

New Jersey Invasive Species Strike Team

2018 Invasive Species List [Sorted by Taxa, followed by Scientific Name]

Includes NJISST Target & Watch Species along with all Widespread Invasive Species in New Jersey

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

Taxa	Scientific Name	Common Name	Species Code	NJISST APP Category	NJISST Search Grouping	NJISST Species Status	Current Abundance / Distribution Code	Number of Detections	NJISST Threat Code	ED/RR Action Code	Commercial Availability	Utilize phenology for control											
												January	February	March	April	May	June	July	August	September	October	November	December
bird	Cygnus olor	mute swan	CYOL1	bird	Freshwater	NJISST Target	Stage 2	3	High	1	No												
bird	Carpodacus mexicanus	house finch	CAME1	bird	Terrestrial	Widespread	Widespread	0	Mild	None	No												
bird	Molothrus ater	brown-headed cowbird	MOAT1	bird	Terrestrial	Widespread	Widespread	0	High	None	No												
bird	Passer domesticus	house sparrow	PADO1	bird	Terrestrial	Widespread	Widespread	1	Mild	None	No												
bird	Sturnus vulgaris	European starling	STVU1	bird	Terrestrial	Widespread	Widespread	0	Moderate	None	No												
crustacean	Eriocheir sinensis	Chinese mitten crab	ERS11	wildlife	Marine	Widespread	Widespread	0	High	None	No												
crustacean	Hemigrapsus sanguineus	Asian shore crab	HESA1	wildlife	Marine	Widespread	Widespread	0	High	None	No												
fish	Piaractus brachipomus	red-bellied pacu	PIBR1	wildlife	Freshwater	NJISST Target	Stage 0	0	Moderate	1	Yes												
fish	Hypophthalmichthys motitnx	silver carp	HYMO1	wildlife	Freshwater	NJISST Target	Stage 0	0	High	1	No												
fish	Hypophthalmichthys nobilis	bighead carp	HYNO1	wildlife	Freshwater	NJISST Target	Stage 0	1	High	1	No												
fish	Pterois volitans	lionfish	PTVO1	wildlife	Marine	NJISST Target	Stage 0	0	High	1	Yes												
fish	Monopterus albus	Asian swamp eel	MOAL1	wildlife	Freshwater	NJISST Target	Stage 1	1	High	1	No												
fish	Ctenopharyngodon idella	grass carp	CTID1	wildlife	Freshwater	NJISST Target	Stage 2	0	High	1	No												
fish	Culaea inconstans	brook stickleback	CUIN1	wildlife	Freshwater	NJISST Target	Stage 2	0	High	2	No												
fish	Lepomis gulosus	warmouth	LEGU1	wildlife	Freshwater	NJISST Target	Stage 2	0	High	2	No												
fish	Misgurnus anguillicaudatus	oriental weatherfish	MIAN1	wildlife	Freshwater	NJISST Target	Stage 2	0	High	2	No												
fish	Pylodictis olivaris	flathead catfish	PYOL1	wildlife	Freshwater	NJISST Target	Stage 3	0	High	2	No												
fish	Lepomis cyanellus	green sunfish	LECY1	wildlife	Freshwater	NJISST Target	Widespread	0	High	None	No												
fish	Cyprinus carpio	common carp	CYCA1	wildlife	Freshwater	Widespread	Widespread	0	High	None	Yes												
fish	Channa argus	Northern snakehead	CHAR1	wildlife	Freshwater	Widespread	Widespread	0	High	2	No												
insect	Agrilus sulcicollis	European oak-boring beetle	AGSU1	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Anoplophora glabripennis	Asian longhorned beetle	ANGL1	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Aradus cinnamomeus	pine flat bug	ARCI1	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Lymantria dispar asiatica	Asian gypsy moth	LYDI2	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Lymantria monacha	nun moth	LYMO1	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Scolytus intricatus	European oak bark beetle	SCIN1	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Sirex noctilio	Sirex woodwasp	SINO1	insect	Terrestrial	NJISST Target	Stage 0	0	Moderate	1	No												
insect	Solenopsis invicta	red imported fire ant	SOIN1	insect	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
insect	Tetropium fuscum	brown spruce longhorn beetle	TEFU2	insect	Terrestrial	NJISST Target	Stage 0	0	Moderate	1	No												
insect	Xylosandrus crassiusculus	granulate ambrosia beetle	XYCR1	insect	Terrestrial	NJISST Target	Stage 0	0	Mild	1	No												
insect	Xylosandrus mutilatus	camphor shot borer	XYMU1	insect	Terrestrial	NJISST Target	Stage 0	0	Moderate	1	No												
insect	Lycorma delicatula	Spotted lanternfly	LYDE1	insect	Terrestrial	NJISST Target	Stage 1	0	High	1	No												
insect	Tomicus piniperda	larger pine shoot beetle	TOPI1	insect	Terrestrial	NJISST Target	Stage 2	0	Moderate	1	No												
insect	Agrilus planipennis	emerald ash borer	AGPL1	insect	Terrestrial	NJISST Target	Stage 3	0	High	1	No												
insect	Lilioceris lili	lily leaf beetles	LILI2	insect	Terrestrial	NJISST Watch	Stage 0	N/A	Moderate	None	No												
insect	Phytomyza gymnostoma	Allium leaf miner	PHGY1	insect	Terrestrial	NJISST Watch	Stage 0	N/A	Moderate	None	No												
insect	Viburnum viburni	Viburnum leaf beetle	PYV11	insect	Terrestrial	Widespread	Widespread	30	High	None	No												
insect	Adelges tsugae	hemlock woolly adelgid	ADTS1	insect	Terrestrial	Widespread	Widespread	0	High	None	No												
insect	Aedes albopictus	Asian tiger mosquito	AEAL1	insect	Terrestrial	Widespread	Widespread	0	Moderate	None	No												
insect	Lymantria dispar dispar	European gypsy moth	LYDI1	insect	Terrestrial	Widespread	Widespread	0	Moderate	None	No												
invertebrate	Bipalium adventitium	Asian planarian species	BIAD1	insect	Terrestrial	NJISST Watch	Stage 0	1	Moderate	N/A	No												
invertebrate	Amyntas agrestis	crazy worms	AMAG1	invertebrate	Forest	NJISST Target	Stage 0	0	High	1	Yes												
invertebrate	Gonionemus vertens	clinging jellyfish	GOVE1	invertebrate	Marine	NJISST Target	Stage 0	0	Moderate	1	No												
invertebrate	Orconectes virilis	virile crayfish	ORV11	invertebrate	Freshwater	NJISST Target	Stage 1	0	Moderate	1	No												
invertebrate	Orconectes obscurus	Allegheny crayfish	OROB1	invertebrate	Freshwater	NJISST Target	Stage 2	0	Moderate	1	No												
invertebrate	Procambarus clarkii	red swamp crawfish	PRCL1	invertebrate	Freshwater	NJISST Target	Stage 3	0	Moderate	2	No												

