Pine	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CARL	Carl Sandburg Home National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallinum</i> var. <i>latifolia</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
CARL	Carl Sandburg Home National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
CARL	Carl Sandburg Home National Historic Site	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
CASA	Castillo De San Marcos National Monument	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
CASA	Castillo De San Marcos National Monument	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Native	Yes	No
CASA	Castillo De San Marcos National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Rare	Native	Yes	No
CATO	Catoctin Mountain Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow (common)	Present	Unknown	Non-native	Yes	No
CATO	Catoctin Mountain Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
CATO	Catoctin Mountain Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
CATO	Catoctin Mountain Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	prairie dogbane	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	tall milkweed	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CATO	Catoctin Mountain Park	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Probably Present		Non-native	Yes	No
CATO	Catoctin Mountain Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virginia bower	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	western hazel	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus americana</i> var. <i>biltmoreana</i>	white ash	Present	Unknown	Native	Yes	Yes
CATO	Catoctin Mountain Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
CATO	Catoctin Mountain Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	hops	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	yellow-poplar	Present	Unknown	Native	Yes	Yes
CATO	Catoctin Mountain Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet-cicely	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Probably Present		Non-native	Yes	No
CATO	Catoctin Mountain Park	Pinales	Pinaceae	<i>Pinus pungens</i>	Table Mountain pine	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CATO	Catoctin Mountain Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
CATO	Catoctin Mountain Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black chokecherry	Present	Unknown	Native	Yes	Yes
CATO	Catoctin Mountain Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	Virginia chokecherry	Present	Unknown	Native	Yes	No
CATO	Catoctin Mountain Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	yellow locust	Present	Unknown	Native	Yes	No
				- <i>Robinia pseudo-acacia</i>						
CATO	Catoctin Mountain Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	green-head coneflower	Probably Present		Native	Yes	Yes
CATO	Catoctin Mountain Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Probably Present		Native	Yes	No
CATO	Catoctin Mountain Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Probably Present		Native	Yes	Yes
				- <i>Sambucus canadensis</i>						
CATO	Catoctin Mountain Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
				- <i>Sassafras albidum</i> var. <i>molle</i>						
CATO	Catoctin Mountain Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Probably Present		Native	Yes	Yes
CAVE	Carlsbad Caverns National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	ailanthus, tree of heaven	Present	Unknown	Non-native	Yes	Yes
CAVE	Carlsbad Caverns National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, hemp dogbane	Present	Unknown	Native	Yes	No
CAVE	Carlsbad Caverns National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	white sagebrush, gray sagewort, prairie sage	Present	Unknown	Native	Yes	Yes
CAVE	Carlsbad Caverns National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	red ash, green ash	Present	Unknown	Native	Yes	No
CAVE	Carlsbad Caverns National Park	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose	Present	Unknown	Native	Yes	Yes
CAVE	Carlsbad Caverns National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
CAVE	Carlsbad Caverns National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	ponderosa pine, western yellow pine	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
CAVE	Carlsbad Caverns National Park	Malpighiales	Salicaceae	<i>Populus nigra</i> - <i>Populus nigra</i> var. <i>italica</i>	Lombardy poplar	Present	Unknown	Non-native	Yes	No
CAVE	Carlsbad Caverns National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
CAVE	Carlsbad Caverns National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
CAVO	Capulin Volcano National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
CAVO	Capulin Volcano National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
CAVO	Capulin Volcano National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
CAVO	Capulin Volcano National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
CAVO	Capulin Volcano National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
CEBR	Cedar Breaks National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Probably Present		Native	Yes	No
CEBR	Cedar Breaks National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Probably Present		Native	Yes	No
CEBR	Cedar Breaks National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	Black twinberry	Present	Uncommon	Native	Yes	No
CEBR	Cedar Breaks National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Common	Native	Yes	Yes
CEBR	Cedar Breaks National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
CHAM	Chamizal National Memorial	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present		Native	Yes	No
CHAM	Chamizal National Memorial	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present		Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CHAT	Chattahoochee River National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Uncommon	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Common	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Abundant	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Uncommon	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Abundant	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Abundant	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Abundant	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Uncommon	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Uncommon	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
				- <i>Fraxinus americana</i> var. <i>americana</i>						
CHAT	Chattahoochee River National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Abundant	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Uncommon	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
CHAT	Chattahoochee River National Recreation Area	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Abundant	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Common	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Abundant	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Common	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Abundant	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Abundant	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Uncommon	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Common	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i>	Chinese Tallow Tree	Present	Rare	Non-native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Common	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
CHAT	Chattahoochee River National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	possumhaw, withe-rod	Present	Uncommon	Native	Yes	Yes
CHAT	Chattahoochee River National Recreation Area	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	COMMON YARROW	Present	Unknown	Non-native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Ageratina altissima</i> var. <i>altissima</i>										
CHCH	Chickamauga and Chattanooga National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	TREE-OF-HEAVEN	Present	Unknown	Non-native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	KANSAS MILKWEED	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	TRUMPET-CREEPER	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present		Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	EASTERN REDBUD	Present	Unknown	Native	Yes	Yes
- <i>Cercis canadensis</i> var. <i>canadensis</i>										
CHCH	Chickamauga and Chattanooga National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	VIRGINIA VIRGIN-BOWER	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	FLOWERING DOGWOOD	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Unknown	Native	Yes	No
- <i>Eupatorium perfoliatum</i> var. <i>perfoliatum</i>										
CHCH	Chickamauga and Chattanooga National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	WHITE ASH	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	STIFF-HAIR SUNFLOWER	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	SWEET GUM	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	TULIP TREE	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	VIRGINIA CREEPER	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	LOBLOLLY PINE	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CHCH	Chickamauga and Chattanooga National Military Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	VIRGINIA PINE	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	SYCAMORE	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Rosales	Rosaceae	<i>Prunus avium</i>	SWEET CHERRY	Present	Unknown	Non-native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	FIRE CHERRY	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i>	WILD BLACK CHERRY	Present	Unknown	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						
CHCH	Chickamauga and Chattanooga National Military Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	CHOKE CHERRY	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	FRAGRANT SUMAC	Present	Unknown	Native	Yes	Yes
				- <i>Rhus aromatica</i> var. <i>aromatica</i>						
CHCH	Chickamauga and Chattanooga National Military Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	WINGED SUMAC	Present	Unknown	Native	Yes	No
				- <i>Rhus copallina</i>						
CHCH	Chickamauga and Chattanooga National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	BLACK LOCUST	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	ALLEGHENY BLACKBERRY	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	BLACK WILLOW	Present	Unknown	Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	SASSAFRAS	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
CHCH	Chickamauga and Chattanooga National Military Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present		Native	Yes	No
CHCH	Chickamauga and Chattanooga National Military Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	NORTHERN FOX GRAPE	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CHCU	Chaco Culture National Historical Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
CHCU	Chaco Culture National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
CHCU	Chaco Culture National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
CHCU	Chaco Culture National Historical Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
CHCU	Chaco Culture National Historical Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	soft maple	Present	Uncommon	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Uncommon	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane, smooth dogbane	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Uncommon	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Uncommon	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Uncommon	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Abundant	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CHIC	Chickasaw National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Uncommon	Native	Yes	Yes
CHIC	Chickasaw National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
CHIC	Chickasaw National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	american elder, elderberry	Present	Uncommon	Native	Yes	Yes
CHIR	Chiricahua National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
CHIR	Chiricahua National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
CHIR	Chiricahua National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i> , <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>	white sagebrush	Present	Unknown	Native	Yes	Yes
CHIR	Chiricahua National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
CHIR	Chiricahua National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera elata</i> ssp. <i>hirsutissima</i> , <i>Oenothera elata</i> ssp. <i>hookeri</i> , <i>Oenothera hookeri</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
CHIR	Chiricahua National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
				- <i>Parthenocissus inserta</i>						
CHIR	Chiricahua National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	ponderosa pine	Present	Uncommon	Native	Yes	Yes
CHIR	Chiricahua National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
				- <i>Populus tremuloides</i> var. <i>aurea</i>						
CHIR	Chiricahua National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>rufula</i> , <i>Prunus serotina</i> var. <i>virens</i> , <i>Prunus virens</i>						
CHIR	Chiricahua National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
CHIR	Chiricahua National Monument	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	squawbush	Present	Unknown	Native	Yes	Yes
				- <i>Rhus aromatica</i> var. <i>aromatica</i>						
CHIR	Chiricahua National Monument	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Unknown	Native	Yes	No
				- <i>Rubus parviflorus</i> var. <i>parviflorus</i>						
CHIR	Chiricahua National Monument	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
CHIR	Chiricahua National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present		Native	Yes	No
CHIR	Chiricahua National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
				- <i>Salix gooddingii</i> var. <i>variabilis</i>						
CHIS	Channel Islands National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Common	Native	Yes	No
				- <i>Achillea borealis</i> , <i>Achillea borealis</i> ssp. <i>arenicola</i> , <i>Achillea borealis</i> ssp. <i>californica</i> , <i>Achillea millefolium</i> var. <i>californica</i>						
CHIS	Channel Islands National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	mugwort	Present	Uncommon	Native	Yes	Yes
CHIS	Channel Islands National Park	Fagales	Fagaceae	<i>Quercus kelloggii</i>	California black oak	Present	Rare	Native	Yes	No
CHIS	Channel Islands National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Non-native	Yes	No
CHIS	Channel Islands National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	sand-bar willow	Present	Uncommon	Native	Yes	No
				- <i>Salix hindsiana</i>						



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
CHOH	Chesapeake and Ohio Canal National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Probably Present		Non-native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i> , <i>Eupatorium urticifolium</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Fabales	Fabaceae	<i>Apios americana</i> - <i>Glycine apios</i>	AMERICAN WILD BEAN	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum pubescens</i> , <i>Apocynum sibiricum</i>	INDIAN HEMP	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	SWAMP MILKWEED	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	COMMON MILKWEED	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i> - <i>Bignonia radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	VIRGIN'S BOWER	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	COMMON BONESET	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Fraxinus pennsylvanica</i> var. <i>lanceolata</i>										
CHOH	Chesapeake and Ohio Canal National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	HAIRY SWEET CICELY	Present	Common	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	scrub pine	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	SWEET CHERRY	Present	Unknown	Non-native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	WILD BLACK CHERRY	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Probably Present		Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	tall coneflower	Present	Unknown	Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	BLACK WILLOW	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
- <i>Sambucus canadensis</i>										
CHOH	Chesapeake and Ohio Canal National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Probably Present		Native	Yes	Yes
- <i>Sassafras officinale</i>										
CHOH	Chesapeake and Ohio Canal National Historical Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	SNOWBERRY	Probably Present		Native	Yes	Yes
CHOH	Chesapeake and Ohio Canal National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
CHOH	Chesapeake and Ohio Canal National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CHPI	Charles Pinckney National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern catalpa	Present	Unknown	Non-native	Yes	No
CHPI	Charles Pinckney National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering dogwood	Present	Unknown	Native	Yes	No
CHPI	Charles Pinckney National Historic Site	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweetgum	Present	Unknown	Native	Yes	No
CHPI	Charles Pinckney National Historic Site	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly pine	Present	Unknown	Native	Yes	No
CHPI	Charles Pinckney National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, Sycamore	Present	Unknown	Native	Yes	Yes
CHPI	Charles Pinckney National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Unknown	Native	Yes	Yes
CHPI	Charles Pinckney National Historic Site	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Unknown	Non-native	Yes	Yes
CHPI	Charles Pinckney National Historic Site	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Yellow crownbeard	Present	Unknown	Native	Yes	Yes
CIRO	City Of Rocks National Reserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	serviceberry	Present	Unknown	Native	Yes	No
CIRO	City Of Rocks National Reserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
CIRO	City Of Rocks National Reserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
COLM	Colorado National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
COLM	Colorado National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Uncommon	Native	Yes	Yes
COLM	Colorado National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	Coyote willow	Present	Common	Native	Yes	No
COLM	Colorado National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Rare	Native	Yes	No
COLO	Colonial National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Unknown	Native	Yes	No
COLO	Colonial National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow	Present	Common	Native	Yes	No
COLO	Colonial National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Abundant	Non-native	Yes	Yes
COLO	Colonial National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	Groundnut	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian-hemp	Present	Abundant	Native	Yes	No
COLO	Colonial National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp Milkweed	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
COLO	Colonial National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet-creeper	Present	Abundant	Native	Yes	Yes
COLO	Colonial National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern Catalpa	Present	Unknown	Native	Yes	No
COLO	Colonial National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Common Buttonbush	Present	Common	Native	Yes	No
COLO	Colonial National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Present	Unknown	Native	Yes	Yes
				- <i>Cercis canadensis</i> var. <i>canadensis</i>						
COLO	Colonial National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogwood	Present	Abundant	Native	Yes	No
COLO	Colonial National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White Ash	Present	Unknown	Native	Yes	Yes
				- <i>Fraxinus americana</i> var. <i>americana</i>						
COLO	Colonial National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green Ash	Present	Common	Native	Yes	No
COLO	Colonial National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black Huckleberry	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweet-gum	Present	Abundant	Native	Yes	No
COLO	Colonial National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tuliptree	Present	Abundant	Native	Yes	Yes
COLO	Colonial National Historical Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Hairy Sweet-cicely	Present	Unknown	Native	Yes	No
COLO	Colonial National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Present	Common	Native	Yes	No
				- <i>Parthenocissus inserta</i>						
COLO	Colonial National Historical Park	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly Pine	Present	Abundant	Native	Yes	No
COLO	Colonial National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia Pine	Present	Common	Native	Yes	No
COLO	Colonial National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American Sycamore	Present	Common	Native	Yes	Yes
COLO	Colonial National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet Cherry	Present	Unknown	Non-native	Yes	No
COLO	Colonial National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	Black Cherry	Present	Common	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						
COLO	Colonial National Historical Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	Winged Sumac	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Rhus copallina</i>										
COLO	Colonial National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Uncommon	Native	Yes	No
- <i>Robinia pseudo-acacia</i>										
COLO	Colonial National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny Blackberry	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	Sand Blackberry	Present	Unknown	Native	Yes	No
COLO	Colonial National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
COLO	Colonial National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Unknown	Native	Yes	No
- <i>Salix nigra</i> var. <i>nigra</i>										
COLO	Colonial National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Uncommon	Native	Yes	Yes
COLO	Colonial National Historical Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canadian Goldenrod	Present	Unknown	Unknown	Yes	No
COLO	Colonial National Historical Park	Poales	Poaceae	<i>Spartina alterniflora</i>	Saltwater Cord Grass	Present	Unknown	Native	Yes	No
COLO	Colonial National Historical Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Yellow Crownbeard	Present	Abundant	Native	Yes	Yes
COLO	Colonial National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York Ironweed	Present	Common	Native	Yes	No
- <i>Vernonia noveboracensis</i> var. <i>noveboracensis</i>										
COLO	Colonial National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
CONG	Congaree National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	SILVER MAPLE	Present	Abundant	Native	Yes	No
CONG	Congaree National Park	Fabales	Fabaceae	<i>Apios americana</i>	AMERICAN GROUNDNUT	Present	Uncommon	Native	Yes	Yes
CONG	Congaree National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
CONG	Congaree National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	TRUMPET-CREEPER	Present	Abundant	Native	Yes	Yes
CONG	Congaree National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Uncommon	Native	Yes	No
CONG	Congaree National Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Present	Common	Native	Yes	Yes
CONG	Congaree National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virginia virgin-bower	Present	Common	Native	Yes	No
CONG	Congaree National Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
CONG	Congaree National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CONG	Congaree National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Abundant	Native	Yes	No
CONG	Congaree National Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No
CONG	Congaree National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Present	Rare	Native	Yes	Yes
CONG	Congaree National Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Rare	Native	Yes	Yes
CONG	Congaree National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	virginia creeper	Present	Abundant	Native	Yes	No
CONG	Congaree National Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Common	Native	Yes	No
CONG	Congaree National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Abundant	Native	Yes	Yes
CONG	Congaree National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	wild black cherry	Present	Common	Native	Yes	Yes
CONG	Congaree National Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
CONG	Congaree National Park	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Present	Common	Native	Yes	Yes
CONG	Congaree National Park	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Common	Native	Yes	No
CONG	Congaree National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Abundant	Native	Yes	No
CONG	Congaree National Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
CONG	Congaree National Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
CONG	Congaree National Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Abundant	Native	Yes	Yes
CONG	Congaree National Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
CORO	Coronado National Memorial	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
CORO	Coronado National Memorial	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	white sagebrush	Present	Unknown	Native	Yes	Yes
				- <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>						
CORO	Coronado National Memorial	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
CORO	Coronado National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
				- <i>Prunus serotina</i> ssp. <i>virens</i> , <i>Prunus serotina</i> var. <i>rufula</i> , <i>Prunus serotina</i> var. <i>virens</i>						
CORO	Coronado National Memorial	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CORO	Coronado National Memorial	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No
COWP	Cowpens National Battlefield	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
COWP	Cowpens National Battlefield	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Unknown	Non-native	Yes	No
COWP	Cowpens National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Unknown	Native	Yes	Yes
				- <i>Cercis canadensis</i> var. <i>canadensis</i>						
COWP	Cowpens National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
				- <i>Aster macrophyllus</i>						
COWP	Cowpens National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present		Native	Yes	No
COWP	Cowpens National Battlefield	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
COWP	Cowpens National Battlefield	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Prunus serotina</i> var. <i>serotina</i>										
COWP	Cowpens National Battlefield	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
- <i>Rhus copallina</i>										
COWP	Cowpens National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
COWP	Cowpens National Battlefield	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant	Present	Unknown	Native	Yes	No
COWP	Cowpens National Battlefield	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
CRLA	Crater Lake National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	milfoil, Yarrow	Present	Unknown	Native	Yes	No
CRLA	Crater Lake National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Dogbane, Dogbane Mountain Hemp, flytrap or bitter dogbane	Present	Unknown	Native	Yes	Yes
CRLA	Crater Lake National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	Black Twinberry	Present	Unknown	Native	Yes	No
CRLA	Crater Lake National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	bearberry honeysuckle, black twinberry, Sweet-berry Honeysuckle	Present	Unknown	Native	Yes	No
CRLA	Crater Lake National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	Ponderosa Pine, Western Yellow Pine, Yellow-ponderosa Pine	Present	Uncommon	Native	Yes	Yes
CRLA	Crater Lake National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i> var. <i>ponderosa</i>	ponderosa pine	Present	Unknown	Native	Yes	Yes
CRLA	Crater Lake National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
CRLA	Crater Lake National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, Thimble-berry	Present	Unknown	Native	Yes	No
CRLA	Crater Lake National Park	Malpighiales	Salicaceae	<i>Salix exigua</i> var. <i>exigua</i>	Narrowleaf willow, coyote willow	Present		Native	Yes	No
- <i>Salix exigua</i> ssp. <i>exigua</i>										
CRLA	Crater Lake National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's Willow	Present	Unknown	Native	Yes	Yes
CRLA	Crater Lake National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	blue elderberry	Present	Unknown	Native	Yes	Yes
CRLA	Crater Lake National Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Unknown	Native	Yes	Yes
CRLA	Crater Lake National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	Snowberry	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
CRLA	Crater Lake National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	Big Huckleberry, thin-leaved or big huckleberry	Present	Unknown	Native	Yes	Yes
CRMO	Craters of the Moon National Monument and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present		Native	Yes	No
CRMO	Craters of the Moon National Monument and Preserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Uncommon	Native	Yes	No
CRMO	Craters of the Moon National Monument and Preserve	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Uncommon	Native	Yes	Yes
CRMO	Craters of the Moon National Monument and Preserve	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
CRMO	Craters of the Moon National Monument and Preserve	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera elata</i> var. <i>hirsutissima</i> , <i>Oenothera hookeri</i> var. <i>hirsutissima</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Rare	Native	Yes	Yes
CRMO	Craters of the Moon National Monument and Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
CRMO	Craters of the Moon National Monument and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Ageratina altissima</i> var. <i>altissima</i> , <i>Ageratina altissima</i> var. <i>roanensis</i> , <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	American groundnut	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian-hemp	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CUGA	Cumberland Gap National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virginia virgin-bower	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	stiff-hair sunflower	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweet gum	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip tree	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Oclemena acuminata</i>	whorled wood aster	Present	Unknown	Native	Yes	Yes
				- <i>Aster acuminatus</i>						
CUGA	Cumberland Gap National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet-cicely	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CUGA	Cumberland Gap National Historical Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	winged sumac	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sawtooth blackberry	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cut-leaved coneflower	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
CUGA	Cumberland Gap National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i> - <i>Viburnum cassinoides</i>	possumhaw	Present	Unknown	Native	Yes	Yes
CUGA	Cumberland Gap National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CUGA	Cumberland Gap National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
CUIS	Cumberland Island National Seashore	Lamiales	Bignoniaceae	<i>Campsis radicans</i> - <i>Bignonia radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Non-native	Yes	Yes
CUIS	Cumberland Island National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	Black cherry	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
CUIS	Cumberland Island National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
CUIS	Cumberland Island National Seashore	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
CURE	Curecanti National Recreation Area	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Present	Abundant	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CURE	Curecanti National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading dogbane	Present	Uncommon	Native	Yes	Yes
CURE	Curecanti National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
CURE	Curecanti National Recreation Area	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Common	Native	Yes	Yes
CURE	Curecanti National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	Coyote willow	Present	Common	Native	Yes	No
CURE	Curecanti National Recreation Area	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Rare	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Rare	Non-native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Rare	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Fagales	Betulaceae	<i>Betula pendula</i>	European birch	Present	Rare	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Rare	Non-native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern Catalpa	Present	Occasional	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CUVA	Cuyahoga Valley National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn	Probably Present		Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Uncommon	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Unknown	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus inserta</i>	virginia creeper	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	European Mock-Orange	Probably Present		Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	chokecherry	Present	Unknown	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Common	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> - <i>Rudbeckia laciniata</i> var. <i>laciniata</i>	cutleaf coneflower, green- head coneflower	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Rare	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i> - <i>Sambucus pubens</i>	European red elder, red elderberry, scarlet elderberry	Present	Uncommon	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
CUVA	Cuyahoga Valley National Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod, field goldenrod	Present	Common	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i> - <i>Pyrus aucuparia</i>	European mountain-ash, rowan, rowan-berry	Present	Unknown	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Dipsacales	Adoxaceae	<i>Viburnum lantana</i>	wayfaring tree, wayfaringtree	Present	Unknown	Non-native	Yes	No
CUVA	Cuyahoga Valley National Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Uncommon	Native	Yes	No
CUVA	Cuyahoga Valley National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i>	European cranberrybush	Present	Uncommon	Non-native	Yes	Yes
CUVA	Cuyahoga Valley National Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
DENA	Denali National Park and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> var. <i>borealis</i> , <i>Achillea millefolium</i> var. <i>millefolium</i> , <i>Achillea millefolium</i> var. <i>occidentalis</i>	Common Yarrow	Present	Unknown	Native	Yes	No
DENA	Denali National Park and Preserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Probably Present		Native	Yes	No
DENA	Denali National Park and Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
DENA	Denali National Park and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
DENA	Denali National Park and Preserve	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i> - <i>Sambucus racemosa</i> var. <i>racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Unknown	Native	Yes	Yes
DEPO	Devils Postpile National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea lanulosa</i> , <i>Achillea lanulosa</i> ssp. <i>alpicola</i>	yarrow	Present	Common	Native	Yes	No
DEPO	Devils Postpile National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitter dogbane	Present	Common	Native	Yes	Yes
DEPO	Devils Postpile National Monument	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	mugwort	Present	Common	Native	Yes	Yes
DEPO	Devils Postpile National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present		Native	Yes	No
DEPO	Devils Postpile National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
DEPO	Devils Postpile National Monument	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	jeffrey pine	Present	Common	Native	Yes	Yes
DEPO	Devils Postpile National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
DEPO	Devils Postpile National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
DETO	Devils Tower National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i> - <i>Amelanchier alnifolia</i> var. <i>alnifolia</i>	juneberry, Saskatoon serviceberry	Present	Unknown	Native	Yes	No
DETO	Devils Tower National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
DETO	Devils Tower National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
DETO	Devils Tower National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
DETO	Devils Tower National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
DETO	Devils Tower National Monument	Rosales	Rosaceae	<i>Prunus americana</i>	wild plum	Present	Unknown	Native	Yes	No
DETO	Devils Tower National Monument	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus trilobata</i>	skunkbush	Present	Unknown	Native	Yes	Yes
DETO	Devils Tower National Monument	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i> - <i>Symphoricarpos albus</i> var. <i>albus</i>	snowberry, white coralberry	Present	Unknown	Native	Yes	Yes
DETO	Devils Tower National Monument	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Unknown	Native	Yes	No
DEVA	Death Valley National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present		Non-native	Yes	Yes
DEVA	Death Valley National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i> - <i>Artemisia douglasiana</i>	mugwort	Present	Unknown	Native	Yes	Yes
DEVA	Death Valley National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i>	white sagebrush	Present	Common	Native	Yes	Yes
DEVA	Death Valley National Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	Lombardy poplar	Probably Present		Non-native	Yes	No
DEVA	Death Valley National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Non-native	Yes	No
DEVA	Death Valley National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrow-leaved willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
DEVA	Death Valley National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i> - <i>Salix gooddingii</i> var. <i>gooddingii</i>	Goodding's black willow	Present	Unknown	Native	Yes	No
DEVA	Death Valley National Park	Malpighiales	Salicaceae	<i>Salix nigra</i> - <i>Salix nigra venulosa</i>	Black willow	Probably Present		Unknown	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Common	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Ageratina altissima</i>	White snakeroot	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	White snakeroot	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus rugosa</i>	Speckled alder	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	Ground-nut	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Pink dogbane	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	Indian hemp	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild sarsaparilla	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Poke milkweed	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
