Delaware Natural Heritage Program

This list documents plants and animals that are – or have great potential to be - invasive in the state of Delaware. These invasives are known to displace native species and/or disrupt natural ecological processes, with species in reverse text being the most troublesome. The list is based on personal knowledge, consultation with experts, and review of the literature. Origin, Growth Form and Wetland Indicator codes are described following the list.

THIS LIST IS NOT REGULATORY; it is intended to serve only as a reference for those interested in invasive species in Delaware. Also, the focus of the list is on plants and animals that **IMPACT NATURAL AREAS**; some of these species may be appropriate in other settings, although they should be used with caution.

Contact the Delaware Natural Heritage Program at (302) 653-2880 or http://www.dnrec.state.de.us/fw/wildrehe.htm for more information.

SCIENTIFIC NAME	COMMON NAME	ORIGIN	PIEDMONT	COASTAL PLAIN	GROWTH FORM	WETLAND	HABITAT
				PLAN	ITS		
Acer platanoides	Norway maple	А	Yes	Yes	DT	UPL	Upland forests and slopes
Acer pseudoplatanus	sycamore maple	Α	Yes	No	DT	UPL	Escape from cultivation
Ailanthus altissima	tree-of-Heaven	Α	Yes	Yes	DT	FACU-	Disturbed woods, roadsides, fields
Akebia quinata	five-leaf akebia	Α	Yes	No	WV	UPL	Cultivated and occasionally escaping
Alliaria petiolata	garlic mustard	Α	Yes	Yes	BH	FACU-	Moist woods and floodplains
Ampelopsis brevipedunculata	porcelain-berry	Α	Yes	No	WV	UPL	Moist woods, slopes and thickets
Arthraxon hispidus	joint-head arthraxon	Α	Yes	Yes	AG	FAC	Disturbed areas, edges, old fields, roadsides, ditches
Berberis thunbergii	Japanese barberry	Α	Yes	Yes	DS	FACU	Escape from cultivation, woods and thickets
Bidens polylepis	tickseed sunflower	Ad	Yes	Yes	AH	FACW	Marshes, wet meadows, depressions, ditches, fields
Cabomba caroliniana	Carolina fanwort	Ad	No	Yes	PAH	OBL	Ponds and quiet waters
Carex kobomugi	sedge	Α	No	Yes	PS	UPL	Planted on coastal dunes
Celastrus orbiculata	Oriental bittersweet	Α	Yes	Yes	WV	FACU	Woods, floodplains, thickets
Cirsium arvense	Canada thistle	Α	Yes	Yes	PH	FACU	Meadows and old fields
Clematis terniflora	Japanese virgin's-bower	Α	Yes	Yes	PHV	FACU-	Stream and river banks, thickets, moist woods
Commelina communis	Asiatic dayflower	Α	Yes	Yes	AH	FAC-	Disturbed areas, edges, old fields, roadsides, ditches
Conium maculatum	poison-hemlock	Α	Yes	Yes	BH	FACW	Disturbed areas, edges, old fields, roadsides, ditches
Convolvulus arvensis	field bindweed	Α	Yes	Yes	PHV	UPL	Meadows and old fields
Duchesnea indica	Indian mock-strawberry	Α	Yes	Yes	PH	FACU-	Disturbed areas, edges, old fields, roadsides, lawns
Egeria densa	Brazilian waterweed	Α	No	Yes	PAH	OBL	Ponds and quiet waters
Eichhornia crassipes	water hyacinth	Α	No	Yes	PAH	OBL	Rare escape in ponds and quiet waters
Elaeagnus umbellata	autumn olive	A	Yes	Yes	DS	UPL	Woods, thickets and fields
Euonymus alatus	winged euonymus	Α	Yes	No	DS	UPL	Moist woods and slopes
Festuca pratensis	meadow fescue	Α	Yes	Yes	PG	FACU-	Disturbed areas, edges, old fields, roadsides, ditches
Hedera helix	English ivy	Α	Yes	Yes	WV	UPL	Thin woods, edges and thickets