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Taxa	Scientific Name	Common Name	Species Code	NJISST APP Category	NJISST Search Grouping	NJISST Species Status	Current Abundance / Distribution Code	Number of Detections	NJISST Threat Code	ED/RR Action Code	Commercial Availability	Utilize phenology for control											
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invertebrate	Haemaphysalis longicornis	East Asian Tick	HALO1	invertebrate	Terrestrial	NJISST Watch	Stage 0	0	Moderate	N/A	No												
invertebrate	Aporrectodea limicola	earthworm (Lumbricidae)	APL11	Not Included	Terrestrial	Widespread	Widespread	0	High	None	No												
invertebrate	Dendrobaena octaedra	earthworm (Lumbricidae)	DEOC1	Not Included	Terrestrial	Widespread	Widespread	0	High	None	No												
invertebrate	Eisenia rosea	earthworm (Lumbricidae)	EIRO1	Not Included	Terrestrial	Widespread	Widespread	0	High	None	No												
invertebrate	Lumbricus rubellus	earthworm (Lumbricidae)	LURU1	Not Included	Terrestrial	Widespread	Widespread	0	High	None	Yes												
invertebrate	Lumbricus terrestris	earthworm (Lumbricidae)	LUTE1	Not Included	Terrestrial	Widespread	Widespread	0	High	None	Yes												
invertebrate	Orconectes rusticus	rusty crayfish	ORRU1	wildlife	Freshwater	Widespread	Widespread	0	High	None	Yes												
invertebrate	Carcinus maenas	European green crab	CAMA1	wildlife	Marine	Widespread	Widespread	0	Moderate	None	No												
mammal	Myocastor coypus	nutria	MYCO1	wildlife	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
mammal	Sus scrofa	pig (feral)	SUSC1	wildlife	Terrestrial	NJISST Target	Stage 1	0	High	1	No												
mammal	Felis domesticus	feral cats	FEDO1	wildlife	Terrestrial	Widespread	Widespread	0	High	None	No												
mollusk	Anodontoides ferussacianus	cylindrical papershell	ANFE1	wildlife	Freshwater	NJISST Target	Stage 0	0	High	1	No												
mollusk	Cipangopaludina chinensis malleata	Chinese mystery snail	CICH1	wildlife	Freshwater	NJISST Target	Stage 0	1	Moderate	1	No												
mollusk	Dreissena bugensis	quagga mussel	DRBU1	wildlife	Freshwater	NJISST Target	Stage 0	0	High	1	No												
mollusk	Dreissena polymorpha	zebra mussel	DRPO1	wildlife	Freshwater	NJISST Target	Stage 0	0	High	1	No												
mollusk	Potamopyrgus antipodarum	New Zealand mud snail	POAN1	wildlife	Freshwater	NJISST Target	Stage 0	0	Moderate	1	No												
mollusk	Sinanodonta woodiana	Chinese pond mussel	SIWO1	wildlife	Freshwater	NJISST Target	Stage 0	1	High	1	No												
mollusk	Corbicula fulminea	Asian clam	COFU1	wildlife	Freshwater	Widespread	Widespread	0	High	None	No												
mollusk	Utterbackia imbecillis	Paper pondshell	UTIM1	wildlife	Freshwater	Widespread	Widespread	0	High	None	No												
mollusk	Littorina littorea	European periwinkle	LILI1	wildlife	Marine	Widespread	Widespread	0	High	None	No												
mollusk	Rangia cuneata	Wedge rangia	RACU1	wildlife	Marine	Widespread	Widespread	0	High	None	No												
mollusk	Cepaea nemoralis	Brown-lipped snail	CENE1	wildlife	Terrestrial	Widespread	Widespread	0	Moderate	None	No												
mollusk	Limax maximus	Leopard slug	LIMA1	wildlife	Terrestrial	Widespread	Widespread	0	High	None	No												
pathogen	Batrachochytrium dendrobatidis	chytrid pathogen of frogs	BADE1	animal pathogen	Terrestrial	NJISST Watch	Stage 0	0	High	N/A	No												
pathogen	Batrachochytrium salamandrivorans	chytrid pathogen of salamanders	BASA1	animal pathogen	Terrestrial	NJISST Watch	Stage 0	0	High	N/A	No												
pathogen	Ophidiomyces ophiodiicola	snake fungal disease	OPOP1	animal pathogen	Terrestrial	Widespread	Widespread	0	High	N/A	No												
pathogen	Pseudogymnoascus destructans	White nose syndrome	PSDE1	animal pathogen	Terrestrial	Widespread	Widespread	0	High	N/A	No												
pathogen	UNKNOWN	Beech leaf disease	XXXX1	plant pathogen	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
pathogen	Ceratocystis fagacearum	oak wilt	CEFA1	plant pathogen	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
pathogen	Ophiostoma novo-ulmi	Dutch elm disease (novi-ulmi)	OPNU1	plant pathogen	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
pathogen	Phytophthora cinnamomi	Phytophthora root rot	PHCI1	plant pathogen	Terrestrial	NJISST Target	Stage 0	0	High	1	No												
pathogen	Phytophthora ramorum	sudden oak death	PHRA1	plant pathogen	Terrestrial	NJISST Target	Stage 0	0	Moderate	1	No												
pathogen	Xylella fastidiosa	bacterial leaf scorch	XYFA1	plant pathogen	Terrestrial	NJISST Target	Stage 1	0	High	1	No												
pathogen	Cronartium ribicola	white pine blister rust	CRR11	plant pathogen	Terrestrial	NJISST Target	Stage 2	0	Moderate	1	No												
pathogen	Haplosporidium nelsonii	MSX of Oysters	HANE1	plant pathogen	Marine	Widespread	Widespread	0	High	None	No												
pathogen	Perkinsus marinus	Dermo disease	PEMA1	plant pathogen	Marine	Widespread	Widespread	0	High	None	No												
pathogen	Cryphonectria parasitica	chestnut blight or canker	CYPA1	plant pathogen	Terrestrial	Widespread	Widespread	0	High	None	No												
pathogen	Discula destructiva	dogwood anthracnose	DIDE1	plant pathogen	Terrestrial	Widespread	Widespread	0	Moderate	None	No												
pathogen	Neonectria coccinea var. faginata	beech bark canker	NECO1	plant pathogen	Terrestrial	Widespread	Widespread	0	High	None	No												
pathogen	Ophiostoma ulmi	Dutch elm disease	OPUL1	plant pathogen	Terrestrial	Widespread	Widespread	0	Moderate	None	No												

