

New Jersey Invasive Species Strike Team  
 2014 Invasive Species List [Sorted by Taxa, followed by Scientific Name]  
 Includes NJISST Target & Watch Species along with all Widespread Invasive Species in New J.

period of flowering  
 period of flowering and fruiting  
 period of ripe fruit availability

Utilize phenology for control  
 guidance timelines - this is  
 particularly critical for annual  
 and biennial plants.

Taxa	Scientific Name	Common Name	NJISST APP Category	NJISST Search Grouping	NJISST Species Status	Current Abundance / Distribution Code	NJISST Threat Code	ED/RR Action Code	Commercial Availability	January	February	March	April	May	June	July	August	September	October	November	December	
bird	Cygnus olor	mute swan	bird	Freshwater	Target	Stage 2	High	1	No													
crustacean	Eriocheir sinensis	Chinese mitten crab	wildlife	Freshwater	Target	Stage 3	High	2	No													
crustacean	Hemigrapsus sanguineus	Asian shore crab	wildlife	Marine	Target	Stage 3	High	2	No													
fish	Ctenopharyngodon idella	grass carp	Not Included	Freshwater	Target	Stage 2	High	1	No													
fish	Culaea inconstans	brook stickleback	Not Included	Freshwater	Target	Stage 2	High	2	No													
fish	Misgurnus anguillicaudatus	oriental weatherfish	Not Included	Freshwater	Target	Stage 2	High	2	No													
fish	Lepomis gulosus	warmouth	Not Included	Freshwater	Target	Stage 2	High	2	No													
fish	Lepomis cyanellus	green sunfish	Not Included	Freshwater	Target	Stage 2	High	2	No													
fish	Channa argus	Northern snakehead	wildlife	Freshwater	Target	Stage 3	High	2	No													
fish	Hypophthalmichthys motitnx	silver carp	wildlife	Freshwater	Target	Stage 0	High	1	No													
fish	Hypophthalmichthys nobilis	bighead carp	wildlife	Freshwater	Target	Stage 0	High	1	No													
fish	Monopterus albus	Asian swamp eel	wildlife	Freshwater	Target	Stage 1	High	1	No													
fish	Pylodictis olivaris	flathead catfish	wildlife	Freshwater	Target	Stage 3	High	2	No													
insect	Agrilus planipennis	emerald ash borer	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Agrilus sulcicollis	European oak-boring beetle	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Anoplophora glabripennis	Asian longhorned beetle	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Aradus cinnamomeus	pine flat bug	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Lymantria dispar asiatica	Asian gypsy moth	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Lymantria monacha	nun moth	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Pyrrhalta viburni	Viburnum leaf beetle	insect	Terrestrial	Target	Stage 3	High	2	No													
insect	Scolytus intricatus	European oak bark beetle	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Sirex noctilio	Sirex woodwasp	insect	Terrestrial	Target	Stage 0	Moderate	1	No													
insect	Solenopsis invicta	red imported fire ant	insect	Terrestrial	Target	Stage 0	High	1	No													
insect	Tetropium fuscum	brown spruce longhorn beetle	insect	Terrestrial	Target	Stage 0	Moderate	1	No													
insect	Tomicus piniperda	larger pine shoot beetle	insect	Terrestrial	Target	Stage 2	Moderate	1	No													

