

INVENTORY OF NATURAL AREAS WITHIN THE CITY OF NEWTON, MASSACHUSETTS

LAND MANAGEMENT COMMITTEE, NEWTON CONSERVATORS

July - September 2007

Note: The page on Ferns, Club-Moss, and Horsetails was updated by Don Lubin in July 2014.

The Land Management Committee of the Newton Conservators began a survey of the natural areas within the City of Newton in the fall of 2005. These surveys were completed by groups of committee members on a weekly basis throughout the year. Committee members ranged from inexperienced to expert in identification abilities. A dated master list was created for each individual natural area.

The Newton Master List in this document shows the overall survey results. This document establishes a baseline of existing species, which allows us to detect changes over time. We will be able to learn if species are disappearing, and can monitor the progress of invasive species. Once the Land Management Committee has enough historical data, it will become possible to identify more subtle changes retroactively.

We will have a sense of the relative "wildness" of the various open spaces, which could affect decision making with regard to sitting future developments or re-assigning open space land uses.

The Newton Conservators promote the protection and preservation of natural areas, including parks, park lands, playgrounds, forests and streams, which are open or may be converted to open spaces for the enjoyment and benefit of the people of Newton for scientific study, education, and recreation. It further aims to disseminate information about these and other environmental matters.

Newton Master List Key

PROPERTY ABBREVIATIONS:	ACRES: DESCRIPTION:	ADMINISTERED BY:
AP Awtrey Property	0.5 woodland slope to dell	Newton Conservators
AW Avery Woods		
BM Baldpate Meadow Conservation Area	4.9 wooded wetland, wildlife	Conservation Commission
BP Bullough's Pond	9.0 shallow, man-made pond *	Parks and Recreation
CL Crystal Lake	33.0 shoreline path, "great pond" (a pond that's larger than ten acres) *	Parks and Recreation
CP Charles River Path, California Street	1.6 scenic view of Charles River	MDCR
CQ Charles River Path, Quinobequin Road	16.3 wooded, views of Charles River	MDCR
CR Charles River Path, Williams Street	1.5	City of Newton
CS Cold Spring Park	67.0 wooded areas, fields, brook, wetlands, birding *	Parks and Recreation
CW Charles River Path, Wells Ave.**	30.5 wetlands, wooded floodplain *	Conservation Commission
DR Dexter Road	0.2 wooded hillside	Newton Conservators
DP Dolan Pond Conservation Area	8.0 wetlands, paths, boardwalks, foot bridges, four small ponds, birding *	Conservation Commission
EB East Parish Burying Ground	3.0 burying ground used as early as 1672	City of Newton
EP Edmands Park	33.0 stone walls, woods, small clearings, wetlands, Edmands Brook, glacial esker *	Parks and Recreation
FB Frank Barney Conservation Area	1.7 woods, rock ledges, view	Conservation Commission
GC Goddard Christina Conservation Area	4.3 woods, wetland, wildlife	Conservation Commission
HB Hahn Brook Conservation Area	4.4 wooded floodplain, wildlife	Conservation Commission
HG Hemlock Gorge Reservation	23.0 stone bridge, deep river gorge, waterfall, steep banks, views *	MDCR
HO Houghton Garden**	wild garden, paths, stream, lagoon-like pond * (included in Webster Conservation Area Acres)	Conservation Commission
HW Hunnewell Woods Conservation Area	1.7 wooded slope	Conservation Commission
KP Kennard Park Conservation Area	32.3 post-agricultural forest, mixed and conifer woodlands, stone walls, red maple swamp, sensitive fern marsh *	Conservation Commission
KW Kesseler Woods	42.7 path, woodland	Conservation Commission
LM Leo J. Martin Golf Course	18 hole golf course partially in Newton Lower Falls	MDCR
MC Martin Conservation Area	0.6 wooded slope	Conservation Commission
MH Mary Hunnewell Fyfe Footbridge	several views of Charles River, riverbanks grassy sloping shorelines*	MDCR
NA Nahanton Park	57.0 meadows, wooded hillsides, wetlands, pond, open plateau overlooking river valley, birding *	Parks and Recreation
NC Newton Cemetery	100.0 hills, ponds, streams, birding	Newton Cemetery Corp.
NO Norumbega Park Conservation Area	13.0 trails, meadow, steep pine and hemlock covered riverbanks, wooded knoll, scenic view of Charles River *	Conservation Commission
OH Oak Hill Pathway	drumlin, elevation of 291 feet, sandy till, scenic view	Conservation Commission
OP Ordway Park	0.5 natural woodland garden *	Newton Conservators
OW Oakdale Woods Conservation Area	2.5 wooded, Stearns Brook, short trail	Conservation Commission
SB South Parish Burying Ground	1.3 burying ground dating from 1802	City of Newton
SF Stanford Flowed Meadow Conservation Area	28.0 wetlands, kettle hole, pathways *	Conservation Commission
SM Saw Mill Brook Conservation Area	31.9 trail, brook, wooded upland, wetland, stone fences, birding, dramatic puddingstone outcroppings *	Conservation Commission
VH Varick Hill Conservation Area & Aqueduct (within city block)	0.2 path, woodland	City of Newton & MWRA
WB West Parish Burying Ground	1.6 burying ground dating from 1781	City of Newton