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pathogen	Sirococcus clavigignenti-juglandacearum	butternut canker	SICL1	plant pathogen	Terrestrial	Widespread	Widespread	0	Moderate	None	No												
plant	Callitriche stagnalis	European waterstarwort	CAST	aquatic plants	Open Water	NJISST Target	Stage 0	0	Moderate	1	No												
plant	Didymosphenia geminata	rock snot	DIGE	aquatic plants	Open Water	NJISST Target	Stage 0	0	High	1	No												
plant	Egeria densa	Brazilian waterweed	EGDE	aquatic plants	Open Water	NJISST Target	Stage 0	0	High	1	No												
plant	Eichhornia crassipes	common water hyacinth	EICR	aquatic plants	Open Water	NJISST Target	Stage 0	1	High	1	No												
plant	Glossostigma cleistanthum	mudmat	GLCL	aquatic plants	Open Water	NJISST Target	Stage 0	2	Mild	1	No												
plant	Hydrocharis morsus-ranae	European frog-bit	HYMO	aquatic plants	Open Water	NJISST Target	Stage 0	0	High	1	Yes												
plant	Marsilea quadrifolia	European watercress	MAQU	aquatic plants	Open Water	NJISST Target	Stage 0	8	Mild	1	Yes												
plant	Nitellopsus obtusa	starry stonewort	NIOB	aquatic plants	Open Water	NJISST Target	Stage 0	0	High	1	No												
plant	Nymphoides peltata	yellow floating heart	NYPE	aquatic plants	Open Water	NJISST Target	Stage 0	0	High	1	Yes												
plant	Pistia stratiotes	water lettuce	PIST	aquatic plants	Open Water	NJISST Target	Stage 0	0	Mild	1	Yes												
plant	Stratiotes aloides	water soldier	STWA	aquatic plants	Open Water	NJISST Target	Stage 0	0	High	1	Yes												
plant	Cabomba caroliniana	Carolina fanwort	CACA	aquatic plants	Open Water	NJISST Target	Stage 1	1	High	1	No												
plant	Hydrilla verticillata	hydrilla	HYVE	aquatic plants	Open Water	NJISST Target	Stage 1	5	High	1	Yes												
plant	Myriophyllum aquaticum	parrotfeather	MYAQ	aquatic plants	Open Water	NJISST Target	Stage 1	12	High	1	Yes												
plant	Najas minor	brittleleaf naiad	NAMI	aquatic plants	Open Water	NJISST Target	Stage 1	0	Moderate	1	Yes												
plant	Ludwigia peploides	creeping waterprimrose	LUPE	aquatic plants	Open Water	NJISST Target	Stage 2	2	High	1	Yes												
plant	Myosoton aquaticum	giant chickweed	MYAU	aquatic plants	Open Water	NJISST Target	Stage 2	8	High	1	Yes												
plant	Trapa natans	European water chestnut	TRNA	aquatic plants	Open Water	NJISST Target	Stage 3	63	High	2	Yes												
plant	Myriophyllum spicatum	Eurasian water-milfoil	MYSF	aquatic plants	Open Water	Widespread	Widespread	0	High	None	Yes												
plant	Nasturtium officinale	watercress	NAOF	aquatic plants	Open Water	Widespread	Widespread	0	High	None	Yes												
plant	Potamogeton crispus	curly-leaved pondweed	POCR	aquatic plants	Open Water	Widespread	Widespread	0	High	None	Yes												
plant	Oplismenus hirtellus	wavyleaf basketgrass	OPHI	grass	Forest	NJISST Target	Stage 0	0	High	1	Yes												
plant	Eragrostis curvula	weeping lovegrass	ERCU	grass	Open Upland Habitat	NJISST Target	Stage 2	99	High	1	Yes												
plant	Miscanthus sinensis	Chinese silvergrass	MISI	grass	Open Upland Habitat	NJISST Target	Stage 2	154	High	1	Yes												
plant	Phalaris canariensis	canarygrass	PHCA	grass	Open Wetland Habitat	NJISST Target	Stage 2	9	High	1	Yes												
plant	Pennisetum alopecuroides	black fountain grass	PEAL	grass	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Pennisetum setaceus	black fountain grass	PESE	grass	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												

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plant	Ripidium ravennae	hardy pampas grass	RIRA	grass	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Cyperus difformis	variable flatsedge	CYDI	grass	Open Wetland Habitat	NJISST Watch	Stage 0	1	None	None	No												
plant	Microstegium vimineum	Japanese stiltgrass	MIVI	grass	Forest	Widespread	Widespread	30	High	None	No												
plant	Phalaris arundinacea	reed canarygrass	PHAR	grass	Open Wetland Habitat	Widespread	Widespread	1	High	None	Yes												
plant	Arthraxon hispidus	small carpetgrass	ARHI	grass	Open Wetland Habitat	Widespread	Widespread	0	Moderate	None	No												
plant	Phragmites australis	common reed	PHAU	grass	Open Wetland Habitat	Widespread	Widespread	25	High	None	Yes												
plant	Artemisia annua	annual wormwood	ARAN	herb/forbs	Open Upland Habitat	NJISST Target	Stage 1	0	Mild	2	Yes												
plant	Corydalis incisa	purple kaman	COIN	herbs/forbs	Forest	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Ambrosia psilostachya	Cuman ragweed	AMPS	herbs/forbs	Open Upland Habitat	NJISST Target	Stage 0	0	Mild	1	No												
plant	Artemisia stelleriana	oldwoman	ARST	herbs/forbs	Open Upland Habitat	NJISST Target	Stage 0	1	Moderate	1	Yes												
plant	Heracleum mantegazzianum	giant hogweed	HEMA	herbs/forbs	Open Upland Habitat	NJISST Target	Stage 0	2	Moderate	1	Yes												
plant	Lychnis flos-cuculi	ragged robin	LYFL	herbs/forbs	Open Upland Habitat	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Fallopia sachalinensis	giant knotweed	FASA	herbs/forbs	Open Wetland Habitat	NJISST Target	Stage 0	3	High	1	Yes												
plant	Persicaria orientalis	kiss me over the garden gate	PEOR	herbs/forbs	Vine	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Hosta ventricosa	blue plantain lily	HOVE	herbs/forbs	Forest	NJISST Target	Stage 1	4	Moderate	1	Yes												
plant	Carex kobomugi	Japanese sedge	CAKO	herbs/forbs	Open Upland Habitat	NJISST Target	Stage 1	1	High	1	No												
plant	Dipsacus laciniatus	cutleaf teasel	DILA	herbs/forbs	Open Wetland Habitat	NJISST Target	Stage 1	2	Moderate	1	No												
plant	Carex macrocephala	largehead sedge	CAMA	herbs/forbs	Open Upland Habitat	NJISST Target	Stage 2	29	High	1	No												
plant	Conium maculatum	poison-hemlock	COMA	herbs/forbs	Open Wetland Habitat	NJISST Target	Stage 2	11	Moderate	1	No												
plant	Perilla frutescens	beefsteakplant	PEFR	herbs/forbs	Open Wetland Habitat	NJISST Target	Stage 2	7	Mild	1	Yes												
plant	Iris pseudacorus	yellow iris	IRPS	herbs/forbs	Open Wetland Habitat	NJISST Target	Stage 3	54	High	2	Yes												
plant	Anthriscus sylvestris	wild chervil	ANSY	herbs/forbs	Open Wetland Habitat	NJISST Target	Stage 3	5	Moderate	2	Yes												
plant	Scilla siberica	squill	SCSI	herbs/forbs	Forest	NJISST Watch	Stage 0	0	Mild	None	Yes												
plant	Carex flacca	blue-green sedge	CAFL	herbs/forbs	Forest	NJISST Watch	Stage 0	N/A	Moderate	None	Yes												
plant	Achyranthes japonica	Japanese chaff flower	ACJA	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												