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insect	Xylosandrus crassiusculus	granulate ambrosia beetle	insect	Terrestrial	Target	Stage 0	Mild	1	No														
insect	Xylosandrus mutilatus	camphor shot borer	insect	Terrestrial	Target	Stage 0	Moderate	1	No														
mammal	Myocastor coypus	nutria	wildlife	Terrestrial	Target	Stage 0	High	1	No														
mammal	Sus scrofa	pig (feral)	wildlife	Terrestrial	Target	Stage 1	High	1	No														
mollusk	Cipangopaludina chinensis malleata	Chinese mystery snail	wildlife	Freshwater	Target	Stage 0	Moderate	1	No														
mollusk	Dreissena bugensis	quagga mussel	wildlife	Freshwater	Target	Stage 0	High	1	No														
mollusk	Dreissena polymorpha	zebra mussel	wildlife	Freshwater	Target	Stage 0	High	1	No														
mollusk	Potamopyrgus antipodarum	New Zealand mud snail	wildlife	Freshwater	Target	Stage 0	Moderate	1	No														
mollusk	Sinanodonta woodiana	Chinese pond mussel	wildlife	Freshwater	Target	Stage 0	High	1	No														
pathogen	Cronartium ribicola	white pine blister rust	plant pathogen	Terrestrial	Target	Stage 2	Moderate	1	No														
pathogen	Ophiostoma novo-ulmi	Dutch elm disease (novi-ulmi)	plant pathogen	Terrestrial	Target	Stage 0	High	1	No														
pathogen	Phytophthora cinnamomi	Phytophthora root rot	plant pathogen	Terrestrial	Target	Stage 0	High	1	No														
pathogen	Phytophthora ramorum	sudden oak death	plant pathogen	Terrestrial	Target	Stage 0	Moderate	1	No														
pathogen	Xylella fastidiosa	bacterial leaf scorch	plant pathogen	Terrestrial	Target	Stage 1	High	1	No														
reptile	Podarcis sicula	Italian Wall Lizard	wildlife	Terrestrial	Target	Stage 0	Moderate	1	Yes														
plant	Acer ginnala	Amur maple	tree	Forest	Target	Stage 0	Moderate	1	Yes														
plant	Acer palmatum	Japanese maple	tree	Forest	Target	Stage 2	Moderate	1	Yes														
plant	Acer pseudoplatanus	sycamore maple	tree	Forest	Target	Stage 1	High	1	Yes														
plant	Actinidia arguta	hardy kiwi	vine	Vine	Target	Stage 0	Mild	1	Yes														
plant	Akebia quinata	chocolate vine	vine	Vine	Target	Stage 1	High	1	Yes														
plant	Albizia julibrissin	mimosa	tree	Open Upland Habitat	Target	Stage 2	Moderate	1	Yes														
plant	Alnus glutinosa	European black alder	tree	Open Wetland Habitat	Target	Stage 1	High	1	Yes														
plant	Amorpha fruticosa	indigobush	shrub	Open Wetland Habitat	Target	Stage 2	High	1	Yes														
plant	Ampelopsis brevipedunculata	porcelain-berry	vine	Vine	Target	Stage 3	High	2	Yes														
plant	Anthriscus sylvestris	wild chervil	herbs/forbs	Open Wetland Habitat	Target	Stage 3	Moderate	2	Yes														

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plant	Aralia elata	Japanese angelica tree	tree	Open Upland Habitat	Target	Stage 3	High	2	Yes													
plant	Artemisia stelleriana	oldwoman	herbs/forbs	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes													
plant	Berberis vulgaris	common barberry	shrub	Forest	Target	Stage 1	Moderate	1	No													
plant	Buddleja davidii	butterflybush	shrub	Open Upland Habitat	Target	Stage 1	High	1	No													
plant	Cabomba caroliniana	Carolina fanwort	aquatic plants	Open Water	Target	Stage 0	High	1	No													
plant	Callitriche stagnalis	European waterstarwort	aquatic plants	Open Water	Target	Stage 0	High	1	No													
plant	Carex kobomugi	Japanese sedge	herbs/forbs	Open Upland Habitat	Target	Stage 2	High	1	No													
plant	Carex macrocephala	largehead sedge	herbs/forbs	Open Upland Habitat	Target	Stage 1	High	1	No													
plant	Clematis flammula	fragrant clematis	vine	Vine	Target	Stage 0	High	1	No													
plant	Clematis terniflora	Japanese clematis	vine	Vine	Target	Stage 3	High	2	No													
plant	Conium maculatum	poison-hemlock	herbs/forbs	Open Wetland Habitat	Target	Stage 2	Moderate	1	No													
plant	Cornus kousa	Kousa dogwood	tree	Forest	Target	Stage 1	High	1	No													
plant	Cynanchum louiseae	black swallowwort	vine	Vine	Target	Stage 1	High	1	No													
plant	Cynanchum rossicum	pale swallowwort	vine	Vine	Target	Stage 1	High	1	No													
plant	Didymosphenia geminata	rock snot	aquatic plants	Open Water	Target	Stage 0	High	1	No													
plant	Dioscorea polysacha	Chinese yam	vine	Vine	Target	Stage 0	Moderate	1	No													
plant	Dipsacus laciniatus	cutleaf teasel	herbs/forbs	Open Wetland Habitat	Target	Stage 1	Moderate	1	No													
plant	Egeria densa	Brazilian waterweed	aquatic plants	Open Water	Target	Stage 0	High	1	No													
plant	Eichhornia crassipes	common water hyacinth	aquatic plants	Open Water	Target	Stage 0	High	1	No													
plant	Elaeagnus angustifolia	Russian olive	shrub	Open Upland Habitat	Target	Stage 0	High	1	No													
plant	Eleutherococcus sieboldianus	five-leaf aralia	shrub	Forest	Target	Stage 1	High	1	No													
plant	Eragrostis curvula	weeping lovegrass	grass	Open Upland Habitat	Target	Stage 2	High	1	No													
plant	Euonymus europaeus	European spindle tree	shrub	Forest	Target	Stage 1	Moderate	1	No													
plant	Euonymus fortunei	winter creeper	shrub/vine	Vine	Target	Stage 2	High	1	Yes													
plant	Frangula alnus	glossy buckthorn	tree	Open Wetland Habitat	Target	Stage 2	High	1	Yes													

