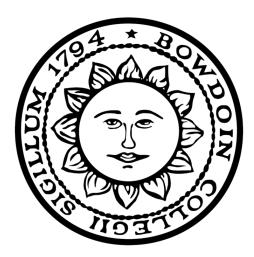
Trailside trespassers: what to do about invasive plants in our preserves?



Ashwini Sahasrabudhe Lyme Land Trust intern and rising junior at Bowdoin College

> Jim Arrigoni Environmental Director, Lyme Land Trust







Over **46 miles** of trails in Lyme!

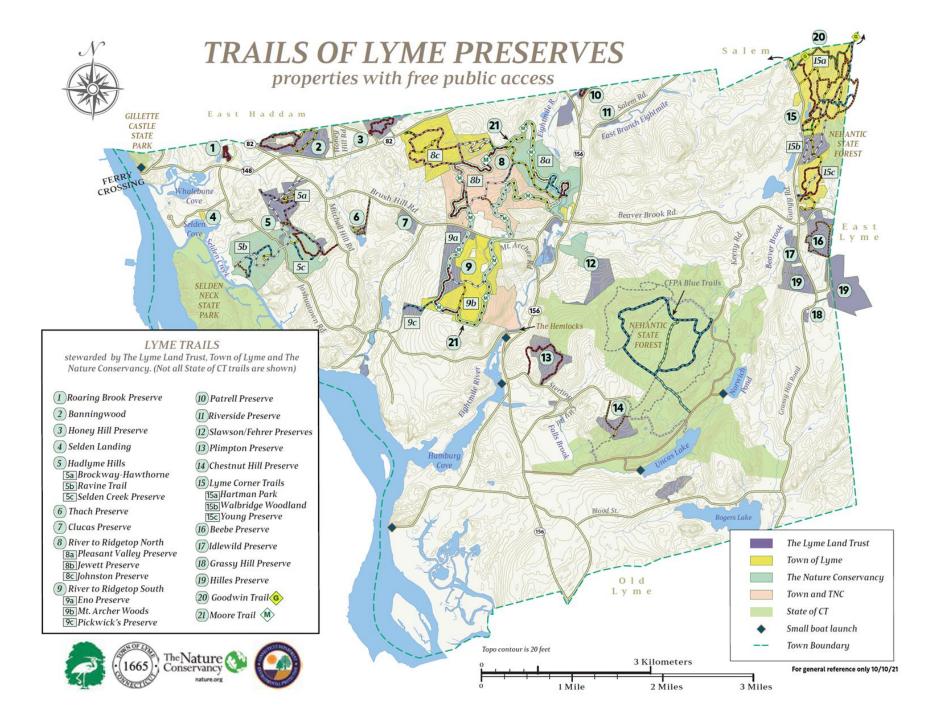




- 882 acres fee property
- 2,252 acres held in conservation easements



Over **half** of Lyme's land is "protected!"



Program outline

What's *really* so bad about invasive plants?

Get to know some species

The study: methods, results and translating science into management

ON

THE ORIGIN OF SPECIES

BY MEANS OF NATURAL SELECTION,

OR THE

PRESERVATION OF FAVOURED RACES IN THE STRUGGLE FOR LIFE.

By CHARLES DARWIN, M.A.,

FELLOW OF THE EOYAL, GEOLOGICAL, LINN. EAN, ETC., SOCIETIES; AUTROE OF 'JOUENAL OF RESEARCHES DURING H. N. S. BEAGLE'S VOYAGE EOUND THE WORLD.' THE ECOLOGY OF INVASIONS BY ANIMALS AND PLANTS

> CHARLES S. ELTON

> > METHUEN

1958

1859.

JOHN MURRAY, ALBEMARLE STREET.

LONDON:

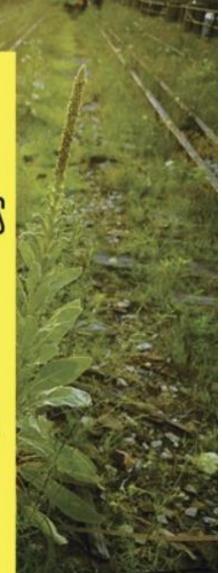
"Marris is a whip-smart writer ... already being compared to the greatest environmental writers and thinkers of the past century, Rachel Carson and Aldo Leopold." —San Francisco Chronicle

RAMBUNCTIOUS Garden

crapped.

Saving Nature in a Post-Wild World

EMMA MARRIS



Pearon hits the nail on the head... [He] brings the balanced perspective of a seasoned, freethinking environmental reporter pushing points that need to be made." —Kirkus Reviews

NEW

WILD

WHY INVASIVE SPECIES

WILL BE NATURE'S SALVATION

FRED PEARCE

What's so bad about invasive plants?