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plant	Arum italicum	Italian arum	ARIT	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Belamcanda chinensis	blackberry lily	BECH	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Cyrtomium falcatum	Japanese net-veined holly fern	CYFA	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Fatoua villosa	hairy crabweed	FAVI	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	No												
plant	Houttuynia cordata	chameleon-plant	HOCO	herbs/forbs	Forest	NJISST Watch	Stage 0	1	None	None	Yes												
plant	Hyacinthoides hispanica	Hispanic hyacinthoides	HYHI	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Lamiastrum galeobdolon	yellow archangel	LAGA	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Leucojum aestivum	snowbell	LEAE	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Salvia glutinosa	Jupiter's distaff	SAGL	herbs/forbs	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Cuscuta japonica	purple stemmed dodder	CUJA	herbs/forbs	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	No												
plant	Cytisus scoparius	Scotch broom	CYSC	herbs/forbs	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Falcaria vulgaris	Sickleweed	FAVU	herbs/forbs	Open Upland Habitat	NJISST Watch	Stage 0	0	None	1	No												
plant	Kummerowia stipulacea	Korean clover	KUST	herbs/forbs	Open Upland Habitat	NJISST Watch	Stage 0	0	Low	None	Yes												
plant	Oenanthe javanica	Java dropwort	OEJA	herbs/forbs	Open Water	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Aldrovanda vesiculosa	water wheel plant	ALVE	herbs/forbs	Open Wetland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Impatiens glandulifera	Himalayan balsam	IMGL	herbs/forbs	Open Wetland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Murdannia keisak	marsh dayflower	MUKE	herbs/forbs	Open Wetland Habitat	NJISST Watch	Stage 0	0	Moderate	None	Yes												
plant	Alliaria petiolata	garlic mustard	ALPE	herbs/forbs	Forest	Widespread	Widespread	50	High	None	No												
plant	Cardamine impatiens	narrowleaf bittercress	CAIM	herbs/forbs	Forest	Widespread	Widespread	0	High	None	No												
plant	Ficaria verna	lesser celandine	FIVE	herbs/forbs	Forest	Widespread	Widespread	3	High	None	Yes												
plant	Lespedeza cuneata	sericea lespedeza	LECU	herbs/forbs	Open Upland Habitat	Widespread	Widespread	1038	High	None	Yes												
plant	Artemisia vulgaris	mugwort	ARVU	herbs/forbs	Open Upland Habitat	Widespread	Widespread	24	High	None	Yes												
plant	Centaurea stoebe ssp. micranthos	spotted knapweed	CEBI	herbs/forbs	Open Upland Habitat	Widespread	Widespread	5	Moderate	None	No												
plant	Cirsium arvense	Canada thistle	CIAR	herbs/forbs	Open Upland Habitat	Widespread	Widespread	0	High	None	No												
plant	Acorus calamus	American sweetflag	ACCA	herbs/forbs	Open Wetland Habitat	Widespread	Widespread	1	High	None	Yes												
plant	Lythrum salicaria	purple loosestrife	LYSA	herbs/forbs	Open Wetland Habitat	Widespread	Widespread	3	Moderate	None	Yes												
plant	Dipsacus fullonum	common teasel	DIFU	herbs/forbs	Open Wetland Habitat	Widespread	Widespread	1	High	None	Yes												

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plant	Fallopia japonica	Japanese knotweed	FAJA	herbs/forbs	Open Wetland Habitat	Widespread	Widespread	35	High	None	Yes												
plant	Lonicera fragrantissima	sweet breath of spring	LOFR	shrub	Forest	NJISST Target	Stage 0	4	Moderate	1	Yes												
plant	Rhamnus davurica	Dahurian buckthorn	RHDA	shrub	Forest	NJISST Target	Stage 0	0	High	1	Yes												
plant	Styrax japonicus	Japanese snowbell	STJA	shrub	Forest	NJISST Target	Stage 0	4	Moderate	1	Yes												
plant	Viburnum lantana	wayfaringtree	VILA	shrub	Forest	NJISST Target	Stage 0	0	High	1	Yes												
plant	Viburnum plicatum	Japanese snowball	VIPL	shrub	Forest	NJISST Target	Stage 0	6	High	1	Yes												
plant	Elaeagnus angustifolia	Russian olive	ELAN	shrub	Open Upland Habitat	NJISST Target	Stage 0	5	High	1	No												
plant	Robinia hispida	bristly locust	ROHI	shrub	Open Upland Habitat	NJISST Target	Stage 0	11	Moderate	1	Yes												
plant	Rubus armeniacus	Himalaya blackberry	RUAR	shrub	Open Upland Habitat	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Rubus parvifolius	Western thimbleberry	RUPA	shrub	Open Upland Habitat	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Berberis vulgaris	common barberry	BEVU	shrub	Forest	NJISST Target	Stage 1	8	Moderate	1	No												
plant	Eleutherococcus sieboldianus	five-leaf aralia	ELSI	shrub	Forest	NJISST Target	Stage 1	10	High	1	Yes												
plant	Euonymus europaeus	European spindletree	EUEU	shrub	Forest	NJISST Target	Stage 1	3	Moderate	1	No												
plant	Ligustrum ovalifolium	California privet	LIOV	shrub	Forest	NJISST Target	Stage 1	0	Moderate	1	Yes												
plant	Ribes rubrum	garden red current	RIRU	shrub	Forest	NJISST Target	Stage 1	0	Moderate	1	Yes												
plant	Viburnum setigerum	tea viburnum	WISE	shrub	Forest	NJISST Target	Stage 1	10	High	1	Yes												
plant	Buddleja davidii	butterflybush	BUDA	shrub	Open Upland Habitat	NJISST Target	Stage 1	17	High	1	No												
plant	Rosa canina	dog rose	ROCA	shrub	Open Upland Habitat	NJISST Target	Stage 1	0	Moderate	1	Yes												
plant	Rosa rugosa	seaside rose	RORU	shrub	Open Upland Habitat	NJISST Target	Stage 1	2	High	1	Yes												
plant	Rubus laciniatus	cutleaf blackberry	RULA	shrub	Open Upland Habitat	NJISST Target	Stage 1	11	Moderate	1	Yes												
plant	Viburnum opulus	Guelder-rose	VIOP	shrub	Open Upland Habitat	NJISST Target	Stage 1	0	High	1	Yes												
plant	Rhamnus cathartica	European buckthorn	RHCA	shrub	Forest	NJISST Target	Stage 2	194	High	1	Yes												
plant	Rhodotypos scandens	jetbead	RHSC	shrub	Forest	NJISST Target	Stage 2	86	High	1	Yes												
plant	Viburnum sieboldii	Siebold's arrowwood	VISI	shrub	Forest	NJISST Target	Stage 2	342	High	1	Yes												
plant	Salix cinerea	gray willow	SACI	shrub	Open Wetland Habitat	NJISST Target	Stage 2	0	High	1	No												
plant	Salix atrocinerea	large gray willow	SAAT	shrub	Open Wetland Habitat	NJISST Target	Stage 2	0	High	1	No												
plant	Amorpha fruticosa	indigobush	AMFR	shrub	Open Wetland Habitat	NJISST Target	Stage 2	216	High	1	Yes												
plant	Frangula alnus	glossy buckthorn	FRAL	shrub	Open Wetland Habitat	NJISST Target	Stage 2	120	High	1	Yes												
plant	Photinia villosa	Oriental photinia	PHVI	shrub	Forest	NJISST Target	Stage 3	922	High	2	Yes												
plant	Kolkwitzia amabilis	beautybush	KOAM	shrub	Forest	NJISST Watch	Stage 0	N/A	Moderate	None	Yes												
plant	Berberis julanae	wintergreen barberry	BEJU	shrub	Forest	NJISST Watch	Stage 0	0	None	None	Yes												