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SCIENTIFIC NAME	COMMON NAME	ORIGIN	PIEDMONT	COASTAL	GROWTH	WETLAND	HABITAT	
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Hemerocallis fulva	orange daylily	Α	Yes	Yes	PH	UPL	Floodplains, moist woods, roadsides, old homesites	
Humulus japonicus	Japanese hop	Α	Yes	Yes	PH	FACU	Disturbed areas, edges, old fields, roadsides, ditches	
Humulus lupulus	common hop	Α	Yes	Yes	PH		Disturbed areas, edges, old fields, roadsides, ditches	
Hydrilla verticillata	hydrilla	Α	No	Yes	PAH	OBL	Ponds and quiet waters	
Iris pseudacorus	yellow iris	Α	Yes	Yes	PH	OBL	Fresh water tidal marshes	
Ligustrum vulgare	European privet	Α	Yes	Yes	DS		Woods and thickets	
Lonicera japonica	Japanese honeysuckle	Α	Yes	Yes	WV	FAC-	Woodlands throughout the state	
Lonicera maackii	Amur honeysuckle	Α	Yes	No	DS	UPL	Woods, thickets, old fields, edges	
Lonicera morrowii	Morrow's honeysuckle	Α	Yes	Yes	DS	UPL	Woods, thickets, old fields, edges	
Lonicera tatarica	Tartarian honeysuckle	Α	Yes	Yes	DS	FACU	Woods, thickets, old fields, edges	
Ludwigia peploides ssp. glabrescens	floating seedbox	Ad	Yes	Yes	PH	OBL	Ponds, slow shallow streams, impoundments, ditches	
Lysimachia nummularia	creeping Jennie	Α	Yes	Yes	PH	FACW-	Disturbed areas, edges, old fields, roadsides, ditches	
Lythrum salicaria	purple loosestrife	Α	Yes	Yes	PH	FACW+	Tidal and nontidal marshes, stream banks, wet meadows	
Microstegium vimineum	Japanese stilt grass	Α	Yes	Yes	AG	FAC	Moist woods and floodplains	
Murdannia keisak	marsh dewflower	Α	No	Yes	PH	OBL	Marshes, ponds, ditches	
Myriophyllum aquaticum	parrot feather	Α	No	Yes	PAH	OBL	Ponds and quiet waters	
Myriophyllum spicatum	Eurasian water-milfoil	Α	No	Yes	PAH	OBL	Ponds and quiet waters	
Pachysandra terminalis	pachysandra	Α	Yes	Yes	PH		Garden escape to woodlands	
Phalaris arundinacea	reed canary grass	Ad	Yes	Yes	PG		Tidal and nontidal marshes and streams	
Phragmites australis	common reed	A/N	Yes	Yes	PG	FACW	Alien form widely established in wetlands	
Pinus thunbergiana	Japanese black pine	Α	No	Yes	ET	UPL	Coastal dunes	
Pistia stratiotes	water lettuce	Α	No	Yes	PH	OBL	Rare in ponds and quiet waters	
Poa trivialis	rough bluegrass	Α	Yes	Yes	PG	FACW	Disturbed areas, edges, old fields, roadsides, ditches	
Polygonum cespitosum	tufted knotweed	Α	Yes	Yes	AH	FACU-	Disturbed areas, edges, old fields, roadsides, ditches	
Polygonum cuspidatum	Japanese knotweed	Α	Yes	Yes	PH	FACU-	Roadsides, thickets, thin moist woods, edges	
Polygonum perfoliatum	mile-a-minute	Α	Yes	Yes	AH	FAC	Thin moist woods, floodplains, swales and marshes	
Pseudosasa japonica	bamboo	Α	Yes	Yes	PG	UPL	Edge of woods and roadsides	
Pueraria montana	kudzu	Α	Yes	Yes	PHV	UPL	Roadsides, edges of woods	
Pyrus calleryana	Callery (Bradford) pear	Α	Yes	No	DT	UPL	Roadsides, edges. old fields	
Ranunculus ficaria	lesser celandine	Α	Yes	No	PH	FAC	Floodplains and moist woods	
Rhodotypos scandens	jetbead	Α	Yes	No	DS	UPL	Cultivated and occasionally escaping	
Rosa multiflora	multi-floral rose	Α	Yes		DS		Meadows, old fields, thickets, edges	
Rubus idaeus ssp. strigosus	red raspberry	Ad	Yes	No	DS	UPL	Old fields, thickets, edges, hedgerows	
Rubus phoenicolasius	wineberry	Α	Yes	Yes	DS	UPL	Disturbed areas, edges, old fields, roadsides, ditches	