WC	Webster Conservation Area	113.7	wooded area, rock out croppings, brooks, ponds, wetlands, field, deer park, historic woodland garden*	Conservation Commission
WI	Wilson Conservation Area & Aqueduct (within city block)	0.5	wooded area	Conservation Commission

[* Walking Trails in Newton's Park & Conservation Lands by Newton Conservators, Inc.](#)

**To be added at a later date

MDCR = Massachusetts Department of Conservation and Recreation

MWRA = Massachusetts Water Resources Authority

NATIVE - NON-NATIVE:

N Native

I Introduced

MI Middlesex County

MA Massachusetts

NE New England

AVOID avoid using these invasive plants

species are found in more than six locations

E MESA Rank *****

T MESA Rank *****

SC MESA Rank *****

Watch List (as of February 2007) *****

E Engangered

T Threatened

SC Special Concern

EXPLANATION:

(indigenous) taxa are those considered to include Massachusetts (Middlesex County) as part of their natural range within historical times ***

(non-indigenous) species, sometimes referred to as 'alien' or 'exotic,' are those which have been deliberately or accidentally introduced into Massachusetts (Middlesex County) through human activities, even if passively via adjacent states ***

occurs in Middlesex County***

occurs in Massachusetts ***

occurs in New England

they establish themselves at the expense of native plants *****

MESA = Massachusetts Endangered Species Act Ranks (MESA-ranks)

Any species of plant or animal in danger of extirpation throughout all or a significant portion of its range, and species of plants or animals in danger of extirpation as documented by biological research and inventory. *****

Any species of plant or animal likely to become an endangered species within the foreseeable future throughout all or a portion of its range, and any species declining or rare as deemed by biological research and inventory and likely to become endangered in the foreseeable future. *****

Any species of plant or animal which has been documented by biological research and inventory to have suffered a decline that could threaten the species if allowed to continue unchecked or that occurs in such small numbers or with such a restricted distribution or specialized habitat requirements that it could easily become threatened in Massachusetts. *****

*** *The Vascular Plants of Massachusetts A County Checklist* by Bruce A. Sorrie and Paul Somers**** *Alternative for Invasive Ornamental Plant Species* by The Connecticut Agricultural Experiment Station, and [Invasive Plant Atlas of New England \(IPANE\) http://nbj-njn.ciesin.columbia.edu/ipane/index.htm](http://nbj-njn.ciesin.columbia.edu/ipane/index.htm)

***** Status List of Massachusetts Rare Plants edited by Melissa Dow Cullina, Paul Somers and Kathy Wilensky from the Natural Heritage & Endangered Species Program, Massachusetts Division of Fisheries & Wildlife February, 2007

Field Guides used for Surveys:

A Field Guide to Mushrooms: North America, Peterson Field Guides by Kent H. McKnight and Vera B. McKnight
Ferns of Northeast and Central North America, Peterson Field Guides by Cobb/Farnsworth/Lowe
Fruit Key & Twig Key to Trees & Shrubs by William M. Harlow, PH.D.
National Audubon Society Field Guide to New England by Peter Alden
Newcomb's Wildflower Guide by Lawrence Newcomb
The Shrub Identification Book by George W.D. Symonds
The Sibley Guide to Birds of Eastern North America by David Allen Sibley
The Tree Identification Book by George W.D. Symonds

References used for Written Materials:

Alternatives for Invasive Ornamental Plant Species by The Connecticut Agricultural Experiment Station
National Audubon Society Field Guide to New England by Peter Alden
The Sibley Field Guide to Birds of Eastern North America by David Allen Sibley
The Vascular Plants of Massachusetts: A County Checklist by Bruce A. Sorrie and Paul Somers

Land Management Committee Members:

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Debbie Howard
Sam Jaffe
Bill Joplin
Robert Kittredge
Walter Kittredge
Ted Kuklinski
Don Lubin
Eric Reenstierna

Quantity of Species Represented:

approximately 615 Different Plant Species
approximately 162 Different Animal Species