DEWA	Delaware Water Gap National Recreation Area	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet-vine	Present	Unknown	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Catalpa	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Centaurea nigra</i>	Black knapweed	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Fabales	Fabaceae	<i>Cercis canadensis</i>	Eastern redbud	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Devil's-darning-needle	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering dogwood	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Fagales	Betulaceae	<i>Corylus americana</i>	American filbert	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Fagales	Betulaceae	<i>Corylus cornuta</i>	Beaked hazelnut	Probably Present		Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Crataegus monogyna</i>	English hawthorn	Present	Unknown	Non-native	Yes	No
				- <i>Crataegus oxyacantha</i>						
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Boneset	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	Bigleaf aster	Present	Uncommon	Native	Yes	Yes
				- <i>Aster macrophyllus</i>						
DEWA	Delaware Water Gap National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Red ash	Present	Uncommon	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black huckleberry	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweet-gum	Present	Uncommon	Unknown	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tuliptree	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	Maleberry	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Oclemena acuminata</i>	Whorled wood aster	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Aster acuminatus</i>										
DEWA	Delaware Water Gap National Recreation Area	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Sweet-cicely	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	Mock-orange	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Pinales	Pinaceae	<i>Pinus rigida</i>	Pitch pine	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Populus nigra</i>	Lombardy poplar	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Prunus americana</i>	Wild plum	Present	Unknown	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet cherry	Present	Uncommon	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Pin cherry	Present	Unknown	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i>	Wild black cherry	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	Choke cherry	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Buckthorn	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	winged sumac	Present	Uncommon	Native	Yes	No
- <i>Rhus copallina</i>										
DEWA	Delaware Water Gap National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Common blackberry	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Rosales	Rosaceae	<i>Rubus canadensis</i>	Smooth blackberry	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Cutleaf coneflower	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix alba</i>	White willow	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix discolor</i>	Pussy willow	Present	Unknown	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar willow	Present	Rare	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix lucida</i>	Shining willow	Present	Unknown	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black willow	Present	Uncommon	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix purpurea</i>	Basket willow	Present	Unknown	Non-native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Malpighiales	Salicaceae	<i>Salix sericea</i>	Silky willow	Present	Unknown	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	Common elderberry	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	Red-berried elder	Present	Uncommon	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Common	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	Canada goldenrod	Present	Common	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	Snowberry	Present	Unknown	Native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	Nannyberry	Present	Unknown	Native	Yes	No
DEWA	Delaware Water Gap National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	possumhaw, withe-rod	Present	Unknown	Unknown	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i> - <i>Viburnum opulus</i>	European Cranberrybush	Present	Unknown	Non-native	Yes	Yes
DEWA	Delaware Water Gap National Recreation Area	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox grape	Present	Common	Native	Yes	Yes
DINO	Dinosaur National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Amelanchier pallida</i> , <i>Amelanchier pumila</i>										
DINO	Dinosaur National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
DINO	Dinosaur National Monument	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
DINO	Dinosaur National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i>	Western evening-primrose	Present	Uncommon	Native	Yes	Yes
DINO	Dinosaur National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Common	Native	Yes	Yes
DINO	Dinosaur National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
DRT0	Dry Tortugas National Park	Fabales	Fabaceae	<i>Ceratonia siliqua</i>	carob, St. John's bread	Present	Rare	Non-native	Yes	No
EBLA	Ebey's Landing National Historical Reserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Native	Yes	No
EBLA	Ebey's Landing National Historical Reserve	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Uncommon	Native	Yes	Yes
EBLA	Ebey's Landing National Historical Reserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Unknown	Native	Yes	No
EBLA	Ebey's Landing National Historical Reserve	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Unknown	Native	Yes	No
EBLA	Ebey's Landing National Historical Reserve	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Uncommon	Native	Yes	No
EBLA	Ebey's Landing National Historical Reserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
EBLA	Ebey's Landing National Historical Reserve	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Common	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Common	Native	Yes	No
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Unknown	Native	Yes	No
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Ageratina altissima</i>	Tall ageratina	Present	Unknown	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Common	Native	Yes	Yes
- <i>Eupatorium rugosum</i>										



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
EFMO	Effigy Mounds National Monument	Fabales	Fabaceae	<i>Apios americana</i>	Common ground-nut	Present	Common	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading dogbane	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Hemp dogbane	Present	Unknown	Native	Yes	No
EFMO	Effigy Mounds National Monument	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild sarsaparilla	Present	Abundant	Native	Yes	No
EFMO	Effigy Mounds National Monument	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Tall milkweed	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
EFMO	Effigy Mounds National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Unknown	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Uncommon	Native	Yes	No
EFMO	Effigy Mounds National Monument	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virgin's bower	Present	Rare	Native	Yes	No
EFMO	Effigy Mounds National Monument	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
EFMO	Effigy Mounds National Monument	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Abundant	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Ash	Present	Abundant	Native	Yes	No
				- <i>Fraxinus pennsylvanica</i> var. <i>lanceolata</i>						
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Uncommon	Native	Yes	No
EFMO	Effigy Mounds National Monument	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Bland sweet cicely	Present	Abundant	Native	Yes	No
EFMO	Effigy Mounds National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper, woodbine	Present	Unknown	Native	Yes	No
EFMO	Effigy Mounds National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Aspen, quaking aspen	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Rosales	Rosaceae	<i>Prunus americana</i>	Wild plum	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
EFMO	Effigy Mounds National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	Wild black cherry	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	Choke-cherry	Present	Uncommon	Native	Yes	No
EFMO	Effigy Mounds National Monument	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Common buckthorn	Present	Rare	Non-native	Yes	No
EFMO	Effigy Mounds National Monument	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Common blackberry	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
EFMO	Effigy Mounds National Monument	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black willow	Present	Uncommon	Native	Yes	No
EFMO	Effigy Mounds National Monument	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	Cup-plant	Present	Unknown	Native	Yes	No
EFMO	Effigy Mounds National Monument	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	Sheepberry, nannyberry	Present	Rare	Native	Yes	No
EISE	Eisenhower National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
EISE	Eisenhower National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Abundant	Non-native	Yes	No
EISE	Eisenhower National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Common	Non-native	Yes	Yes
EISE	Eisenhower National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian-hemp	Present	Common	Native	Yes	No
EISE	Eisenhower National Historic Site	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
EISE	Eisenhower National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	catalpa	Present	Uncommon	Non-native	Yes	No
EISE	Eisenhower National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's-bower	Present	Common	Native	Yes	No
EISE	Eisenhower National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Uncommon	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Common	Native	Yes	No
EISE	Eisenhower National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
EISE	Eisenhower National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Present	Common	Native	Yes	No
EISE	Eisenhower National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
EISE	Eisenhower National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Uncommon	Native	Yes	No
EISE	Eisenhower National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Present	Common	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
EISE	Eisenhower National Historic Site	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	elderberry	Present	Common	Native	Yes	Yes
EISE	Eisenhower National Historic Site	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	late goldenrod	Present	Common	Native	Yes	No
ELMA	EI Malpais National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
ELMA	EI Malpais National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
ELMA	EI Malpais National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
ELMA	EI Malpais National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
ELMA	EI Malpais National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
ELMO	EI Morro National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Unknown	Native	Yes	Yes
ELMO	EI Morro National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ELRO	Eleanor Roosevelt National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Unknown	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
ELRO	Eleanor Roosevelt National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Non-native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
ELRO	Eleanor Roosevelt National Historic Site	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
ELRO	Eleanor Roosevelt National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
EUON	Eugene O'Neill National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Unknown	Native	Yes	No
EUON	Eugene O'Neill National Historic Site	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	California mugwort	Present	Unknown	Native	Yes	Yes
EUON	Eugene O'Neill National Historic Site	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Unknown	Yes	No
EUON	Eugene O'Neill National Historic Site	Fagales	Fagaceae	<i>Quercus kelloggii</i>	Black oak	Present	Unknown	Native	Yes	No
EUON	Eugene O'Neill National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Non-native	Yes	No
EVER	Everglades National Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Rare	Native	Yes	Yes
EVER	Everglades National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Rare	Native	Yes	No
				- <i>Asclepias incarnata</i> ssp. <i>incarnata</i>						
EVER	Everglades National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
EVER	Everglades National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
EVER	Everglades National Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallinum</i> var. <i>leucantha</i>	flameleaf sumac, shining sumac, winged sumac	Present	Uncommon	Native	Yes	No
EVER	Everglades National Park	Poales	Poaceae	<i>Spartina alterniflora</i> - <i>Spartina alterniflora</i> var. <i>glabra</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Rare	Native	Yes	No
FIIS	Fire Island National Seashore	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Abundant	Non-native	Yes	No
FIIS	Fire Island National Seashore	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	TREE-OF-HEAVEN	Probably Present		Non-native	Yes	Yes
FIIS	Fire Island National Seashore	Fabales	Fabaceae	<i>Apios americana</i>	GROUND-NUT	Present	Rare	Native	Yes	Yes
FIIS	Fire Island National Seashore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, INDIAN HEMP	Present	Occasional	Native	Yes	No
FIIS	Fire Island National Seashore	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
FIIS	Fire Island National Seashore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	COMMON MILKWEED	Present	Common	Native	Yes	Yes
FIIS	Fire Island National Seashore	Cornales	Cornaceae	<i>Cornus florida</i>	FLOWERING DOGWOOD	Present	Uncommon	Native	Yes	No
FIIS	Fire Island National Seashore	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Common	Native	Yes	No
FIIS	Fire Island National Seashore	Lamiales	Oleaceae	<i>Fraxinus americana</i>	WHITE ASH	Present	Rare	Non-native	Yes	Yes
FIIS	Fire Island National Seashore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
FIIS	Fire Island National Seashore	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	STAGGERBUSH	Present	Rare	Native	Yes	Yes
FIIS	Fire Island National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>	VIRGINIA CREEPER	Present	Common	Native	Yes	No
FIIS	Fire Island National Seashore	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Common	Native	Yes	No
FIIS	Fire Island National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	BLACK CHERRY, WILD BLACK CHERRY	Present	Common	Native	Yes	Yes
FIIS	Fire Island National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i> , <i>Rhus copallina</i> var. <i>latifolia</i>	flameleaf sumac, shining sumac, winged sumac	Present	Common	Native	Yes	No
FIIS	Fire Island National Seashore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Non-native	Yes	No
FIIS	Fire Island National Seashore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	COMMON BLACKBERRY	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FIIS	Fire Island National Seashore	Malpighiales	Salicaceae	<i>Salix discolor</i> - <i>Salix discolor</i> var. <i>latifolia</i>	pussy willow	Present	Rare	Native	Yes	No
FIIS	Fire Island National Seashore	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
FIIS	Fire Island National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	smooth cordgrass	Present	Common	Native	Yes	No
FIIS	Fire Island National Seashore	Vitales	Vitaceae	<i>Vitis labrusca</i>	FOX GRAPE	Present	Common	Native	Yes	Yes
FLFO	Florissant Fossil Beds National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
FLFO	Florissant Fossil Beds National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Common	Native	Yes	Yes
FLFO	Florissant Fossil Beds National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Prairie Sage	Present	Unknown	Native	Yes	Yes
FLFO	Florissant Fossil Beds National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	Bush Honeysuckle	Present	Uncommon	Native	Yes	No
FLFO	Florissant Fossil Beds National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking Aspen	Present	Unknown	Native	Yes	Yes
FLFO	Florissant Fossil Beds National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow	Present	Unknown	Native	Yes	No
FOBO	Fort Bowie National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>	white sagebrush	Present	Unknown	Native	Yes	Yes
FOBO	Fort Bowie National Historic Site	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera elata</i> ssp. <i>hirsutissima</i> , <i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
FOBO	Fort Bowie National Historic Site	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
FOBO	Fort Bowie National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrowleaf willow	Present	Unknown	Native	Yes	No
FOBO	Fort Bowie National Historic Site	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
FOBU	Fossil Butte National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading dogbane	Present	Uncommon	Native	Yes	Yes
FOBU	Fossil Butte National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	Bearberry honeysuckle	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FOBU	Fossil Butte National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Common	Native	Yes	Yes
FOBU	Fossil Butte National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i> var. <i>exigua</i>	Coyote willow	Present	Uncommon	Native	Yes	No
FOBU	Fossil Butte National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler willow	Present	Uncommon	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
FOCA	Fort Caroline National Memorial	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
FOCA	Fort Caroline National Memorial	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Unknown	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FOCI	Fort Circle Parks	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore maple	Present	Common	Non-native	Yes	No
FOCI	Fort Circle Parks	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Non-native	Yes	No
FOCI	Fort Circle Parks	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Unknown	Native	Yes	Yes
FOCI	Fort Circle Parks	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
FOCI	Fort Circle Parks	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash or red ash	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
FOCI	Fort Circle Parks	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweet gum	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip popular	Present	Unknown	Native	Yes	Yes
FOCI	Fort Circle Parks	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Common	Native	Yes	No
FOCI	Fort Circle Parks	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
FOCI	Fort Circle Parks	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
FOCI	Fort Circle Parks	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
FOCI	Fort Circle Parks	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
FODA	Fort Davis National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Silver Wormwood	Present	Unknown	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Uncommon	Non-native	Yes	No
FODO	Fort Donelson National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Eupatorium rugosum</i>										
FODO	Fort Donelson National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Rare	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Common	Native	Yes	Yes
- <i>Campsis radicans</i>										
FODO	Fort Donelson National Battlefield	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	catalpa	Present	Uncommon	Native	Yes	No
- <i>Catalpa speciosa</i>										
FODO	Fort Donelson National Battlefield	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Abundant	Native	Yes	No
FODO	Fort Donelson National Battlefield	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Rare	Native	Yes	No
FODO	Fort Donelson National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
FODO	Fort Donelson National Battlefield	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Present	Uncommon	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	American Ash	Present	Uncommon	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Common	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
FODO	Fort Donelson National Battlefield	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FODO	Fort Donelson National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i> , <i>Rhus copallinum</i> var. <i>latifolia</i>	Shining Sumac	Present	Common	Native	Yes	No
FODO	Fort Donelson National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
FODO	Fort Donelson National Battlefield	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Uncommon	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
FODO	Fort Donelson National Battlefield	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
FOFR	Fort Frederica National Monument	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet creeper	Present	Unknown	Native	Yes	Yes
FOFR	Fort Frederica National Monument	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Probably Present		Non-native	Yes	No
FOFR	Fort Frederica National Monument	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Fabales	Fabaceae	<i>Cercis canadensis</i>	Eastern redbud	Present	Unknown	Native	Yes	Yes
FOFR	Fort Frederica National Monument	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering dogwood	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweetgum	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly pine	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, Sycamore	Present	Unknown	Native	Yes	Yes
FOFR	Fort Frederica National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FOFR	Fort Frederica National Monument	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	Winged sumac	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Probably Present		Native	Yes	No
FOFR	Fort Frederica National Monument	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
FOFR	Fort Frederica National Monument	Poales	Poaceae	<i>Spartina alterniflora</i>	Saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
FOFR	Fort Frederica National Monument	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Rare	Non-native	Yes	Yes
FOFR	Fort Frederica National Monument	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Yellow crownbeard	Present	Unknown	Native	Yes	Yes
FOLA	Fort Laramie National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane	Present	Unknown	Native	Yes	No
FOLA	Fort Laramie National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Unknown	Yes	No
FOLA	Fort Laramie National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Unknown	Yes	No
FOLA	Fort Laramie National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix exigua</i> var. <i>exigua</i>	sandbar willow	Present	Common	Native	Yes	No
FOLS	Fort Larned National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
FOLS	Fort Larned National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Occasional	Native	Yes	Yes
FOLS	Fort Larned National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Occasional	Native	Yes	Yes
FOLS	Fort Larned National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No
FOLS	Fort Larned National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Uncommon	Native	Yes	Yes
FOLS	Fort Larned National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>										
FOLS	Fort Larned National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
FOLS	Fort Larned National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No
FOLS	Fort Larned National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
FOMA	Fort Matanzas National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
FOMA	Fort Matanzas National Monument	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Common	Native	Yes	Yes
FOMA	Fort Matanzas National Monument	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Common	Native	Yes	No
FOMA	Fort Matanzas National Monument	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Common	Native	Yes	Yes
FOMA	Fort Matanzas National Monument	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i>	white-snakeroot	Present	Abundant	Native	Yes	Yes
- <i>Eupatorium rugosum</i>										
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white-snakeroot	Present	Abundant	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
FONE	Fort Necessity National Battlefield	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Rare	Native	Yes	Yes
- <i>Alnus rugosa</i>										
FONE	Fort Necessity National Battlefield	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	pink dogbane	Present	Unknown	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian-hemp	Present	Unknown	Native	Yes	No
FONE	Fort Necessity National Battlefield	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FONE	Fort Necessity National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's-bower	Present	Uncommon	Native	Yes	No
FONE	Fort Necessity National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	lowering dogwood	Present	Uncommon	Native	Yes	No
FONE	Fort Necessity National Battlefield	Fagales	Betulaceae	<i>Corylus americana</i>	American filbert	Present	Unknown	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Uncommon	Native	Yes	No
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash, red ash	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Common	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet-cicely	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Unknown	Yes	No
FONE	Fort Necessity National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Abundant	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Uncommon	Native	Yes	No
FONE	Fort Necessity National Battlefield	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	shining sumac	Present	Uncommon	Native	Yes	No
FONE	Fort Necessity National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
FONE	Fort Necessity National Battlefield	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry, common blackberry	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
FONE	Fort Necessity National Battlefield	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	elderberry	Present	Rare	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	late goldenrod	Present	Common	Native	Yes	No
FONE	Fort Necessity National Battlefield	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Probably Present		Native	Yes	No
FONE	Fort Necessity National Battlefield	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Unknown	Native	Yes	No
FOPO	Fort Point National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Abundant	Native	Yes	No
FOPO	Fort Point National Historic Site	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Rare	Native	Yes	Yes
FOPU	Fort Pulaski National Monument	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
FOPU	Fort Pulaski National Monument	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
FOPU	Fort Pulaski National Monument	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
FOPU	Fort Pulaski National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
FOPU	Fort Pulaski National Monument	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
FOPU	Fort Pulaski National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
FOPU	Fort Pulaski National Monument	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
FOPU	Fort Pulaski National Monument	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
FOPU	Fort Pulaski National Monument	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
FOPU	Fort Pulaski National Monument	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
FOPU	Fort Pulaski National Monument	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Unknown	Non-native	Yes	Yes
FOSU	Fort Sumter National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
FOSU	Fort Sumter National Monument	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
FOSU	Fort Sumter National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
FOSU	Fort Sumter National Monument	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
FOSU	Fort Sumter National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
FOSU	Fort Sumter National Monument	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
FOSU	Fort Sumter National Monument	Poales	Poaceae	<i>Spartina alterniflora</i>	Saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
FOUN	Fort Union National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
FOUN	Fort Union National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
FOUS	Fort Union Trading Post National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
FOUS	Fort Union Trading Post National Historic Site	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	serviceberry	Present	Uncommon	Native	Yes	No
FOUS	Fort Union Trading Post National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Common	Native	Yes	No
FOUS	Fort Union Trading Post National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort	Present	Common	Native	Yes	Yes
FOUS	Fort Union Trading Post National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
FOUS	Fort Union Trading Post National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	wild plum	Present	Uncommon	Native	Yes	No
FOUS	Fort Union Trading Post National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Uncommon	Native	Yes	No
FOUS	Fort Union Trading Post National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	slender willow	Present	Abundant	Native	Yes	No
FOVA	Fort Vancouver National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
FOVA	Fort Vancouver National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet Vine	Present	Rare	Non-native	Yes	Yes
FOVA	Fort Vancouver National Historic Site	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Present	Uncommon	Non-native	Yes	No
FOVA	Fort Vancouver National Historic Site	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Common	Non-native	Yes	Yes
FOVA	Fort Vancouver National Historic Site	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Non-native	Yes	No
FOVA	Fort Vancouver National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Non-native	Yes	No
FOVA	Fort Vancouver National Historic Site	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
FOVA	Fort Vancouver National Historic Site	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Uncommon	Native	Yes	Yes
FOWA	Fort Washington Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	YARROW	Probably Present		Native	Yes	No
FOWA	Fort Washington Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	TREE-OF-HEAVEN	Probably Present		Non-native	Yes	Yes
FOWA	Fort Washington Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Unknown	Native	Yes	No
FOWA	Fort Washington Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	VIRGIN'S BOWER	Probably Present		Native	Yes	No
FOWA	Fort Washington Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly-pine	Present	Rare	Native	Yes	No
FOWA	Fort Washington Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Unknown	Yes	No
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Unknown	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white-snakeroot	Present	Abundant	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	ground-nut	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	pink dogbane	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Probably Present		Native	Yes	No
FRHI	Friendship Hill National Historic Site	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	catalpa	Present	Unknown	Non-native	Yes	No
FRHI	Friendship Hill National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Uncommon	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's-bower	Present	Uncommon	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Uncommon	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American filbert	Probably Present		Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Unknown	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Non-native	Yes	No
FRHI	Friendship Hill National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FRHI	Friendship Hill National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet-cicely	Present	Unknown	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Present	Common	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Probably Present		Native	Yes	No
FRHI	Friendship Hill National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	wild black cherry	Present	Common	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	buckthorn	Probably Present		Non-native	Yes	No
FRHI	Friendship Hill National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Unknown	Yes	No
FRHI	Friendship Hill National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry, common blackberry	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	elderberry	Present	Uncommon	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	late goldenrod	Present	Unknown	Native	Yes	No
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Unknown	Yes	Yes
FRHI	Friendship Hill National Historic Site	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Probably Present		Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Probably Present		Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Probably Present		Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Probably Present		Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
FRSP	Fredericksburg and Spotsylvania County Battlefields Memorial National Military Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	White snakeroot	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
FRST	First State National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	Groundnuts	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp, dogbane	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild sarsasparilla	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Poke milkweed	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet-creeper	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virgin's-bower	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering dogwood	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
FRST	First State National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Boneset	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	Common hops	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweet-gum	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip-tree	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	Maleberry	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Sweet cicely	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly pine	Present	Unknown	Non-native	Yes	No
FRST	First State National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet cherry	Present	Unknown	Non-native	Yes	No
FRST	First State National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Blackberry	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Green-headed coneflower	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black willow	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Unknown	Native	Yes	Yes
FRST	First State National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	Ironweed	Present	Unknown	Native	Yes	No
FRST	First State National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox grape	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GAAR	Gates of the Arctic National Park and Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
GAAR	Gates of the Arctic National Park and Preserve	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Present	Unknown	Native	Yes	No
GAAR	Gates of the Arctic National Park and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler Willow	Present	Unknown	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Ageratina altissima</i> , <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Uncommon	Non-native	Yes	Yes
GARI	Gauley River National Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
GARI	Gauley River National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GARI	Gauley River National Recreation Area	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Abundant	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Ericales	Ericaceae	<i>Lyonia ligustrina</i> var. <i>ligustrina</i> - <i>Lyonia ligustrina</i>	maleberry	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
GARI	Gauley River National Recreation Area	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Common	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Native	Yes	No
GARI	Gauley River National Recreation Area	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i> - <i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Common	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Malpighiales	Salicaceae	<i>Salix alba</i>	white willow	Present	Unknown	Non-native	Yes	No
GARI	Gauley River National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	common elderberry	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GARI	Gauley River National Recreation Area	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Uncommon	Native	Yes	Yes
GARI	Gauley River National Recreation Area	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
GARI	Gauley River National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Unknown	Native	Yes	No
GARI	Gauley River National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i> - <i>Viburnum cassinoides</i>	withe-rod	Present	Common	Native	Yes	Yes
GATE	Gateway National Recreation Area	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore maple	Present	Rare	Non-native	Yes	No
GATE	Gateway National Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Rare	Non-native	Yes	No
GATE	Gateway National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow, Yarrow	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Common	Non-native	Yes	Yes
GATE	Gateway National Recreation Area	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Common	Unknown	Yes	No
GATE	Gateway National Recreation Area	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild Sasparilla	Present	Unknown	Unknown	Yes	No
GATE	Gateway National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Unknown	Unknown	Yes	No
GATE	Gateway National Recreation Area	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Common	Native	Yes	Yes
GATE	Gateway National Recreation Area	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet creeper, Trumpet- creeper	Present	Uncommon	Non-native	Yes	Yes
GATE	Gateway National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Unknown	Native	Yes	No
GATE	Gateway National Recreation Area	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Present	Rare	Non-native	Yes	Yes