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plant	Glossostigma cleistanthum	mudmat	aquatic	Open Water	Target	Stage 0	Moderate	1	No												
plant	Hedera helix	English ivy	vine	Vine	Target	Stage 3	High	2	Yes												
plant	Heracleum mantegazzianum	giant hogweed	herbs/forbs	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes												
plant	Humulus japonicus	Japanese hop	vine	Vine	Target	Stage 3	High	2	Yes												
plant	Hydrilla verticillata	hydrilla	aquatic plants	Open Water	Target	Stage 0	High	1	Yes												
plant	Hydrocharis morsus-ranae	European frog-bit	aquatic plants	Open Water	Target	Stage 0	High	1	Yes												
plant	Iris pseudacorus	yellow iris	herb/aquatic	Open Wetland Habitat	Target	Stage 3	High	2	Yes												
plant	Kalopanax septemlobus	castor aralia	tree	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes												
plant	Lespedeza cuneata	sericea lespedeza	shrubs/ herbs/forbs	Open Upland Habitat	Target	Stage 3	High	2	Yes												
plant	Lonicera caprifolium	Italian woodbine	vine	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes												
plant	Lonicera fragrantissima	sweet breath of spring	shrub	Forest	Target	Stage 0	Moderate	1	Yes												
plant	Ludwigia peploides	creeping waterprimrose	aquatic plants	Open Water	Target	Stage 1	High	1	Yes												
plant	Malus toringo	Japanese crabapple	tree	Forest	Target	Stage 3	High	2	Yes												
plant	Marsilea quadrifolia	European watercress	aquatic plants	Open Water	Target	Stage 0	High	1	Yes												
plant	Miscanthus sinensis	Chinese silvergrass	grass	Open Upland Habitat	Target	Stage 2	High	1	Yes												
plant	Myosoton aquaticum	giant chickweed	aquatic plants	Open Water	Target	Stage 2	High	1	Yes												
plant	Myriophyllum aquaticum	parrotfeather	aquatic plants	Open Water	Target	Stage 1	High	1	Yes												
plant	Najas minor	brittleleaf naiad	aquatic plants	Open Water	Target	Stage 0	High	1	Yes												
plant	Nymphoides peltata	yellow floating heart	aquatic plants	Open Water	Target	Stage 0	High	1	Yes												
plant	Opiismenus hirtellus	wavyleaf basketgrass	grass	Forest	Target	Stage 0	High	1	Yes												
plant	Parthenocissus tricuspidata	Boston ivy	vine	Vine	Target	Stage 1	High	1	Yes												
plant	Perilla frutescens	beefsteakplant	herbs/forbs	Open Wetland Habitat	Target	Stage 1	Mild	1	Yes												
plant	Phalaris canariensis L.	canarygrass	grass	Open Wetland Habitat	Target	Stage 2	High	1	Yes												
plant	Phellodendron amurense	Amur corktree	tree	Forest	Target	Stage 1	Moderate	1	Yes												
plant	Photinia villosa	Oriental photinia	tree	Forest	Target	Stage 3	High	2	Yes												