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI				
MUSHROOMS:																																											
Amanita pantherina	panthercap																					KP																					
Auricularia auricula	brown ear fungus																					KP																					
Boletus ornatipes	goldstalk																					KP																					
Calvatia gigantea	giant puffball																																					VH					
Clitocybe nuda	wood blewit																					KP																					
Clitocybe sp.																																											
Coprinus cornatus																																											
Coprinus micaceus	glistening inky cap																																										
Coprinus niveus	snowy ink cap																																										
Coriolus versicolor	turkeytail fungus						CL		CQ		CS	CW	DP	DR			FB					KP																					
Laetiporus sulphureus	sulfur shelf mushroom																																										
Lycoperdon sp.	puffball								CQ																																		
Mycena galericulata	rosy-gill fairy helmet																					KP																					
Piptoporus betulinus	birch polypore													CR																													
Pseudohydnum gelatinosum	apricot jelly fungus								CQ																																		
Ramaria sp.	coral mushroom																					KP																					
Russilica fragillus																						KP																					
Russula cyanoxantha	brittle gill						BP																																				
Russula fragilus	fragile russula																					KP																					
Schizophyllum commune	split gill													CR																													
Tremella foliacea	leaf jelly																																										
Tremella mesenterica	witch's butter																					KP																					
Tremellodendron schweinitzii	false coral																																										
	red and white round gall																																										
	bracket fungus																																										
MOSS:																																											
Polytrichum commune	common haircap moss	native		AW				CP			CS	CW					EB	EP	FB																								
Sphagnum sp.	sphagnum moss	native									CS		DP																														
Thuidium sp.	fern moss																																										
LICHEN:																																											
Cladonia sp.	reindeer lichen																																										
Physcia millegrana																																											
	foliose lichen																																										
	dog lichen, rock tripe																																										

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI
FERNS:																																							
<i>Asplenium platyneuron</i>	ebony spleenwort	N-MI																		HG																			
<i>Athyrium filix-femina</i> , <i>A. angustum</i>	northern lady fern	N-MI	AP		BM	BP	CL	CP	CQ		CS	CW	DP	DR		EP			HB	HG		KP	KW	LM			NA	NC	NO			OW		SF	SM		WC	WI	
<i>Cystopteris tenuis</i>	MacKay's fragile fern or brittle fern	N-MI																		HG																			
<i>Dennstaedtia punctilobula</i>	hayscented fern	N-MI					CL	CP			CS	CW	DP			EP						KP	LM	MC			NA	NC	NO			OW		SF	SM		WC		
<i>Dryopteris carthusiana</i> = <i>spinulosa</i>	spinulose or toothed wood fern	N-MI			BM			CP			CS	CW	DP			EP	FB	GC	HB			KP	KW				NA	NC			OW		SF	SM		WC			
<i>Dryopteris cristata</i>	crested wood fern	N-MI			BM																						NA												
<i>Dryopteris intermedia</i>	evergreen, intermediate, glandular wood fern	N-MI	AP		BM						CS	CW	DP			EP			HB			KP			MC		NA				OW			SM	VH		WC		
<i>Dryopteris marginalis</i>	marginal wood fern	N-MI									CS								HB	HG		KP				MC											WC		
<i>Dryopteris Xbootii</i>	Boott's wood fern				BM								CW																										
<i>Dryopteris Xtriploidea</i>	hybrid wood fern, fruitful wood fern	N-MI									CS		DP							HB															SF		WC		
<i>Matteuccia struthiopteris</i> = <i>Pteritis pen.</i>	ostrich fern	N-MI										CW										KP						NC						SF					
<i>Onoclea sensibilis</i>	sensitive fern	N-MI			BM	BP	CL	CP	CQ		CS	CW	DP	DR		EP		GC	HB			KP	KW	LM			NA	NC	NO					SF	SM	VH		WC	
<i>Osmunda cinnamomea</i>	cinnamon fern	N-MI			BM	BP	CL	CP	CQ		CS	CW	DP	DR		EP		GC				KP		LM			NA	NC	NO		OW		SF	SM			WC		
<i>Osmunda claytoniana</i>	interrupted fern	N-MI			BM	BP			CQ		CS	CW				EP		GC	HB			KP		LM			NC			OW		SF	SM				WC		
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern	N-MI			BM	BP			CQ		CS	CW	DP	DR					HB			KP		LM			NA		NO				SF	SM			WC		
<i>Polypodium virginianum</i>	rockcap fern, common polypody	N-MI																				KP																WC	
<i>Polypodium appalachianum</i> x <i>virginianum</i>	hybrid polypody	N-MI																		HG		KP						NC									WC		
<i>Polystichum acrostichoides</i>	Christmas fern	N-MI																																				WI	
<i>Pteridium aquilinum</i> var. <i>latiusculum</i>	bracken, eastern bracken fern	N-MI						CP	CQ		CS	CW				EP	FB		HB			KP		LM	MC		NA		NO		OW		SF	SM			WC		
<i>Thelypteris noveboracensis</i>	New York fern	N-MI				BP					CS	CW				EP						KP		LM						OW		SF	SM					WC	
<i>Thelypteris palustris</i> var. <i>pubescens</i>	marsh fern	N-MI			BM	BP		CP	CQ		CS	CW	DP			EP			HB			KP		LM			NA					SF	SM					WC	
<i>Thelypteris simulata</i> = <i>Parathelypteris sim.</i>	Massachusetts fern	N-MI									CS																											WC	
<i>Woodwardia virginica</i>	Virginia chain fern	N-MI																																					WC
CLUB-MOSSES:																																							
<i>Dendrolycopodium hickeyi</i>	Hickey's club-moss or ground-pine	N-MI										CW											KW											SF	SM			WC	
<i>Dendrolycopodium obscurum</i> = <i>L. obscurum</i>	ground-pine, princess-pine or tree club-moss	N-MI										CW										KP		LM				NO							SM			WC	
<i>Diphasiastrum digitatum</i>	ground-cedar																											NA											
HORSETAILS:																																							
<i>Equisetum arvense</i>	field or common horsetail	N-MI				BP					CS	CW	DP	DR		EP												NC			OW		SF					WC	