GATE	Gateway National Recreation Area	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogweed, Flowering dogwood	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GATE	Gateway National Recreation Area	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Boneset	Present	Uncommon	Native	Yes	No
GATE	Gateway National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White Ash	Present	Rare	Native	Yes	Yes
GATE	Gateway National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Unknown	Native	Yes	No
				- <i>Fraxinus pennsylvanica</i> var. <i>pennsylvanica</i>						
GATE	Gateway National Recreation Area	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black huckleberry	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweet Gum, Sweetgum	Present	Uncommon	Native	Yes	No
GATE	Gateway National Recreation Area	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
				- <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>						
GATE	Gateway National Recreation Area	Pinales	Pinaceae	<i>Pinus rigida</i>	Pitch pine	Present	Unknown	Native	Yes	No
GATE	Gateway National Recreation Area	Pinales	Pinaceae	<i>Pinus virginiana</i>	Scrub pine, Virginia Pine	Present	Unknown	Native	Yes	No
GATE	Gateway National Recreation Area	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American Sycamore, London plane tree	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Populus nigra</i>	Lombardy poplar	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking Aspen	Present	Uncommon	Native	Yes	Yes
GATE	Gateway National Recreation Area	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present		Non-native	Yes	No
GATE	Gateway National Recreation Area	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Fire cherry	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry, Wild Black Cherry	Present	Common	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						
GATE	Gateway National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Unknown	Native	Yes	No
GATE	Gateway National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	Fragrant sumac	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> var. <i>copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GATE	Gateway National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Northern blackberry, Sow-Teat Blackberry	Present	Uncommon	Native	Yes	Yes
GATE	Gateway National Recreation Area	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Rare	Non-native	Yes	Yes
GATE	Gateway National Recreation Area	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Probably Present		Unknown	Yes	No
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Salix alba</i>	white willow	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Salix discolor</i>	Pussy Willow	Present	Uncommon	Native	Yes	No
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar Willow	Present	Unknown	Native	Yes	No
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Rare	Native	Yes	No
GATE	Gateway National Recreation Area	Malpighiales	Salicaceae	<i>Salix viminalis</i>	basket willow, Silky osier	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present		Native	Yes	Yes
GATE	Gateway National Recreation Area	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Uncommon	Native	Yes	Yes
GATE	Gateway National Recreation Area	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain ash	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Poales	Poaceae	<i>Spartina alterniflora</i>	Cordgrass, Saltwater Cordgrass	Present	Common	Native	Yes	No
GATE	Gateway National Recreation Area	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Unknown	Native	Yes	Yes
GATE	Gateway National Recreation Area	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	Highbush Cranberry	Present	Unknown	Non-native	Yes	No
GATE	Gateway National Recreation Area	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox Grape	Present	Uncommon	Native	Yes	Yes
GETT	Gettysburg National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Non-native	Yes	No
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white-snakeroot	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
GETT	Gettysburg National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Common	Non-native	Yes	Yes
GETT	Gettysburg National Military Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	pink dogbane	Present	Uncommon	Native	Yes	Yes
GETT	Gettysburg National Military Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian-hemp	Present	Abundant	Native	Yes	No
GETT	Gettysburg National Military Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Abundant	Native	Yes	Yes
GETT	Gettysburg National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet-vine	Present	Uncommon	Native	Yes	Yes
GETT	Gettysburg National Military Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	catalpa	Present	Common	Non-native	Yes	No
GETT	Gettysburg National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Rare	Native	Yes	No
GETT	Gettysburg National Military Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Common	Native	Yes	Yes
GETT	Gettysburg National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's-bower	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Common	Native	Yes	Yes
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Uncommon	Native	Yes	Yes
GETT	Gettysburg National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
				- <i>Fraxinus americana</i> var. <i>americana</i>						
GETT	Gettysburg National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Abundant	Native	Yes	Yes
GETT	Gettysburg National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
GETT	Gettysburg National Military Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Rare	Native	Yes	No
GETT	Gettysburg National Military Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes
GETT	Gettysburg National Military Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Rare	Native	Yes	Yes
GETT	Gettysburg National Military Park	Rosales	Rosaceae	<i>Prunus americana</i>	wild plum	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
GETT	Gettysburg National Military Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Common	Non-native	Yes	No
GETT	Gettysburg National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
GETT	Gettysburg National Military Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Uncommon	Native	Yes	No
GETT	Gettysburg National Military Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	shining sumac	Present	Rare	Native	Yes	No
GETT	Gettysburg National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Present	Abundant	Native	Yes	Yes
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
GETT	Gettysburg National Military Park	Malpighiales	Salicaceae	<i>Salix alba</i>	white willow	Present	Unknown	Non-native	Yes	No
GETT	Gettysburg National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
GETT	Gettysburg National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	elderberry	Present	Common	Native	Yes	Yes
GETT	Gettysburg National Military Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	late goldenrod	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Common	Native	Yes	No
GETT	Gettysburg National Military Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Uncommon	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Uncommon	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Uncommon	Non-native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Dogbane, Indian Hemp	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GEWA	George Washington Birthplace National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet Vine	Present	Common	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Uncommon	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Present	Uncommon	Native	Yes	Yes
				- <i>Cercis canadensis</i> var. <i>canadensis</i>						
GEWA	George Washington Birthplace National Monument	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogwood	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Uncommon	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweetgum	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip Poplar	Present	Common	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia Creeper	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly Pine	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Pinales	Pinaceae	<i>Pinus virginiana</i>	scrub pine, Virginia pine	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Uncommon	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	Black Cherry	Present	Common	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						
GEWA	George Washington Birthplace National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Uncommon	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Uncommon	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Poales	Poaceae	<i>Spartina alterniflora</i>	saltwater cord grass	Present	Common	Native	Yes	No
GEWA	George Washington Birthplace National Monument	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Wing-stem	Present	Common	Native	Yes	Yes
GEWA	George Washington Birthplace National Monument	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York Ironweed	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
GEWA	George Washington Birthplace National Monument	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
GICL	Gila Cliff Dwellings National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
GICL	Gila Cliff Dwellings National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Rosales	Cannabaceae	<i>Humulus lupulus</i> - <i>Humulus lupulus</i> var. <i>neomexicanus</i>	common hop, common hops, hops	Present	Unknown	Native	Yes	No
GICL	Gila Cliff Dwellings National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus inserta</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
GICL	Gila Cliff Dwellings National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>rufula</i> , <i>Prunus serotina</i> var. <i>virens</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
GICL	Gila Cliff Dwellings National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GLAC	Glacier National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	SERVICEBERRY	Present	Abundant	Native	Yes	No
GLAC	Glacier National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	COMMON DOGBANE	Present	Uncommon	Native	Yes	No
GLAC	Glacier National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	WILD SARSAPARILLA	Present	Common	Native	Yes	No
GLAC	Glacier National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	BLACK BEARBERRY	Present	Common	Native	Yes	No
GLAC	Glacier National Park	Rosales	Rosaceae	<i>Physocarpus malvaceus</i>	NINEBARK	Present	Common	Native	Yes	Yes
GLAC	Glacier National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i> var. <i>ponderosa</i>	PONDEROSA PINE	Present	Common	Native	Yes	Yes
GLAC	Glacier National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	QUAKING ASPEN	Present	Common	Native	Yes	Yes
GLAC	Glacier National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	PIN CHERRY	Present	Uncommon	Native	Yes	Yes
GLAC	Glacier National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	THIMBLEBERRY	Present	Abundant	Native	Yes	No
GLAC	Glacier National Park	Malpighiales	Salicaceae	<i>Salix exigua</i> var. <i>exigua</i>	SLENDER WILLOW	Present	Uncommon	Native	Yes	No
GLAC	Glacier National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	SCOULER'S WILLOW	Present	Common	Native	Yes	Yes
GLAC	Glacier National Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	EUROPEAN MOUTAIN ASH	Present	Rare	Non-native	Yes	No
GLAC	Glacier National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	TALL HUCKLEBERRY	Present	Abundant	Native	Yes	Yes
GLBA	Glacier Bay National Park and Preserve	Fagales	Betulaceae	<i>Alnus rubra</i> - <i>Alnus oregona</i>	red alder	Present	Uncommon	Native	Yes	Yes
GLBA	Glacier Bay National Park and Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Probably Present		Native	Yes	Yes
GLBA	Glacier Bay National Park and Preserve	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Uncommon	Native	Yes	No
GLBA	Glacier Bay National Park and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Rare	Native	Yes	Yes
GLCA	Glen Canyon National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
GLCA	Glen Canyon National Recreation Area	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
GLCA	Glen Canyon National Recreation Area	Myrtales	Onagraceae	<i>Oenothera elata</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Rare	Native	Yes	Yes
GLCA	Glen Canyon National Recreation Area	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Probably Present		Native	Yes	Yes
GLCA	Glen Canyon National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
GLCA	Glen Canyon National Recreation Area	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Uncommon	Native	Yes	No
GOGA	Golden Gate National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> , <i>Achillea borealis</i> ssp. <i>arenicola</i>	common yarrow	Present	Unknown	Native	Yes	No
GOGA	Golden Gate National Recreation Area	Fagales	Betulaceae	<i>Alnus rubra</i> - <i>Alnus oregona</i>	red alder	Present	Common	Native	Yes	Yes
GOGA	Golden Gate National Recreation Area	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' sagewort	Present	Common	Native	Yes	Yes
GOGA	Golden Gate National Recreation Area	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Present	Unknown	Non-native	Yes	No
GOGA	Golden Gate National Recreation Area	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Unknown	Native	Yes	No
GOGA	Golden Gate National Recreation Area	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i> - <i>Oenothera elata</i> , <i>Oenothera hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Unknown	Native	Yes	Yes
GOGA	Golden Gate National Recreation Area	Pinales	Pinaceae	<i>Pinus radiata</i>	Monterey pine	Present	Common	Non-native	Yes	No
GOGA	Golden Gate National Recreation Area	Rosales	Rosaceae	<i>Rubus parviflorus</i> - <i>Rubus parviflorus</i> var. <i>velutinus</i>	thimbleberry	Present	Common	Native	Yes	No
GOGA	Golden Gate National Recreation Area	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Common	Native	Yes	No
GOGA	Golden Gate National Recreation Area	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GOGA	Golden Gate National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus caerulea</i> , <i>Sambucus mexicana</i> , <i>Sambucus nigra</i> ssp. <i>cerulea</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
GOGA	Golden Gate National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i> - <i>Sambucus callicarpa</i>	European red elder, red elderberry, scarlet elderberry	Present	Unknown	Native	Yes	Yes
GOGA	Golden Gate National Recreation Area	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Non-native	Yes	No
GOGA	Golden Gate National Recreation Area	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Unknown	Native	Yes	Yes
GRBA	Great Basin National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Uncommon	Native	Yes	Yes
GRBA	Great Basin National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Probably Present		Native	Yes	No
GRBA	Great Basin National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
GRBA	Great Basin National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Common	Native	Yes	Yes
GRBA	Great Basin National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
GRBA	Great Basin National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
GRBA	Great Basin National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Abundant	Native	Yes	No
GRCA	Grand Canyon National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present		Non-native	Yes	No
GRCA	Grand Canyon National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present		Non-native	Yes	Yes
GRCA	Grand Canyon National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRCA	Grand Canyon National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present		Native	Yes	No
GRCA	Grand Canyon National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present		Native	Yes	No
GRCA	Grand Canyon National Park	Fabales	Fabaceae	<i>Colutea arborescens</i>	bladder senna, bladdersenna	Present	Rare	Non-native	Yes	Yes
GRCA	Grand Canyon National Park	Myrtales	Onagraceae	<i>Oenothera elata</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present		Native	Yes	No
GRCA	Grand Canyon National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present		Native	Yes	No
GRCA	Grand Canyon National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present		Native	Yes	No
GRCA	Grand Canyon National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present		Native	Yes	Yes
GRCA	Grand Canyon National Park	Rosales	Ulmaceae	<i>Ulmus procera</i>	English elm	Present		Non-native	Yes	No
GRCA	Grand Canyon National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush, Guelder rose, viburnum	Present		Non-native	Yes	No
GRFA	Great Falls Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
GRFA	Great Falls Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Unknown	Yes	No
GRFA	Great Falls Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Lamiales	Oleaceae	<i>Fraxinus excelsior</i>	European ash	Present	Unknown	Unknown	Yes	No
GRFA	Great Falls Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Common	Native	Yes	Yes
GRFA	Great Falls Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	male berry	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet-cicely	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRFA	Great Falls Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
GRFA	Great Falls Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Unknown	Yes	Yes
GRFA	Great Falls Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	green-head coneflower	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Unknown	Yes	Yes
GRFA	Great Falls Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Solidago altissima</i>	late goldenrod	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
GRFA	Great Falls Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
GRFA	Great Falls Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
GRKO	Grant-Kohrs Ranch National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Abundant	Native	Yes	No
GRKO	Grant-Kohrs Ranch National Historic Site	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	western serviceberry	Present	Rare	Native	Yes	No
GRKO	Grant-Kohrs Ranch National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	white sagewort	Present	Uncommon	Native	Yes	Yes
GRKO	Grant-Kohrs Ranch National Historic Site	Fagales	Betulaceae	<i>Betula pendula</i> - <i>Betula pendula</i> var. <i>youngii</i>	European white birch	Present	Uncommon	Non-native	Yes	No
GRKO	Grant-Kohrs Ranch National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	green ash	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRKO	Grant-Kohrs Ranch National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Rare	Native	Yes	Yes
GRKO	Grant-Kohrs Ranch National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Uncommon	Native	Yes	No
GRKO	Grant-Kohrs Ranch National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	sandbar willow, coyote willow	Present	Abundant	Native	Yes	No
GRPO	Grand Portage National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
GRPO	Grand Portage National Monument	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus incana</i>	speckled alder	Present	Common	Native	Yes	Yes
GRPO	Grand Portage National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Common	Native	Yes	Yes
GRPO	Grand Portage National Monument	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Uncommon	Native	Yes	No
GRPO	Grand Portage National Monument	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Probably Present		Native	Yes	No
GRPO	Grand Portage National Monument	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Probably Present		Native	Yes	No
GRPO	Grand Portage National Monument	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	bland sweet cicely	Present	Uncommon	Native	Yes	No
GRPO	Grand Portage National Monument	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Present	Uncommon	Native	Yes	No
GRPO	Grand Portage National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
GRPO	Grand Portage National Monument	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Uncommon	Native	Yes	Yes
GRPO	Grand Portage National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
GRPO	Grand Portage National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	chokecherry	Present	Uncommon	Native	Yes	No
GRPO	Grand Portage National Monument	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRPO	Grand Portage National Monument	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Common	Native	Yes	No
GRPO	Grand Portage National Monument	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Uncommon	Native	Yes	No
GRPO	Grand Portage National Monument	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Rare	Native	Yes	Yes
GRPO	Grand Portage National Monument	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i>	European cranberrybush	Present	Rare	Non-native	Yes	Yes
GRSA	Great Sand Dunes National Park and Preserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Common Serviceberry; Shadbush	Present	Rare	Native	Yes	No
GRSA	Great Sand Dunes National Park and Preserve	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Uncommon	Native	Yes	Yes
GRSA	Great Sand Dunes National Park and Preserve	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Unknown	Native	Yes	No
GRSA	Great Sand Dunes National Park and Preserve	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Present	Unknown	Native	Yes	No
GRSA	Great Sand Dunes National Park and Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking Aspen	Present	Rare	Native	Yes	Yes
GRSA	Great Sand Dunes National Park and Preserve	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i>	Tall Cone-flower	Present	Rare	Native	Yes	Yes
GRSA	Great Sand Dunes National Park and Preserve	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar Willow	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Eupatorium rugosum</i>	White Snakeroot	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	White Snakeroot	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree of heaven	Present	Rare	Non-native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Fabales	Fabaceae	<i>Apios americana</i>	Groundnut	Present	Uncommon	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Rare	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>	White Sagebrush	Present	Rare	Non-native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Poke Milkweed	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Rare	Non-native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Fagales	Betulaceae	<i>Betula pendula</i>	European White Birch	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet Creeper	Present	Uncommon	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern Catalpa	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Common Buttonbush	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Devil's Darning Needles	Present	Common	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogwood	Present	Abundant	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Fagales	Betulaceae	<i>Corylus americana</i>	American Hazelnut	Present	Uncommon	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Common Boneset	Present	Uncommon	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	Bigleaved Aster	Present	Uncommon	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus americana</i> var. <i>americana</i>	White Ash	Present	Abundant	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green Ash	Present	Uncommon	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black Huckleberry	Present	Uncommon	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Krigia montana</i>	Mountain Dwarf dandelion	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweetgum	Present	Common	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i> var. <i>ligustrina</i>	Maleberry	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Lyonia ligustrina</i>										
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Oclemea acuminata</i>	Whorled Wood Aster	Present	Common	Native	Yes	Yes
- <i>Aster acuminatus</i>										
GRSM	Great Smoky Mountains National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's Sweetroot	Present	Abundant	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia Creeper	Present	Abundant	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	Sweet Mock Orange	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Pinales	Pinaceae	<i>Pinus pungens</i>	Table Mountain Pine	Present	Uncommon	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Pinales	Pinaceae	<i>Pinus rigida</i>	Pitch Pine	Present	Abundant	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Pinales	Pinaceae	<i>Pinus taeda</i>	Loblolly Pine	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia Pine	Present	Abundant	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American Sycamore	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	Lombardy Poplar	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American Plum	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet Cherry	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Pin Cherry	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	Black Cherry	Present	Abundant	Native	Yes	Yes
- <i>Prunus serotina</i>										
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	Chokecherry	Present	Rare	Native	Yes	No
- <i>Prunus virginiana</i>										
GRSM	Great Smoky Mountains National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	Fragrant Sumac	Present	Rare	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i>	Fragrant Sumac	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
GRSM	Great Smoky Mountains National Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	Winged Sumac	Present	Common	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> var. <i>copallinum</i>	Winged Sumac	Present	Common	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Abundant	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i> - <i>Rubus alumnus</i>	Allegheny Blackberry	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Rosales	Rosaceae	<i>Rubus canadensis</i>	Smooth Blackberry	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>digitata</i>	Cutleaf Coneflower	Present	Unknown	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>humilis</i> - <i>Rudbeckia laciniata</i>	Sochan	Present	Abundant	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Malpighiales	Salicaceae	<i>Salix alba</i>	White Willow	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Uncommon	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	Silky willow	Present	Common	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Common	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada Goldenrod	Present		Native	Yes	No
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Yellow Crownbeard	Present	Uncommon	Native	Yes	Yes
GRSM	Great Smoky Mountains National Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York Ironweed	Present	Rare	Native	Yes	No
GRSM	Great Smoky Mountains National Park	Dipsacales	Adoxaceae	<i>Viburnum lantana</i>	Wayfaringtree	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	Nannyberry	Present		Native	Yes	No
GRSM	Great Smoky Mountains National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European Cranberrybush	Present	Rare	Non-native	Yes	No
GRSM	Great Smoky Mountains National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i>	European Cranberrybush	Present	Rare	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GRSM	Great Smoky Mountains National Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox Grape	Present	Rare	Native	Yes	Yes
GRTE	Grand Teton National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Abundant	Native	Yes	No
GRTE	Grand Teton National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	dogbane, spreading dogbane	Present	Common	Native	Yes	Yes
GRTE	Grand Teton National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
GRTE	Grand Teton National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
GRTE	Grand Teton National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i> - <i>Lonicera involucrata</i>	twinberry honeysuckle	Present	Common	Native	Yes	No
GRTE	Grand Teton National Park	Rosales	Rosaceae	<i>Physocarpus malvaceus</i>	mallow ninebark	Present	Rare	Native	Yes	Yes
GRTE	Grand Teton National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
GRTE	Grand Teton National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i> - <i>Rubus parviflorus</i> var. <i>parviflorus</i>	thimbleberry, western thimbleberry	Present	Abundant	Native	Yes	No
GRTE	Grand Teton National Park	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Present	Uncommon	Native	Yes	No
GRTE	Grand Teton National Park	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix exigua</i> var. <i>pedicellata</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No
GRTE	Grand Teton National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler willow, willow	Present	Common	Native	Yes	Yes
GRTE	Grand Teton National Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Common	Native	Yes	Yes
GRTE	Grand Teton National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Abundant	Native	Yes	Yes
GRTE	Grand Teton National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	mountain bilberry, thinleaf huckleberry	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
GUCO	Guilford Courthouse National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No
GUCO	Guilford Courthouse National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GUCO	Guilford Courthouse National Military Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
GUCO	Guilford Courthouse National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
GUCO	Guilford Courthouse National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
GUCO	Guilford Courthouse National Military Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
GUIS	Gulf Islands National Seashore	Lamiales	Bignoniaceae	<i>Campsis radicans</i> - <i>Bignonia radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
GUIS	Gulf Islands National Seashore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Rare	Native	Yes	No
GUIS	Gulf Islands National Seashore	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Rare	Native	Yes	No
GUIS	Gulf Islands National Seashore	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
GUIS	Gulf Islands National Seashore	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Uncommon	Native	Yes	No
GUIS	Gulf Islands National Seashore	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Rare	Native	Yes	Yes
GUIS	Gulf Islands National Seashore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
GUIS	Gulf Islands National Seashore	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Rare	Native	Yes	No
GUIS	Gulf Islands National Seashore	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Rare	Native	Yes	Yes
GUIS	Gulf Islands National Seashore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Rare	Native	Yes	Yes
GUIS	Gulf Islands National Seashore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Common	Native	Yes	No
GUIS	Gulf Islands National Seashore	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
GUIS	Gulf Islands National Seashore	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	common elderberry	Present	Rare	Native	Yes	Yes
GUIS	Gulf Islands National Seashore	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Rare	Native	Yes	Yes
GUIS	Gulf Islands National Seashore	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Common	Native	Yes	No
GUIS	Gulf Islands National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Uncommon	Native	Yes	No
GUIS	Gulf Islands National Seashore	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Rare	Non-native	Yes	Yes
GUIS	Gulf Islands National Seashore	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Rare	Native	Yes	Yes
GUMO	Guadalupe Mountains National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Western Yarrow	Present	Unknown	Native	Yes	No
GUMO	Guadalupe Mountains National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum cannabinum</i> var. <i>glaberrimum</i> , <i>Apocynum sibiricum</i>	Prairie Dogbane, Willow Dogbane	Present	Unknown	Native	Yes	No
GUMO	Guadalupe Mountains National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Louisiana Sagebrush	Present	Unknown	Native	Yes	Yes
GUMO	Guadalupe Mountains National Park	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Sims Evening Primrose	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Oenothera hookeri</i>										
GUMO	Guadalupe Mountains National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	Ponderosa Pine	Present	Unknown	Native	Yes	Yes
GUMO	Guadalupe Mountains National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
GUMO	Guadalupe Mountains National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	Common Chokecherry	Present	Unknown	Native	Yes	No
GUMO	Guadalupe Mountains National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	Fragrant Sumac	Present	Unknown	Native	Yes	Yes
GUMO	Guadalupe Mountains National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
GUMO	Guadalupe Mountains National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	Southwestern Black Willow	Present	Unknown	Native	Yes	No
GWCA	George Washington Carver National Monument	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
GWCA	George Washington Carver National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Abundant	Native	Yes	No
- <i>Achillea lanulosa</i> , <i>Achillea millefolium</i> f. <i>rosea</i> , <i>Achillea millefolium</i> f. <i>roseum</i> , <i>Achillea millefolium</i> ssp. <i>lanulosa</i> , <i>Achillea millefolium</i> var. <i>lanulosa</i> , <i>Achillea millefolium</i> var. <i>millefolium</i>										
GWCA	George Washington Carver National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
- <i>Apocynum cannabinum</i> var. <i>cannabinum</i> , <i>Apocynum cannabinum</i> var. <i>pubescens</i>										
GWCA	George Washington Carver National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Rare	Native	Yes	No
GWCA	George Washington Carver National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Common	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
GWCA	George Washington Carver National Monument	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Rare	Native	Yes	No
GWCA	George Washington Carver National Monument	Fabales	Fabaceae	<i>Cercis canadensis</i> - <i>Cercis canadensis</i> var. <i>canadensis</i>	eastern redbud, redbud	Present	Common	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Rare	Native	Yes	No
GWCA	George Washington Carver National Monument	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Rare	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Rare	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	green ash	Present	Abundant	Native	Yes	No
GWCA	George Washington Carver National Monument	Asterales	Asteraceae	<i>Helianthus hirsutus</i> - <i>Helianthus hirsutus</i> var. <i>hirsutus</i> , <i>Helianthus hirsutus</i> var. <i>trachyphyllus</i>	hairy sunflower	Present	Uncommon	Native	Yes	No
GWCA	George Washington Carver National Monument	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Rare	Native	Yes	No
GWCA	George Washington Carver National Monument	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Native	Yes	No
GWCA	George Washington Carver National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolia</i> f. <i>hirsuta</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
GWCA	George Washington Carver National Monument	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Rare	Non-native	Yes	No
GWCA	George Washington Carver National Monument	Proteales	Platanaceae	<i>Platanus occidentalis</i> - <i>Platanus occidentalis</i> f. <i>attenuata</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Rosales	Rosaceae	<i>Prunus americana</i> - <i>Prunus americana</i> var. <i>lanata</i>	American plum	Present	Uncommon	Native	Yes	No
GWCA	George Washington Carver National Monument	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>serotina</i>	black cherry, black chokecherry	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GWCA	George Washington Carver National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No
GWCA	George Washington Carver National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Rare	Native	Yes	No
GWCA	George Washington Carver National Monument	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
GWCA	George Washington Carver National Monument	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
GWCA	George Washington Carver National Monument	Asterales	Asteraceae	<i>Silphium perfoliatum</i> - <i>Silphium perfoliatum</i> var. <i>perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Uncommon	Native	Yes	No
GWCA	George Washington Carver National Monument	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	Canada goldenrod	Present	Common	Native	Yes	No
GWMP	George Washington Memorial Parkway	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Probably Present		Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Probably Present		Non-native	Yes	Yes
GWMP	George Washington Memorial Parkway	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Probably Present		Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GWMP	George Washington Memorial Parkway	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Present	Unknown	Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Lamiales	Oleaceae	<i>Fraxinus excelsior</i>	European ash	Present	Unknown	Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet-cicely	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Pinales	Pinaceae	<i>Pinus pungens</i>	table-mountain pine	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Pinales	Pinaceae	<i>Pinus virginiana</i>	scrub pine	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GWMP	George Washington Memorial Parkway	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Probably Present		Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Probably Present		Native	Yes	No
				- <i>Robinia pseudo-acacia</i>						
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	greenhead coneflower	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Malpighiales	Salicaceae	<i>Salix alba</i>	white willow	Probably Present		Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Malpighiales	Salicaceae	<i>Salix exigua</i>	sandbar willow	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
				- <i>Sambucus canadensis</i>						
GWMP	George Washington Memorial Parkway	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Unknown	Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Malvales	Malvaceae	<i>Tilia cordata</i>	littleleaf linden	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GWMP	George Washington Memorial Parkway	Malvales	Malvaceae	<i>Tilia platyphyllos</i>	largeleaf linden	Probably Present		Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Rosales	Ulmaceae	<i>Ulmus procera</i> - <i>Ulmus carpinifolia</i>	English elm	Probably Present		Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Probably Present		Native	Yes	Yes
GWMP	George Washington Memorial Parkway	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Probably Present		Native	Yes	No
GWMP	George Washington Memorial Parkway	Dipsacales	Adoxaceae	<i>Viburnum lantana</i>	wayfaring tree, wayfaringtree	Present	Unknown	Non-native	Yes	No