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plant	<i>Pistia stratiotes</i>	water lettuce	aquatic plants	Open Water	Target	Stage 0	Mild	1	Yes												
plant	<i>Persicaria orientalis</i>	kiss me over the garden gate	herbs/forbs	Vine	Target	Stage 0	Moderate	1	Yes												
plant	<i>Fallopia sachalinensis</i>	giant knotweed	herbs/forbs	Open Wetland Habitat	Target	Stage 0	High	1	Yes												
plant	<i>Prunus subhirtella</i> var. <i>pendula</i>	weeping Higan cherry	tree	Forest	Target	Stage 1	High	1	Yes												
plant	<i>Pueraria montana</i> var. <i>lobata</i>	kudzu	vine	Vine	Target	Stage 1	High	1	No												
plant	<i>Pyrus calleryana</i>	Callery pear (Bradford pear)	tree	Open Upland Habitat	Target	Stage 3	High	2	Yes												
plant	<i>Rhamnus cathartica</i>	European buckthorn	tree	Forest	Target	Stage 2	High	1	Yes												
plant	<i>Rhamnus davurica</i>	Dahurian buckthorn	tree	Forest	Target	Stage 0	High	1	Yes												
plant	<i>Rhodotypos scandens</i>	jetbead	shrub	Forest	Target	Stage 2	High	1	Yes												
plant	<i>Ribes rubrum</i>	garden red current	shrub	Forest	Target	Stage 1	Moderate	1	Yes												
plant	<i>Robinia hispida</i>	bristly locust	shrub	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes												
plant	<i>Rosa canina</i>	dog rose	shrub	Open Upland Habitat	Target	Stage 1	Moderate	1	Yes												
plant	<i>Rosa rugosa</i>	seaside rose	shrub	Open Upland Habitat	Target	Stage 1	High	1	Yes												
plant	<i>Rubus armeniacus</i>	Himalaya blackberry	shrub	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes												
plant	<i>Rubus laciniatus</i>	cutleaf blackberry	shrub	Open Upland Habitat	Target	Stage 1	Moderate	1	Yes												
plant	<i>Rubus parvifolius</i>	Western thimbleberry	shrub	Open Upland Habitat	Target	Stage 0	Moderate	1	Yes												
plant	<i>Styrax japonicus</i>	Japanese snowbell	tree	Forest	Target	Stage 0	Moderate	1	Yes												
plant	<i>Trapa natans</i>	European water chestnut	aquatic plants	Open Water	Target	Stage 3	High	2	Yes												
plant	<i>Ulmus parvifolia</i>	Chinese elm	tree	Forest	Target	Stage 0	High	1	Yes												
plant	<i>Ulmus procera</i>	English elm	tree	Forest	Target	Stage 0	High	1	Yes												
plant	<i>Ulmus pumila</i>	Siberian elm	tree	Forest	Target	Stage 2	High	1	Yes												
plant	<i>Viburnum lantana</i>	wayfaringtree	tree	Forest	Target	Stage 0	High	1	Yes												
plant	<i>Viburnum plicatum</i>	Japanese snowball	shrub	Forest	Target	Stage 0	High	1	Yes												
plant	<i>Viburnum setigerum</i>	tea viburnum	shrub	Forest	Target	Stage 1	High	1	Yes												
plant	<i>Viburnum sieboldii</i>	Siebold's arrowwood	tree/shrub	Forest	Target	Stage 2	High	1	Yes												

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plant	Wisteria floribunda	Japanese wisteria	vine	Vine	Target	Stage 2	High	1	Yes												
plant	Wisteria sinensis	Chinese wisteria	vine	Vine	Target	Stage 3	High	2	Yes												
plant	Zelkova serrata	Japanese zelkova	tree	Forest	Target	Stage 0	High	1	Yes												