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plant	Deutzia scabra	duetzia	DUSC	shrub	Forest	NJISST Watch	Stage 0	6	None	None	Yes												
plant	Ligustrum amurense	amur privet	LIAM	shrub	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Mahonia bealei	Beale's barberry	MABE	shrub	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Poncirus trifoliata	hardy orange	POTR	shrub	Forest	NJISST Watch	Stage 0	3	None	None	Yes												
plant	Rhamnus utilis	Chinese buckthorn	RHUT	shrub	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Spiraea japonica	Japanese spiraea	SPJA	shrub	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Elaeagnus pungens	thorny elaeagnus	ELPU	shrub	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Hippophae rhamnoides	seaberry	HIRH	shrub	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Osmanthus heterophyllus	holly osmanthus	OSHE	shrub	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Rosa wichuraiana	memorial rose	ROWI	shrub	Open Upland Habitat	NJISST Watch	Stage 0	0	Moderate	None	Yes												
plant	Berberis thunbergii	Japanese barberry	BETH	shrub	Forest	Widespread	Widespread	51	High	None	Yes												
plant	Euonymus alatus	winged burning bush	EUAL	shrub	Forest	Widespread	Widespread	18	High	None	Yes												
plant	Ligustrum obtusifolium	border privet	LIOB	shrub	Forest	Widespread	Widespread	73	High	None	Yes												
plant	Ligustrum vulgare	European privet	LIVU	shrub	Forest	Widespread	Widespread	7	High	None	Yes												
plant	Lonicera maackii	Amur honeysuckle	LOMA	shrub	Forest	Widespread	Widespread	2	High	None	Yes												
plant	Lonicera morrowii	Morrow's honeysuckle	LOMO	shrub	Forest	Widespread	Widespread	1	High	None	Yes												
plant	Lonicera tatarica	Tatarian honeysuckle	LOTA	shrub	Forest	Widespread	Widespread	0	High	None	Yes												
plant	Rosa multiflora	multiflora rose	ROMU	shrub	Forest	Widespread	Widespread	68	High	None	Yes												
plant	Rubus phoenicolasius	wine raspberry	RUPH	shrub	Forest	Widespread	Widespread	8	High	None	Yes												
plant	Viburnum dilatatum	linden viburnum	VIDI	shrub	Forest	Widespread	Widespread	1396	High	None	Yes												
plant	Elaeagnus umbellata	autumn olive	ELUM	shrub	Open Upland Habitat	Widespread	Widespread	23	High	None	Yes												
plant	Acer ginnala	Amur maple	ACGI	tree	Forest	NJISST Target	Stage 0	7	Moderate	1	Yes												
plant	Broussonetia papyrifera	paper mulberry	BRPA	tree	Forest	NJISST Target	Stage 0	5	Moderate	1	Yes												
plant	Ulmus parvifolia	Chinese elm	ULPA	tree	Forest	NJISST Target	Stage 0	0	High	1	Yes												
plant	Ulmus procera	English elm	ULPR	tree	Forest	NJISST Target	Stage 0	2	High	1	Yes												
plant	Zelkova serrata	Japanese zelkova	ZESE	tree	Forest	NJISST Target	Stage 0	3	High	1	Yes												
plant	Kalopanax septemlobus	castor aralia	KASE	tree	Open Upland Habitat	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Populus alba	white poplar	POAL	tree	Open Upland Habitat	NJISST Target	Stage 0	1	Moderate	1	Yes												
plant	Acer pseudoplatanus	sycamore maple	ACPS	tree	Forest	NJISST Target	Stage 1	46	High	1	Yes												
plant	Cornus kousa	Kousa dogwood	COKO	tree	Forest	NJISST Target	Stage 1	26	High	1	No												
plant	Phellodendron amurense	Amur corktree	PHAM	tree	Forest	NJISST Target	Stage 1	13	Moderate	1	Yes												
plant	Prunus subhirtella var. pendula	weeping Higan cherry	PRSU	tree	Forest	NJISST Target	Stage 1	56	High	1	Yes												
plant	Populus x canadensis	gray poplar	POCA	tree	Open Upland Habitat	NJISST Target	Stage 1	0	Moderate	1	Yes												
plant	Alnus glutinosa	European black alder	ALGL	tree	Open Wetland Habitat	NJISST Target	Stage 1	17	High	1	Yes												
plant	Acer palmatum	Japanese maple	ACPA	tree	Forest	NJISST Target	Stage 2	94	Moderate	1	Yes												
plant	Ulmus pumila	Siberian elm	ULPU	tree	Forest	NJISST Target	Stage 2	0	High	1	Yes												

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plant	Albizia julibrissin	mimosa	ALJU	tree	Open Upland Habitat	NJISST Target	Stage 2	329	Moderate	1	Yes												
plant	Malus toringo	Japanese crabapple	MATO	tree	Forest	NJISST Target	Stage 3	36	High	2	Yes												
plant	Aralia elata	Japanese angelica tree	AREL	tree	Open Upland Habitat	NJISST Target	Stage 3	719	High	2	Yes												
plant	Pyrus calleryana	Callery pear (Bradford pear)	PYCA	tree	Open Upland Habitat	NJISST Target	Stage 3	764	High	2	Yes												
plant	Magnolia kobus	Kobus magnolia	MAKO	tree	Forest	NJISST Watch	Stage 0	0	Moderate	None	Yes												
plant	Koelreuteria elegans	golden raintree	KOEL	tree	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Salix matsudana	Chinese willow	SAMA	tree	Forest	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Morus australis	Chinese mulberry	MOAU	tree	Open Upland Habitat	NJISST Watch	Stage 0	0	Moderate	None	Yes												
plant	Pyrus betulifolia	birchleaf pear	PYBE	tree	Open Upland Habitat	NJISST Watch	Stage 0	0	None	None	Yes												
plant	Acer platanoides	Norway maple	ACPL	tree	Forest	Widespread	Widespread	6	High	None	Yes												
plant	Ailanthus altissima	tree-of-heaven	AIAL	tree	Forest	Widespread	Widespread	25	High	None	Yes												
plant	Robinia pseudoacacia	black locust	ROPS	tree	Open Upland Habitat	Widespread	Widespread	7	High	None	Yes												
plant	Lonicera caprifolium	Italian woodbine	LOCA	vine	Open Upland Habitat	NJISST Target	Stage 0	0	Moderate	1	Yes												
plant	Polygonum baldschuanicum	Bukhara fleecflower	POBA	vine	Open Upland Habitat	NJISST Target	Stage 0	0	High	1	Yes												
plant	Actinidia arguta	hardy kiwi	ACAR	vine	Vine	NJISST Target	Stage 0	7	Mild	1	Yes												
plant	Clematis flammula	fragrant clematis	CLFL	vine	Vine	NJISST Target	Stage 0	1	High	1	No												
plant	Dioscorea polysacha	Chinese yam	DIPO	vine	Vine	NJISST Target	Stage 0	4	Moderate	1	No												
plant	Akebia quinata	chocolate vine	AKQU	vine	Vine	NJISST Target	Stage 1	36	High	1	Yes												
plant	Cynanchum louiseae	black swallowwort	CYLO	vine	Vine	NJISST Target	Stage 1	36	High	1	No												
plant	Cynanchum rossicum	pale swallowwort	CYRO	vine	Vine	NJISST Target	Stage 1	0	High	1	No												
plant	Parthenocissus tricuspidata	Boston ivy	PATR	vine	Vine	NJISST Target	Stage 1	17	High	1	Yes												
plant	Pueraria montana var. lobata	kudzu	PUMO	vine	Vine	NJISST Target	Stage 1	27	High	1	No												
plant	Euonymus fortunei	winter creeper	EUFO	vine	Vine	NJISST Target	Stage 2	131	High	1	Yes												
plant	Wisteria floribunda	Japanese wisteria	WIFL	vine	Vine	NJISST Target	Stage 2	228	High	1	Yes												
plant	Ampelopsis brevipedunculata	porcelain-berry	AMBR	vine	Vine	NJISST Target	Stage 3	746	High	2	Yes												
plant	Clematis terniflora	Japanese clematis	CLTE	vine	Vine	NJISST Target	Stage 3	241	High	2	Yes												
plant	Hedera helix	English ivy	HEHE	vine	Vine	NJISST Target	Stage 3	855	High	2	Yes												
plant	Humulus japonicus	Japanese hop	HUJA	vine	Vine	NJISST Target	Stage 3	147	High	2	Yes												
plant	Wisteria sinensis	Chinese wisteria	WISI	vine	Vine	NJISST Target	Stage 3	28	High	2	Yes												