GWMP	George Washington Memorial Parkway	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
GWMP	George Washington Memorial Parkway	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Probably Present		Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	plane-tree maple	Probably Present		Non-native	Yes	No
HAFE	Harpers Ferry National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow, milfoil	Probably Present		Non-native	Yes	No
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Eupatorium rugosum</i> , <i>Eupatorium urticifolium</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Probably Present		Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	indian hemp dogbane	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Probably Present		Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet-creeper	Probably Present		Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Tecoma radicans</i>										
HAFE	Harpers Ferry National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Probably Present		Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Centaurea scabiosa</i>	greater knapweed	Probably Present		Non-native	Yes	No
HAFE	Harpers Ferry National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Present	Unknown	Native	Yes	Yes
- <i>Cercis canadensis</i> var. <i>canadensis</i>										
HAFE	Harpers Ferry National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virgin's bower	Probably Present		Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Probably Present		Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet cicely	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Probably Present		Non-native	Yes	No
HAFE	Harpers Ferry National Historical Park	Pinales	Pinaceae	<i>Pinus pungens</i>	table mountain pine	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HAFE	Harpers Ferry National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Probably Present		Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Probably Present		Non-native	Yes	No
HAFE	Harpers Ferry National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	winged sumac	Probably Present		Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup rosinweed	Probably Present		Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Non-native	Yes	Yes
HAFE	Harpers Ferry National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Probably Present		Native	Yes	No
HAFE	Harpers Ferry National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Probably Present		Native	Yes	Yes
HAFO	Hagerman Fossil Beds National Monument	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Unknown	Yes	No
HAFO	Hagerman Fossil Beds National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Non-native	Yes	No
HAFO	Hagerman Fossil Beds National Monument	Rosales	Ulmaceae	<i>Ulmus procera</i> - <i>Ulmus carpinifolia</i> , <i>Ulmus minor</i>	English elm	Present	Uncommon	Non-native	Yes	No
HALE	Haleakala National Park	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	jeffrey pine	Present	Rare	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HALE	Haleakala National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	ponderosa pine	Present	Rare	Non-native	Yes	Yes
HALE	Haleakala National Park	Pinales	Pinaceae	<i>Pinus radiata</i>	Monterey pine	Present	Uncommon	Non-native	Yes	No
HAVO	Hawaii Volcanoes National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Uncommon	Non-native	Yes	No
HAVO	Hawaii Volcanoes National Park	Fabales	Fabaceae	<i>Ceratonia siliqua</i>	carob, St. John's bread	Present	Rare	Non-native	Yes	No
HAVO	Hawaii Volcanoes National Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Non-native	Yes	No
HAVO	Hawaii Volcanoes National Park	Pinales	Pinaceae	<i>Pinus radiata</i>	Monterey pine	Present	Uncommon	Non-native	Yes	No
HAVO	Hawaii Volcanoes National Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Uncommon	Non-native	Yes	No
HEHO	Herbert Hoover National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Uncommon	Native	Yes	Yes
HEHO	Herbert Hoover National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Uncommon	Native	Yes	Yes
HEHO	Herbert Hoover National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Rare	Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
HEHO	Herbert Hoover National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Probably Present		Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
HEHO	Herbert Hoover National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Probably Present		Non-native	Yes	No
HEHO	Herbert Hoover National Historic Site	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	tall coneflower	Present	Common	Native	Yes	Yes
HEHO	Herbert Hoover National Historic Site	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Probably Present		Native	Yes	No
HEHO	Herbert Hoover National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
HEHO	Herbert Hoover National Historic Site	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant	Present	Common	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Non-native	Yes	No
HOBE	Horseshoe Bend National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HOBE	Horseshoe Bend National Military Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
HOBE	Horseshoe Bend National Military Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
HOBE	Horseshoe Bend National Military Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Non-native	Yes	No
HOCU	Hopewell Culture National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Rare	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Common	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Rare	Non-native	Yes	No
HOCU	Hopewell Culture National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Common	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Uncommon	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Uncommon	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HOCU	Hopewell Culture National Historical Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Uncommon	Non-native	Yes	No
HOCU	Hopewell Culture National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Uncommon	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Uncommon	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Uncommon	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Uncommon	Non-native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Uncommon	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Common	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Uncommon	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Uncommon	Native	Yes	Yes
HOCU	Hopewell Culture National Historical Park	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Uncommon	Native	Yes	No
HOCU	Hopewell Culture National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush, Guelder rose, viburnum	Present	Unknown	Non-native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
HOFR	Home of Franklin D. Roosevelt National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HOFR	Home of Franklin D. Roosevelt National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Unknown	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
HOFR	Home of Franklin D. Roosevelt National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
HOFR	Home of Franklin D. Roosevelt National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Uncommon	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Unknown	Yes	No
HOFU	Hopewell Furnace National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder	Present	Rare	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Uncommon	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian Hemp	Present	Uncommon	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Poke Milkweed	Present	Rare	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Common	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet Creeper	Present	Rare	Non-native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern Catalpa	Present	Rare	Non-native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Unknown	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
HOFU	Hopewell Furnace National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Present	Rare	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Unknown	Yes	No
HOFU	Hopewell Furnace National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Unknown	Yes	No
HOFU	Hopewell Furnace National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American Hazelnut, Hazelnut	Present	Uncommon	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Common Boneset	Present	Common	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Unknown	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Unknown	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Hairy Sweet-cicely, Sweet Cicely	Present	Uncommon	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Unknown	Yes	No
HOFU	Hopewell Furnace National Historic Site	Pinales	Pinaceae	<i>Pinus rigida</i>	Pitch Pine	Present	Rare	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey Pine, Virginia Pine	Present	Rare	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Unknown	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	american plum, Wild Plum	Present	Rare	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet Cherry	Present	Uncommon	Non-native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Fire Cherry	Present	Unknown	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Unknown	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
HOFU	Hopewell Furnace National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Unknown	Yes	No
HOFU	Hopewell Furnace National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Uncommon	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Unknown	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Cutleaf Coneflower, green-head coneflower	Present	Common	Native	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Uncommon	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Unknown	Yes	Yes
HOFU	Hopewell Furnace National Historic Site	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Unknown	Yes	No
HOFU	Hopewell Furnace National Historic Site	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
HOFU	Hopewell Furnace National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Unknown	Yes	Yes
HOME	Homestead National Monument of America	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Unknown	Native	Yes	No
HOME	Homestead National Monument of America	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Unknown	Native	Yes	No
HOME	Homestead National Monument of America	Asterales	Asteraceae	<i>Ageratina altissima</i>	Tall ageratina	Present	Unknown	Native	Yes	Yes
HOME	Homestead National Monument of America	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Hemp dogbane	Present	Unknown	Native	Yes	No
HOME	Homestead National Monument of America	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	White sage	Present	Unknown	Native	Yes	Yes
HOME	Homestead National Monument of America	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Unknown	Native	Yes	Yes
HOME	Homestead National Monument of America	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
HOME	Homestead National Monument of America	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
HOME	Homestead National Monument of America	Rosales	Rosaceae	<i>Prunus americana</i>	Wild plum	Present	Unknown	Native	Yes	No
HOME	Homestead National Monument of America	Rosales	Rosaceae	<i>Prunus virginiana</i>	Chokecherry	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HOME	Homestead National Monument of America	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	Squaw-bush	Present	Unknown	Native	Yes	Yes
HOSP	Hot Springs National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Probably Present		Native	Yes	No
HOSP	Hot Springs National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow	Present	Rare	Native	Yes	No
HOSP	Hot Springs National Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Ageratina altissima</i>	White Snakeroot	Probably Present		Native	Yes	Yes
HOSP	Hot Springs National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Probably Present		Non-native	Yes	Yes
HOSP	Hot Springs National Park	Fabales	Fabaceae	<i>Apios americana</i>	Groundnut	Probably Present		Native	Yes	Yes
HOSP	Hot Springs National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Uncommon	Native	Yes	Yes
HOSP	Hot Springs National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Probably Present		Native	Yes	No
HOSP	Hot Springs National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Rare	Native	Yes	No
HOSP	Hot Springs National Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
HOSP	Hot Springs National Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Probably Present		Native	Yes	Yes
HOSP	Hot Springs National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Common Boneset	Present	Uncommon	Native	Yes	No
HOSP	Hot Springs National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
HOSP	Hot Springs National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Rare	Native	Yes	No
HOSP	Hot Springs National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Probably Present		Native	Yes	Yes
HOSP	Hot Springs National Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	Sunflower, Stiffly Hairy	Present	Uncommon	Native	Yes	No
HOSP	Hot Springs National Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No
HOSP	Hot Springs National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tuliptree	Probably Present		Non-native	Yes	Yes
HOSP	Hot Springs National Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Uncommon	Native	Yes	Yes
HOSP	Hot Springs National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
HOSP	Hot Springs National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Uncommon	Native	Yes	Yes
HOSP	Hot Springs National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Probably Present		Native	Yes	No
HOSP	Hot Springs National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Abundant	Native	Yes	Yes
HOSP	Hot Springs National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Common	Native	Yes	Yes
HOSP	Hot Springs National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No
HOSP	Hot Springs National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i> - <i>Rudbeckia laciniata</i>	cutleaf coneflower	Probably Present		Native	Yes	Yes
HOSP	Hot Springs National Park	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Probably Present		Non-native	Yes	No
HOSP	Hot Springs National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
HOSP	Hot Springs National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Uncommon	Native	Yes	Yes
HOSP	Hot Springs National Park	Laurales	Lauraceae	<i>Sassafras albidum</i> - <i>Sassafras officinale</i>	sassafras	Present	Abundant	Native	Yes	Yes
HUTR	Hubbell Trading Post National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
HUTR	Hubbell Trading Post National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
HUTR	Hubbell Trading Post National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix exigua</i> var. <i>exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
INDU	Indiana Dunes National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Abundant	Non-native	Yes	No
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Common	Non-native	Yes	Yes
INDU	Indiana Dunes National Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
INDU	Indiana Dunes National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Uncommon	Native	Yes	Yes
INDU	Indiana Dunes National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Common	Native	Yes	No
INDU	Indiana Dunes National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Rare	Non-native	Yes	No
INDU	Indiana Dunes National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Rare	Non-native	Yes	Yes
INDU	Indiana Dunes National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Common	Non-native	Yes	No
INDU	Indiana Dunes National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Rare	Native	Yes	Yes
INDU	Indiana Dunes National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Common	Native	Yes	No
INDU	Indiana Dunes National Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
INDU	Indiana Dunes National Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Probably Present		Native	Yes	No
INDU	Indiana Dunes National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Rare	Native	Yes	No
INDU	Indiana Dunes National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Rare	Non-native	Yes	No
INDU	Indiana Dunes National Park	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Present	Common	Native	Yes	No
INDU	Indiana Dunes National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Uncommon	Native	Yes	Yes
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Rare	Non-native	Yes	No
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
INDU	Indiana Dunes National Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Rare	Non-native	Yes	No
INDU	Indiana Dunes National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Abundant	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
INDU	Indiana Dunes National Park	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Rare	Non-native	Yes	No
INDU	Indiana Dunes National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallinum</i> var. <i>latifolia</i>	flameleaf sumac, shining sumac, winged sumac	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Common	Non-native	Yes	No
INDU	Indiana Dunes National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Uncommon	Non-native	Yes	No
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix interior</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Abundant	Native	Yes	No
INDU	Indiana Dunes National Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Uncommon	Native	Yes	No
INDU	Indiana Dunes National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
INDU	Indiana Dunes National Park	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Rare	Native	Yes	No
INDU	Indiana Dunes National Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Common	Native	Yes	No
INDU	Indiana Dunes National Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
ISRO	Isle Royale National Park	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> var. <i>occidentalis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
ISRO	Isle Royale National Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus incana</i> , <i>Alnus rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
ISRO	Isle Royale National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Common	Native	Yes	Yes
ISRO	Isle Royale National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Abundant	Native	Yes	No
ISRO	Isle Royale National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Probably Present		Native	Yes	No
ISRO	Isle Royale National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Probably Present		Native	Yes	Yes
ISRO	Isle Royale National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Uncommon	Native	Yes	No
ISRO	Isle Royale National Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Abundant	Native	Yes	Yes
ISRO	Isle Royale National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
ISRO	Isle Royale National Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bigleaf aster	Present	Abundant	Native	Yes	Yes
ISRO	Isle Royale National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Probably Present		Native	Yes	No
ISRO	Isle Royale National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Uncommon	Native	Yes	No
ISRO	Isle Royale National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Uncommon	Native	Yes	No
ISRO	Isle Royale National Park	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Present	Uncommon	Native	Yes	No
ISRO	Isle Royale National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
ISRO	Isle Royale National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ISRO	Isle Royale National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
ISRO	Isle Royale National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Probably Present		Native	Yes	Yes
ISRO	Isle Royale National Park	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Probably Present		Native	Yes	Yes
ISRO	Isle Royale National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Abundant	Native	Yes	No
ISRO	Isle Royale National Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Common	Native	Yes	No
ISRO	Isle Royale National Park	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Rare	Native	Yes	No
ISRO	Isle Royale National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Uncommon	Native	Yes	Yes
ISRO	Isle Royale National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush, Guelder rose, viburnum	Present	Uncommon	Native	Yes	No
JECA	Jewel Cave National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> var. <i>occidentalis</i>	yarrow	Present		Native	Yes	No
JECA	Jewel Cave National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, serviceberry	Present	Unknown	Native	Yes	No
JECA	Jewel Cave National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i> - <i>Apocynum androsaemifolium</i> var. <i>androsaemifolium</i>	dogbane	Present	Unknown	Native	Yes	Yes
JECA	Jewel Cave National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
JECA	Jewel Cave National Monument	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> - <i>Rhus trilobata</i> , <i>Rhus trilobata</i> var. <i>trilobata</i>	skunkbrush	Present	Unknown	Native	Yes	Yes
JECA	Jewel Cave National Monument	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	snowberry	Present	Unknown	Native	Yes	Yes
JELA	Jean Lafitte National Historical Park and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Ageratina altissima</i> , <i>Eupatorium rugosum</i>	white snakeroot	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
JELA	Jean Lafitte National Historical Park and Preserve	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Rare	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
JELA	Jean Lafitte National Historical Park and Preserve	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Rare	Native	Yes	No
JELA	Jean Lafitte National Historical Park and Preserve	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Rare	Native	Yes	Yes
JELA	Jean Lafitte National Historical Park and Preserve	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Rare	Native	Yes	Yes
JELA	Jean Lafitte National Historical Park and Preserve	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Abundant	Native	Yes	No
				- <i>Salix nigra</i> var. <i>nigra</i>						
JELA	Jean Lafitte National Historical Park and Preserve	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Common	Native	Yes	Yes
				- <i>Sambucus canadensis</i>						
JELA	Jean Lafitte National Historical Park and Preserve	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i>	Chinese tallow, tallowtree	Present	Abundant	Non-native	Yes	Yes
				- <i>Sapium sebiferum</i>						
JODA	John Day Fossil Beds National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
JODA	John Day Fossil Beds National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Unknown	Native	Yes	No
JODA	John Day Fossil Beds National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
JODA	John Day Fossil Beds National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
JODA	John Day Fossil Beds National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
JODA	John Day Fossil Beds National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Unknown	Yes	No
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Cimicifuga racemosa</i> , <i>Eupatorium rugosum</i>	white snakeroot	Present	Common	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Uncommon	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Uncommon	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Common	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
JOFL	Johnstown Flood National Memorial	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Unknown	Yes	Yes
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Oclemena acuminata</i> - <i>Aster acuminatus</i>	mountain aster	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet-cicely	Present	Uncommon	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper	Present	Common	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Unknown	Yes	No
JOFL	Johnstown Flood National Memorial	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	pin cherry	Present	Unknown	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Uncommon	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Unknown	Yes	No
JOFL	Johnstown Flood National Memorial	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Present	Common	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Common	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	elderberry	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Uncommon	Native	Yes	Yes
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	late goldenrod	Present	Common	Native	Yes	No
JOFL	Johnstown Flood National Memorial	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
JOMU	John Muir National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	YARROW	Present	Unknown	Native	Yes	No
JOMU	John Muir National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	TREE OF HEAVEN	Present	Common	Non-native	Yes	Yes
JOMU	John Muir National Historic Site	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	MUGWORT	Present	Unknown	Native	Yes	Yes
JOMU	John Muir National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Common trumpetvine	Present	Unknown	Non-native	Yes	Yes
JOMU	John Muir National Historic Site	Fabales	Fabaceae	<i>Ceratonja siliqua</i>	Carob	Present	Unknown	Non-native	Yes	No
JOMU	John Muir National Historic Site	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i> - <i>Philadelphus lewisii</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
JOMU	John Muir National Historic Site	Pinales	Pinaceae	<i>Pinus ponderosa</i>	Pacific ponderosa pine, Ponderosa pine	Present	Unknown	Native	Yes	Yes
JOMU	John Muir National Historic Site	Pinales	Pinaceae	<i>Pinus radiata</i>	Monterey pine	Present	Unknown	Native	Yes	No
JOMU	John Muir National Historic Site	Fagales	Fagaceae	<i>Quercus kelloggii</i>	CALIFORNIA BLACK OAK	Present	Common	Native	Yes	No
JOMU	John Muir National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	BLACK LOCUST	Present	Unknown	Non-native	Yes	No
JOTR	Joshua Tree National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian Hemp	Present	Common	Native	Yes	No
JOTR	Joshua Tree National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar Willow	Present	Common	Native	Yes	No
JOTR	Joshua Tree National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's Black Willow	Present	Common	Native	Yes	No
KATM	Katmai National Park and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> , <i>Achillea millefolium</i> var. <i>borealis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Unknown	Yes	No
KATM	Katmai National Park and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Common	Native	Yes	Yes
KATM	Katmai National Park and Preserve	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Common	Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
KAWW	Katahdin Woods and Waters National Monument	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Asterales	Asteraceae	<i>Oclemena acuminata</i>	whorled wood aster	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KAWW	Katahdin Woods and Waters National Monument	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present		Native	Yes	Yes
KAWW	Katahdin Woods and Waters National Monument	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present		Native	Yes	No
KAWW	Katahdin Woods and Waters National Monument	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	possumhaw, withe-rod	Present		Native	Yes	Yes
KEFJ	Kenai Fjords National Park	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> , <i>Achillea millefolium</i> var. <i>borealis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Uncommon	Unknown	Yes	No
KEFJ	Kenai Fjords National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Probably Present		Native	Yes	No
KEFJ	Kenai Fjords National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Probably Present		Native	Yes	Yes
KEFJ	Kenai Fjords National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Probably Present		Native	Yes	Yes
KEFJ	Kenai Fjords National Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Probably Present		Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
KEMO	Kennesaw Mountain National Battlefield Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KEMO	Kennesaw Mountain National Battlefield Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i> - <i>Robinia pseudo-acacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
KEMO	Kennesaw Mountain National Battlefield Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
KEMO	Kennesaw Mountain National Battlefield Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Unknown	Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-Heaven	Present	Uncommon	Unknown	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Fagales	Betulaceae	<i>Alnus incana</i>	Grey Alder, Speckled Alder	Present	Occasional	Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Fabales	Fabaceae	<i>Apios americana</i>	Common Ground-Nut, Potato Bean	Present	Unknown	Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Hemp-Dogbane	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp Milkweed	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed, Silky Swallow-Wort	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet Creeper	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KEPA	Kenilworth Park and Aquatic Gardens	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	Northern Catalpa, Cigar-Tree	Present	Uncommon	Non-native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Unknown	Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogwood	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Fagales	Betulaceae	<i>Corylus americana</i>	American Hazelnut	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	BONESET	Present	Unknown	Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	GREEN ASH or RED ASH	Present	Unknown	Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweet gum	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	TULIP POPLAR	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	VIRGINIA CREEPER	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Pinales	Pinaceae	<i>Pinus virginiana</i>	VIRGINIA PINE	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Proteales	Platanaceae	<i>Platanus occidentalis</i>	SYCAMORE	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Rosales	Rosaceae	<i>Prunus avium</i>	bird cherry	Probably Present		Non-native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	PIN CHERRY	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Rosales	Rosaceae	<i>Prunus serotina</i>	BLACK CHERRY	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Rosales	Rosaceae	<i>Prunus virginiana</i>	CHOKE CHERRY	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	COMMON BLACKBERRY	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	SAND BLACKBERRY	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Malpighiales	Salicaceae	<i>Salix nigra</i>	BLACK WILLOW	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KEPA	Kenilworth Park and Aquatic Gardens	Malpighiales	Salicaceae	<i>Salix purpurea</i>	basket willow	Present	Rare	Unknown	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Lurales	Lauraceae	<i>Sassafras albidum</i>	SASSAFRAS	Probably Present		Native	Yes	Yes
KEPA	Kenilworth Park and Aquatic Gardens	Asterales	Asteraceae	<i>Solidago altissima</i>	tall goldenrod	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	NEW YORK IRONWEED	Probably Present		Native	Yes	No
KEPA	Kenilworth Park and Aquatic Gardens	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Probably Present		Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	common milk-poison, white snakeroot	Present	Rare	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	WHITE SNAKEROOT	Present	Unknown	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	TREE-OF-HEAVEN	Present	Unknown	Non-native	Yes	Yes
KIMO	Kings Mountain National Military Park	Fabales	Fabaceae	<i>Apios americana</i>	AMERICAN GROUNDNUT	Probably Present		Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
KIMO	Kings Mountain National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	TRUMPET-CREEPER	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	NORTHERN CATALPA	Present	Uncommon	Native	Yes	No
KIMO	Kings Mountain National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	COMMON BUTTONBUSH	Probably Present		Native	Yes	No
KIMO	Kings Mountain National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	FLOWERING DOGWOOD	Present	Common	Native	Yes	No
KIMO	Kings Mountain National Military Park	Fagales	Betulaceae	<i>Corylus americana</i>	AMERICAN HAZELNUT	Probably Present		Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	BEAKED HAZELNUT	Probably Present		Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	WHITE ASH	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
KIMO	Kings Mountain National Military Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	SWEET GUM, sweetgum	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KIMO	Kings Mountain National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	TULIP TREE, tuliptree	Present	Abundant	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	MALEBERRY	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	VIRGINIA CREEPER	Present	Uncommon	Native	Yes	No
KIMO	Kings Mountain National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
KIMO	Kings Mountain National Military Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	scrub pine, Virginia pine	Present	Abundant	Native	Yes	No
KIMO	Kings Mountain National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	SYCAMORE	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
KIMO	Kings Mountain National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	BLACK LOCUST	Present	Uncommon	Native	Yes	No
KIMO	Kings Mountain National Military Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	CUT-LEAVED CONEFLOWER	Present	Unknown	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>digitata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	BLACK WILLOW	Probably Present		Native	Yes	No
KIMO	Kings Mountain National Military Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	SILKY WILLOW	Present	Rare	Native	Yes	No
KIMO	Kings Mountain National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	SASSAFRAS	Present	Uncommon	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	YELLOW CROWNBEARD	Present	Unknown	Native	Yes	Yes
KIMO	Kings Mountain National Military Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	NEW YORK IRONWEED	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KIMO	Kings Mountain National Military Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape, NORTHERN FOX GRAPE	Present	Rare	Native	Yes	Yes
KLGO	Klondike Gold Rush National Historical Park	Fagales	Betulaceae	<i>Alnus rubra</i>	RED ALDER	Present	Uncommon	Native	Yes	Yes
KLGO	Klondike Gold Rush National Historical Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Probably Present		Native	Yes	No
KLGO	Klondike Gold Rush National Historical Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	SCOULER'S WILLOW	Present	Rare	Native	Yes	Yes
KLGO	Klondike Gold Rush National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i> - <i>Sambucus racemosa</i> var. <i>arborescens</i>	ELDERBERRY, PACIFIC RED ELDERBERRY, RED ELDERBERRY, SCARLET ELDERBERRY	Present	Common	Native	Yes	Yes
KNRI	Knife River Indian Villages National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Common	Unknown	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry	Present	Unknown	Native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
KNRI	Knife River Indian Villages National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	prairie dogbane	Present	Occasional	Native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
KNRI	Knife River Indian Villages National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	green ash	Present	Common	Native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop	Present	Uncommon	Native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
KNRI	Knife River Indian Villages National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	wild plum	Present	Occasional	Native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
KNRI	Knife River Indian Villages National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
KNRI	Knife River Indian Villages National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	sandbar willow	Present	Unknown	Native	Yes	No
KOVA	Kobuk Valley National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
KOVA	Kobuk Valley National Park	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Present	Unknown	Native	Yes	No
LABE	Lava Beds National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Common	Native	Yes	No
LABE	Lava Beds National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	Indian hemp	Present	Unknown	Native	Yes	No
LABE	Lava Beds National Monument	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	Jeffrey pine	Present	Rare	Native	Yes	Yes
LABE	Lava Beds National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	Ponderosa pine	Present	Common	Native	Yes	Yes
LABE	Lava Beds National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i> - <i>Populus tremula</i> ssp. <i>tremuloides</i>	Quaking aspen	Present	Rare	Native	Yes	Yes
LABE	Lava Beds National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	Common chokecherry, Western choke cherry	Present	Uncommon	Native	Yes	No
LABE	Lava Beds National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i> - <i>Salix scoulerana</i>	Scouler's willow	Present	Rare	Native	Yes	Yes
LACL	Lake Clark National Park and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> , <i>Achillea millefolium</i> var. <i>borealis</i> , <i>Achillea millefolium</i> var. <i>occidentalis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Unknown	Yes	No
LACL	Lake Clark National Park and Preserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western shadbush	Present	Unknown	Native	Yes	No
LACL	Lake Clark National Park and Preserve	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	Garden sorrel	Present	Unknown	Native	Yes	No
LACL	Lake Clark National Park and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
LACL	Lake Clark National Park and Preserve	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Common	Native	Yes	Yes
LAKE	Lake Mead National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Uncommon	Native	Yes	No
				- <i>Apocynum cannabinum</i> var. <i>hypericifolium</i>						
LAKE	Lake Mead National Recreation Area	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort, wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
LAKE	Lake Mead National Recreation Area	Pinales	Pinaceae	<i>Pinus ponderosa</i>	Ponderosa pine	Present	Common	Native	Yes	Yes
LAKE	Lake Mead National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	Chokecherry	Present	Uncommon	Native	Yes	No
LAKE	Lake Mead National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	Coyote willow	Present	Common	Native	Yes	No