 They take the place of a native species, or a lot of native species

Data compiled by Dr. Chad Jones and the CT Botanical Society:

(Graves 1910	Dowhan 1979	Dreyer, Jones et al. 2014
# taxa	2228	2802*	2853
# exotic	492	938	1082
% exotio	22.10%	33.50%	37.90%

~1800 native	331 listed species: 133 endangered
plant species	46 threatened
	152 special concern

CONNECTICUT INVASIVE PLANT LIST

Connecticut Invasive Plants Council

October 2018 Ordered by Scientific Name

Statement to accompany list – January 2004: This is a list of species that have been determined by floristic analysis to be invasive or potentially invasive in the state of Connecticut, in accordance with PA 05-136. The Invasive Plants Council will generate a second list recommending restrictions on some of these plants. In developing the second list and particular restrictions, the Council will recognize the need to balance the detrimental effects of invasive plants with the agricultural and horticultural value of some of these plants, while still protecting the state's minimally managed habitats.

In May 2004, Public Act 04-203 restricted a subset of the January 2004 list making it illegal to move, sell, purchase, transplant, cultivate or distribute prohibited plants. Effective July 1, 2009, Public Act 09-52 removed the prohibition on Pistia stratiotes.

@ column indicates growth form or habitat: A = Aquatic & Wetland; G = Grass & Grass-like; H = Herbaceous; S = Shrub; T = Tree; V = Woody Vine

Explanation of symbols after Common Name:

(P) indicates Potentially Invasive (all other plants listed are considered Invasive in Connecticut)

denotes that the species, although shown by scientific evaluation to be invasive, has cultivars that have not been evaluated for invasive characteristics. Further research may
determine whether or not individual cultivars are potentially invasive. Cultivars are commercially available selections of a plant species that have been tred or selected for predictable,
desirable attibutes of horicultural values such as form (dwarf or weeping forms), foliage (variegade or colorful leaves), or flowering attributes color or size).

"PROHIBITED BY STATUTE?" column indicates prohibited status: Y= prohibited from importation, movement, sale, purchase, transplanting, cultivation and distribution under CT Gen Stat. §22a-381d; N/A= not prohibited

^ indicates species that are not currently known to be naturalized in Connecticut but would likely become invasive here if they are found to persist in the state without cultivation

The taxonomic names used by the Connecticut Invasive Plants Council on the Invasive Plant List are consistent with the names used by the United States Department of Agriculture PLANTS database, accessible online at www.plants.usda.gov. The Council also maintains a list of scientific name synonyms for reference purposes.

	@	SCIENTIFIC NAME		TUTE?
Amur maple (P)		Acer ginnala Maxim.		N/A
Norway maple*		Acer platanoides L.		N/A
Sycamore maple (P)		Acer pseudoplatanus L.		Y
Goutweed	Н	Aegopodium podagraria L.	Bishop's weed	Y
Tree of heaven		Ailanthus altissima (Mill.) Swingle		Y
Garlic mustard		Alliaria petiolata (M. Bieb.) Cavara & Grande		Y
False indigo (P)		Amorpha fruticosa L.		Y
Porcelainberry*	V	Ampelopsis brevipedunculata (Maxim.) Trautv.	Amur peppervine	N/A
Mugwort	н	Artemisia vulgaris L.	Common wormwood	N/A
Hairy jointgrass (P)	G	Arthraxon hispidus (Thunb.) Makino	Small carpgrass	Y
Common kochia (P)	н	Bassia scoparia (L.) A.J. Scott	Kochia scoparia ; Fireweed; Summer cypress	Y
Japanese barberry*	S	Berberis thunbergii DC.		N/A
Common barberry	S	Berberis vulgaris L.		Y
Drooping brome-grass (P)	G	Bromus tectorum L.	Cheatgrass	Y
Flowering rush (P)	A	Butomus umbellatus L.		Y
Fanwort	A	Cabomba caroliniana A. Gray	Carolina fanwort	Y
Pond water-starwort (P)	A	Callitriche stagnalis Scop.		Y
Narrowleaf bittercress	н	Cardamine impatiens L.		Y
Japanese sedge [^] (P)	G	Carex kobomugi Ohwi		Y
Oriental bittersweet	V	Celastrus orbiculatus Thunb.	Asiatic bittersweet	Y
Spotted knapweed	н	Centaurea stoebe L.	Centaurea biebersteinii; Centaurea maculosa	Y
Canada thistle (P)	н	Cirsium arvense (L.) Scop.		Y
Black swallow-wort	н	Cynanchum louiseae Kartesz & Gandhi	Cynanchum nigrum ; Vincetoxicum nigrum	Y
Pale swallow-wort	н	Cynanchum rossicum (Kleo.) Borhidi	Vincetoxicum rossicum	Y
Jimsonweed (P)	н	Datura stramonium L.		Y
Brazilian water-weed (P)	A	Egeria densa Planchon	Anacharis; Egeria	Y
Common water-hyacinth [^] (P)	A	Eichhornia crassipes (Mart.) Solms		N/A
Russian olive (P)	S	Elaeagnus angustifolia L.		Y
Autumn olive	S	Elaeagnus umbellata Thunb.		Y
Crested late-summer mint (P)	н	Elsholtzia ciliata (Thunb.) Hylander	Elsholtzia	Y
Winged euonymus*	S	Euonymus alatus (Thunb.) Sieb.	Burning bush	N/A
Cypress spurge (P)	Н	Euphorbia cyparissias L.		Y
Leafy spurge	Н	Euphorbia esula L.		Y
Glossy buckthorn	S	Frangula alnus Mill.	Rhamnus frangula; European buckthorn	N/A
Slender snake cotton	н	Froelichia gracilis (Hook.) Moq.	Cottonweed	Y
Ground ivy (P)	Н	Glechoma hederacea L.	Gill-over-the-ground; Run-away robin	Y
Reed mannagrass [^] (P)	G	Glyceria maxima (Hartm.) Holmb.	Tall mannagrass	Y
Giant hogweed (P)	Н	Heracleum mantegazzianum (Sommier & Levier)		Y