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CR	CQ	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI			
CONIFERS:																																										
Abies balsamea	balsam-fir	N-MI																																					WC			
Abies concolor	white fir	I-MI																																					WI			
Abies fraseri	Fraser fir	I-MI																											NC													
Cedrus atlantica	Atlas blue cedar 'Galuca Pendula'	I-MI																											NO													
Cedrus atlantica glauca	blue atlas cedar																											NC														
Chamaecyparis pisifera	threadleaf cypress	I-MI																										NC														
Chamaecyparis thyoides	Atlantic white cedar	N-MI																										NC														
Ginkgo biloba	gingko, maidenhair tree	I-MI, China										CS																	NC													
Juniperus communis var. depressa	creeping juniper (horizontalis out of range)	I?-MA																																					WC			
Juniperus virginiana	eastern red-cedar	N-MI						CP	CR	CQ	CS	CW			EB												NA		NO			OW		SF	SM		WB	WC	WI			
Metasequoia glyptostoides	dawn redwood	I-MI																										NC														
Picea abies	Norway spruce	I-MI														EP								KP						NO		OH							WC			
Picea glauca	white spruce	I-MA											DP																													
Picea pungens	blue spruce	I-MI																										NC								SF						
Picea sp.	spruce																																									
Pinus cembra	Swiss stone pine																																									
Pinus echinata	short-leaf pine (not recorded for NE, cult?)																EP												NC													
Pinus nigra	Austrian pine	Europe																																								
Pinus resinosa	red pine	N-MI														EP																						SF				
Pinus rigida	pitch-pine	N-MI											CW															NA		NO										VH		
Pinus strobus	white pine	N-MI		AW	BM		CL	CP	CR	CQ	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI			
Pinus sylvestris	Scotch pine	I-MI																																								
Pseudotsuga menziesii	Douglas fir																																									
Sciadopitys verticillata	umbrella pine																																									
Taxus canadensis	American or Canada yew, ground-hemlock	N-MI																FB																								
Taxus cuspidata	Japanese yew	I-MA,China																																								
Taxus sp.	yew	I-MA		AP	AW		BP	CL	CP	CR		CS	CW	DP		EB																										
Thuja occidentalis	arbor vitae, northern white cedar	N-MA, I-MI																																								
Tsuga canadensis	eastern hemlock	N-MI																																								

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI		
Rosa sp.																											NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI		
Rubus allegheniensis	common, or Allegheny blackberry	N-MI									CS	CW	DP	DR	EP	FB	HB							LM	MC	NA				OP	OW		SF	SM	VH		WC				
Rubus idaeus	red raspberry	N-MI					CL				CS						FB									NA															
Rubus occidentalis	black raspberry, blackcap	N-MI	AP		BM			CP	CQ		CS	CW	DP		EB	EP			HB	HG	HW	KP		LM		MH	NA		NO				SB	SF		VH		WC	WI		
Rubus odoratus	purple flowering raspberry	N-MI																																							
Salix discolor	large pussy willow	N-MI				BP																					NA														
Sambucus nigra ssp. canadensis	black or common elderberry	N-MI			BM									DP													NA	NC							SF			WC			
Spiraea alba	meadowsweet	N-MI						CP						DP																									SF		
Spiraea	spirea						CL																																		
Spiraea tomentosa	steplebush	N-MI																																							
Spiraea x vanhouttei	Vanhoutte spirea	I-MI																																							
Symphoricarpos albus	snowberry	N-MA																																							
Syringa vulgaris	common lilac	I-MI												DP	EB												MH	NC													
Vaccinium angustifolium	low sweet, late sweet or lowbush-b.	N-MI		AW					CQ		CS	CW				EP	FB		HB				KP	KW		MC			NO		OP	OW		SF	SM	VH		WC			
Vaccinium corymbosum = caesariense	highbush-blueberry	N-MI		AW							CS	CW	DP				FB						KP			MC	NA		NO			OW		SF	SM			WC			
Vaccinium pallidum = vacillans	early sweet, hillside-, or lowbush b.	N-MI																																							
Viburnum acerifolium	maple-leaf viburnum, flower maple	N-MI									CS	CW				EP	FB		HB				KP			MC	NA				OP			SF	SM			WC			
Viburnum dentatum var. lucidum = recognitum	northern or smooth arrow-wood	N-MI			BM	BP		CP			CS	CW	DP	DR		EP	FB		HB			HW	KP	KW		MC	NA				OP			SF	SM			WC	WI		
Viburnum lentago	wayfaring tree, twistwood	I-MA																																							
Viburnum lentago	nannyberry, sheepberry, sweet v.	N-MI																																							
Viburnum nudum var. cassinoides	wild raisin, witherod	N-MI																																							
Viburnum opulus ssp. opulus	guelder rose, snowball	I-MI																																							
Viburnum opulus var. americanum	highbush cranberry	N-MI												DP																											
Viburnum sp.	viburnum																																								
																		GC		HG			KP																		