				- <i>Salix exigua</i> var. <i>stenophylla</i>						
LAKE	Lake Mead National Recreation Area	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Gooddings willow	Present	Uncommon	Native	Yes	No
LAMR	Lake Meredith National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Probably Present		Non-native	Yes	No
LAMR	Lake Meredith National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
LAMR	Lake Meredith National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No
LAMR	Lake Meredith National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
LAMR	Lake Meredith National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Non-native	Yes	No
LAMR	Lake Meredith National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
LAMR	Lake Meredith National Recreation Area	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
LAMR	Lake Meredith National Recreation Area	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Probably Present		Native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Rare	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Common	Native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Common	Native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus americana</i>	Autumn Purple Ash	Present	Rare	Non-native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus excelsior</i>	Golden desert ash	Present	Rare	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Marshall seedless ash	Present	Rare	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Rosales	Rosaceae	<i>Physocarpus malvaceus</i>	mallow ninebark	Present	Uncommon	Native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Present	Rare	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
LARO	Lake Roosevelt National Recreation Area	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Rosales	Rosaceae	<i>Prunus avium</i>	cultivated sweet cherry	Present	Unknown	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Unknown	Native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	meadow sorrel	Present	Unknown	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Rare	Non-native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
LARO	Lake Roosevelt National Recreation Area	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
LARO	Lake Roosevelt National Recreation Area	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Common	Native	Yes	Yes
LAVO	Lassen Volcanic National Park	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea lanulosa</i> , <i>Achillea millefolium</i> var. <i>occidentalis</i>	yarrow	Present	Abundant	Native	Yes	No
LAVO	Lassen Volcanic National Park	Fagales	Betulaceae	<i>Alnus incana</i>	gray alder	Present	Unknown	Native	Yes	No
LAVO	Lassen Volcanic National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i> - <i>Apocynum pumilum</i>	Mountain dogbane	Present	Uncommon	Native	Yes	Yes
LAVO	Lassen Volcanic National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	mugwort	Present	Common	Native	Yes	Yes
LAVO	Lassen Volcanic National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i> - <i>Lonicera involucrata</i>	twinberry	Present	Uncommon	Native	Yes	No
LAVO	Lassen Volcanic National Park	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	Jeffery pine	Present	Abundant	Native	Yes	Yes
LAVO	Lassen Volcanic National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i> - <i>Pinus ponderosa</i> var. <i>ponderosa</i>	Pacific ponderosa pine	Present	Uncommon	Native	Yes	Yes
LAVO	Lassen Volcanic National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
LAVO	Lassen Volcanic National Park	Fagales	Fagaceae	<i>Quercus kelloggii</i>	California black oak	Present	Rare	Native	Yes	No
LAVO	Lassen Volcanic National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry	Present	Common	Native	Yes	No
LAVO	Lassen Volcanic National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
LAVO	Lassen Volcanic National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry	Present	Unknown	Native	Yes	Yes
LEWI	Lewis and Clark National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Common	Native	Yes	No
LEWI	Lewis and Clark National Historical Park	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Abundant	Native	Yes	Yes
LEWI	Lewis and Clark National Historical Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	hawthorn	Present	Rare	Non-native	Yes	No
LEWI	Lewis and Clark National Historical Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bush honeysuckle, twinberry honeysuckle	Present	Common	Native	Yes	No
LEWI	Lewis and Clark National Historical Park	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	ninebark, Pacific ninebark	Present	Uncommon	Native	Yes	Yes
LEWI	Lewis and Clark National Historical Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry	Present	Uncommon	Native	Yes	No
LEWI	Lewis and Clark National Historical Park	Malpighiales	Salicaceae	<i>Salix alba</i> - <i>Salix alba</i> var. <i>vitellina</i>	golden willow, white willow	Present	Occasional	Non-native	Yes	No
LEWI	Lewis and Clark National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	red elderberry	Present	Common	Native	Yes	Yes
LEWI	Lewis and Clark National Historical Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountainash, mountain ash	Present	Uncommon	Non-native	Yes	No
LEWI	Lewis and Clark National Historical Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Uncommon	Non-native	Yes	Yes
LIBI	Little Bighorn Battlefield National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort	Present	Unknown	Native	Yes	No
LIBI	Little Bighorn Battlefield National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot	Present	Unknown	Native	Yes	Yes
LIBI	Little Bighorn Battlefield National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort	Present	Unknown	Native	Yes	Yes
LIBI	Little Bighorn Battlefield National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed	Probably Present		Native	Yes	Yes
LIBI	Little Bighorn Battlefield National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
LIBI	Little Bighorn Battlefield National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Occasional	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Rare	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Rare	Native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Rare	Native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Rare	Native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Rare	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Rare	Native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Rare	Native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Rare	Non-native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Rare	Non-native	Yes	No
LBO	Lincoln Boyhood National Memorial	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Rare	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Abundant	Native	Yes	Yes
LBO	Lincoln Boyhood National Memorial	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Rare	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
LBO	Lincoln Boyhood National Memorial	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
LIBO	Lincoln Boyhood National Memorial	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
LIBO	Lincoln Boyhood National Memorial	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Common	Native	Yes	Yes
LIBO	Lincoln Boyhood National Memorial	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Common	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Rare	Non-native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Uncommon	Non-native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
LIBO	Lincoln Boyhood National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
LIBO	Lincoln Boyhood National Memorial	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Uncommon	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Non-native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Uncommon	Native	Yes	No
LIBO	Lincoln Boyhood National Memorial	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Rare	Native	Yes	Yes
LIBO	Lincoln Boyhood National Memorial	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
LIBO	Lincoln Boyhood National Memorial	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
LIBO	Lincoln Boyhood National Memorial	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Rare	Native	Yes	No
LIRI	Little River Canyon National Preserve	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
LIRI	Little River Canyon National Preserve	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Lamiales	Bignoniaceae	<i>Campsis radicans</i> - <i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus americana</i> var. <i>americana</i> , <i>Fraxinus americana</i> var. <i>biltmoreana</i>	white ash	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
LIRI	Little River Canyon National Preserve	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pensylvanica</i>	green ash	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Oclemena acuminata</i> - <i>Aster acuminatus</i>	whorled wood aster	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
LIRI	Little River Canyon National Preserve	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
LIRI	Little River Canyon National Preserve	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i> - <i>Viburnum cassinoides</i>	possumhaw, withe-rod	Present	Unknown	Native	Yes	Yes
LYJO	Lyndon B. Johnson National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Western Yarrow	Present	Unknown	Native	Yes	No
LYJO	Lyndon B. Johnson National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Uncommon	Native	Yes	Yes
LYJO	Lyndon B. Johnson National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	catalpa, Northern; cigartree	Present	Unknown	Non-native	Yes	No
LYJO	Lyndon B. Johnson National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Buttonbush	Present	Uncommon	Native	Yes	No
LYJO	Lyndon B. Johnson National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	ash, green or red	Present	Uncommon	Native	Yes	No
LYJO	Lyndon B. Johnson National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No
LYJO	Lyndon B. Johnson National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
LYJO	Lyndon B. Johnson National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Uncommon	Native	Yes	No
LYJO	Lyndon B. Johnson National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	elderberry	Present	Uncommon	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	indian-hemp	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
MABI	Marsh-Billings-Rockefeller National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Lamiales	Oleaceae	<i>Fraxinus excelsior</i>	european ash	Present	Unknown	Non-native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	virginia-creeper	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	american sycamore	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	european buckthorn	Present	Unknown	Non-native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	allegheny blackberry	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Non-native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrow-leaf willow	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
MABI	Marsh-Billings-Rockefeller National Historical Park	Malpighiales	Salicaceae	<i>Salix purpurea</i>	purple willow	Present	Unknown	Non-native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	european red elder	Present	Unknown	Native	Yes	Yes
MABI	Marsh-Billings-Rockefeller National Historical Park	Malvales	Malvaceae	<i>Tilia cordata</i>	small-leaf linden	Present	Unknown	Non-native	Yes	No
MABI	Marsh-Billings-Rockefeller National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	arrow wood, wild raisin	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
MACA	Mammoth Cave National Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i> - <i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MACA	Mammoth Cave National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bignleaf aster	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus americana</i> var. <i>biltmoreana</i>	white ash	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pennsylvanica</i> var. <i>pennsylvanica</i> , <i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
MACA	Mammoth Cave National Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
MACA	Mammoth Cave National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i> - <i>Robinia pseudo-acacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i> , <i>Sambucus nigra</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Laurales	Lauraceae	<i>Sassafras albidum</i> - <i>Sassafras albidum</i> var. <i>molle</i>	sassafras	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
MACA	Mammoth Cave National Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
MACA	Mammoth Cave National Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow	Present	Unknown	Non-native	Yes	No
MANA	Manassas National Battlefield Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	White Snakeroot	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Unknown	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MANA	Manassas National Battlefield Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian Hemp	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp Milkweed	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Common Buttonbush	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	Eastern Redbud	Present	Unknown	Native	Yes	Yes
				- <i>Cercis canadensis</i> var. <i>canadensis</i>						
MANA	Manassas National Battlefield Park	Cornales	Cornaceae	<i>Cornus florida</i>	Flowering Dogwood	Present	Abundant	Native	Yes	No
MANA	Manassas National Battlefield Park	Fagales	Betulaceae	<i>Corylus americana</i>	American Hazelnut	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Common Boneset	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White Ash	Present	Abundant	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green Ash	Present	Common	Native	Yes	No
MANA	Manassas National Battlefield Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Black Huckleberry	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip-tree	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia Creeper	Present	Abundant	Native	Yes	No
MANA	Manassas National Battlefield Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia Pine	Present	Common	Native	Yes	No
MANA	Manassas National Battlefield Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Rosales	Rosaceae	<i>Prunus americana</i>	American Wild Plum	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet Cherry	Present	Unknown	Non-native	Yes	No
MANA	Manassas National Battlefield Park	Rosales	Rosaceae	<i>Prunus serotina</i>	Wild Black Cherry	Present	Unknown	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MANA	Manassas National Battlefield Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Probably Present		Native	Yes	No
MANA	Manassas National Battlefield Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> - <i>Rhus aromatica</i> var. <i>aromatica</i>	Fragrant Sumac	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	Winged Sumac	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny Blackberry	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	Sand Blackberry	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Cutleaved Coneflower	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black Willow	Present	Unknown	Native	Yes	No
MANA	Manassas National Battlefield Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	Yellow Crownbeard	Present	Unknown	Native	Yes	Yes
MANA	Manassas National Battlefield Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York Ironweed	Present	Unknown	Native	Yes	No
MANZ	Manzanar National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Uncommon	Non-native	Yes	Yes
MANZ	Manzanar National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Uncommon	Native	Yes	No
MANZ	Manzanar National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Non-native	Yes	No
MANZ	Manzanar National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrow-leaved willow	Present	Common	Native	Yes	No
MANZ	Manzanar National Historic Site	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Common	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MAVA	Martin Van Buren National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Unknown	Non-native	Yes	No
MAVA	Martin Van Buren National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
MAVA	Martin Van Buren National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
MAVA	Martin Van Buren National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Non-native	Yes	No
MAVA	Martin Van Buren National Historic Site	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MAVA	Martin Van Buren National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
MAVA	Martin Van Buren National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush, Guelder rose, viburnum	Present	Unknown	Non-native	Yes	No
MAVA	Martin Van Buren National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum opulus</i> var. <i>opulus</i>	European cranberrybush	Present	Unknown	Non-native	Yes	Yes
MAVA	Martin Van Buren National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
MEVE	Mesa Verde National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Unknown	Native	Yes	No
MEVE	Mesa Verde National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MEVE	Mesa Verde National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Myrtales	Onagraceae	<i>Oenothera elata</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
MEVE	Mesa Verde National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
MEVE	Mesa Verde National Park	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	chokecherry	Present	Unknown	Native	Yes	No
MEVE	Mesa Verde National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
MEVE	Mesa Verde National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore, sycamore maple	Present	Unknown	Non-native	Yes	No
MIMA	Minute Man National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
MIMA	Minute Man National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
MIMA	Minute Man National Historical Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Unknown	Non-native	Yes	No
MIMA	Minute Man National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MIMA	Minute Man National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Probably Present		Unknown	Yes	Yes
MIMA	Minute Man National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Unknown	Non-native	Yes	No
MIMA	Minute Man National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Oclemea acuminata</i>	whorled wood aster	Probably Present		Unknown	Yes	Yes
MIMA	Minute Man National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MIMA	Minute Man National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
MIMA	Minute Man National Historical Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain-ash, rowan, rowan-berry	Present	Unknown	Non-native	Yes	No
MIMA	Minute Man National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
MIMA	Minute Man National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Probably Present		Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Probably Present		Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Common	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MISS	Mississippi National River and Recreation Areas	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Common	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Probably Present		Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Common	Non-native	Yes	No
MISS	Mississippi National River and Recreation Areas	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Non-native	Yes	No
MISS	Mississippi National River and Recreation Areas	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Probably Present		Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Common	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MISS	Mississippi National River and Recreation Areas	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Unknown	Native	Yes	No
MISS	Mississippi National River and Recreation Areas	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Unknown	Native	Yes	Yes
MISS	Mississippi National River and Recreation Areas	Dipsacales	Adoxaceae	<i>Viburnum lantana</i>	wayfaring tree, wayfaringtree	Present	Unknown	Non-native	Yes	No
MISS	Mississippi National River and Recreation Areas	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
MNRR	Missouri National Recreational River	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
MNRR	Missouri National Recreational River	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
MNRR	Missouri National Recreational River	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MNRR	Missouri National Recreational River	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
MNRR	Missouri National Recreational River	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
MNRR	Missouri National Recreational River	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Uncommon	Native	Yes	No
MNRR	Missouri National Recreational River	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
MNRR	Missouri National Recreational River	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MNRR	Missouri National Recreational River	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Uncommon	Native	Yes	No
MNRR	Missouri National Recreational River	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Uncommon	Native	Yes	No
MNRR	Missouri National Recreational River	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Uncommon	Native	Yes	No
MNRR	Missouri National Recreational River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
MNRR	Missouri National Recreational River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
MNRR	Missouri National Recreational River	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
MNRR	Missouri National Recreational River	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	European buckthorn	Present	Unknown	Non-native	Yes	No
MNRR	Missouri National Recreational River	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Non-native	Yes	No
MNRR	Missouri National Recreational River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
MNRR	Missouri National Recreational River	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Uncommon	Native	Yes	No
MOCA	Montezuma Castle National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
MOCA	Montezuma Castle National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MOCA	Montezuma Castle National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
MOCA	Montezuma Castle National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera elata</i> ssp. <i>hirsutissima</i> , <i>Oenothera hookeri</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
MOCA	Montezuma Castle National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present		Unknown	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MOCA	Montezuma Castle National Monument	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
MOCA	Montezuma Castle National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
MOCA	Montezuma Castle National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
MOCA	Montezuma Castle National Monument	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
				- <i>Solidago canadensis</i> , <i>Solidago canadensis</i> var. <i>scabra</i>						
MOCR	Moore's Creek National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
MOCR	Moore's Creek National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
MOCR	Moore's Creek National Battlefield	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Non-native	Yes	No
MOCR	Moore's Creek National Battlefield	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
MOCR	Moore's Creek National Battlefield	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
MOCR	Moore's Creek National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
MOCR	Moore's Creek National Battlefield	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Non-native	Yes	No
MOCR	Moore's Creek National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
MOCR	Moore's Creek National Battlefield	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
MOCR	Moore's Creek National Battlefield	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
MOCR	Moore's Creek National Battlefield	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
MOJA	Mojave National Preserve	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Rare	Native	Yes	No
MOJA	Mojave National Preserve	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Rare	Non-native	Yes	No
MOJA	Mojave National Preserve	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No
MOJA	Mojave National Preserve	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Uncommon	Native	Yes	No
MONO	Monocacy National Battlefield	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
MONO	Monocacy National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Uncommon	Non-native	Yes	Yes
MONO	Monocacy National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	hardy catalpa	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Rare	Native	Yes	No
MONO	Monocacy National Battlefield	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MONO	Monocacy National Battlefield	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	bigleaf aster	Present	Unknown	Native	Yes	Yes
MONO	Monocacy National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
MONO	Monocacy National Battlefield	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Uncommon	Native	Yes	Yes
MONO	Monocacy National Battlefield	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet cicely	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
MONO	Monocacy National Battlefield	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
MONO	Monocacy National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
MONO	Monocacy National Battlefield	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	pin cherry	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
MONO	Monocacy National Battlefield	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Rare	Native	Yes	No
MONO	Monocacy National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Native	Yes	No
MONO	Monocacy National Battlefield	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Uncommon	Native	Yes	Yes
MONO	Monocacy National Battlefield	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	greenhead coneflower	Present	Unknown	Native	Yes	Yes
MONO	Monocacy National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Rare	Native	Yes	No
MONO	Monocacy National Battlefield	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	Present	Rare	Native	Yes	Yes
MONO	Monocacy National Battlefield	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Rare	Native	Yes	Yes
MORA	Mount Rainier National Park	Fagales	Betulaceae	<i>Alnus rubra</i>	Red alder, Oregon alder	Present	Abundant	Native	Yes	Yes
MORA	Mount Rainier National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i> - <i>Apocynum androsaemifolium</i> ssp. <i>androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Rare	Native	Yes	Yes
MORA	Mount Rainier National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Rare	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
MORA	Mount Rainier National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> - <i>Lonicera involucrata</i> var. <i>involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Rare	Native	Yes	No
MORA	Mount Rainier National Park	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	Pacific ninebark	Present	Uncommon	Native	Yes	Yes
MORA	Mount Rainier National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i> - <i>Pinus ponderosa</i> var. <i>ponderosa</i>	Western yellow,ponderosa pine	Present	Rare	Native	Yes	Yes
MORA	Mount Rainier National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Abundant	Native	Yes	Yes
MORA	Mount Rainier National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i> - <i>Symphoricarpos albus</i> var. <i>albus</i>	common snowberry	Present	Common	Native	Yes	Yes
MORA	Mount Rainier National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	BLACK MT HUCKLEBERRY; BIG*, BLACK MT. HUCKLEBERRY; *, High- Bush Huckleberry	Present	Abundant	Native	Yes	Yes
MORR	Morristown National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Unknown	Non-native	Yes	No
MORR	Morristown National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
MORR	Morristown National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Tall Milkweed	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Asterales	Asteraceae	<i>Centaurea nigra</i>	Black Knapweed	Present	Unknown	Non-native	Yes	No
MORR	Morristown National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MORR	Morristown National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	mock orange	Present	Unknown	Non-native	Yes	No
MORR	Morristown National Historical Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
MORR	Morristown National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny Blackberry, Highbush Blackberry	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MORR	Morristown National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elder, elderberry	Present	Common	Native	Yes	Yes
MORR	Morristown National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
MORR	Morristown National Historical Park	Asterales	Asteraceae	<i>Solidago altissima</i>	tall goldenrod	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
MORR	Morristown National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
MORU	Mount Rushmore National Memorial	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> ssp. <i>occidentalis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
MORU	Mount Rushmore National Memorial	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Unknown	Native	Yes	No
MORU	Mount Rushmore National Memorial	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present		Native	Yes	Yes
MORU	Mount Rushmore National Memorial	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
MORU	Mount Rushmore National Memorial	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
MORU	Mount Rushmore National Memorial	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Common	Native	Yes	Yes
MORU	Mount Rushmore National Memorial	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
MORU	Mount Rushmore National Memorial	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
MORU	Mount Rushmore National Memorial	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Unknown	Native	Yes	No
MORU	Mount Rushmore National Memorial	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present		Native	Yes	No
MORU	Mount Rushmore National Memorial	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
MORU	Mount Rushmore National Memorial	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
MUWO	Muir Woods National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
MUWO	Muir Woods National Monument	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Unknown	Native	Yes	Yes
MUWO	Muir Woods National Monument	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Unknown	Native	Yes	Yes
MUWO	Muir Woods National Monument	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Unknown	Native	Yes	No
MUWO	Muir Woods National Monument	Pinales	Pinaceae	<i>Pinus radiata</i>	insignis pine, Monterey pine	Present	Unknown	Non-native	Yes	No
MUWO	Muir Woods National Monument	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Unknown	Native	Yes	No
MUWO	Muir Woods National Monument	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus mexicana</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
NABR	Natural Bridges National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Uncommon	Native	Yes	No
NABR	Natural Bridges National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i>	Western evening-primrose	Present	Uncommon	Native	Yes	Yes
NABR	Natural Bridges National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Unknown	Native	Yes	No
NATR	Natchez Trace Parkway	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Ageratina altissima</i>	white snakeroot	Present	Abundant	Native	Yes	Yes
NATR	Natchez Trace Parkway	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Common	Non-native	Yes	Yes
NATR	Natchez Trace Parkway	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
NATR	Natchez Trace Parkway	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
NATR	Natchez Trace Parkway	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
NATR	Natchez Trace Parkway	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Rare	Native	Yes	No
NATR	Natchez Trace Parkway	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Abundant	Native	Yes	Yes
NATR	Natchez Trace Parkway	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
NATR	Natchez Trace Parkway	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus biltmoreana</i>	white ash	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No
NATR	Natchez Trace Parkway	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Abundant	Native	Yes	Yes
NATR	Natchez Trace Parkway	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NATR	Natchez Trace Parkway	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Abundant	Native	Yes	No
NATR	Natchez Trace Parkway	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Abundant	Native	Yes	No
NATR	Natchez Trace Parkway	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	raspberry	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
NATR	Natchez Trace Parkway	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Common	Native	Yes	No
NATR	Natchez Trace Parkway	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i>	Chinese tallow, tallowtree	Present	Rare	Non-native	Yes	Yes
NATR	Natchez Trace Parkway	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
NAVA	Navajo National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
NAVA	Navajo National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NAVA	Navajo National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
NAVA	Navajo National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Unknown	Native	Yes	Yes
NAVA	Navajo National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
NAVA	Navajo National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
NAVA	Navajo National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
NAVA	Navajo National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
NEPE	Nez Perce National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	SILVER MAPLE	Present	Unknown	Native	Yes	No
NEPE	Nez Perce National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Western Yarrow, Yarrow	Present	Occasional	Native	Yes	No
NEPE	Nez Perce National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	AILANTHUS	Present	Common	Non-native	Yes	Yes
NEPE	Nez Perce National Historical Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	SERVICE BERRY	Present	Occasional	Native	Yes	No
NEPE	Nez Perce National Historical Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Unknown	Native	Yes	Yes
NEPE	Nez Perce National Historical Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Prairie sagebrush	Present	Occasional	Native	Yes	Yes
NEPE	Nez Perce National Historical Park	Fagales	Betulaceae	<i>Betula pendula</i>	European white birch	Present	Unknown	Non-native	Yes	No
NEPE	Nez Perce National Historical Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Occasional	Non-native	Yes	No
NEPE	Nez Perce National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Occasional	Non-native	Yes	No
NEPE	Nez Perce National Historical Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	PONDEROSA PINE	Present	Occasional	Native	Yes	Yes
NEPE	Nez Perce National Historical Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Native	Yes	No
NEPE	Nez Perce National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	COMMON CHOKECHERRY	Present	Occasional	Native	Yes	No
NEPE	Nez Perce National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	BLACK LOCUST	Present	Common	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NEPE	Nez Perce National Historical Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Occasional	Native	Yes	No
NEPE	Nez Perce National Historical Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	COYOTE WILLOW	Present	Unknown	Native	Yes	No
NEPE	Nez Perce National Historical Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	COMMON SNOWBERRY	Present	Uncommon	Native	Yes	Yes
NERI	New River Gorge National River	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	Poke milkweed	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Unknown	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NERI	New River Gorge National River	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i> , <i>Aster macrophyllus</i> var. <i>macrophyllus</i>	bigleaf aster	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Ericales	Ericaceae	<i>Lyonia ligustrina</i> var. <i>ligustrina</i>	maleberry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Oclemena acuminata</i>	whorled wood aster	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Pinales	Pinaceae	<i>Pinus pungens</i>	hickory pine, prickley pine, Table Mountain pine	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Unknown	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NERI	New River Gorge National River	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	chokecherry	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	common buckthorn	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i>	fragrant sumac	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> var. <i>copallinum</i>	winged sumac	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i>	cutleaf coneflower	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Salix exigua</i>	sandbar willow	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Unknown	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Salix purpurea</i>	purple willow	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Solidago altissima</i>	tall goldenrod	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Unknown	Yes	Yes
NERI	New River Gorge National River	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Unknown	Yes	No
NERI	New River Gorge National River	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	possumhaw, withe-rod	Present	Unknown	Unknown	Yes	Yes
NIOB	Niobrara National Scenic River	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Probably Present		Native	Yes	Yes
NIOB	Niobrara National Scenic River	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
NIOB	Niobrara National Scenic River	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsparilla	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
NIOB	Niobrara National Scenic River	Fagales	Betulaceae	<i>Corylus americana</i>	hazlenut	Probably Present		Native	Yes	Yes
NIOB	Niobrara National Scenic River	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
					- <i>Fraxinus pennsylvanica</i> var. <i>pennsylvanica</i>					



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
NIOB	Niobrara National Scenic River	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet cicely	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Pinales	Pinaceae	<i>Pinus ponderosa</i>	ponderosa pine	Present	Unknown	Native	Yes	Yes
NIOB	Niobrara National Scenic River	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