Dame's rocket	н	Hesperis matronalis L.		
Japanese hops (P)	н	Humulus japonicus Sieb. & Zucc.	Japanese hop	,
Hydrilla	A	Hydrilla verticillata (L.f.) Royle	Water thyme	, I
Ornamental jewelweed (P)	н	Impatiens glandulifera Royle	Tall impatiens	,
Yellow iris	A	Iris pseudacorus L.	Yellow flag iris; Pale yellow iris	,
Perennial pepperweed	н	Lepidium latifolium L.	Tall pepperwort	
Border privet (P)	S	Ligustrum obtusifolium Sieb. & Zucc.		
California privet (P)	s	Ligustrum ovalifolium Hassk.		N//
European privet (P)	S	Ligustrum vulgare L.		N//
Japanese honeysuckle*	V	Lonicera japonica Thunb.		
Amur honeysuckle	s	Lonicera maackii (Rupr.) Herder		
Morrow's honeysuckle	-	Lonicera morrowii A. Gray		
Tatarian honeysuckle (P)	S	Lonicera tatarica L.		
Belle honeysuckle	s	Lonicera x bella Zabel	Bell's honeysuckle (misapplied)	
Dwarf honeysuckle [^] (P)		Lonicera xylosteum L.	European fly-honeysuckle	
Ragged robin (P)		Lychnis flos-cuculi L.		
Moneywort* (P)		Lysimachia nummularia L.	Creeping jenny	N//
Garden loosestrife* (P)		Lysimachia vulgaris L.	Garden yellow loosestrife	
Purple loosestrife	_	Lythrum salicaria L.	Carden yellow loosestille	
European waterclover (P)	A	Marsilea guadrifolia L.	Water shamrock	+
European waterclover (P) Japanese stilt grass	_	Marsilea quadrifolia L. Microstegium vimineum (Trin.) A. Camus		
		Miscanthus sinensis Andersson		N/A
Eulalia* (P)	_		Chinese or Japanese silvergrass	
Forget-me-not		Myosotis scorpioides L.	True forget-me-not; Water scorpion-grass	
Parrotfeather (P)		Myriophyllum aquaticum (Vell.) Verdc.		
Variable-leaf watermilfoil		Myriophyllum heterophyllum Michx.)
Eurasian watermilfoil		Myriophyllum spicatum L.		
Brittle water-nymph (P)		Najas minor All.	Eutrophic water-nymph	
Onerow yellowcress (P)		Nasturtium microphyllum Boenn. ex. Rchb.	Rorippa microphylla	١
Watercress (P)		Nasturtium officinale W.T. Aiton	Rorippa nasturtium-aquaticum	١
American water lotus (P)	A	Nelumbo lutea Willd.	American water lotus	
Yellow floating heart (P)	A	Nymphoides peltata (S.G. Gmel.) Kuntze		
Scotch thistle (P)	н	Onopordum acanthium L.		1
Star-of-Bethlehem (P)	н	Ornithogalum umbellatum L.		N/A
Princess tree (P)	Т	Paulownia tomentosa (Thunb.) Siebold & Zucc. ex Steud	Empress-tree	
Reed canary grass	G	Phalaris arundinacea L.		N//
Common reed	G	Phragmites australis (Cav.) Trin. ex Steud.	Phragmites	
Water lettuce^ (P)	A	Pistia stratiotes L.		N/A
Canada bluegrass (P)	G	Poa compressa L.		
Bristled knotweed	н	Polygonum caespitosum Blume	Persicaria longiseta; Oriental lady's thumb	
Japanese knotweed		Polygonum cuspidatum Siebold & Zucc.	Fallopia japonica	
Mile-a-minute vine		Polygonum perfoliatum L.	Persicaria perfoliata	
Giant knotweed (P)		Polygonum sachalinense F. Schmidt ex. Maxim.	Fallopia sachalinense	
White poplar (P)		Populus alba L.	· ·	
Crispy-leaved pondweed		Potamogeton crispus L.	Curly pondweed or Curly-leaved pondweed	
Kudzu (P)	V	Pueraria montana (Lour.) Merr.	Pueraria lobata	
Fig buttercup	_	Ranunculus ficaria L.	Lesser celandine; Ficaria verna	\square
Common buckthorn	s	Rhamnus cathartica L.		
Black locust*	_	Robinia pseudoacacia L.		N//
Multiflora rose	S	Rosa multiflora Thunb.		
	S	Rosa rugosa Thunb.*	Reach Saltenray Jananese or Ramones Ress	N//
Rugosa rose* (P)			Beach, Salt spray, Japanese, or Ramanas Rose	1 11//
14/in - h - m -	s	*Note: This plant is especially aggressive in coasts	a areas	+
Wineberry	_	Rubus phoenicolasius Maxim.		
Sheep sorrel (P)		Rumex acetosella L.		
Giant salvinia^ (P)	A	Salvinia molesta Mitchell		
Tansy ragwort^ (P)		Senecio jacobaea L.	Stinking Willie	
Cup plant (P)	н	Silphium perfoliatum L.		
Bittersweet nightshade (P)	н	Solanum dulcamara L.	Climbing nightshade	
Water chestnut	A	Trapa natans L.		`
Coltsfoot	н	Tussilago farfara L.		
Garden heliotrope (P)	H	Valeriana officinalis L.	Garden Valerian	