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI			
VINES:																																										
Ampelopsis brevipedunculata	porcelain-berry	I-MI					CL																																			
Calystegia sepium ssp. sepium	European morning-glory, hedge-bindweed	I-MI				BP							DP										KW																			
Celastrus orbiculata	Oriental bittersweet	I-MI, Japan	AP		BM	BP	CL	CP	CQ		CS	CW	DP	DR		EP		GC	HB	HG	HW	KP	KW	LM		MH	NA	NC	NO		OP	OW	SB	SF	SM	VH		WC	WI			
Celastrus scandens	American bittersweet	N-MI					CL																																SM			
Cynanchum louiseae = nigrum	black swallow-wort, Louise's swallow-wort	I-MI						CP		CR											HG			KW																		
Echinocystis lobata	wild balsam-apple, prickly cucumber	N-MI						CP					DP																										WC	WI		
Euonymus fortunei	winter-creeper	I-MA	AP			BP	CL		CQ		CS			DR	EB	EP		GC	HB	HG																			VH	WC	WI	
Hedera helix	English or European ivy	I-MA	AP			BP	CL				CS			DR	EB		FB						KP																VH	WC		
Lonicera japonica	Japanese honeysuckle	I-MI, Japan			BM			CP		CR				DR		EP					HB	HG																		WI		
Lonicera sp.	honeysuckle																																							WC		
Parthenocissus quinquefolia	Virginia creeper, woodbine	N-MI	AP	AW	BM	BP	CL	CP	CQ		CS	CW	DP	DR			FB	GC	HB	HG	HW	KP		LM	MC	MH	NA	NC		OH	OP	OW	SB	SF	SM			WB	WC			
Parthenocissus tricuspidata	Boston ivy	I-MI																																								
Rubus flagellaris = jaysmithii	northern, common dewberry	N-MI							CQ		CS	CW		DR		EP	FB																								WC	WI
Rubus hispida	bristly, running or swamp-dewberry	N-MI			BM						CS	CW																														
Sicyos angulatus	Bur-cucumber	N-MI																						LM																		
Smilax glauca	sawbrier, wild sarsaparilla	N-MI														EP																								VH		
Smilax rotundifolia	common greenbrier, catbrier, bullbrier	N-MI							CQ		CS	CW	DP			EP					HB	HG	KP	LM			NA		NO										SF	SM	WC	
Solanum dulcamara	bittersweet climbing nightshade or bitters.	I-MI			BM	BP	CL	CP	CQ		CS	CW	DP									HG	HW	KP	LM		MH	NA	NC		OH			SB	SF	SM	VH	WB	WI			
Toxicodendron radicans	poison-ivy, climbing poison-ivy	N-MI	AP	AW	BM	BP	CL	CP	CQ		CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI			
Vinca minor	periwinkle, myrtle	I-MI, Europe	AP			BP			CQ					DP	DR	EB		FB																								
Vitis labrusca	fox-grape (Concord)	N-MI			BM																																					
Vitis riparia	river-bank or frost-grape	N-MI						CP			CS		DP								GC	HB																				
Vitis sp.	grape						CL																																			
Wisteria floribunda	Japanese wisteria	I-MI, Japan					CL																																			
Wisteria frutescens = macrostachya	Atlantic or long-clustered wisteria	I-MA									CS																															
Wisteria ssp.	wisteria	I-MA																																								

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI		
Vicia sp.	vetch	I-MI																																							
Viola lanceolata var. lanceolata	lance-leaf violet	N-MI						CP	CQ		CS						FB												NC												
Viola sagittata = fimbriatula	arrow-leaf violet	N-MI													EB																										
Viola sororia = papilionacea = septentrionalis	common blue violet, dooryard violet	N-MI									CS						FB								MC											SF					
Viola sp.	violet				BM		CL						DP					GC			HW				MC					OH							VH		WC		
Yucca sp.	yucca	I-MI												DR																											