NIOB	Niobrara National Scenic River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
NIOB	Niobrara National Scenic River	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Probably Present		Native	Yes	Yes
NISI	Ninety Six National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No
NISI	Ninety Six National Historic Site	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NISI	Ninety Six National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
NISI	Ninety Six National Historic Site	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	blue elder	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
NISI	Ninety Six National Historic Site	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
NOAT	Noatak National Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Probably Present		Native	Yes	Yes
NOAT	Noatak National Preserve	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Present	Unknown	Native	Yes	No
NOCA	North Cascades National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
NOCA	North Cascades National Park	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Unknown	Native	Yes	No
NOCA	North Cascades National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i> - <i>Apocynum androsaemifolium</i> ssp. <i>pumilum</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NOCA	North Cascades National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Ranunculales	Ranunculaceae	<i>Clematis vitalba</i>	travelers-joy	Present	Unknown	Non-native	Yes	No
NOCA	North Cascades National Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Present	Unknown	Non-native	Yes	No
NOCA	North Cascades National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	hops	Present	Unknown	Non-native	Yes	No
NOCA	North Cascades National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Unknown	Native	Yes	No
NOCA	North Cascades National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	black twin-berry	Present	Unknown	Native	Yes	No
NOCA	North Cascades National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Non-native	Yes	No
NOCA	North Cascades National Park	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	Pacific ninebark	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Unknown	Native	Yes	No
NOCA	North Cascades National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Rudbeckia	Present	Unknown	Non-native	Yes	Yes
NOCA	North Cascades National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain-ash	Present	Unknown	Non-native	Yes	No
NOCA	North Cascades National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i> var. <i>albus</i>	common snowberry	Present	Unknown	Native	Yes	Yes
NOCA	North Cascades National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i> - <i>Vaccinium globulare</i>	mountain bilberry, thinleaf huckleberry	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OBRI	Obed Wild and Scenic River	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
OBRI	Obed Wild and Scenic River	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Lamiales	Oleaceae	<i>Fraxinus americana</i> - <i>Fraxinus americana</i> var. <i>biltmoreana</i>	white ash	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present		Native	Yes	No
OBRI	Obed Wild and Scenic River	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Pinales	Pinaceae	<i>Pinus pungens</i>	hickory pine, prickley pine, Table Mountain pine	Present		Native	Yes	No
OBRI	Obed Wild and Scenic River	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OBRI	Obed Wild and Scenic River	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present		Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
OBRI	Obed Wild and Scenic River	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
OBRI	Obed Wild and Scenic River	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Uncommon	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Uncommon	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Uncommon	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Uncommon	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OCMU	Ocmulgee Mounds National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Uncommon	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Common	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Uncommon	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Present	Uncommon	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
OCMU	Ocmulgee Mounds National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
				- <i>Sassafras officinale</i>						
OCMU	Ocmulgee Mounds National Historical Park	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i>	tallow tree; popcorn tree	Present	Common	Non-native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Common	Native	Yes	Yes
OCMU	Ocmulgee Mounds National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	ironweed	Present	Uncommon	Native	Yes	No
OLYM	Olympic National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
OLYM	Olympic National Park	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Abundant	Native	Yes	Yes
OLYM	Olympic National Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	oneseed hawthorn, singleseed hawthorn	Probably Present		Non-native	Yes	No
OLYM	Olympic National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Present	Unknown	Native	Yes	No
				- <i>Lonicera involucrata</i>						
OLYM	Olympic National Park	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	Pacific ninebark	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OLYM	Olympic National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
OLYM	Olympic National Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Probably Present		Non-native	Yes	No
OLYM	Olympic National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Probably Present		Non-native	Yes	No
OLYM	Olympic National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler willow	Present	Uncommon	Native	Yes	Yes
OLYM	Olympic National Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain-ash, rowan, rowan-berry	Probably Present		Non-native	Yes	No
OLYM	Olympic National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	Thin leaved huckleberry	Present	Common	Native	Yes	Yes
ORCA	Oregon Caves National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow, Yarrow	Present	Common	Native	Yes	No
ORCA	Oregon Caves National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry, Service Berry, TUNEOENNY	Present	Common	Native	Yes	No
ORCA	Oregon Caves National Monument	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitter dogbane, Dogbane, spreading dogbane	Present	Rare	Native	Yes	Yes
ORCA	Oregon Caves National Monument	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' sagewort, Wormwood	Present	Uncommon	Native	Yes	Yes
ORCA	Oregon Caves National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	Ponderosa Pine	Present	Common	Native	Yes	Yes
ORCA	Oregon Caves National Monument	Fagales	Fagaceae	<i>Quercus kelloggii</i>	California Black Oak, CANYON OAK, kellog's oak	Present	Common	Native	Yes	No
ORCA	Oregon Caves National Monument	Rosales	Rosaceae	<i>Rubus parviflorus</i>	Bramble, THIMBLEBERRY	Present	Common	Native	Yes	No
ORCA	Oregon Caves National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's Willow	Present	Unknown	Native	Yes	Yes
ORPI	Organ Pipe Cactus National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>albula</i>	white sagebrush	Present	Unknown	Native	Yes	Yes
ORPI	Organ Pipe Cactus National Monument	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
ORPI	Organ Pipe Cactus National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
OXHI	Oxon Cove Park and Oxon Hill Run	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
OXHI	Oxon Cove Park and Oxon Hill Run	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Dogbane	Present	Unknown	Native	Yes	No
OXHI	Oxon Cove Park and Oxon Hill Run	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OXHI	Oxon Cove Park and Oxon Hill Run	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip Tree	Present	Unknown	Native	Yes	Yes
OXHI	Oxon Cove Park and Oxon Hill Run	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Rare	Native	Yes	No
OXHI	Oxon Cove Park and Oxon Hill Run	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Unknown	Native	Yes	No
OXHI	Oxon Cove Park and Oxon Hill Run	Lurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Unknown	Native	Yes	Yes
OXRU	Oxon Run National Parkway	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
OXRU	Oxon Run National Parkway	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	BUTTONBUSH	Probably Present		Native	Yes	No
OXRU	Oxon Run National Parkway	Cornales	Cornaceae	<i>Cornus florida</i>	FLOWERING DOGWOOD	Probably Present		Native	Yes	No
OXRU	Oxon Run National Parkway	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	BONESET	Probably Present		Native	Yes	No
OXRU	Oxon Run National Parkway	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	SWEET GUM	Probably Present		Native	Yes	No
OXRU	Oxon Run National Parkway	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	TULIP POPULAR	Probably Present		Native	Yes	Yes
OXRU	Oxon Run National Parkway	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	MALEBERRY, male-berry	Present	Unknown	Native	Yes	Yes
OXRU	Oxon Run National Parkway	Pinales	Pinaceae	<i>Pinus virginiana</i>	VIRGINIA PINE	Probably Present		Native	Yes	No
OXRU	Oxon Run National Parkway	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	WINGED SUMAC	Probably Present		Native	Yes	No
OXRU	Oxon Run National Parkway	Lurales	Lauraceae	<i>Sassafras albidum</i>	SASSAFRAS	Probably Present		Native	Yes	Yes
OXRU	Oxon Run National Parkway	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	NEW YORK IRONWEED	Probably Present		Native	Yes	No
OZAR	Ozark National Scenic Riverways	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Non-native	Yes	No
OZAR	Ozark National Scenic Riverways	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Uncommon	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Abundant	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OZAR	Ozark National Scenic Riverways	Gentianales	Apocynaceae	<i>Asclepias incarnata</i> - <i>Asclepias incarnata</i> ssp. <i>incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Fabales	Fabaceae	<i>Cercis canadensis</i> - <i>Cercis canadensis</i> var. <i>canadensis</i>	eastern redbud, redbud	Present	Abundant	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Common	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i> - <i>Eupatorium perfoliatum</i> var. <i>perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Abundant	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Abundant	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Common	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>serotina</i>	black cherry, black chokecherry	Present	Abundant	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> - <i>Rhus aromatica</i> var. <i>aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
OZAR	Ozark National Scenic Riverways	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> - <i>Rudbeckia laciniata</i> var. <i>laciniata</i>	cutleaf coneflower, green- head coneflower	Present	Common	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
OZAR	Ozark National Scenic Riverways	Asterales	Asteraceae	<i>Silphium perfoliatum</i> - <i>Silphium perfoliatum</i> var. <i>perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Uncommon	Native	Yes	No
OZAR	Ozark National Scenic Riverways	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	Canada goldenrod	Present	Common	Native	Yes	No
PAAL	Palo Alto Battlefield National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	gulf black willow	Present	Unknown	Native	Yes	No
PAIS	Padre Island National Seashore	Malpighiales	Salicaceae	<i>Salix nigra</i> - <i>Salix nigra</i> var. <i>lindheimeri</i>	Black willow	Present	Unknown	Native	Yes	No
PAIS	Padre Island National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
PARA	Parashant National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
PARA	Parashant National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i> - <i>Prunus virginiana</i> var. <i>melanocarpa</i>	Chokecherry	Present	Uncommon	Native	Yes	No
PARA	Parashant National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	Coyote willow	Present	Uncommon	Native	Yes	No
PARA	Parashant National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Uncommon	Native	Yes	No
PECO	Pecos National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
PECO	Pecos National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
PECO	Pecos National Historical Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
PECO	Pecos National Historical Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Uncommon	Native	Yes	Yes
PECO	Pecos National Historical Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow	Present	Common	Native	Yes	No
PECO	Pecos National Historical Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Rare	Native	Yes	No
PEFO	Petrified Forest National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Rare	Non-native	Yes	Yes
PEFO	Petrified Forest National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Uncommon	Native	Yes	Yes
PEFO	Petrified Forest National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
PEFO	Petrified Forest National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Abundant	Native	Yes	No
PERI	Pea Ridge National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Common	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
PERI	Pea Ridge National Military Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PERI	Pea Ridge National Military Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Uncommon	Native	Yes	No
PERI	Pea Ridge National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Uncommon	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No
PERI	Pea Ridge National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Abundant	Native	Yes	No
PERI	Pea Ridge National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Common	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Probably Present		Native	Yes	No
PERI	Pea Ridge National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i> - <i>Prunus serotina</i> var. <i>serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Uncommon	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No
PERI	Pea Ridge National Military Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i> - <i>Rubus allegheniensis</i> var. <i>allegheniensis</i>	Allegheny blackberry	Present	Rare	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
PERI	Pea Ridge National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Uncommon	Native	Yes	Yes
PERI	Pea Ridge National Military Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
PETE	Petersburg National Battlefield	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PETE	Petersburg National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
PETE	Petersburg National Battlefield	Fabales	Fabaceae	<i>Apios americana</i>	groundnu	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Probably Present		Native	Yes	No
PETE	Petersburg National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PETE	Petersburg National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
PETE	Petersburg National Battlefield	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
PETE	Petersburg National Battlefield	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
PINN	Pinnacles National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
PINN	Pinnacles National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian Hemp	Present	Unknown	Native	Yes	No
PINN	Pinnacles National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Common	Native	Yes	Yes
PINN	Pinnacles National Park	Apiales	Apiaceae	<i>Osmorhiza brachypoda</i>	California sweetcicely, California sweet-cicely	Present	Uncommon	Native	Yes	No
PINN	Pinnacles National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Uncommon	Unknown	Yes	No
PIPE	Pipestone National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Hemp dogbane	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	White sage	Present	Uncommon	Native	Yes	Yes
PIPE	Pipestone National Monument	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Uncommon	Native	Yes	Yes
PIPE	Pipestone National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Ash	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Bland sweet cicely	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper, woodbine	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	European mock-orange	Present	Uncommon	Non-native	Yes	No
PIPE	Pipestone National Monument	Malpighiales	Salicaceae	<i>Populus nigra</i>	Black poplar	Present	Uncommon	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PIPE	Pipestone National Monument	Rosales	Rosaceae	<i>Prunus americana</i>	Wild plum	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	Choke-cherry	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Common buckthorn	Present	Common	Non-native	Yes	No
PIPE	Pipestone National Monument	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Uncommon	Non-native	Yes	No
				- <i>Salix alba</i> var. <i>vitellina</i>						
PIPE	Pipestone National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar willow	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black willow	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	Cup-plant	Present	Uncommon	Native	Yes	No
PIPE	Pipestone National Monument	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	Sheepberry, nannyberry	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Occasional	Native	Yes	Yes
				- <i>Eupatorium rugosum</i>						
PIRO	Pictured Rocks National Lakeshore	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
				- <i>Alnus rugosa</i>						
PIRO	Pictured Rocks National Lakeshore	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common Milkweed	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PIRO	Pictured Rocks National Lakeshore	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bigleaf aster	Present	Common	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White Ash	Present	Unknown	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	green ash	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus inserta</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Pinales	Pinaceae	<i>Pinus banksiana</i>	Jack Pine	Present	Common	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Common	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Probably Present		Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Probably Present		Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Malpighiales	Salicaceae	<i>Salix discolor</i>	Pussy willow	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Salix interior</i>										
PIRO	Pictured Rocks National Lakeshore	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Probably Present		Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	mountain bilberry, thinleaf huckleberry	Present	Uncommon	Native	Yes	Yes
PIRO	Pictured Rocks National Lakeshore	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Uncommon	Native	Yes	No
PIRO	Pictured Rocks National Lakeshore	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i>	possumhaw, withe-rod	Present	Common	Native	Yes	Yes
- <i>Viburnum cassinoides</i>										
PISC	Piscataway Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Probably Present		Native	Yes	No
PISC	Piscataway Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Probably Present		Native	Yes	No
PISC	Piscataway Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Probably Present		Native	Yes	Yes
- <i>Eupatorium rugosum</i>										
PISC	Piscataway Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
PISC	Piscataway Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Unknown	Yes	Yes
PISC	Piscataway Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	hemp-dogbane	Present	Unknown	Native	Yes	No
PISC	Piscataway Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
PISC	Piscataway Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Probably Present		Native	Yes	Yes
- <i>Tecoma radicans</i>										
PISC	Piscataway Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Probably Present		Native	Yes	No
PISC	Piscataway Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
PISC	Piscataway Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazel-nut	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PISC	Piscataway Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i> - <i>Fraxinus pennsylvanica</i> var. <i>subintegerrima</i>	red ash	Probably Present		Native	Yes	No
PISC	Piscataway Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
PISC	Piscataway Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweet gum	Probably Present		Native	Yes	No
PISC	Piscataway Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
PISC	Piscataway Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Probably Present		Unknown	Yes	Yes
PISC	Piscataway Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	bland sweet cicely	Probably Present		Native	Yes	No
PISC	Piscataway Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i> - <i>Robinia pseudo-acacia</i>	black locust	Probably Present		Native	Yes	No
PISC	Piscataway Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	green-head coneflower	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
PISC	Piscataway Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Rare	Native	Yes	No
PISC	Piscataway Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Asterales	Asteraceae	<i>Solidago altissima</i> ssp. <i>altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	Canada goldenrod, late goldenrod	Probably Present		Native	Yes	No
PISC	Piscataway Park	Malvales	Malvaceae	<i>Tilia cordata</i>	European basswood	Present	Unknown	Non-native	Yes	No
PISC	Piscataway Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	southern flatseed sunflower	Present	Common	Native	Yes	Yes
PISC	Piscataway Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PISC	Piscataway Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Probably Present		Native	Yes	Yes
PISP	Pipe Spring National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
PISP	Pipe Spring National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Common dogbane	Present	Rare	Native	Yes	No
PISP	Pipe Spring National Monument	Malpighiales	Salicaceae	<i>Populus nigra</i>	Black poplar	Probably Present		Non-native	Yes	No
PISP	Pipe Spring National Monument	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Non-native	Yes	No
PISP	Pipe Spring National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Uncommon	Non-native	Yes	No
PORE	Point Reyes National Seashore	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> ssp. <i>californica</i>	common yarrow, Yarrow	Present	Unknown	Native	Yes	No
PORE	Point Reyes National Seashore	Fagales	Betulaceae	<i>Alnus rubra</i> - <i>Alnus oregona</i>	Red Alder	Present	Unknown	Native	Yes	Yes
PORE	Point Reyes National Seashore	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' sagewort, Mugwort	Present	Unknown	Native	Yes	Yes
PORE	Point Reyes National Seashore	Apiales	Apiaceae	<i>Osmorhiza brachypoda</i>	California sweet-cicely	Present	Unknown	Native	Yes	No
PORE	Point Reyes National Seashore	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	Pacific ninebark	Probably Present		Native	Yes	Yes
PORE	Point Reyes National Seashore	Pinales	Pinaceae	<i>Pinus radiata</i>	Monterey Pine	Present	Uncommon	Non-native	Yes	No
PORE	Point Reyes National Seashore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Rare	Non-native	Yes	No
PORE	Point Reyes National Seashore	Rosales	Rosaceae	<i>Rubus parviflorus</i> - <i>Rubus parviflorus</i> var. <i>velutinus</i>	Thimbleberry	Present	Common	Native	Yes	No
PORE	Point Reyes National Seashore	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Non-native	Yes	No
PRPA	President's Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
PRPA	President's Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
PRPA	President's Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Unknown	Native	Yes	Yes
PRPA	President's Park	Malvales	Malvaceae	<i>Tilia cordata</i>	littleleaf linden	Present	Unknown	Non-native	Yes	No
PRPA	President's Park	Malvales	Malvaceae	<i>Tilia platyphyllos</i>	largeleaf linden	Present	Unknown	Non-native	Yes	No
PRPA	President's Park	Rosales	Ulmaceae	<i>Ulmus procera</i>	English elm	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
				- <i>Ulmus carpinifolia</i> , <i>Ulmus minor</i>						
PRSF	Presidio of San Francisco	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Abundant	Native	Yes	No
				- <i>Achillea borealis</i> var. <i>californica</i>						
PRSF	Presidio of San Francisco	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Rare	Native	Yes	Yes
PRSF	Presidio of San Francisco	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Rare	Native	Yes	Yes
PRSF	Presidio of San Francisco	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Uncommon	Native	Yes	Yes
				- <i>Oenothera hookeri</i>						
PRSF	Presidio of San Francisco	Pinales	Pinaceae	<i>Pinus radiata</i>	Monterey pine	Present	Common	Non-native	Yes	No
PRSF	Presidio of San Francisco	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Rare	Native	Yes	No
PRSF	Presidio of San Francisco	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Uncommon	Native	Yes	Yes
				- <i>Sambucus mexicana</i>						
PRSF	Presidio of San Francisco	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	red elderberry	Present	Common	Native	Yes	Yes
				- <i>Sambucus callicarpa</i>						
PRSF	Presidio of San Francisco	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Uncommon	Native	Yes	Yes
PRWI	Prince William Forest Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Unknown	Yes	No
PRWI	Prince William Forest Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree Of Heaven	Present	Unknown	Non-native	Yes	Yes
PRWI	Prince William Forest Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
PRWI	Prince William Forest Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green Ash	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	Tulip Tree	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia Creeper	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Pinales	Pinaceae	<i>Pinus pungens</i>	Table Mountain Pine	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Pinales	Pinaceae	<i>Pinus rigida</i>	Pitch Pine	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
PRWI	Prince William Forest Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet Cherry	Present	Unknown	Non-native	Yes	No
PRWI	Prince William Forest Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Fire Cherry	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green- head coneflower	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Unknown	Yes	Yes
				- <i>Sambucus canadensis</i>						
PRWI	Prince William Forest Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
PRWI	Prince William Forest Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
PRWI	Prince William Forest Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Abundant	Native	Yes	Yes
RABR	Rainbow Bridge National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
RABR	Rainbow Bridge National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
RABR	Rainbow Bridge National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Parthenocissus inserta</i>										
RABR	Rainbow Bridge National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
REDW	Redwood National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow, Milfoil	Present	Abundant	Native	Yes	No
REDW	Redwood National Park	Fagales	Betulaceae	<i>Alnus rubra</i>	Red Alder	Present	Abundant	Native	Yes	Yes
REDW	Redwood National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Uncommon	Native	Yes	No
REDW	Redwood National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Bitter Dogbane	Present	Rare	Native	Yes	Yes
REDW	Redwood National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian Hemp	Probably Present		Native	Yes	No
REDW	Redwood National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Sagebrush	Present	Unknown	Native	Yes	Yes
REDW	Redwood National Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	Hawthorn	Present	Uncommon	Non-native	Yes	No
REDW	Redwood National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Rare	Non-native	Yes	Yes
REDW	Redwood National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	Twinberry	Present	Uncommon	Native	Yes	No
REDW	Redwood National Park	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	Ninebark	Present	Uncommon	Native	Yes	Yes
REDW	Redwood National Park	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	Jeffrey Pine	Present	Uncommon	Native	Yes	Yes
REDW	Redwood National Park	Pinales	Pinaceae	<i>Pinus radiata</i>	insignis pine, Monterey pine	Present	Uncommon	Non-native	Yes	No
REDW	Redwood National Park	Rosales	Rosaceae	<i>Prunus avium</i>	bird cherry	Present	Uncommon	Non-native	Yes	No
REDW	Redwood National Park	Fagales	Fagaceae	<i>Quercus kelloggii</i>	California Black Oak	Present	Uncommon	Native	Yes	No
REDW	Redwood National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black Locust	Present	Rare	Non-native	Yes	No
REDW	Redwood National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	Thimbleberry	Present	Common	Native	Yes	No
REDW	Redwood National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Probably Present		Native	Yes	Yes
REDW	Redwood National Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	Red Elderberry	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
RICH	Richmond National Battlefield Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
RICH	Richmond National Battlefield Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Probably Present		Native	Yes	No
RICH	Richmond National Battlefield Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Probably Present		Native	Yes	Yes
RICH	Richmond National Battlefield Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Probably Present		Non-native	Yes	No
RICH	Richmond National Battlefield Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Probably Present		Native	Yes	No
RICH	Richmond National Battlefield Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
RICH	Richmond National Battlefield Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Malpighiales	Salicaceae	<i>Salix alba</i>	white willow	Probably Present		Non-native	Yes	No
RICH	Richmond National Battlefield Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	common elderberry	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	Canada goldenrod	Probably Present		Native	Yes	No
RICH	Richmond National Battlefield Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
RICH	Richmond National Battlefield Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
RICH	Richmond National Battlefield Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Probably Present		Native	Yes	Yes
ROCR	Rock Creek Park	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	Sycamore Maple	Present	Uncommon	Non-native	Yes	No
ROCR	Rock Creek Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Common	Non-native	Yes	No
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Occasional	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ROCR	Rock Creek Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Common	Non-native	Yes	Yes
ROCR	Rock Creek Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Rare	Native	Yes	Yes
ROCR	Rock Creek Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Occasional	Native	Yes	Yes
ROCR	Rock Creek Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Rare	Native	Yes	Yes
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Centaurea nigra</i>	Knapweed	Present	Unknown	Non-native	Yes	No
ROCR	Rock Creek Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Occasional	Native	Yes	Yes
ROCR	Rock Creek Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
ROCR	Rock Creek Park	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Present	Uncommon	Native	Yes	Yes
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
ROCR	Rock Creek Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
ROCR	Rock Creek Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
ROCR	Rock Creek Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Common	Native	Yes	Yes
ROCR	Rock Creek Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet cicely	Present	Common	Native	Yes	No
ROCR	Rock Creek Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
ROCR	Rock Creek Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Common	Non-native	Yes	No
ROCR	Rock Creek Park	Pinales	Pinaceae	<i>Pinus pungens</i>	hickory pine	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	scrub pine	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ROCR	Rock Creek Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Common	Non-native	Yes	No
ROCR	Rock Creek Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
ROCR	Rock Creek Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
ROCR	Rock Creek Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	Virginia chokecherry	Present	Unknown	Native	Yes	No
ROCR	Rock Creek Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Occasional	Non-native	Yes	Yes
ROCR	Rock Creek Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	Winged Sumac	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i> - <i>Robinia pseudo-acacia</i>	black locust	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	green-headed coneflower	Present	Occasional	Native	Yes	Yes
ROCR	Rock Creek Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Malpighiales	Salicaceae	<i>Salix purpurea</i>	Basket Willow	Present	Unknown	Non-native	Yes	No
ROCR	Rock Creek Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Occasional	Native	Yes	Yes
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Solidago altissima</i>	tall goldenrod	Present	Occasional	Native	Yes	No
ROCR	Rock Creek Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Rare	Native	Yes	No
ROCR	Rock Creek Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	Guelder rose	Present	Rare	Non-native	Yes	No
ROMO	Rocky Mountain National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Shadbush	Present	Common	Native	Yes	No
ROMO	Rocky Mountain National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading Dogbane	Present	Common	Native	Yes	Yes
ROMO	Rocky Mountain National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild Sarsaparilla	Present	Uncommon	Native	Yes	No
ROMO	Rocky Mountain National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
ROMO	Rocky Mountain National Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
ROMO	Rocky Mountain National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	Bush Honeysuckle, twinberry honeysuckle	Present	Common	Native	Yes	No
ROMO	Rocky Mountain National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking Aspen	Present	Common	Native	Yes	Yes
ROMO	Rocky Mountain National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>ampla</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
ROMO	Rocky Mountain National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i>	Golden-glow	Present	Common	Native	Yes	Yes
ROMO	Rocky Mountain National Park	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Native	Yes	No
ROMO	Rocky Mountain National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler Willow	Present	Common	Native	Yes	Yes
RUCA	Russell Cave National Monument	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
RUCA	Russell Cave National Monument	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
RUCA	Russell Cave National Monument	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
RUCA	Russell Cave National Monument	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Pinales	Pinaceae	<i>Pinus virginiana</i>	Jersey pine, scrub pine, Virginia pine	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
RUCA	Russell Cave National Monument	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Present	Unknown	Non-native	Yes	No
RUCA	Russell Cave National Monument	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
RUCA	Russell Cave National Monument	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
SAAN	San Antonio Missions National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Ghetto palm, tree-of-heaven	Present	Rare	Non-native	Yes	Yes
SAAN	San Antonio Missions National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Rare	Native	Yes	No
SAAN	San Antonio Missions National Historical Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	western mugwort	Present	Rare	Native	Yes	Yes
SAAN	San Antonio Missions National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet-creeper	Present	Common	Native	Yes	Yes
SAAN	San Antonio Missions National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
SAAN	San Antonio Missions National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	eastern sycamore	Present	Occasional	Native	Yes	Yes
SAAN	San Antonio Missions National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Occasional	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Salix nigra</i> var. <i>nigra</i>										
SACN	Saint Croix National Scenic Riverway	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
- <i>Ageratina altissima</i> var. <i>altissima</i>										
SACN	Saint Croix National Scenic Riverway	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
- <i>Alnus incana</i> , <i>Alnus incana</i> , <i>Alnus rugosa</i>										
SACN	Saint Croix National Scenic Riverway	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Common	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Uncommon	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Uncommon	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Rare	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
SACN	Saint Croix National Scenic Riverway	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Common	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Common	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Uncommon	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bingleaf aster	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Common	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
SACN	Saint Croix National Scenic Riverway	Pinales	Pinaceae	<i>Pinus banksiana</i>	black pine, gray pine, Hudson Bay pine, jack pine, scrub pine	Present	Common	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Uncommon	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Uncommon	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
SACN	Saint Croix National Scenic Riverway	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
SACN	Saint Croix National Scenic Riverway	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Probably Present		Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Uncommon	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Common	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix interior</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	cup plant, cupleaf rosinweed, cup-plant, squarestem rosinweed	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
SACN	Saint Croix National Scenic Riverway	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain-ash, rowan, rowan-berry	Present	Unknown	Non-native	Yes	No
SACN	Saint Croix National Scenic Riverway	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Common	Native	Yes	Yes