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plant	Celastrus orbiculatus	Oriental bittersweet	CEOR	vine	Forest	Widespread	Widespread	95	High	None	Yes												
plant	Lonicera japonica	Japanese honeysuckle	LOJA	vine	Forest	Widespread	Widespread	59	High	None	Yes												
plant	Persicaria perfoliata	mile-a-minute vine	PEPE	vine	Vine	Widespread	Widespread	513	High	None	No												
reptile	Podarcis sicula	Italian Wall Lizard	POS1	wildlife	Terrestrial	NJISST Target	Stage 0	1	Moderate	1	Yes												
reptile	Trachemys scripta	red-eared slider	TRSC1	wildlife	Freshwater	Widespread	Widespread	0	Mild	None	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
bird	Carpodacus mexicanus	house finch	None recommended
bird	Molothrus ater	brown-headed cowbird	None recommended
bird	Passer domesticus	house sparrow	None recommended
bird	Sturnus vulgaris	European starling	None recommended
crustacean	Eriocheir sinensis	Chinese mitten crab	None recommended
crustacean	Hemigrapsus sanguineus	Asian shore crab	None recommended
fish	Piaractus brachyomus	red-bellied pacu	If detected, please contact the NJ Division of Fish & Wildlife
fish	Hypophthalmichthys motitnx	silver carp	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Hypophthalmichthys nobilis	bighead carp	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Pterois volitans	lionfish	Requires coordination with NJ Division of Fish & Wildlife
fish	Monopterus albus	Asian swamp eel	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Ctenopharyngodon idella	grass carp	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Culaea inconstans	brook stickleback	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Lepomis gulosus	warmouth	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Misgurnus anguillicaudatus	oriental weatherfish	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Pylodictis olivaris	flathead catfish	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Lepomis cyanellus	green sunfish	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
fish	Cyprinus carpio	common carp	If detected, please contact the NJ Division of Fish & Wildlife
fish	Channa argus	Northern snakehead	Considered "Potentially Dangerous Fish" by NJ Division of Fish & Wildlife. Anglers required to destroy and report any captured individuals to the Fish and Wildlife Bureau of Freshwater Fisheries.
insect	Agrilus sulcicollis	European oak-boring beetle	If detected, please inform NJDA.
insect	Anoplophora glabripennis	Asian longhorned beetle	If detected, please inform NJDA.
insect	Aradus cinnamomeus	pine flat bug	If detected, please inform NJDA.
insect	Lymantria dispar asiatica	Asian gypsy moth	If detected, please inform NJDA.
insect	Lymantria monacha	nun moth	If detected, please inform NJDA.
insect	Scolytus intricatus	European oak bark beetle	If detected, please inform NJDA.
insect	Sirex noctilio	Sirex woodwasp	If detected, please inform NJDA.
insect	Solenopsis invicta	red imported fire ant	If detected, please inform NJDA.
insect	Tetropium fuscum	brown spruce longhorn beetle	If detected, please inform NJDA.
insect	Xylosandrus crassiusculus	granulate ambrosia beetle	If detected, please inform NJDA.
insect	Xylosandrus mutilatus	camphor shot borer	If detected, please inform NJDA.
insect	Lycorma delicatula	Spotted lanternfly	If detected, please inform NJDA.
insect	Tomicus piniperda	larger pine shoot beetle	If detected, please inform NJDA.
insect	Agrilus planipennis	emerald ash borer	If detected, please inform NJDA.
insect	Lilioceris lili	lily leaf beetles	If detected, please inform NJDA.
insect	Phytomyza gymnostoma	Allium leaf miner	If detected, please inform NJDA.
insect	Pyrrhalta viburni	Viburnum leaf beetle	None recommended for natural areas.
insect	Adelges tsugae	hemlock woolly adelgid	NJDA currently evaluating effectiveness of recent biocontrol agent release (Laricobius nigrinus), which may provide effective control.
insect	Aedes albopictus	Asian tiger mosquito	Requires coordination with county Mosquito Control Commissions.
insect	Lymantria dispar dispar	European gypsy moth	NJDA and NJDEP currently conduct control activities.
invertebrate	Bipalium adventitium	Asian planarian species	
invertebrate	Amyntas agrestis	crazy worms	If detected, please inform NJ Forest Service.
invertebrate	Gonionemus vertens	clinging jellyfish	If detected, contact NJ Division of Fish & Wildlife.
invertebrate	Orconectes virilis	virile crayfish	If detected, contact NJ Division of Fish & Wildlife.
invertebrate	Orconectes obscurus	Allegheny crayfish	If detected, contact NJ Division of Fish & Wildlife.
invertebrate	Procambarus clarkii	red swamp crawfish	If detected, contact NJ Division of Fish & Wildlife.

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invertebrate	Haemaphysalis longicornis	East Asian Tick	If detected, contact NJ Division of Fish & Wildlife.
invertebrate	Aporrectodea limicola	earthworm (Lumbricidae)	None recommended
invertebrate	Dendrobaena octaedra	earthworm (Lumbricidae)	None recommended
invertebrate	Eisenia rosea	earthworm (Lumbricidae)	None recommended
invertebrate	Lumbricus rubellus	earthworm (Lumbricidae)	None recommended
invertebrate	Lumbricus terrestris	earthworm (Lumbricidae)	None recommended
invertebrate	Orconectes rusticus	rusty crayfish	None recommended
invertebrate	Carcinus maenas	European green crab	None recommended
mammal	Myocastor coypus	nutria	Requires coordination with NJ Division of Fish & Wildlife
mammal	Sus scrofa	pig (feral)	Unrestricted harvesting allowed during deer hunting seasons in Deer Management Zones 25 & 65. Harvested individuals must be checked by appointment with the Division's Southern Regional Office.
mammal	Felis domesticus	feral cats	Requires coordination with NJ Division of Fish & Wildlife
mollusk	Anodontoides ferussacianus	cylindrical papershell	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. Zequanox is highly selective for Dreissena species
mollusk	Dreissena polymorpha	zebra mussel	Requires coordination with NJ Division of Fish & Wildlife. Zequanox is highly selective for Dreissena species
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
mollusk	Corbicula fulminea	Asian clam	None recommended
mollusk	Utterbackia imbecillis	Paper pondshell	None recommended
mollusk	Littorina littorea	European periwinkle	None recommended
mollusk	Rangia cuneata	Wedge rangia	None recommended
mollusk	Cepaea nemoralis	Brown-lipped snail	None recommended
mollusk	Limax maximus	Leopard slug	None recommended
pathogen	Batrachochytrium dendrobatidis	chytrid pathogen of frogs	If detected, please inform Endangered and Nongame Species Program
pathogen	Batrachochytrium salamandrivorans	chytrid pathogen of salamanders	If detected, please inform Endangered and Nongame Species Program
pathogen	Ophidiomyces ophiodiicola	snake fungal disease	If detected, please inform Endangered and Nongame Species Program
pathogen	Pseudogymnoascus destructans	White nose syndrome	If detected, please inform Endangered and Nongame Species Program
pathogen	UNKNOWN	Beech leaf disease	If detected, please inform Endangered and Nongame Species Program
pathogen	Ceratocystis fagacearum	oak wilt	If detected, contact NJ Department of Agriculture.
pathogen	Ophiostoma novo-ulmi	Dutch elm disease (novi-ulmi)	None available. NJDA does not need to be informed of detected occurrences.
pathogen	Phytophthora cinnamomi	Phytophthora root rot	None available. NJDA does not need to be informed of detected occurrences.
pathogen	Phytophthora ramorum	sudden oak death	Requires coordination with NJ Department of Agriculture
pathogen	Xylella fastidiosa	bacterial leaf scorch	None available. NJDA does not need to be informed of detected occurrences.
pathogen	Cronartium ribicola	white pine blister rust	Requires coordination with NJ Department of Agriculture
pathogen	Haplosporidium nelsonii	MSX of Oysters	Requires coordination with NJ Division of Fish & Wildlife
pathogen	Perkinsus marinus	Dermo disease	Requires coordination with NJ Division of Fish & Wildlife
pathogen	Cryphonectria parasitica	chestnut blight or canker	None recommended
pathogen	Discula destructiva	dogwood anthracnose	None recommended
pathogen	Neonectria coccinea var. faginata	beech bark canker	None recommended
pathogen	Ophiostoma ulmi	Dutch elm disease	None recommended