BOTANICAL NAME	COMMON NAME	NATIVE	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI
GRASSES & RUSHES:																																							
Carex pensylvanica	Pennsylvania sedge	N-MI																	FB	HB			KP	KW			NA						SM		SM				
Carex sp.	sedges				BM			CP	CQ		CS	CW	DP						HB				KW											SF	SM		WC		
Carex stricta	tussock-sedge	N-MI									CS		DP																						SF				
Digitaria sp.	crab-grass												DP		EB		FB																						
Juncus effusus	soft or common rush	N-MI									CS		DP																										
Juncus sp.																				HB																			
Juncus tenuis	path-rush, yard-rush	N-MI									CS																NA											WC	
Panicum sp.	panicum																																						
Phalaris arundinacea	reed canary-grass	N-MI																																					
Phragmites australis	common reed	N-MI											CW																										
Schizachyrium scoparium = Andropogon s.	little bluestem, broom- or prairie-beardgrass	N-MI																										NA										WC	
Scirpus cyperinus = rubricosus	wool-grass, common bullesedge or bulrush	N-MI									CS		DP																										
Spartina sp.	cord-grass								CP																														
Typha latifolia	broad-leaved or common cat-tail	N-MI			BM	BP	CL				CS	CW	DP			EP												NC						SF					

INVASIVE PLANTS*

BOTANICAL NAME	QTY	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI	
Ampelopsis brevipedunculata	1					CL																																	
Acer platanoides	32	AP	AW	BM	BP	CL	CP	CQ		CS		DP	DR	EB	EP	FB	GC	HB		HW		KW	LM	MC	MH		NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI	
Acer pseudoplatanus	3						CP			CS																												VH	
Aegopodium podagraria	6							CQ		CS		DP	DR											MC				NO											
Ailanthus altissima	15	AP	AW				CP			CS		DP						HB	HG							MH	NA	NC	NO					SF	SM	VH	WB		
Alliaria petiolata	31	AP	AW	BM		CL	CP	CQ	CR	CS	CW	DP	DR		EP	FB	GC	HB		HW	KP	KW	LM							OP	OW	SB	SF	SM	VH		WC	WI	
Alnus glutinosa	2						CP								EP																								
Amorpha fruticosa?	4						CP					DP											LM											SF					
Berberis thunbergii	23		AW	BM	BP	CL	CP	CQ		CS		DP	DR		EP		GC	HB	HG		KP			LM		MH	NA		NO			OW		SF	SM		WC	WI	
Celastrus orbiculata	30	AP		BM	BP	CL	CP	CQ		CS	CW	DP	DR		EP		GC	HB	HG	HW	KP	KW	LM			MH	NA	NC	NO		OP	OW	SB	SF	SM	VH		WC	WI
Chelidonium majus	24	AP	AW	BM				CQ	CR	CS		DP	DR		EP	FB	GC	HB	HG	HW	KP	KW		MC				NO	OH				SF	SM	VH		WC	WI	
Cynanchum louiseae	4						CP		CR										HG			KW																	
Euonymus alatus	31	AP	AW	BM		CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB		HB		HW	KP		LM	MC	MH	NA	NC	NO	OH	OP	OW		SF	SM	VH		WC	WI	
Fallopia japonica	22		AW	BM	BP	CL	CP	CQ	CR	CS		DP	DR		EP	FB			HG	HW	KP						NA		OH		OW		SF	SM	VH		WC		
Glechoma hederacea	8		AW				CP			CS		DP								HW								NC					SF				WI		
Hesperis matronalis	2						CP																														WC		
Iris pseudacorus	3				BP	CL						DP																											
Ligustrum vulgare	6					CL												HB									NA		NO								WC	WI	
Lonicera japonica	10			BM			CP		CR				DR		EP			HB	HG										OH			SB		SM					
Lonicera maackii	1						CP																																
Lonicera sp.	4							CQ																MC		NA								SF					
Lonicera tatarica	1																				KP																		
Lysimachia nummularia	1											DP																											
Lythrum salicaria	13			BM	BP	CL		CQ		CS		DP			EP				HG				LM		MH	NA							SF				WC		
Ranunculus ficaria	2									CS																			NO										
Ranunculus repens	3											DP			EP																			SB					
Rhamnus cathartica	16					CL		CQ		CS		DP			EP	FB	GC	HB	HG		KP					MH	NA		NO					SF	SM		WC		
Rhamnus frangula	23			BM	BP			CQ		CS	CW	DP			EP	FB	GC	HB					LM	MC			NA	NC	NO	OH	OP	OW	SB	SF	SM		WB	WC	
Rhamnus sp.	1																			HW																			
Robinia pseudoacacia	14						CP	CQ		CS	CW	DP	DR	EB	EP	FB				HW							NA				OP		SF			WC			
Rosa multiflora	26		AW	BM	BP		CP	CQ	CR	CS	CW	DP	DR		EP		GC	HB	HG	HW	KP		LM			MH	NA	NC	NO	OH			SF	SM		WC	WI		
Rosa rugosa	1				BP																																		
Solanum dulcamara	21			BM	BP	CL	CP	CQ		CS	CW	DP							HG	HW	KP		LM			MH	NA	NC		OH			SF	SM	VH	WB	WI		