97 species and counting...

What's so bad about invasive plants?

- They take the place of a native species, or a lot of native species
- Indirect ecological effects

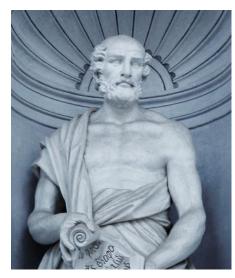
SCIENTIFIC AMERICAN_o

Barberry, Bambi and bugs: The link between Japanese barberry and Lyme disease

By Beth Jones on March 30, 2011

What's so bad about invasive plants?

- They take the place of a native species, or a lot of native species
- Indirect ecological effects
- Undermine symbiotic relationships that have co-evolved between native flora and fauna



"For every tree, there is a worm."

Theophrastus (circa 300 BC)

Creative Commons: Teofrasto Orto

THE CONNECTICUT Butterfly Atlas



~130 species in Connecticut

21 listed species 8 endangered 2 threatened 11 special concern

Edited by Jane E. O'Donnell • Lawrence F. Gall • David L. Wagner

American Snout

Libytheana carinenta (Cramer)

Status in Connecticut: Vagrant. SNA.

Habitats: Open areas, largely along the coast.

Hostplants: Hackberry (*Celtis occidentalis*)*, and occasionally Common Hops (*Humulus lupulus*)*.

Egg: Laid singly on young hostplant leaf. Duration: 3-5 days.

Caterpillar: Dark green dorsally, fading to yellow green ventrally. Fine yellow dorsal and lateral lines, and small yellow spots. Small, yellow-ringed black subdorsal spots on thorax and sometimes near posterior end. Solitary feeder on young terminal hostplant leaves. Up to 1 1/8" (28 mm) long. Duration: 10-15 days.

Chrysalis: Medium green to yellow green with small lighter spots and faint lateral line on abdomen. Prominent light diagonal line across head and thorax. Dorsal ridge on thorax. Up to 5/8" (16 mm) long. Duration: 8-12 days.

Adult: Wingspan up to 1 7/8" (48 mm). Wings above dark brown with orange medial patches; forewing with whitish postmedial patches. Forewing below similar; hindwing below mottled gray and brown with purple tint. Labial palps extended into long "snout."

Flight times: One or more generations possible, depending on when immigrants first arrive; records from late June to September.