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pathogen	<i>Sirococcus clavigignenti-juglandacearum</i>	butternut canker	None recommended
plant	<i>Callitriche stagnalis</i>	European waterstarwort	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Treatment options may include hand-pulling and cutting.
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>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; Treatment options may include herbicide, benthic barriers and hand-pulling.
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; Treatment options may include herbicide and hand-pulling.
plant	<i>Glossostigma cleistanthum</i>	mudmat	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Treatment options may include herbicide and hand-pulling.
plant	<i>Hydrocharis morsus-ranae</i>	European frog-bit	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Treatment options may include herbicide and hand-pulling.
plant	<i>Marsilea quadrifolia</i>	European waterclover	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Non-flowering; non-fruiting - highlighted red period indicates presense of reproductive spores; ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment options may include herbicide and hand-pulling.
plant	<i>Nitellopsus obtusa</i>	starry stonewort	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Treatment options may include herbicide, hand-pulling and shading.
plant	<i>Nymphoides peltata</i>	yellow floating heart	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Treatment options may include herbicide and hand-pulling.
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; Treatment options may include herbicide and hand-pulling.
plant	<i>Stratiotes aloides</i>	water soldier	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers. Treatment with herbicide recommended.
plant	<i>Cabomba caroliniana</i>	Carolina fanwort	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species spreads via fragmentation; Treatment options may include herbicide, benthic barriers and hand-pulling.
plant	<i>Hydrilla verticillata</i>	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, but may produce tubers and turions; Spreads via fragmentation; Treatment options may include herbicide (before tuber production and may require repeated over several consecutive years) and benthic barriers.
plant	<i>Myriophyllum aquaticum</i>	parrotfeather	AQUATIC 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	<i>Najas minor</i>	brittleleaf naiad	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species spreads rapidly through fragmentation; Treatment options may include herbicide and hand-pulling.
plant	<i>Ludwigia peploides</i>	creeping waterprimrose	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment options may include herbicide and hand-pulling.
plant	<i>Myosoton aquaticum</i>	giant chickweed	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species spreads rapidly through fragmentation; ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment options include herbicide application.
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; ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment options may include herbicide (often for several consecutive years), hand-pulling, mechanical raking and dredging.
plant	<i>Myriophyllum spicatum</i>	Eurasian water-milfoil	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Species spreads rapidly through fragmentation; Treatment options may include herbicide, hand-pulling and benthic barriers.
plant	<i>Nasturtium officinale</i>	watercress	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers; Treatment options may include herbicide, hand-pulling and shading.
plant	<i>Potamogeton crispus</i>	curly-leaved pondweed	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers. Treatment with herbicide recommended.
plant	<i>Oplismenus hirtellus</i>	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 - Must treat before fruit/seed maturation (See phenology guidelines).
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>Miscanthus sinensis</i>	Chinese silvergrass	Foliar Spray: FS-3 (Glyphosate 5.00%); Conduct in late August through September to enhance effectiveness
plant	<i>Phalaris canariensis</i>	canarygrass	Foliar Spray: FS-2 (Glyphosate 3.00%); Seek aquatic application permit and use wetlands appropriate herbicides and surfactants
plant	<i>Pennistum alopecuroides</i>	black fountain grass	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has a long-term seed bank
plant	<i>Pennisetum setaceus</i>	black fountain grass	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has a long-term seed bank

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plant	<i>Ripidium ravennae</i>	hardy pampas grass	Foliar Spray: FS-3 (Glyphosate 5.00%); Conduct in late August through September to enhance effectiveness
plant	<i>Cyperus difformis</i>	variable flatsedge	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Microstegium vimineum</i>	Japanese stiltgrass	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 - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Phalaris arundinacea</i>	reed canarygrass	Foliar Spray: FS-2 (Glyphosate 3.00%); Seek aquatic application permit and use wetlands appropriate herbicides and surfactants; mowing or grazing may be considered as a pre-treatment
plant	<i>Arthraxon hispidus</i>	small carpetgrass	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 - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Phragmites australis</i>	common reed	Foliar Spray: FS-3 (Glyphosate 5.00%); Seek aquatic application permit and use wetlands appropriate herbicides and surfactants.
plant	<i>Artemisia annua</i>	annual wormwood	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 - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Corydalis incisa</i>	purple kewanee	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species
plant	<i>Ambrosia psilostachya</i>	Cuman ragweed	
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>Heracleum mantegazzianum</i>	giant hogweed	Foliar Spray: FS-2 (Glyphosate 3.00%); WARNING! CAUSES SEVERE CONTACT DERMATITIS; Recommended treatment early in season before stems reach full height and become difficult to spray. Please inform NJDA upon detection - NJDA is currently performing control activities on detected populations.
plant	<i>Lychnis flos-cuculi</i>	ragged robin	Foliar Spray: FS-2 (Glyphosate 3.00%)
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 http://stopknotweednj.com/knotweed_eradication.htm). As necessary, seek aquatic application permit and use wetlands appropriate herbicides and surfactants.
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 - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Hosta ventricosa</i>	blue plantain lily	Foliar Spray: FS-2 (Glyphosate 3.00%)
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>Dipsacus laciniatus</i>	cutleaf teasel	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species
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>Conium maculatum</i>	poison-hemlock	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species; Seek aquatic application permit and use wetlands appropriate herbicides and surfactants. WARNING! Poison hemlock contains piperidine alkaloids, and ALL plants parts are highly toxic to humans and animals when ingested. Poison hemlock can cause coma or death from respiratory paralysis after ingestion. It can cause dermatitis, nausea, and headaches if touched or inhaled after continuous handling, cutting, or mowing.
plant	<i>Perilla frutescens</i>	beefsteakplant	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Iris pseudacorus</i>	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	<i>Anthriscus sylvestris</i>	wild chervil	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species
plant	<i>Scilla siberica</i>	squill	
plant	<i>Carex flacca</i>	blue-green sedge	
plant	<i>Achyranthes japonica</i>	Japanese chaff flower	Foliar Spray: FS-2 (Glyphosate 3.00%)