* Invasive Plant Atlas of New England (IPANE) <http://nbii-nin.ciesin.columbia.edu/ipane/index.htm>

SCIENTIFIC NAME	COMMON NAME	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI	
MARINE INVERTEBRATES:																																							
	freshwater mussels							CQ																															
	snail							CQ																															
LAND INVERTEBRATES:																																							
Lubricus species	earthworm	AP												EB																									
SPIDERS:																																							
Leiobunum	daddy-long-legs																																				SB		
	forest wolf spider															FB																							
DRAGONFLIES:																																							
Enallagma cyathigerum	blue damselfly							CQ				DP																											
	blue dasher dragonfly				BP																																		
	damselfly																						LM																
	darning needle dragonfly					CL	CP																			NA	NC												
	dragonfly					CP																	LM			MH	NA	NC											
Ischnura veticalis	Eastern forktail damselfly				BP							DP																											
Leucorrhinia hudsonica	Hudsonian whiteface									CS																													
	red dragonfly											DP															NA												
Lestes rectangularis	slender spreadwing						CP																																
	spread-winged dragonfly				BP																																		
Argia fumipennis violacea	variable dancer dragonfly				BP																																		
	yellow-headed meadowhawk				BP																																		
GRASSHOPPERS:																																							
	grasshopper																																					SB	
BETLES:																																							
Popillia japonica	Japanese beetle									CS																													
	ladybird beetle				BP																					MH													
FLIES, MOSQUITOES:																																							
Tipula paludosa	European crane fly											DP																											
Musca domestic	house fly																				HW																		
Culex pipiens	house mosquito	AP	BM			CP					DP					GC				HW						NA		NO					SF				WC		
ANTS, WASPS, BEES:																																							
Bombus pennsylvanicus	American bumble bee	AP			BP													HB																			SM		
	ant																										NC												
Camponotus pennsylvanicus	black carpenter ant		AW																		HW																		
Xylocopa virginica	Eastern carpenter bee		AW		BP		CP	CQ			CW										HW			LM		MH	NA						SF	SM			WC		
Vespula maculifrons	Eastern yellow jacket					CL																																	
Apis mellifera	honey bee	AP	AW				CP				CW													LM															
	thread-waisted wasp				BP																																		
	white-faced hornet																										MH												
	hornet																																					SF	
BUTTERFLIES, MOTHS:																																							
Papilio polyxenes	black butterfly										CS																												
	black swallowtail																																						
	blue darning needle																					HB																OH	
Pieris rapae	cabbage white		AW	BM	BP		CP		CR	CS		DP			EP	FB	GC					HW	KP		LM			NC								SF			
	Canada darter						CP																																
Anax junius	common green darter						CP																					NA											
Malacosoma americanum	Eastern tent caterpillar																																					SF	

SCIENTIFIC NAME	COMMON NAME	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI
<i>Papilio glaucus</i>	Eastern tiger swallowtail											CW DP																										
<i>Lymantria dispar</i>	gypsy moth																GC																SF				WI	
<i>Danaus plexippus</i>	monarch					CL																				NC										WC		
<i>Nymphalis antiopa</i>	mourning cloak						CP																													WC		
<i>Polites peckius</i>	Peck's skipper											DP																										
<i>Vanessa atalanta</i>	red admiral				BP																																	
<i>Papilio troilus</i> = <i>Heraclides</i>	spicebush swallowtail														EP																							
	swallowtail butterfly						CP																															
	winter moth																																					WI
	yellow swallowtail																										NC											
OTHER INSECT:																																						
<i>Forficula auricularia</i>	European earwig						CP																															
	wooly adelgid																																					NC NO