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Taxa	Scientific Name	Common Name	Treatment Options - See NJISST Herbicide Use Suggestions and Mixing Guide for details
bird	Cygnus olor	mute swan	Requires coordination with NJ Division of Fish & Wildlife
crustacean	Eriocheir sinensis	Chinese mitten crab	None recommended
crustacean	Hemigrapsus sanguineus	Asian shore crab	None recommended
fish	Ctenopharyngodon idella	grass carp	Requires coordination with NJ Division of Fish & Wildlife
fish	Culaea inconstans	brook stickleback	Requires coordination with NJ Division of Fish & Wildlife
fish	Misgurnus anguillicaudatus	oriental weatherfish	Requires coordination with NJ Division of Fish & Wildlife
fish	Lepomis gulosus	warmouth	Requires coordination with NJ Division of Fish & Wildlife
fish	Lepomis cyanellus	green sunfish	Requires coordination with NJ Division of Fish & Wildlife
fish	Channa argus	Northern snakehead	Requires coordination with NJ Division of Fish & Wildlife
fish	Hypophthalmichthys motitnx	silver carp	Requires coordination with NJ Division of Fish & Wildlife
fish	Hypophthalmichthys nobilis	bighead carp	Requires coordination with NJ Division of Fish & Wildlife
fish	Monopterus albus	Asian swamp eel	Requires coordination with NJ Division of Fish & Wildlife
fish	Pylodictis olivaris	flathead catfish	Requires coordination with NJ Division of Fish & Wildlife
insect	Agrilus planipennis	emerald ash borer	Requires coordination with NJ Department of Agriculture
insect	Agrilus sulcicollis	European oak-boring beetle	Requires coordination with NJ Department of Agriculture
insect	Anoplophora glabripennis	Asian longhorned beetle	Requires coordination with NJ Department of Agriculture
insect	Aradus cinnamomeus	pine flat bug	Requires coordination with NJ Department of Agriculture
insect	Lymantria dispar asiatica	Asian gypsy moth	Requires coordination with NJ Department of Agriculture
insect	Lymantria monacha	nun moth	Requires coordination with NJ Department of Agriculture
insect	Pyrrhalta viburni	Viburnum leaf beetle	Requires coordination with NJ Department of Agriculture
insect	Scolytus intricatus	European oak bark beetle	Requires coordination with NJ Department of Agriculture
insect	Sirex noctilio	Sirex woodwasp	Requires coordination with NJ Department of Agriculture
insect	Solenopsis invicta	red imported fire ant	Requires coordination with NJ Department of Agriculture
insect	Tetropium fuscum	brown spruce longhorn beetle	Requires coordination with NJ Department of Agriculture
insect	Tomicus piniperda	larger pine shoot beetle	Requires coordination with NJ Department of Agriculture

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insect	Xylosandrus crassiusculus	granulate ambrosia beetle	Requires coordination with NJ Department of Agriculture
insect	Xylosandrus mutilatus	camphor shot borer	Requires coordination with NJ Department of Agriculture
mammal	Myocastor coypus	nutria	Requires coordination with NJ Division of Fish & Wildlife
mammal	Sus scrofa	pig (feral)	Requires coordination with NJ Division of Fish & Wildlife
mollusk	Cipangopaludina chinensis malleata	Chinese mystery snail	Requires coordination with NJ Division of Fish & Wildlife
mollusk	Dreissena bugensis	quagga mussel	Requires coordination with NJ Division of Fish & Wildlife
mollusk	Dreissena polymorpha	zebra mussel	Requires coordination with NJ Division of Fish & Wildlife
mollusk	Potamopyrgus antipodarum	New Zealand mud snail	Requires coordination with NJ Division of Fish & Wildlife
mollusk	Sinanodonta woodiana	Chinese pond mussel	Requires coordination with NJ Division of Fish & Wildlife
pathogen	Cronartium ribicola	white pine blister rust	Requires coordination with NJ Department of Agriculture
pathogen	Ophiostoma novo-ulmi	Dutch elm disease (novi-ulmi)	Requires coordination with NJ Department of Agriculture
pathogen	Phytophthora cinnamomi	Phytophthora root rot	Requires coordination with NJ Department of Agriculture
pathogen	Phytophthora ramorum	sudden oak death	Requires coordination with NJ Department of Agriculture
pathogen	Xylella fastidiosa	bacterial leaf scorch	Requires coordination with NJ Department of Agriculture
reptile	Podarcis sicula	Italian Wall Lizard	Requires coordination with NJ Division of Fish & Wildlife
plant	Acer ginnala	Amur maple	Foliar Spray: FS-2 (Glyphosate 3.00%); Cut Stump: CS-1 (Glyphosate 50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
plant	Acer palmatum	Japanese maple	Foliar Spray: FS-2 (Glyphosate 3.00%); Cut Stump: CS-1 (Glyphosate 50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
plant	Acer pseudoplatanus	sycamore maple	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
plant	Actinidia arguta	hardy kiwi	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS.
plant	Akebia quinata	chocolate vine	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	Albizia julibrissin	mimosa	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
plant	Alnus glutinosa	European black alder	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	Amorpha fruticosa	indigobush	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness; Species often occurs as dense profusion of thin stems, which may require
plant	Ampelopsis brevipedunculata	porcelain-berry	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS.
plant	Anthriscus sylvestris	wild chervil	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES; Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species; If hand pulling, must treat before fruit/seed maturation (See phenology guidelines)