SACN	Saint Croix National Scenic Riverway	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SAGA	Saint-Gaudens National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Non-native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	chokecherry	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SAGA	Saint-Gaudens National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
SAGA	Saint-Gaudens National Historical Park	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	Bramble	Probably Present		Unknown	Yes	No
SAGA	Saint-Gaudens National Historical Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Malpighiales	Salicaceae	<i>Salix purpurea</i>	basket willow, purple osier, purple willow	Present	Unknown	Non-native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
SAGA	Saint-Gaudens National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush, Guelder rose, viburnum	Probably Present		Unknown	Yes	No
SAGU	Saguaro National Park	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea lanulosa</i> , <i>Achillea millefolium</i> var. <i>lanulosa</i> , <i>Achillea millefolium</i> var. <i>occidentalis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
SAGU	Saguaro National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i> - <i>Apocynum</i> X <i>medium</i>	spreading dogbane	Present	Unknown	Native	Yes	Yes
SAGU	Saguaro National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum cannabinum</i> var. <i>hypericifolium</i> , <i>Apocynum suksdorfii</i>	Indianhemp	Present	Unknown	Native	Yes	No
SAGU	Saguaro National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>albula</i> , <i>Artemisia ludoviciana</i> ssp. <i>sulcata</i>	white sagebrush	Present	Unknown	Native	Yes	Yes
SAGU	Saguaro National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
SAGU	Saguaro National Park	Myrtales	Onagraceae	<i>Oenothera elata</i> - <i>Oenothera elata</i> ssp. <i>hirsutissima</i> , <i>Oenothera elata</i> ssp. <i>hookeri</i> , <i>Oenothera hookeri</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Present	Unknown	Native	Yes	Yes
SAGU	Saguaro National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
- <i>Parthenocissus inserta</i>										
SAGU	Saguaro National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Unknown	Native	Yes	Yes
- <i>Pinus ponderosa</i> var. <i>scopulorum</i>										
SAGU	Saguaro National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
- <i>Populus aurea</i>										
SAGU	Saguaro National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
- <i>Prunus serotina</i> ssp. <i>virens</i> , <i>Prunus serotina</i> ssp. <i>virens</i> var. <i>virens</i> , <i>Prunus serotina</i> var. <i>rufula</i> , <i>Prunus serotina</i> var. <i>virens</i> , <i>Prunus virens</i>										
SAGU	Saguaro National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
SAGU	Saguaro National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	Sumac	Present	Unknown	Native	Yes	Yes
SAGU	Saguaro National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
SAGU	Saguaro National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrowleaf willow	Present	Unknown	Native	Yes	No
SAGU	Saguaro National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's willow	Present	Unknown	Native	Yes	No
SAGU	Saguaro National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore, sycamore maple	Present	Unknown	Non-native	Yes	No
SAHI	Sagamore Hill National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Uncommon	Non-native	Yes	No
SAHI	Sagamore Hill National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow, milfoil	Present	Uncommon	Non-native	Yes	No
SAHI	Sagamore Hill National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
SAHI	Sagamore Hill National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Rare	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Uncommon	Non-native	Yes	No
SAHI	Sagamore Hill National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
SAHI	Sagamore Hill National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Rare	Native	Yes	No
SAHI	Sagamore Hill National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Uncommon	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
SAHI	Sagamore Hill National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No
SAHI	Sagamore Hill National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
SAHI	Sagamore Hill National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Non-native	Yes	No
SAHI	Sagamore Hill National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Rare	Native	Yes	No
SAHI	Sagamore Hill National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Uncommon	Native	Yes	Yes
SAHI	Sagamore Hill National Historic Site	Poales	Poaceae	<i>Spartina alterniflora</i>	saltmarsh cordgrass, smooth cordgrass	Present	Common	Native	Yes	No
SAHI	Sagamore Hill National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush viburnum	Present	Uncommon	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow, milfoil	Present	Unknown	Non-native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
SAIR	Saugus Iron Works National Historic Site	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
SAIR	Saugus Iron Works National Historic Site	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
SAIR	Saugus Iron Works National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Occasional	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Rosales	Rosaceae	<i>Prunus americana</i>	american plum	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
SAIR	Saugus Iron Works National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Occasional	Non-native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountainash	Present	Unknown	Non-native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Unknown	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
SAJH	San Juan Island National Historical Park	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Present	Common	Native	Yes	Yes
SAJH	San Juan Island National Historical Park	Rosales	Rosaceae	<i>Crataegus monogyna</i>	English hawthorn	Present	Uncommon	Non-native	Yes	No
SAJH	San Juan Island National Historical Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	Twinberry	Present	Uncommon	Native	Yes	No
SAJH	San Juan Island National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
SAJH	San Juan Island National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No
SAJH	San Juan Island National Historical Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Uncommon	Native	Yes	No
SAJH	San Juan Island National Historical Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
SAJH	San Juan Island National Historical Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Uncommon	Native	Yes	Yes
SAJH	San Juan Island National Historical Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	European mountain-ash, rowan, rowan-berry	Present	Rare	Non-native	Yes	No
SAMO	Santa Monica Mountains National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
				- <i>Achillea millefolium</i> ssp. <i>lanulosa</i> , <i>Achillea millefolium</i> var. <i>californica</i> , <i>Achillea millefolium</i> var. <i>lanulosa</i>						
SAMO	Santa Monica Mountains National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
SAMO	Santa Monica Mountains National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	indian hemp	Present	Rare	Native	Yes	No
				- <i>Apocynum cannabinum</i> var. <i>glaberrimum</i>						
SAMO	Santa Monica Mountains National Recreation Area	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	California mugwort	Present	Uncommon	Native	Yes	Yes
SAMO	Santa Monica Mountains National Recreation Area	Apiales	Apiaceae	<i>Osmorhiza brachypoda</i>	sweet cicely	Present	Rare	Native	Yes	No
SAMO	Santa Monica Mountains National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	basket bush	Present	Common	Native	Yes	Yes
				- <i>Rhus trilobata</i> , <i>Rhus trilobata</i> var. <i>pilosissima</i>						
SAMO	Santa Monica Mountains National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Non-native	Yes	No
SAMO	Santa Monica Mountains National Recreation Area	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Rare	Native	Yes	No
SAND	Sand Creek Massacre National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Louisiana sagewort	Present	Uncommon	Native	Yes	Yes
SAPU	Salinas Pueblo Missions National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
SAPU	Salinas Pueblo Missions National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
SAPU	Salinas Pueblo Missions National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
SARA	Saratoga National Historical Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	speckled alder	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SARA	Saratoga National Historical Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazel, beaked hazelnut, western hazel	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
SARA	Saratoga National Historical Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry, pin cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SARA	Saratoga National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
SARA	Saratoga National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Non-native	Yes	No
SARA	Saratoga National Historical Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
SARA	Saratoga National Historical Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Canada goldenrod	Present	Unknown	Native	Yes	No
SARA	Saratoga National Historical Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry, nanny-berry	Present	Unknown	Native	Yes	No
SCBL	Scotts Bluff National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
SCBL	Scotts Bluff National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
SCBL	Scotts Bluff National Monument	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Unknown	Yes	No
SCBL	Scotts Bluff National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SCBL	Scotts Bluff National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Uncommon	Unknown	Yes	No
SCBL	Scotts Bluff National Monument	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Uncommon	Non-native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Common	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitter dogbane	Present	Common	Native	Yes	Yes
SEKI	Sequoia and Kings Canyon National Parks	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	indian hemp	Probably Present		Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	mugwort	Present	Uncommon	Native	Yes	Yes
SEKI	Sequoia and Kings Canyon National Parks	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry	Present	Uncommon	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Apiales	Apiaceae	<i>Osmorhiza brachypoda</i>	California sweet-sicily	Present	Common	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	ninebark	Present	Rare	Native	Yes	Yes
SEKI	Sequoia and Kings Canyon National Parks	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	jeffrey pine	Present	Common	Native	Yes	Yes
SEKI	Sequoia and Kings Canyon National Parks	Pinales	Pinaceae	<i>Pinus ponderosa</i>	pacific ponderosa pine	Present	Uncommon	Native	Yes	Yes
SEKI	Sequoia and Kings Canyon National Parks	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
SEKI	Sequoia and Kings Canyon National Parks	Fagales	Fagaceae	<i>Quercus kelloggii</i>	California black oak	Present	Common	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry	Present	Uncommon	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrow-leaved willow	Present	Rare	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow	Present	Rare	Native	Yes	No
SEKI	Sequoia and Kings Canyon National Parks	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Rare	Native	Yes	No
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Abundant	Native	Yes	Yes
SHEN	Shenandoah National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Common	Non-native	Yes	Yes
SHEN	Shenandoah National Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus incana</i> , <i>Alnus incana</i> , <i>Alnus rugosa</i> , <i>Alnus rugosa</i> var. <i>americana</i>	speckled alder	Present	Rare	Native	Yes	Yes
SHEN	Shenandoah National Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	indian hemp	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Abundant	Native	Yes	No
SHEN	Shenandoah National Park	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Abundant	Native	Yes	Yes
SHEN	Shenandoah National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Abundant	Native	Yes	Yes
SHEN	Shenandoah National Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Rare	Native	Yes	No
SHEN	Shenandoah National Park	Fabales	Fabaceae	<i>Cercis canadensis</i> - <i>Cercis canadensis</i> var. <i>canadensis</i>	redbud	Present	Common	Native	Yes	Yes
SHEN	Shenandoah National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
SHEN	Shenandoah National Park	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Present	Common	Native	Yes	Yes
SHEN	Shenandoah National Park	Fagales	Betulaceae	<i>Corylus cornuta</i> - <i>Corylus cornuta</i> var. <i>cornuta</i>	beaked hazelnut	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Eurybia macrophylla</i>	big-leaf aster	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	American ash	Present	Abundant	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SHEN	Shenandoah National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
SHEN	Shenandoah National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Abundant	Native	Yes	Yes
SHEN	Shenandoah National Park	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Common	Native	Yes	Yes
				- <i>Lyonia ligustrina</i> var. <i>ligustrina</i>						
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Oclemena acuminata</i>	mountain aster	Present	Common	Native	Yes	Yes
SHEN	Shenandoah National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	sweet cicely	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
SHEN	Shenandoah National Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	mock-orange	Present	Uncommon	Non-native	Yes	No
SHEN	Shenandoah National Park	Pinales	Pinaceae	<i>Pinus pungens</i>	Table Mountain pine	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes
SHEN	Shenandoah National Park	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood	Present	Uncommon	Non-native	Yes	No
SHEN	Shenandoah National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Rare	Native	Yes	Yes
SHEN	Shenandoah National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No
SHEN	Shenandoah National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	fire cherry	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
				- <i>Prunus serotina</i> var. <i>serotina</i>						
SHEN	Shenandoah National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	choke cherry	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Uncommon	Native	Yes	Yes
				- <i>Rhus aromatica</i> var. <i>aromatica</i>						
SHEN	Shenandoah National Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	winged sumac	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
				- <i>Rhus copallina</i>						
SHEN	Shenandoah National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Abundant	Native	Yes	No
				- <i>Robinia pseudo-acacia</i>						
SHEN	Shenandoah National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Abundant	Native	Yes	Yes
				- <i>Rubus allegheniensis</i> var. <i>allegheniensis</i>						
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	green-headed coneflower	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Malpighiales	Salicaceae	<i>Salix alba</i>	white willow	Present	Uncommon	Non-native	Yes	No
				- <i>Salix alba</i> var. <i>alba</i>						
SHEN	Shenandoah National Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
SHEN	Shenandoah National Park	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	common elderberry	Present	Uncommon	Native	Yes	Yes
				- <i>Sambucus canadensis</i> , <i>Sambucus nigra</i>						
SHEN	Shenandoah National Park	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	red elderberry	Present	Common	Native	Yes	Yes
				- <i>Sambucus racemosa</i> var. <i>racemosa</i>						
SHEN	Shenandoah National Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
SHEN	Shenandoah National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	snowberry	Present	Rare	Native	Yes	Yes
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Uncommon	Native	Yes	Yes
SHEN	Shenandoah National Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Uncommon	Native	Yes	No
SHEN	Shenandoah National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberry bush	Present	Uncommon	Non-native	Yes	No
SHEN	Shenandoah National Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Uncommon	Native	Yes	Yes
SHIL	Shiloh National Military Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
SHIL	Shiloh National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Non-native	Yes	No
SHIL	Shiloh National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
SHIL	Shiloh National Military Park	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i>	white snakeroot	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
- <i>Eupatorium rugosum</i>										
SHIL	Shiloh National Military Park	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
SHIL	Shiloh National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Abundant	Native	Yes	Yes
SHIL	Shiloh National Military Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Rare	Native	Yes	No
SHIL	Shiloh National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Uncommon	Native	Yes	No
SHIL	Shiloh National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
SHIL	Shiloh National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
SHIL	Shiloh National Military Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Uncommon	Native	Yes	Yes
SHIL	Shiloh National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
SHIL	Shiloh National Military Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Common	Native	Yes	No
SHIL	Shiloh National Military Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Common	Native	Yes	No
SHIL	Shiloh National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No
SHIL	Shiloh National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Common	Native	Yes	Yes
SHIL	Shiloh National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Abundant	Native	Yes	No
SHIL	Shiloh National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Uncommon	Native	Yes	No
SHIL	Shiloh National Military Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Uncommon	Native	Yes	No
SHIL	Shiloh National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Common	Native	Yes	Yes
SHIL	Shiloh National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
SHIL	Shiloh National Military Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Uncommon	Native	Yes	Yes
SHIL	Shiloh National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Uncommon	Native	Yes	No
SHIL	Shiloh National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SHIL	Shiloh National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	common elderberry	Present	Common	Native	Yes	Yes
SHIL	Shiloh National Military Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
SITK	Sitka National Historical Park	Fagales	Betulaceae	<i>Alnus rubra</i> - <i>Alnus oregona</i>	red alder	Present	Rare	Native	Yes	Yes
SITK	Sitka National Historical Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	Thimbleberry	Present	Uncommon	Native	Yes	No
SITK	Sitka National Historical Park	Rosales	Rosaceae	<i>Sorbus aucuparia</i>	Mountain Ash	Present	Rare	Non-native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Probably Present		Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Ageratina altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	Tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus rugosa</i>	speckled alder	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potatobean	Probably Present		Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Dogbane	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild sarsaparilla	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present		Non-native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SLBE	Sleeping Bear Dunes National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	Button-bush	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Woodbine	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Fagales	Betulaceae	<i>Corylus cornuta</i>	Beaked hazelnut	Present	Uncommon	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Boneset	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Eurybia macrophylla</i> - <i>Aster macrophyllus</i>	bigleaf aster	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Red ash	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	Huckleberry	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Probably Present		Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present		Unknown	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Sweet cicely	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Uncommon	Non-native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Pinales	Pinaceae	<i>Pinus banksiana</i>	Jack pine	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Malpighiales	Salicaceae	<i>Populus nigra</i>	Lombardy poplar	Present	Uncommon	Non-native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Pin cherry	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rosaceae	<i>Prunus virginiana</i>	Choke cherry	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present		Non-native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Probably Present		Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Common	Non-native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Common blackberry	Present	Uncommon	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rosaceae	<i>Rubus canadensis</i>	smooth blackberry	Present	Uncommon	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Rosales	Rosaceae	<i>Rubus parviflorus</i>	Thimbleberry	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Probably Present		Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Malpighiales	Salicaceae	<i>Salix discolor</i>	Pussy willow	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar willow	Present	Common	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Malpighiales	Salicaceae	<i>Salix lucida</i>	Shining willow	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Uncommon	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Probably Present		Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	Snowberry	Present	Common	Native	Yes	Yes
SLBE	Sleeping Bear Dunes National Lakeshore	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	Nannyberry	Present	Uncommon	Native	Yes	No
SLBE	Sleeping Bear Dunes National Lakeshore	Dipsacales	Adoxaceae	<i>Viburnum nudum</i> var. <i>cassinoides</i> - <i>Viburnum cassinoides</i>	possumhaw, withe-rod	Present		Native	Yes	Yes
STRI	Stones River National Battlefield	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
STRI	Stones River National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
STRI	Stones River National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
STRI	Stones River National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	hairy sunflower	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i> - <i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> var. <i>aromatica</i> - <i>Rhus aromatica</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
STRI	Stones River National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
STRI	Stones River National Battlefield	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry - <i>Sambucus canadensis</i>	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
STRI	Stones River National Battlefield	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
SUCR	Sunset Crater Volcano National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Occasional	Native	Yes	Yes
SUCR	Sunset Crater Volcano National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
SUIT	Suitland Parkway	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	SWAMP MILKWEED	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	BUTTONBUSH	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	BONESET	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	SWEET GUM	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	TULIP POPULAR	Probably Present		Native	Yes	Yes
SUIT	Suitland Parkway	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	VIRGINIA CREEPER	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Pinales	Pinaceae	<i>Pinus rigida</i>	PITCH PINE	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	COMMON BLACKBERRY	Probably Present		Native	Yes	Yes
SUIT	Suitland Parkway	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	NEW YORK IRONWEED	Probably Present		Native	Yes	No
SUIT	Suitland Parkway	Vitales	Vitaceae	<i>Vitis labrusca</i>	FOX GRAPE	Probably Present		Native	Yes	Yes
TAPR	Tallgrass Prairie National Preserve	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Rare	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
TAPR	Tallgrass Prairie National Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Uncommon	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
TAPR	Tallgrass Prairie National Preserve	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Uncommon	Native	Yes	Yes
TAPR	Tallgrass Prairie National Preserve	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Rare	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
TAPR	Tallgrass Prairie National Preserve	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Rare	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Uncommon	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Rare	Native	Yes	Yes
TAPR	Tallgrass Prairie National Preserve	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Uncommon	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Rare	Native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	fragrant sumac	Present	Uncommon	Native	Yes	Yes
TAPR	Tallgrass Prairie National Preserve	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Rare	Non-native	Yes	No
TAPR	Tallgrass Prairie National Preserve	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	sycamore maple	Probably Present		Non-native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Probably Present		Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
THIS	Theodore Roosevelt Island National Memorial	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Probably Present		Non-native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Lamiales	Oleaceae	<i>Fraxinus excelsior</i>	European ash	Probably Present		Non-native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Probably Present		Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
THIS	Theodore Roosevelt Island National Memorial	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	common blackberry	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	greenhead coneflower	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Unknown	Non-native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Probably Present		Native	Yes	Yes
THIS	Theodore Roosevelt Island National Memorial	Asterales	Asteraceae	<i>Solidago altissima</i>	common goldenrod	Probably Present		Native	Yes	No
THIS	Theodore Roosevelt Island National Memorial	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Probably Present		Native	Yes	No
THRO	Theodore Roosevelt National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
THRO	Theodore Roosevelt National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	JUNEBERRY/SERVICEBERRY	Present	Uncommon	Native	Yes	No
THRO	Theodore Roosevelt National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	SPREADING DOGBANE	Present	Occasional	Native	Yes	Yes
THRO	Theodore Roosevelt National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Unknown	Native	Yes	No
THRO	Theodore Roosevelt National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	WILD SARSAPARILLA	Present	Occasional	Native	Yes	No
THRO	Theodore Roosevelt National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>ludoviciana</i> , <i>Artemisia ludoviciana</i> var. <i>ludoviciana</i>	WHITE SAGE	Present	Common	Native	Yes	Yes
THRO	Theodore Roosevelt National Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Occasional	Native	Yes	No
THRO	Theodore Roosevelt National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	GREEN ASH	Present	Common	Native	Yes	No
THRO	Theodore Roosevelt National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
THRO	Theodore Roosevelt National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	PONDEROSA PINE	Present	Uncommon	Native	Yes	Yes
THRO	Theodore Roosevelt National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	TREMBLING ASPEN/QUAKING ASPEN	Present	Occasional	Native	Yes	Yes
THRO	Theodore Roosevelt National Park	Rosales	Rosaceae	<i>Prunus americana</i>	WILD PLUM	Present	Uncommon	Native	Yes	No
THRO	Theodore Roosevelt National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	PIN CHERRY/BIRD CHERRY	Probably Present		Native	Yes	Yes
THRO	Theodore Roosevelt National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	CHOKECHERRY	Present	Common	Native	Yes	No
THRO	Theodore Roosevelt National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	SANDBAR WILLOW/COYOTE WILLOW	Present	Occasional	Native	Yes	No
THRO	Theodore Roosevelt National Park	Malpighiales	Salicaceae	<i>Salix lucida</i>	shining willow	Present	Unknown	Native	Yes	No
THRO	Theodore Roosevelt National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	SNOWBERRY/WHITE CORALBERRY	Present	Occasional	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Uncommon	Non-native	Yes	Yes
THST	Thomas Stone National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Uncommon	Native	Yes	No
THST	Thomas Stone National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Uncommon	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Uncommon	Native	Yes	No
THST	Thomas Stone National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Unknown	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Virginia bower	Present	Uncommon	Native	Yes	No
THST	Thomas Stone National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
THST	Thomas Stone National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	hazelnut	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Present	Uncommon	Native	Yes	No
THST	Thomas Stone National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
THST	Thomas Stone National Historic Site	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Common	Native	Yes	No
THST	Thomas Stone National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	yellow-poplar	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet-cicely	Present	Uncommon	Native	Yes	No
THST	Thomas Stone National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
THST	Thomas Stone National Historic Site	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Common	Native	Yes	No
THST	Thomas Stone National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	yellow locust	Present	Common	Native	Yes	No
THST	Thomas Stone National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
THST	Thomas Stone National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Common	Native	Yes	Yes
THST	Thomas Stone National Historic Site	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	ironweed	Present	Common	Native	Yes	No
THST	Thomas Stone National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
TICA	Timpanogos Cave National Monument	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Present	Rare	Native	Yes	No
TICA	Timpanogos Cave National Monument	Rosales	Rosaceae	<i>Physocarpus malvaceus</i>	Mallow-leaved ninebark	Present	Uncommon	Native	Yes	Yes
TICA	Timpanogos Cave National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen	Present		Native	Yes	Yes
TICA	Timpanogos Cave National Monument	Rosales	Rosaceae	<i>Prunus avium</i>	Sweet cherry	Present	Rare	Non-native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
TIMU	Timucuan Ecological and Historic Preserve	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles, devil's-darning-needles, Virginia bower, virgin's bower	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	he-huckleberry, maleberry, seedy-buckberry	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac, shining sumac, winged sumac	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Rosales	Rosaceae	<i>Rubus cuneifolius</i>	sand blackberry	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
TIMU	Timucuan Ecological and Historic Preserve	Poales	Poaceae	<i>Spartina alterniflora</i>	Atlantic cordgrass, saltmarsh cordgrass, smooth cordgrass	Present	Unknown	Native	Yes	No
TIMU	Timucuan Ecological and Historic Preserve	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese tallow, tallowtree	Present	Unknown	Non-native	Yes	Yes
TONT	Tonto National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i> - <i>Artemisia ludoviciana</i> ssp. <i>mexicana</i>	white sagebrush	Present	Common	Native	Yes	Yes
TUMA	Tumacacori National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
TUMA	Tumacacori National Historical Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
TUMA	Tumacacori National Historical Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> - <i>Rhus trilobata</i> , <i>Rhus trilobata</i> var. <i>anisophylla</i>	fragrant sumac	Present	Unknown	Native	Yes	Yes
TUMA	Tumacacori National Historical Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i> - <i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
TUZI	Tuzigoot National Monument	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
TUZI	Tuzigoot National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Unknown	Native	Yes	Yes
TUZI	Tuzigoot National Monument	Rosales	Cannabaceae	<i>Humulus lupulus</i> - <i>Humulus americanus</i>	common hop, common hops, hops	Present	Unknown	Native	Yes	No
TUZI	Tuzigoot National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
TUZI	Tuzigoot National Monument	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	Goodding's black willow, Goodding's willow	Present	Unknown	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Common	Non-native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i> - <i>Alnus rugosa</i>	speckled alder	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Fabales	Fabaceae	<i>Apios americana</i>	groundnut	Present	Uncommon	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
UPDE	Upper Delaware Scenic and Recreational River	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum cannabinum</i> var. <i>glaberrimum</i> , <i>Apocynum cannabinum</i> var. <i>hypericifolium</i>	Indianhemp	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Gentianales	Apocynaceae	<i>Asclepias exaltata</i>	poke milkweed	Present	Uncommon	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Uncommon	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Unknown	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Rare	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Rare	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Uncommon	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	pin cherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
UPDE	Upper Delaware Scenic and Recreational River	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower	Present	Uncommon	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrowleaf willow	Present	Rare	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Uncommon	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Malpighiales	Salicaceae	<i>Salix sericea</i>	silky willow	Present	Unknown	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Unknown	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
VAFO	Valley Forge National Historical Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
VAFO	Valley Forge National Historical Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild Sarsasparilla	Present	Unknown	Unknown	Yes	No
VAFO	Valley Forge National Historical Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed, swamp milkweed	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	Trumpet creeper	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
VAFO	Valley Forge National Historical Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Non-native	Yes	No
VAFO	Valley Forge National Historical Park	Asterales	Asteraceae	<i>Centaurea nigra</i>	Black knapweed	Present	Unknown	Non-native	Yes	No
VAFO	Valley Forge National Historical Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	Clematis	Present	Unknown	Unknown	Yes	No
VAFO	Valley Forge National Historical Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Boneset	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Sweet Cicely	Present	Unknown	Unknown	Yes	No
VAFO	Valley Forge National Historical Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	Mock orange	Present	Unknown	Non-native	Yes	No
VAFO	Valley Forge National Historical Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
VAFO	Valley Forge National Historical Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
VAFO	Valley Forge National Historical Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Green-head coneflower	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	Pussy willow	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Unknown	Yes	No
VAFO	Valley Forge National Historical Park	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
VAFO	Valley Forge National Historical Park	Asterales	Asteraceae	<i>Solidago altissima</i>	Tall Goldenrod	Present	Unknown	Unknown	Yes	No
VAFO	Valley Forge National Historical Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
VAFO	Valley Forge National Historical Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox Grape	Present	Unknown	Unknown	Yes	Yes
VALL	Valles Caldera National Preserve	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Unknown	Native	Yes	Yes
VALL	Valles Caldera National Preserve	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
VALL	Valles Caldera National Preserve	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Present	Unknown	Native	Yes	No
VALL	Valles Caldera National Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
VALL	Valles Caldera National Preserve	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>ampla</i>	cutleaf coneflower	Present	Unknown	Native	Yes	Yes
VALL	Valles Caldera National Preserve	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrowleaf willow	Present	Unknown	Native	Yes	No
VALL	Valles Caldera National Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
VAMA	Vanderbilt Mansion National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	common trumpet creeper, cow-itch, trumpet creeper	Present	Unknown	Non-native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Unknown	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Asterales	Asteraceae	<i>Centaurea scabiosa</i>	greater centaury, greater knapweed, scabious knapweed	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut, hazel, hazelnut	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset, Chapman's thoroughwort, common boneset	Present	Unknown	Unknown	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, hairy sweet-cicely	Present	Unknown	Unknown	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Pinales	Pinaceae	<i>Pinus rigida</i>	pitch pine	Present	Unknown	Native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry, black chokecherry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