SCIENTIFIC NAME	COMMON NAME	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI	
VERTEBRATES:																																							
FISH:																																							
Lepomis macrochirus	bluegill				BP																																		
FROGS:																																							
Bufo americanus	American toad							CQ																															
	brown toad																																					SM	
Rana catesbeiana	bullfrog											DP																											
Rana sp.	frog					CL											GC									NC											SF		
Rana clamitons	green frog											DP																										SM	
	tadpoles					CL																																	
Bufo sp.	toad																																						KW
TURTLES:																																							
Chrysemys picta	painted turtle											DP															NC											WC	
	turtle					CL																																	
SNAKES:																																							
Thamnophis sirtalis	common garter snake																																						SM
MAMMALS:																																							
Parascalops breweri	common mole																																						SF
Canis latrans	coyote											DP																											WC
Tamias striatus	Eastern chipmunk	AP		BM	BP			CQ		CS	CW				EP		GC	HB				KP	KW				NA	NC	NO	OH							SF	SM	WC
Sylvilagus floridanus	Eastern cottontail rabbit	AP				CL	CP		CR		CW	DP										HW	KP																WC
Sciurus carolinensis	Eastern gray squirrel	AP		BM	BP		CP	CQ	CR	CS	CW	DP			EP	FB					HW	KP				LM	MC		NC					OW		SF		WC	WI
Spermophilus richardsor	ground squirrel																								LM														
Mephitis mephitis	striped skunk							CQ																															WC
Peromyscus leucopus	white-footed mouse																																					SF	
Odocoileus virginianus	white-tail deer				BM																																		WC

SCIENTIFIC NAME	COMMON NAME	AP	AW	BM	BP	CL	CP	CQ	CR	CS	CW	DP	DR	EB	EP	FB	GC	HB	HG	HW	KP	KW	LM	MC	MH	NA	NC	NO	OH	OP	OW	SB	SF	SM	VH	WB	WC	WI
Zenaidura macroura	mourning dove	AP		BM			CP	CQ	CR	CS		DP		EB			GC			HW	KP		LM		NA	NC	NO	OH					SM		WC			
Cygnus oler	mute swan					CL		CQ															LM					NO					SF			WC		
Cardinalis cardinalis	northern cardinal			BM			CP		CR	CS	CW	DP			EP		GC			HW	KP									OW		SF	SM			WI		
Colaptes auratus	northern flicker		AW	BM			CP		CR	CS		DP		EB	EP												NC					SF	SM			WC		
Circus cyaneus	northern harrier																																					
Mimus polyglottos	northern mockingbird				BP	CL	CP					DP														NA	NC	NO										
Parula americana	northern parula									CS					EP																							
Seiurus noveboracensis	northern waterthrush											DP																										
Seiurus aurocapillus	ovenbird											DP									KP																	
Dendroica palmarum	palm warbler														EP																		SF			WC		
Dendroica pinus	pine warbler																																				WC	
Carpodacus purpureus	purple finch																																		SM			
Melanerpes carolinus	red-bellied woodpecker									CS		DP		EB	EP						KP												SF					
Sitta canadensis	red-breasted nuthatch											DP																										
Mergus serrator	red-breasted merganser							CQ																														
Vireo olivaceus	red-eyed vireo									CS		DP																										
Buteo jamaicensis	red-tailed hawk				BP	CL				CS	CW		DR	EB	EP					HG	KP		LM		MH	NA	NC					SF	SM			WC		
Agelaius phoeniceus	red-winged blackbird			BM	BP	CL	CP		CR	CS		DP			EP		GC				KP		LM			NA	NC					SF	SM			WC		
Larus delawarensis	ring-billed gull					CL																						NO				SF				WC		
Aythya collaris	ring-necked duck																																SF					
Columba livia	rock dove (feral pigeon)				BP							DP																										
Pheucticus ludovicianus	rose-breasted grosbeak									CS																												
Piranga olivacea	scarlet tanager									CS																												
Accipiter striatus	sharp-shinned hawk				BP																												SF					
Tringa solitaria	solitary sandpiper											DP																										
Melospiza melodia	song sparrow				BP		CP	CQ	CR	CS		DP			EP		GC									NA	NC					SF	SM	VH		WC		
Actitis macularia	spotted sandpiper											DP																										
Catharus ustulatus	Swainson's thrush														EP						KP																	
Tachycineta bicolor	tree swallow											DP																										
Baeolophus bicolor	tufted titmouse			BM				CQ	CR	CS		DP			EP						KP			MC		NA		NO				SF	SM	VH		WC		
Cathartes aura	turkey vulture																				HW																WC	
Vireo gilvus	warbling vireo									CS		DP																					SF					
Sitta carolinensis	white-breasted nuthatch					CL		CQ		CS		DP			EP						HW	KP			MC	MH		NO		OW		SF	SM			WC		
Zonotrichia albicollis	white-throated sparrow							CQ	CR	CS	CW	DP			EP							KP						NO										
Aix sponsa	wood duck						CP	CQ				DP																									WC	
Hylocichla mustelina	wood thrush									CS					EP						KP												SF					
Dendroica petechia	yellow warbler						CP			CS		DP			EP								LM			NA	NC					SF						
Dendroica coronata	yellow-rumped warbler											DP			EP							KP											SF					