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Taxa	Scientific Name	Common Name	Treatment Options - See NJISST Herbicide Use Suggestions and Mixing Guide for details
plant	<i>Aralia elata</i>	Japanese angelica tree	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Artemisia stelleriana</i>	oldwoman	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Berberis vulgaris</i>	common barberry	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Buddleja davidii</i>	butterflybush	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Cabomba caroliniana</i>	Carolina fanwort	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers
plant	<i>Callitriche stagnalis</i>	European waterstarwort	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers
plant	<i>Carex kobomugi</i>	Japanese sedge	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent; Hand pulling on dunes may require special permission under CAFRA rules - Contact NJDEP.
plant	<i>Carex macrocephala</i>	largehead sedge	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent; Hand pulling on dunes may require special permission under CAFRA rules - Contact NJDEP.
plant	<i>Clematis flammula</i>	fragrant clematis	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Clematis terniflora</i>	Japanese clematis	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Conium maculatum</i>	poison-hemlock	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES; Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species; If hand pulling, must treat before fruit/seed maturation (See phenology guidelines); Hand pulling must occur before fruit/seed maturation (See phenology guidelines); Seek aquatic application permit and use
plant	<i>Cornus kousa</i>	Kousa dogwood	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Cynanchum louiseae</i>	black swallowwort	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Cynanchum rossicum</i>	pale swallowwort	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Didymosphenia geminata</i>	rock snot	AQUATIC SPECIES; Hand pulling only; Species is an algae (diatom) that spreads rapidly and begins to dissipate in warmer months; Flower and fruiting times are not applicable; Species occupies flowing waters and herbicide treatment is not feasible
plant	<i>Dioscorea polysacha</i>	Chinese yam	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Dipsacus laciniatus</i>	cutleaf teasel	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES; Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species; If hand pulling, must treat before fruit/seed maturation (See phenology guidelines)
plant	<i>Egeria densa</i>	Brazilian waterweed	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species does not produce fruit, but spreads rapidly through fragmentation
plant	<i>Eichhornia crassipes</i>	common water hyacinth	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Fruit rarely produced
plant	<i>Elaeagnus angustifolia</i>	Russian olive	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Eleutherococcus sieboldianus</i>	five-leaf aralia	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Eragrostis curvula</i>	weeping lovegrass	Foliar Spray: FS-2 (Glyphosate 3.00%); Conduct in late August through September to enhance effectiveness
plant	<i>Euonymus europaeus</i>	European spindle tree	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Euonymus fortunei</i>	winter creeper	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Frangula alnus</i>	glossy buckthorn	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness

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plant	Glossostigma cleistanthum	mudmat	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers
plant	Hedera helix	English ivy	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	Heracleum mantegazzianum	giant hogweed	Foliar Spray: FS-2 (Glyphosate 3.00%); HANDLE WITH CAUTION -- CAUSES SEVERE CONTACT DERMITITIS; Recommended treatment early in season before stems reach full height and become difficult to spray
plant	Humulus japonicus	Japanese hop	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES
plant	Hydrilla verticillata	hydrilla	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species does not produce viable seeds in North
plant	Hydrocharis morsus-ranae	European frog-bit	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species does not produce viable seeds in North
plant	Iris pseudacorus	yellow iris	Foliar Spray: FS-3 (Glyphosate 5.00%); Plants are sterile and do not produce viable seeds; Seek aquatic application permit and use wetlands appropriate herbicides and surfactants
plant	Kalopanax septemlobus	castor aralia	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	Lespedeza cuneata	sericea lespedeza	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); May consider use of Metsulfuron (0.25%)
plant	Lonicera caprifolium	Italian woodbine	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	Lonicera fragrantissima	sweet breath of spring	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	Ludwigia peploides	creeping waterprimrose	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species is annual and must be treated before seeding
plant	Malus toringo	Japanese crabapple	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	Marsilea quadrifolia	European waterclover	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species is annual and must be treated before seeding; Non-flowering; non-fruiting - highlighted red period indicates presence of reproductive spores
plant	Miscanthus sinensis	Chinese silvergrass	Foliar Spray: FS-3 (Glyphosate 5.00%); Conduct in late August through September to enhance effectiveness
plant	Myosoton aquaticum	giant chickweed	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species is annual and must be treated before seeding; Species spreads rapidly through fragmentation
plant	Myriophyllum aquaticum	parrotfeather	QUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species does not produce viable fruit; Species spreads rapidly through fragmentation
plant	Najas minor	brittleleaf naiad	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species spreads rapidly through fragmentation
plant	Nymphoides peltata	yellow floating heart	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers
plant	Oplismenus hirtellus	wavyleaf basketgrass	Foliar Spray: FS-2 (Glyphosate 3.00%); Foliar Spray: FS-8 (Quizalofop 0.38%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES
plant	Parthenocissus tricuspidata	Boston ivy	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS.
plant	Perilla frutescens	beefsteakplant	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES
plant	Phalaris canariensis L.	canarygrass	Foliar Spray: FS-2 (Glyphosate 3.00%); Seek aquatic application permit and use wetlands appropriate herbicides and surfactants
plant	Phellodendron amurense	Amur corktree	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
plant	Photinia villosa	Oriental photinia	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness

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plant	<i>Pistia stratiotes</i>	water lettuce	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species not yet considered winter hardy in NJ; Species spreads rapidly through fragmentation
plant	<i>Persicaria orientalis</i>	kiss me over the garden gate	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES
plant	<i>Fallopia sachalinensis</i>	giant knotweed	Foliar Spray: FS-2 (Glyphosate 3.00%); Mowing recommended only as pre-treatment to weaken root system (Perform in June followed by FS in September); September FS applications recommended; Stem injection using glyphosate is highly effective but very time consuming for moderate to large populations (see <a href="http://stopknotweednj.com/knotweed_eradication.htm">http://stopknotweednj.com/knotweed_eradication.htm</a> ).
plant	<i>Prunus subhirtella</i> var. <i>pendula</i>	weeping Higan cherry	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Pueraria montana</i> var. <i>lobata</i>	kudzu	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Pyrus calleryana</i>	Callery pear (Bradford pear)	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Rhamnus cathartica</i>	European buckthorn	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Rhamnus davurica</i>	Dahurian buckthorn	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Rhodotypos scandens</i>	jetbead	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	<i>Ribes rubrum</i>	garden red current	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	<i>Robinia hispida</i>	bristly locust	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Rosa canina</i>	dog rose	Foliar Spray: FS-2 (Glyphosate 3.00%), Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Rosa rugosa</i>	seaside rose	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Rubus armeniacus</i>	Himalaya blackberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	<i>Rubus laciniatus</i>	cutleaf blackberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	<i>Rubus parvifolius</i>	Western thimbleberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	<i>Styrax japonicus</i>	Japanese snowbell	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); Cut Stump: CS-1 (Glyphosate 50%)
plant	<i>Trapa natans</i>	European water chestnut	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species is annual and must be treated before seeding
plant	<i>Ulmus parvifolia</i>	Chinese elm	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Ulmus procera</i>	English elm	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Ulmus pumila</i>	Siberian elm	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Viburnum lantana</i>	wayfaringtree	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Viburnum plicatum</i>	Japanese snowball	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Viburnum setigerum</i>	tea viburnum	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness
plant	<i>Viburnum sieboldii</i>	Siebold's arrowwood	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness

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plant	<i>Wisteria floribunda</i>	Japanese wisteria	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Wisteria sinensis</i>	Chinese wisteria	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); VINE SPECIES; Pre-treatment cutting recommended when tall/dense/multi-stem tangles prohibit safe application via FS; Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Zelkova serrata</i>	Japanese zelkova	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture); STRONGLY RE-SPROUTING SPECIES (CUTTING NOT RECOMMENDED); For BB, apply from July through September to enhance effectiveness