VAMA	Vanderbilt Mansion National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Unknown	Unknown	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Caryophyllales	Polygonaceae	<i>Rumex acetosa</i>	garden sorrel	Present	Unknown	Non-native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Unknown	Native	Yes	No
VAMA	Vanderbilt Mansion National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	common snowberry	Present	Unknown	Unknown	Yes	Yes
VAMA	Vanderbilt Mansion National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
VICK	Vicksburg National Military Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Abundant	Non-native	Yes	No
VICK	Vicksburg National Military Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Abundant	Non-native	Yes	Yes
VICK	Vicksburg National Military Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet vine	Present	Unknown	Native	Yes	Yes
VICK	Vicksburg National Military Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Present	Abundant	Native	Yes	Yes
VICK	Vicksburg National Military Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Present	Common	Native	Yes	No
VICK	Vicksburg National Military Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Abundant	Native	Yes	No
VICK	Vicksburg National Military Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Uncommon	Native	Yes	Yes
VICK	Vicksburg National Military Park	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	sweetgum	Present	Abundant	Native	Yes	No
VICK	Vicksburg National Military Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip tree	Present	Common	Native	Yes	Yes
VICK	Vicksburg National Military Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	virginia creeper	Present	Abundant	Native	Yes	No
VICK	Vicksburg National Military Park	Pinales	Pinaceae	<i>Pinus taeda</i>	loblolly pine	Present	Common	Native	Yes	No
VICK	Vicksburg National Military Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Common	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
VICK	Vicksburg National Military Park	Rosales	Rosaceae	<i>Prunus serotina</i>	wild black cherry	Present	Abundant	Native	Yes	Yes
VICK	Vicksburg National Military Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
VICK	Vicksburg National Military Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Abundant	Native	Yes	Yes
VICK	Vicksburg National Military Park	Malpighiales	Euphorbiaceae	<i>Triadica sebifera</i> - <i>Sapium sebiferum</i>	Chinese Tallow Tree	Present	Common	Non-native	Yes	Yes
VOYA	Voyageurs National Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Occasional	Native	Yes	No
VOYA	Voyageurs National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Unknown	Non-native	Yes	No
VOYA	Voyageurs National Park	Fagales	Betulaceae	<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled alder	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry, Western shadbush	Probably Present		Native	Yes	No
VOYA	Voyageurs National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Spreading dogbane	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Hemp dogbane, Indianhemp	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild sarsaparilla	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Mugwort wormwood, White sagebrush	Probably Present		Native	Yes	Yes
VOYA	Voyageurs National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	Beaked hazelnut	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	Common boneset	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Green ash	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	Hairy sunflower	Probably Present		Native	Yes	No
VOYA	Voyageurs National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	Common hops	Probably Present		Native	Yes	No
VOYA	Voyageurs National Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	Clayton's sweetroot, Hairy sweet-cicely	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
VOYA	Voyageurs National Park	Pinales	Pinaceae	<i>Pinus banksiana</i>	Jack pine	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Quaking aspen, Trembling aspen	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Prunus pensylvanica</i>	Pin cherry	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Prunus serotina</i>	Black cherry	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Prunus virginiana</i>	Common chokecherry	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Rubus canadensis</i>	Smooth blackberry	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	Thimbleberry	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	Cutleaf coneflower	Probably Present		Native	Yes	Yes
VOYA	Voyageurs National Park	Malpighiales	Salicaceae	<i>Salix discolor</i>	Pussy willow	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	Narrowleaf willow, Sandbar willow	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Malpighiales	Salicaceae	<i>Salix lucida</i>	Shining willow	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	Common snowberry	Present	Unknown	Native	Yes	Yes
VOYA	Voyageurs National Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	Nannyberry	Present	Unknown	Native	Yes	No
VOYA	Voyageurs National Park	Dipsacales	Adoxaceae	<i>Viburnum opulus</i>	European cranberrybush	Present	Unknown	Non-native	Yes	No
WABA	Washita Battlefield National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Occasional	Native	Yes	No
WABA	Washita Battlefield National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
WABA	Washita Battlefield National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	broadleaf milkweed, common milkweed	Present	Uncommon	Native	Yes	Yes
WABA	Washita Battlefield National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Uncommon	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
WABA	Washita Battlefield National Historic Site	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud, redbud	Present	Uncommon	Native	Yes	Yes
WABA	Washita Battlefield National Historic Site	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> - <i>Rhus trilobata</i>	fragrant sumac	Present	Uncommon	Native	Yes	Yes
WABA	Washita Battlefield National Historic Site	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Abundant	Native	Yes	No
WABA	Washita Battlefield National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Common	Native	Yes	No
WACA	Walnut Canyon National Monument	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
WACA	Walnut Canyon National Monument	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Unknown	Native	Yes	No
WACA	Walnut Canyon National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
WACA	Walnut Canyon National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Unknown	Native	Yes	Yes
WACA	Walnut Canyon National Monument	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i> - <i>Parthenocissus quinquefolia</i> var. <i>quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	Present	Unknown	Non-native	Yes	No
WACA	Walnut Canyon National Monument	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Abundant	Native	Yes	Yes
WACA	Walnut Canyon National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
WACA	Walnut Canyon National Monument	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
WEFA	Weir Farm National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow, milfoil	Present	Occasional	Non-native	Yes	No
WEFA	Weir Farm National Historic Site	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	copal tree, tree of heaven, tree-of-heaven	Present	Unknown	Non-native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
WEFA	Weir Farm National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	apios americana, groundnut	Present	Rare	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	spreading dogbane	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indianhemp	Present	Unknown	Native	Yes	No
WEFA	Weir Farm National Historic Site	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Common	Native	Yes	No
WEFA	Weir Farm National Historic Site	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Asterales	Asteraceae	<i>Centaurea nigra</i>	lesser knapweed	Present	Unknown	Non-native	Yes	No
WEFA	Weir Farm National Historic Site	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Common	Native	Yes	No
WEFA	Weir Farm National Historic Site	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	devil's darning needles	Present	Occasional	Native	Yes	No
WEFA	Weir Farm National Historic Site	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Common	Native	Yes	No
WEFA	Weir Farm National Historic Site	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Occasional	Native	Yes	No
WEFA	Weir Farm National Historic Site	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Common	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
WEFA	Weir Farm National Historic Site	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Common	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar, tuliptree, yellow-poplar	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Ericales	Ericaceae	<i>Lyonia ligustrina</i>	maleberry	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Ericales	Ericaceae	<i>Lyonia ligustrina</i> var. <i>ligustrina</i>	maleberry	Present	Unknown	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Common	Native	Yes	No
WEFA	Weir Farm National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
WEFA	Weir Farm National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Rosales	Rosaceae	<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i> var. <i>virginiana</i>	chokecherry	Present	Occasional	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
WEFA	Weir Farm National Historic Site	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
WEFA	Weir Farm National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Occasional	Native	Yes	No
WEFA	Weir Farm National Historic Site	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Malpighiales	Salicaceae	<i>Salix discolor</i>	pussy willow	Present	Occasional	Native	Yes	No
WEFA	Weir Farm National Historic Site	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
WEFA	Weir Farm National Historic Site	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Occasional	Native	Yes	Yes
WEFA	Weir Farm National Historic Site	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	nannyberry	Present	Rare	Native	Yes	No
WEFA	Weir Farm National Historic Site	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Common	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea millefolium</i> var. <i>lanulosa</i>	YARROW	Present	Common	Native	Yes	No
WHIS	Whiskeytown National Recreation Area	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	TREE OF HEAVEN	Present	Common	Non-native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Fagales	Betulaceae	<i>Alnus rubra</i>	red alder	Probably Present		Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	MOUNTAIN DOGBANE	Present	Uncommon	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	CALIFORNIA MUGWORT	Present	Abundant	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	button bush	Present	Unknown	Native	Yes	No
WHIS	Whiskeytown National Recreation Area	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	SWEET GUM	Present	Uncommon	Non-native	Yes	No
WHIS	Whiskeytown National Recreation Area	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i> - <i>Oenothera hookeri</i>	EVENING PRIMROSE	Present	Unknown	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	WESTERN NINEBARK	Present	Uncommon	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	JEFFREY PINE	Present	Rare	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Pinales	Pinaceae	<i>Pinus ponderosa</i>	PONDEROSA PINE	Present	Abundant	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
WHIS	Whiskeytown National Recreation Area	Fagales	Fagaceae	<i>Quercus kelloggii</i> - <i>Quercus kelloggii</i> f. <i>cibata</i>	BLACK OAK	Present	Abundant	Native	Yes	No
WHIS	Whiskeytown National Recreation Area	Sapindales	Anacardiaceae	<i>Rhus aromatica</i> - <i>Rhus trilobata</i> , <i>Rhus trilobata</i> var. <i>quinata</i>	squaw bush	Present	Uncommon	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	BLACK LOCUST	Present	Common	Non-native	Yes	No
WHIS	Whiskeytown National Recreation Area	Rosales	Rosaceae	<i>Rubus parviflorus</i>	THIMBLEBERRY	Present	Unknown	Native	Yes	No
WHIS	Whiskeytown National Recreation Area	Malpighiales	Salicaceae	<i>Salix exigua</i> - <i>Salix hindsiana</i>	SAND BAR WILLOW	Present	Abundant	Native	Yes	No
WHIS	Whiskeytown National Recreation Area	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	SCOULER'S WILLOW	Present	Common	Native	Yes	Yes
WHIS	Whiskeytown National Recreation Area	Ericales	Ericaceae	<i>Vaccinium membranaceum</i>	mountain bilberry, thinleaf huckleberry	Present	Unknown	Native	Yes	Yes
WHMI	Whitman Mission National Historic Site	Asterales	Asteraceae	<i>Achillea millefolium</i>	Yarrow	Present	Unknown	Native	Yes	No
WHMI	Whitman Mission National Historic Site	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Cud sage	Present	Uncommon	Native	Yes	Yes
WHMI	Whitman Mission National Historic Site	Fagales	Betulaceae	<i>Betula pubescens</i> - <i>Betula alba</i>	downy birch	Present	Uncommon	Native	Yes	No
WHMI	Whitman Mission National Historic Site	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore	Present	Uncommon	Non-native	Yes	Yes
WHMI	Whitman Mission National Historic Site	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
WHMI	Whitman Mission National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	Choke cherry	Present	Uncommon	Native	Yes	No
WHMI	Whitman Mission National Historic Site	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Uncommon	Native	Yes	No
WHMI	Whitman Mission National Historic Site	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	snow berry	Present	Common	Native	Yes	Yes
WHSa	White Sands National Park	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	squaw-bush, sumac	Present	Unknown	Native	Yes	Yes
WHSa	White Sands National Park	Malpighiales	Salicaceae	<i>Salix gooddingii</i>	goodding willow	Present	Unknown	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
WICA	Wind Cave National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	yarrow, Yarrow, milfoil	Present	Unknown	Unknown	Yes	No
WICA	Wind Cave National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Present	Uncommon	Native	Yes	No
WICA	Wind Cave National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	Dogbane, Indian Hemp	Present	Unknown	Native	Yes	Yes
WICA	Wind Cave National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i> - <i>Apocynum sibiricum</i>	Dogbane, Indian Hemp	Present	Unknown	Native	Yes	No
WICA	Wind Cave National Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Uncommon	Native	Yes	No
WICA	Wind Cave National Park	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	Cudweed Sagewort, SAGE	Present	Unknown	Native	Yes	Yes
WICA	Wind Cave National Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Milkweed	Present	Rare	Native	Yes	No
WICA	Wind Cave National Park	Fagales	Betulaceae	<i>Corylus cornuta</i>	beaked hazelnut	Present	Unknown	Native	Yes	Yes
WICA	Wind Cave National Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
WICA	Wind Cave National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Rare	Native	Yes	No
WICA	Wind Cave National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i> - <i>Pinus ponderosa</i> var. <i>scopulorum</i> , <i>Pinus scopulorum</i>	ponderosa pine, bull pine	Present	Abundant	Native	Yes	Yes
WICA	Wind Cave National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	Aspen, quaking aspen	Present	Uncommon	Native	Yes	Yes
WICA	Wind Cave National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present	Common	Native	Yes	No
WICA	Wind Cave National Park	Rosales	Rhamnaceae	<i>Rhamnus cathartica</i>	Carolina buckthorn, common buckthorn, European buckthorn, European waythorn, Hart's thorn, nerprun cathartique	Present	Uncommon	Non-native	Yes	No
WICA	Wind Cave National Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green-head coneflower	Probably Present		Native	Yes	Yes
WICA	Wind Cave National Park	Malpighiales	Salicaceae	<i>Salix alba</i> - <i>Salix alba</i> var. <i>vitellina</i>	golden willow, white willow	Present	Rare	Non-native	Yes	No
WICA	Wind Cave National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	sandbar willow	Present	Uncommon	Native	Yes	No
WICA	Wind Cave National Park	Dipsacales	Caprifoliaceae	<i>Symphoricarpos albus</i>	Wolfberry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
WICA	Wind Cave National Park	Dipsacales	Adoxaceae	<i>Viburnum lentago</i>	NANNYBERRY	Present	Rare	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver maple	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common yarrow	Present	Common	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Asterales	Asteraceae	<i>Ageratina altissima</i>	Tall ageratina	Present	Common	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Hemp dogbane	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	Common milkweed	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Lamiales	Oleaceae	<i>Fraxinus americana</i>	White ash	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	Ash	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Asterales	Asteraceae	<i>Helianthus hirsutus</i>	Hairy sunflower	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia-creeper, woodbine	Present	Common	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Proteales	Platanaceae	<i>Platanus occidentalis</i>	Sycamore, buttonwood	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Rosales	Rosaceae	<i>Prunus americana</i>	Wild plum	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Rosales	Rosaceae	<i>Prunus serotina</i>	Wild black cherry	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Sapindales	Anacardiaceae	<i>Rhus aromatica</i>	Squaw-bush	Present	Common	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	Shining sumac	Present	Common	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	Black locust	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Asterales	Asteraceae	<i>Rudbeckia laciniata</i> var. <i>laciniata</i>	Cutleaf coneflower	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
WICR	Wilson's Creek National Battlefield	Malpighiales	Salicaceae	<i>Salix nigra</i>	Black willow	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Lurales	Lauraceae	<i>Sassafras albidum</i>	Sassafras	Present	Uncommon	Native	Yes	Yes
WICR	Wilson's Creek National Battlefield	Asterales	Asteraceae	<i>Silphium perfoliatum</i>	Cup-plant	Present	Uncommon	Native	Yes	No
WICR	Wilson's Creek National Battlefield	Vitales	Vitaceae	<i>Vitis labrusca</i>	Fox grape	Present	Uncommon	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Unknown	Non-native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tuliptree	Present	Unknown	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Occasional	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Rosales	Rosaceae	<i>Rubus allegheniensis</i>	Allegheny blackberry	Present	Unknown	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
WOTR	Wolf Trap National Park for the Performing Arts	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	blue elder	Present	Unknown	Native	Yes	Yes
WOTR	Wolf Trap National Park for the Performing Arts	Lurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Occasional	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
WOTR	Wolf Trap National Park for the Performing Arts	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
WRST	Wrangell - St Elias National Park and Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i>	Common Yarrow	Present	Abundant	Native	Yes	No
WRST	Wrangell - St Elias National Park and Preserve	Fagales	Betulaceae	<i>Alnus rubra</i>	Red Alder	Present	Unknown	Native	Yes	Yes
WRST	Wrangell - St Elias National Park and Preserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Serviceberry	Present	Uncommon	Native	Yes	No
WRST	Wrangell - St Elias National Park and Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
WRST	Wrangell - St Elias National Park and Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Common	Native	Yes	Yes
WRST	Wrangell - St Elias National Park and Preserve	Dipsacales	Adoxaceae	<i>Sambucus racemosa</i>	European red elder, red elderberry, scarlet elderberry	Present	Occasional	Native	Yes	Yes
WUPA	Wupatki National Monument	Asterales	Asteraceae	<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	Present	Common	Native	Yes	Yes
WUPA	Wupatki National Monument	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip-poplar, tuliptree, yellow poplar, yellow-poplar	Present	Unknown	Native	Yes	Yes
WUPA	Wupatki National Monument	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Unknown	Native	Yes	Yes
WUPA	Wupatki National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
WUPA	Wupatki National Monument	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
YELL	Yellowstone National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Abundant	Native	Yes	Yes
YELL	Yellowstone National Park	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop, common hops, hops	Present	Rare	Non-native	Yes	No
YELL	Yellowstone National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i>	bearberry honeysuckle, twinberry honeysuckle	Present	Common	Native	Yes	No
YELL	Yellowstone National Park	Rosales	Rosaceae	<i>Physocarpus malvaceus</i>	mallow ninebark	Present	Uncommon	Native	Yes	Yes
YELL	Yellowstone National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
YELL	Yellowstone National Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Rare	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur-rence	Abund-ance	Native-ness	Ozone Sensitive	Biological Indicator
YELL	Yellowstone National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Common	Native	Yes	No
YELL	Yellowstone National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
YELL	Yellowstone National Park	Ericales	Ericaceae	<i>Vaccinium membranaceum</i> - <i>Vaccinium globulare</i>	mountain bilberry, thinleaf huckleberry	Present	Uncommon	Native	Yes	Yes
YOSE	Yosemite National Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Common	Native	Yes	No
YOSE	Yosemite National Park	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Common	Native	Yes	Yes
YOSE	Yosemite National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane, dogbane, hemp dogbane, Indian hemp, Indian-hemp, prairie dogbane	Present	Common	Native	Yes	No
YOSE	Yosemite National Park	Asterales	Asteraceae	<i>Artemisia douglasiana</i>	Douglas' mugwort, Douglas' sagewort	Present	Common	Native	Yes	Yes
YOSE	Yosemite National Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Present	Uncommon	Native	Yes	No
YOSE	Yosemite National Park	Apiales	Apiaceae	<i>Osmorhiza brachypoda</i>	California sweetcicely, California sweet-cicely	Present	Common	Native	Yes	No
YOSE	Yosemite National Park	Rosales	Rosaceae	<i>Physocarpus capitatus</i>	Pacific ninebark	Present	Uncommon	Native	Yes	Yes
YOSE	Yosemite National Park	Pinales	Pinaceae	<i>Pinus jeffreyi</i>	black pine, Jeffrey pine, Jeffrey's pine	Present	Abundant	Native	Yes	Yes
YOSE	Yosemite National Park	Pinales	Pinaceae	<i>Pinus ponderosa</i>	blackjack pine, bull pine, ponderosa pine, rock pine, western yellow pine	Present	Abundant	Native	Yes	Yes
YOSE	Yosemite National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Common	Native	Yes	Yes
YOSE	Yosemite National Park	Fagales	Fagaceae	<i>Quercus kelloggii</i>	California black oak	Present	Common	Native	Yes	No
YOSE	Yosemite National Park	Rosales	Rosaceae	<i>Rubus parviflorus</i>	thimbleberry, western thimbleberry	Present	Uncommon	Native	Yes	No
YOSE	Yosemite National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrow-leaved willow	Present	Rare	Native	Yes	No
YOSE	Yosemite National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occurrence	Abundance	Native-ness	Ozone Sensitive	Biological Indicator
YUCH	Yukon-Charley Rivers National Preserve	Asterales	Asteraceae	<i>Achillea millefolium</i> - <i>Achillea borealis</i> , <i>Achillea lanulosa</i> , <i>Achillea millefolium</i> var. <i>borealis</i> , <i>Achillea millefolium</i> var. <i>millefolium</i> , <i>Achillea millefolium</i> var. <i>occidentalis</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Present	Unknown	Native	Yes	No
YUCH	Yukon-Charley Rivers National Preserve	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	juneberry, Pacific serviceberry, Saskatoon serviceberry, western serviceberry, western shadbush	Probably Present		Native	Yes	No
YUCH	Yukon-Charley Rivers National Preserve	Gentianales	Apocynaceae	<i>Apocynum androsaemifolium</i>	bitterroot, flytrap dogbane, spreading dogbane	Present	Unknown	Native	Yes	Yes
YUCH	Yukon-Charley Rivers National Preserve	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Abundant	Native	Yes	Yes
YUCH	Yukon-Charley Rivers National Preserve	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Unknown	Native	Yes	Yes
YUHO	Yucca House National Monument	Myrtales	Onagraceae	<i>Oenothera elata</i> ssp. <i>hookeri</i> - <i>Oenothera hookeri</i>	Hooker's evening primrose, Hooker's evening-primrose	Present	Unknown	Native	Yes	Yes
YUHO	Yucca House National Monument	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Unknown	Non-native	Yes	No
YUHO	Yucca House National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
ZION	Zion National Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree-of-heaven	Present	Uncommon	Non-native	Yes	Yes
ZION	Zion National Park	Rosales	Rosaceae	<i>Amelanchier alnifolia</i>	Saskatoon serviceberry	Present	Uncommon	Native	Yes	No
ZION	Zion National Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	common dogbane	Present	Uncommon	Native	Yes	No
ZION	Zion National Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	showy catalpa	Present	Uncommon	Non-native	Yes	No
ZION	Zion National Park	Fabales	Fabaceae	<i>Colutea arborescens</i>	bladder-senna	Present	Uncommon	Non-native	Yes	Yes
ZION	Zion National Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore	Present	Uncommon	Non-native	Yes	Yes
ZION	Zion National Park	Malpighiales	Salicaceae	<i>Populus tremuloides</i>	quaking aspen	Present	Uncommon	Native	Yes	Yes
ZION	Zion National Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No
ZION	Zion National Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Rare	Non-native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ZION	Zion National Park	Malpighiales	Salicaceae	<i>Salix scouleriana</i>	Scouler's willow	Present	Uncommon	Native	Yes	Yes
<u>Species In Review - proposed or provisional records needing additional review</u>										
ANTI	Antietam National Battlefield	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	Wild sarsaparilla	Present	Unknown	Native	Yes	No
ANTI	Antietam National Battlefield	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Unknown	Native	Yes	Yes
ANTI	Antietam National Battlefield	Malpighiales	Salicaceae	<i>Salix exigua</i>	Sandbar willow	Present	Rare	Native	Yes	No
BEOL	Bent's Old Fort National Historic Site	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	Swamp milkweed	Present			Yes	No
CHIC	Chickasaw National Recreation Area	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Probably Present		Native	Yes	No
GLEC	Glen Echo Park	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	silver maple	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Asterales	Asteraceae	<i>Achillea millefolium</i>	common yarrow	Present	Unknown	Non-native	Yes	No
GLEC	Glen Echo Park	Asterales	Asteraceae	<i>Ageratina altissima</i>	white snakeroot	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
GLEC	Glen Echo Park	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	dogbane	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Apiales	Araliaceae	<i>Aralia nudicaulis</i>	wild sarsaparilla	Present	Unknown	Non-native	Yes	No
GLEC	Glen Echo Park	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	rose milkweed	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Gentianales	Apocynaceae	<i>Asclepias syriaca</i>	common milkweed	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Lamiales	Bignoniaceae	<i>Campsis radicans</i>	trumpet creeper	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	eastern redbud	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	common boneset	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Lamiales	Oleaceae	<i>Fraxinus americana</i>	white ash	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Ericales	Ericaceae	<i>Gaylussacia baccata</i>	black huckleberry	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
GLEC	Glen Echo Park	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	tulip poplar	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Apiales	Apiaceae	<i>Osmorhiza claytonii</i>	hairy sweet-cicely	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Pinales	Pinaceae	<i>Pinus pungens</i>	table-mountain pine	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	scrub pine	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Proteales	Platanaceae	<i>Platanus occidentalis</i>	sycamore	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Unknown	Non-native	Yes	No
GLEC	Glen Echo Park	Rosales	Rosaceae	<i>Prunus serotina</i>	black cherry	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	flameleaf sumac	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	greenhead coneflower	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Malpighiales	Salicaceae	<i>Salix nigra</i>	black willow	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
GLEC	Glen Echo Park	Asterales	Asteraceae	<i>Vernonia noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
GLEC	Glen Echo Park	Vitales	Vitaceae	<i>Vitis labrusca</i>	fox grape	Present	Unknown	Native	Yes	Yes
LAMR	Lake Meredith National Recreation Area	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Probably Present		Native	Yes	No
LEWI	Lewis and Clark National Historical Park	Dipsacales	Caprifoliaceae	<i>Lonicera involucrata</i> var. <i>involucrata</i>	twinberry honeysuckle	Present	Common	Native	Yes	No
LEWI	Lewis and Clark National Historical Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Present	Uncommon	Non-native	Yes	No
LIBI	Little Bighorn Battlefield National Monument	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	yellow locust	Present		Native	Yes	No
LIBI	Little Bighorn Battlefield National Monument	Malpighiales	Salicaceae	<i>Salix exigua</i>	coyote willow, desert willow, narrowleaf willow, sandbar willow	Present	Unknown	Native	Yes	No
NEPE	Nez Perce National Historical Park	Rosales	Rosaceae	<i>Physocarpus malvaceus</i>	mallow ninebark	Present	Unknown	Native	Yes	Yes



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
NEPE	Nez Perce National Historical Park	Malpighiales	Salicaceae	<i>Salix alba</i>	golden willow, white willow	Present	Uncommon	Non-native	Yes	No
PISC	Piscataway Park	Fabales	Fabaceae	<i>Cercis canadensis</i>	redbud	Probably Present		Native	Yes	Yes
PISC	Piscataway Park	Ranunculales	Ranunculaceae	<i>Clematis virginiana</i>	virgin's bower	Probably Present		Native	Yes	No
PISC	Piscataway Park	Asterales	Asteraceae	<i>Eupatorium perfoliatum</i>	boneset	Probably Present		Native	Yes	No
PISC	Piscataway Park	Vitales	Vitaceae	<i>Parthenocissus quinquefolia</i>	Virginia creeper	Probably Present		Native	Yes	No
PISC	Piscataway Park	Pinales	Pinaceae	<i>Pinus virginiana</i>	Virginia pine	Probably Present		Native	Yes	No
PISC	Piscataway Park	Rosales	Rosaceae	<i>Prunus americana</i>	American wild plum	Probably Present		Native	Yes	No
PISC	Piscataway Park	Rosales	Rosaceae	<i>Prunus avium</i>	sweet cherry	Probably Present		Non-native	Yes	No
PISC	Piscataway Park	Sapindales	Anacardiaceae	<i>Rhus copallinum</i> - <i>Rhus copallina</i>	winged sumac	Probably Present		Native	Yes	No
PISC	Piscataway Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American Black Elderberry	Probably Present		Native	Yes	Yes
ROMO	Rocky Mountain National Park	Rosales	Rosaceae	<i>Prunus americana</i>	American plum	Present			Yes	No
ROMO	Rocky Mountain National Park	Malpighiales	Salicaceae	<i>Salix exigua</i>	narrowleaf willow	Present			Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Sapindales	Sapindaceae	<i>Acer pseudoplatanus</i>	Sycamore Maple	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Sapindales	Sapindaceae	<i>Acer saccharinum</i>	Silver Maple	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Asterales	Asteraceae	<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milenrama, milfoil, plumajillo, western yarrow, yarrow	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Lamiales	Bignoniaceae	<i>Catalpa speciosa</i>	northern catalpa	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Fabales	Fabaceae	<i>Cercis canadensis</i>	Redbud	Probably Present		Unknown	Yes	Yes
ROVA	Roosevelt-Vanderbilt Headquarters	Cornales	Cornaceae	<i>Cornus florida</i>	flowering dogwood	Probably Present		Unknown	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
ROVA	Roosevelt-Vanderbilt Headquarters	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Saxifragales	Altingiaceae	<i>Liquidambar styraciflua</i>	Sweetgum	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Magnoliales	Magnoliaceae	<i>Liriodendron tulipifera</i>	bois-jaune, tulip poplar, tulip- poplar, tuliptree, yellow poplar, yellow-poplar	Probably Present		Unknown	Yes	Yes
ROVA	Roosevelt-Vanderbilt Headquarters	Cornales	Hydrangeaceae	<i>Philadelphus coronarius</i>	sweet mock orange	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Proteales	Platanaceae	<i>Platanus occidentalis</i>	American sycamore, sycamore	Probably Present		Unknown	Yes	Yes
ROVA	Roosevelt-Vanderbilt Headquarters	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Asterales	Asteraceae	<i>Rudbeckia laciniata</i>	cutleaf coneflower, green- head coneflower	Probably Present		Unknown	Yes	Yes
ROVA	Roosevelt-Vanderbilt Headquarters	Laurales	Lauraceae	<i>Sassafras albidum</i>	sassafras	Probably Present		Unknown	Yes	Yes
ROVA	Roosevelt-Vanderbilt Headquarters	Malvales	Malvaceae	<i>Tilia platyphyllos</i>	Bigleaf Linden	Probably Present		Unknown	Yes	No
ROVA	Roosevelt-Vanderbilt Headquarters	Rosales	Ulmaceae	<i>Ulmus procera</i>	English Elm	Probably Present		Unknown	Yes	No
SAIR	Saugus Iron Works National Historic Site	Fabales	Fabaceae	<i>Apios americana</i>	groundnut, potato bean	Present	Unknown	Native	Yes	Yes
SAIR	Saugus Iron Works National Historic Site	Lamiales	Oleaceae	<i>Fraxinus pennsylvanica</i>	green ash	Present	Uncommon	Native	Yes	No
SAIR	Saugus Iron Works National Historic Site	Rosales	Rosaceae	<i>Prunus virginiana</i>	chokecherry, common chokecherry, Virginia chokecherry	Present	Common	Native	Yes	No
SAMO	Santa Monica Mountains National Recreation Area	Malpighiales	Salicaceae	<i>Populus nigra</i>	black cottonwood, black poplar, Lombardy's poplar	Present	Uncommon	Non-native	Yes	No
SAND	Sand Creek Massacre National Historic Site	Gentianales	Apocynaceae	<i>Apocynum cannabinum</i>	Indian hemp	Present		Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Ageratina altissima</i> var. <i>altissima</i> - <i>Eupatorium rugosum</i>	white snakeroot	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Sapindales	Simaroubaceae	<i>Ailanthus altissima</i>	tree of heaven	Present	Unknown	Non-native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Gentianales	Apocynaceae	<i>Asclepias incarnata</i>	swamp milkweed	Present	Uncommon	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	common buttonbush	Present	Common	Native	Yes	No



Ozone Sensitive Species By Park

Park-Code	Park Name	Order	Family	Scientific Name	Common Names	Occur- rence	Abund- ance	Native- ness	Ozone Sensitive	Biological Indicator
UPDE	Upper Delaware Scenic and Recreational River	Fagales	Betulaceae	<i>Corylus americana</i>	American hazelnut	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Rosales	Cannabaceae	<i>Humulus lupulus</i>	common hop	Present	Unknown	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Oclemena acuminata</i> - <i>Aster acuminatus</i>	whorled wood aster	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Sapindales	Anacardiaceae	<i>Rhus copallinum</i>	shining sumac	Present	Uncommon	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i> - <i>Sambucus canadensis</i>	American black elderberry	Present	Common	Native	Yes	Yes
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Solidago altissima</i> - <i>Solidago canadensis</i> var. <i>scabra</i>	Canada goldenrod	Present	Common	Native	Yes	No
UPDE	Upper Delaware Scenic and Recreational River	Asterales	Asteraceae	<i>Vernonia noveboracensis</i> - <i>Veronica noveboracensis</i>	New York ironweed	Present	Unknown	Native	Yes	No
VICK	Vicksburg National Military Park	Gentianales	Rubiaceae	<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	Present	Unknown	Native	Yes	No
VICK	Vicksburg National Military Park	Fabales	Fabaceae	<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	Present	Unknown	Native	Yes	No
VICK	Vicksburg National Military Park	Dipsacales	Adoxaceae	<i>Sambucus nigra</i> ssp. <i>canadensis</i>	American black elderberry, blue elder, common elderberry, elder, elderberry, Mexican elderberry	Present	Unknown	Native	Yes	Yes
VICK	Vicksburg National Military Park	Asterales	Asteraceae	<i>Verbesina occidentalis</i>	yellow crownbeard	Present	Unknown	Native	Yes	Yes
WABA	Washita Battlefield National Historic Site	Myrtales	Onagraceae	<i>Oenothera elata</i>	Hooker's evening primrose, Hooker's eveningprimrose, Hooker's evening-primrose, western eveningprimrose	Probably Present		Native	Yes	Yes
Report Species Count: 5028										

NPSpecies - The National Park Service biodiversity database. IRMA Portal version. <https://irma.nps.gov/npspecies>. Accessed 12/6/2020 4:48:27 AM

[Go to List of Ozone Sensitive Species report](#)

Definitions



Ozone Sensitive Species By Park

Term	Definition	Comments
Present	Species occurrence in park is documented and assumed to be extant.	Extremely high confidence that the species occurs in the park for all or part of the year. Evidence, in the form of a current, verifiable reference, voucher or observation, readily available.
Probably Present	Documented occurrences of the species in the park and/or in the adjoining region of the park give reason to suspect that it probably occurs within the park.	Very high confidence that the species occurs in the park. Evidence may exist in NPSpecies, but may not be considered current or reliable enough to elevate the status to Present in Park. Efforts should be made to obtain current, verifiable evidence to elevate the status to "Present in Park." If reasonable efforts to obtain current, verifiable evidence are unsuccessful, then the Occurrence should be changed to Unconfirmed or Not in Park, as applicable.
Species in Review	These species records are provisional and are undergoing additional review.	
Ozone Sensitive	Species that typically exhibit foliar injury at or near ambient ozone concentrations in fumigation chambers and/or are species for which ozone foliar injury symptoms in the field have been documented by more than one expert observer.	
Biological Indicator	A subset of ozone sensitive species in which leaf damage from ambient ozone concentrations can be easily recognized as ozone injury by subject matter experts. Biological indicators are widely distributed regionally and are easily identified in the field. Additionally, the ozone sensitivity of these species has been confirmed at realistic ozone concentrations under controlled laboratory conditions.	