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SCIENTIFIC NAME	COMMON NAME	ORIGIN	PIEDMONT	COASTAL	GROWTH	WETLAND	HABITAT
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			PL	-AN I S	(COIII)		
Sorghum halepense	Johnson grass	Α	Yes	Yes	PG	FACU	Crop land, meadows, moist swales
Trapa natans	water chestnut	Α	No	Yes	AAH	OBL	Rare in ponds and quiet waters
Urtica dioica	stinging nettle	Α	Yes	Yes	PH	FACU	Disturbed areas, edges, old fields, roadsides, ditches
Viburnum sieboldii	Siebold's viburnum	Α	Yes	No	DS	UPL	Upland forests, edges of woods
Vinca minor	periwinkle	Α	Yes	Yes	PH	UPL	Thin woods, edges and thickets
Wisteria floribunda	Japanese wisteria	Α	Yes	Yes	WV	UPL	Roadside thickets and abandoned gardens, old homesites
				- ANIM	ALS		
Anaplophora glabripennis	Asian long-horned beetle	A	No	No	I	N/A	Urban and suburban areas, woods <not de="" found="" in="" yet=""></not>
Carcinus maenas	green crab	A	No	Yes	С	N/A	Intertidal coastline
Corbicula fluminea	Asiatic clam	A	Yes	Yes	BV	N/A	Streams, ponds
Cygnus olor	mute swan	A	Yes	Yes	В	N/A	Marshes, ponds
Dreissena polymorpha	zebra mussel	A	No	No	BV	N/A	Streams, ponds <not de="" found="" in="" yet=""></not>
Hemigrapsus sanguinensis	Japanese shore crab	A	No	Yes	С	N/A	Rocky intertidal coastline, jetties, rip-rap
Lymantria dispar	European gypsy moth	Α	Yes	Yes		N/A	Woods, urban and suburban areas
Myocastor coypus	nutria	Α	No	Yes	M	N/A	Marshes
Solenopsis invicta	red imported fire ant	Α	No	Yes		N/A	Nurseries, fields, pastures

Origin codes

A	alien to the US
Ad	adventive in DE, native elsewhere in the US
N	native to DE

Growth Form codes

AAH	annual aquatic herb	C	crustacean	PAH	perennial aquatic broad-leaf herb
AG	annual grass	DS	deciduous shrub	PAS	perennial aquatic sedge
AH	annual broad-leaf herb	DT	deciduous tree	PG	perennial grass
AHV	annual herbaceous vine	ES	evergreen shrub	PH	perennial broad-leaf herb
AS	annual sedge	ET	evergreen tree	PHV	perennial herbaceous vine
В	bird	F	fern	PS	perennial sedge
BH	biennial broad-leaf herb	FA	fern ally	WV	woody vine
BHV	biennial herbaceous vine	I	insect		
BV	bivalve	M	mammal		

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Wetland Indicator codes

OBL	occurs almost always (> 99%) under natural conditions in wetlands				
FACW	usually occurs in wetlands (67 - 99%), but occasionally found in non-wetlands				
FAC	equally likely to occur in wetlands or non-wetlands (34 - 66%)				
FACU	usually occurs in non-wetlands (67 - 99%), but occasionally found in wetlands (1 - 33%)				
UPL	occurs almost always (> 99%) under natural conditions in non-wetlands				
WETL	WETL DNHP designation for taxa not yet given a national wetland indicator, but occurs in wetland habitats in Delaware				
+ sign indicates a frequency toward the higher end of the category (more frequently found in wetlands)					
- sign indicates a frequency toward the lower end of the category (less frequently found in wetlands)					