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plant	<i>Arum italicum</i>	Italian arum	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Belamcanda chinensis</i>	blackberry lily	Foliar Spray: FS-2 (Glyphosate 3.00%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Cyrtomium falcatum</i>	Japanese net-veined holly fern	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Fatoua villosa</i>	hairy crabweed	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Proflam - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Houttuynia cordata</i>	chameleon-plant	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Hyacinthoides hispanica</i>	Hispanic hyacinthoides	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Lamiastrum galeobdolon</i>	yellow archangel	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Leucojum aestivum</i>	snowbell	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Salvia glutinosa</i>	Jupiter's distaff	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Cuscuta japonica</i>	purple stemmed dodder	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Proflam - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Cytisus scoparius</i>	Scotch broom	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	<i>Falcaria vulgaris</i>	Sickleweed	Foliar Spray: FS-2 (Glyphosate 3.00%); Species may act as a biennial or perennial.
plant	<i>Kummerowia stipulacea</i>	Korean clover	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Proflam - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines). Species is planted (USDA Fact Sheet). It is annual. Listed as invasive in south-central states.
plant	<i>Oenanthe javanica</i>	Java dropwort	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Aldrovanda vesiculosa</i>	water wheel plant	AQUATIC SPECIES; Requires special permitting for herbicide application; Use wetland appropriate herbicide applied by professional lake managers. Treatment options may include herbicide and hand-pulling.
plant	<i>Impatiens glandulifera</i>	Himalayan balsam	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Proflam - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Murdannia keisak</i>	marsh dayflower	Foliar Spray: FS-2 (Glyphosate 3.00%); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	<i>Alliaria petiolata</i>	garlic mustard	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species
plant	<i>Cardamine impatiens</i>	narrowleaf bittercress	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species
plant	<i>Ficaria verna</i>	lesser celandine	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); As necessary, seek aquatic application permit and use wetlands appropriate herbicides and surfactants; Control not often recommended due to high probability of reinfestation from upstream sources
plant	<i>Lespedeza cuneata</i>	sericea lespedeza	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Metsulfuron (0.25%) should be considered an alternate method that is effective on species of the bean family.
plant	<i>Artemisia vulgaris</i>	mugwort	Foliar Spray: FS-7 (Aminopyralid 0.27%); Apply in early summer; mowing may be utilized as a pre-treatment, but allow 4-8 weeks for re-growth before utilizing FS
plant	<i>Centaurea stoebe ssp. micranthos</i>	spotted knapweed	Foliar Spray: FS-6 (Clopyralid 0.63%). Biological control agents are commercially available, but requires PPQ 526 Permit - Requires coordination with NJDA.
plant	<i>Cirsium arvense</i>	Canada thistle	Foliar Spray: FS-6 (Clopyralid 0.63%)
plant	<i>Acorus calamus</i>	American sweetflag	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Plants are sterile and do not produce viable seeds; Seek aquatic application permit and use wetlands appropriate herbicides and surfactants
plant	<i>Lythrum salicaria</i>	purple loosestrife	Foliar Spray: FS-1 (Glyphosate 3.75%, Triclopyr Amine 2.50%); Presence of biological control beetles often preclude need for herbicide treatments
plant	<i>Dipsacus fullonum</i>	common teasel	Foliar Spray: FS-2 (Glyphosate 3.00%); BIENNIAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines); Treatment recommended from Mid Fall through Late Winter to avoid damaging most native species

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plant	Fallopia japonica	Japanese 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 http://stopknotweednj.com/knotweed_eradication.htm). As necessary, seek aquatic application permit and use wetlands appropriate herbicides and surfactants.
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	Rhamnus davurica	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	Styrax japonicus	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	Viburnum lantana	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	Viburnum plicatum	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	Elaeagnus angustifolia	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	Robinia hispida	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	Rubus armeniacus	Himalaya blackberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	Rubus parvifolius	Western thimbleberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	Berberis vulgaris	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	Eleutherococcus sieboldianus	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	Euonymus europaeus	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	Ligustrum ovalifolium	California privet	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	Ribes rubrum	garden red current	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	Viburnum setigerum	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	Buddleja davidii	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	Rosa canina	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	Rosa rugosa	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	Rubus laciniatus	cutleaf blackberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	Viburnum opulus	Guelder-rose	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	Rhamnus cathartica	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	Rhodotypos scandens	jetbead	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	Viburnum sieboldii	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
plant	Salix cinerea	gray willow	
plant	Salix atrocinerea	large gray willow	
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 mowing as a pre-treatment
plant	Frangula alnus	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
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
plant	Kolkwitzia amabilis	beautybush	
plant	Berberis julianae	wintergreen 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%)

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plant	<i>Deutzia scabra</i>	duetzia	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>Ligustrum amurense</i>	amur privet	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>Mahonia bealei</i>	Beale's 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%); Species has thick/waxy leaves, utilize Clean Cut surfactant or equivalent
plant	<i>Poncirus trifoliata</i>	hardy orange	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>Rhamnus utilis</i>	Chinese 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>Spiraea japonica</i>	Japanese spiraea	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Elaeagnus pungens</i>	thorny elaeagnus	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>Hippophae rhamnoides</i>	seaberry	Foliar Spray: FS-2 (Glyphosate 3.00%)
plant	<i>Osmanthus heterophyllus</i>	holly osmanthus	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 wichuraiana</i>	memorial 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>Berberis thunbergii</i>	Japanese 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>Euonymus alatus</i>	winged burning bush	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>Ligustrum obtusifolium</i>	border privet	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>Ligustrum vulgare</i>	European privet	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>Lonicera maackii</i>	Amur honeysuckle	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>Lonicera morrowii</i>	Morrow's honeysuckle	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>Lonicera tatarica</i>	Tatarian honeysuckle	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 multiflora</i>	multiflora 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>Rubus phoenicolasius</i>	wine raspberry	Foliar Spray: FS-3 (Glyphosate 5.00%)
plant	<i>Viburnum dilatatum</i>	linden 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>Elaeagnus umbellata</i>	autumn 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>Acer ginnala</i>	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	<i>Broussonetia papyrifera</i>	paper mulberry	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. Found in Cape May.
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>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
plant	<i>Kalopanax septemlobus</i>	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	<i>Populus alba</i>	white poplar	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>Acer pseudoplatanus</i>	sycamore maple	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
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>Phellodendron amurense</i>	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	<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>Populus x canadensis</i>	gray poplar	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>Alnus glutinosa</i>	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	<i>Acer palmatum</i>	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	<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

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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	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	Aralia elata	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	Pyrus calleryana	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	Magnolia kobus	Kobus magnolia	
plant	Koeleruteria elegans	golden raintree	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	Salix matsudana	Chinese willow	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	Morus australis	Chinese mulberry	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	Pyrus betulifolia	birchleaf 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	Acer platanoides	Norway maple	Foliar Spray: FS-2 (Glyphosate 3.00%); Basal Bark: BB-1 (Triclopyr Ester 25% OR Pathfinder II ready-to-use mixture)
plant	Ailanthus altissima	tree-of-heaven	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	Robinia pseudoacacia	black 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	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	Polygonum baldschuanicum	Bukhara fleecflower	Foliar Spray: FS-2 (Glyphosate 3.00%)
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	Clematis flammula	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	Dioscorea polysacha	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	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	Cynanchum louiseae	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	Cynanchum rossicum	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	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	Pueraria montana var. lobata	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	Euonymus fortunei	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	Wisteria floribunda	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	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	Clematis terniflora	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	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	Humulus japonicus	Japanese hop	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
plant	Wisteria sinensis	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

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plant	Celastrus orbiculatus	Oriental bittersweet	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	Lonicera japonica	Japanese honeysuckle	Foliar Spray: FS-2 (Glyphosate 3.00%); Cut Stump: CS-1 (Glyphosate 50%)
plant	Persicaria perfoliata	mile-a-minute vine	Foliar Spray: FS-2 (Glyphosate 3.00%); Pre-Emergent Spray: PE-1 (Prodiamine - See Label Instructions); NJDA has released biological control agents that may ultimately provide effective control - additional control measures recommended for new, small populations only; ANNUAL SPECIES - Must treat before fruit/seed maturation (See phenology guidelines).
reptile	Podarcis sicula	Italian Wall Lizard	Requires coordination with NJ Division of Fish & Wildlife
reptile	Trachemys scripta	red-eared slider	Requires coordination with NJ Division of Fish & Wildlife