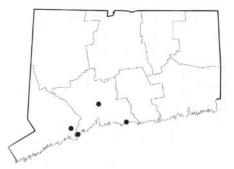
Overwintering stage: Does not survive Connecticut winters.

M

Comments: The American Snout is an infrequent vagrant in Connecticut, that seems to arrive most years in small numbers. The last major influx of this species into the State was in 1997. Even though Snouts were abundant in New York City and western Long Island in 2001, no individuals were reported in Connecticut that year.



Hamden, CT (Jeff Fengler)









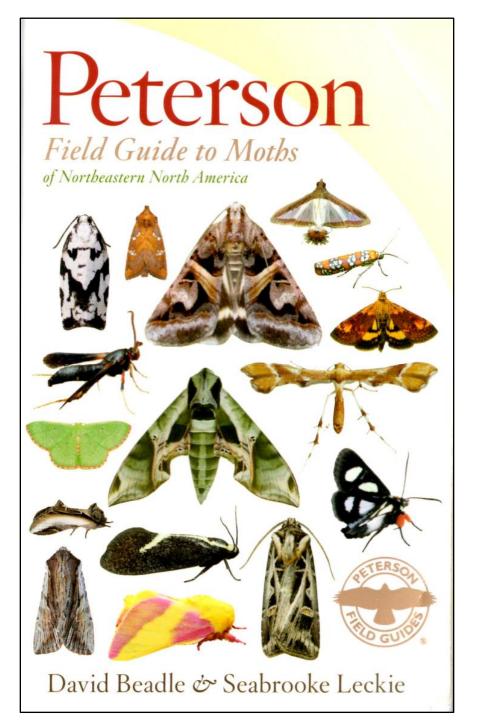
Stratford, CT (Carol Lemmon



..

PROJECT PRE-PROJECT F

M



~1,300 species in Connecticut

74 listed species:13 endangered21 threatened40 special concern



NORTHERN PINE SPHINX

Lapara bombycoides 7817 Common TL 27-35 mm. Slate gray FW is peppered with white scales. Three black dashes extend through median area; longest touches jagged ST line. Reniform spot is black. HOSTS: Pine and tamarack.

EYED SPHINX MOTHS Family Sphingidae, Subfamily Smerinthinae

Medium-sized to large sphinx moths with scalloped wings that are held elevated and slightly away from the body. In most species, HW has a blue-filled eyespot. All are nocturnal and will regularly visit lights in small numbers.



TWIN-SPOTTED SPHINX

Smerinthus jamaicensis 7821 Common TL 38-45 mm. Lilac gray FW has blackish median bar fused to angled AM line, creating a Y-shape. Whitish apex is accented with black semicircle. Rosy pink HW has black-edged blue eyespot divided by black line. Thorax has blackish dorsal patch. HOSTS: Deciduous trees, including apple, ash, elm, poplar, and birch.



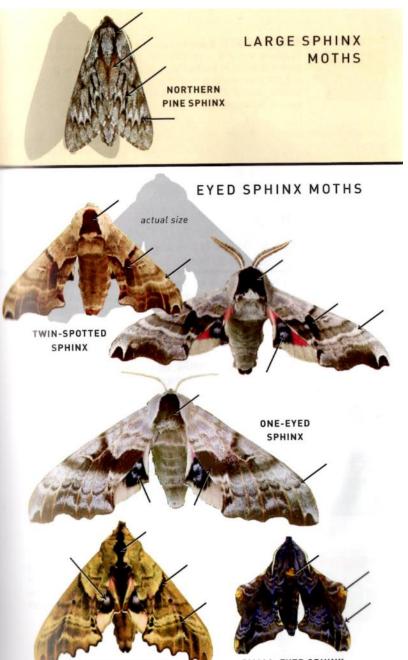
ONE-EYED SPHINX Smerinthus cerisyi 7822 Common TL 45–55 mm. Violet gray FW has blackish shading in inner median area and along outer margin. Pale pinkish veins extend through median area. Rosy pink HW has black-edged blue eyespot with a black spot in center. Thorax has black dorsal patch. **HOSTS:** Poplar and willow.



BLINDED SPHINX Paonias excaecata 7824 Common TL 35–50 mm. Light brown FW has darker brown and violet shading in median area and along scalloped outer margin. Thick black bar in inner median area connects to black AM line. Rosy pink HW has black-edged blue eyespot. HOSTS: Deciduous trees, including basswood, willow, birch, and poplar.



SMALL-EYED SPHINX Paonias myops 7825 Common TL 32-35 mm. Slate-colored FW has bold blackish lines and or ange spots. HW has yellow patch surrounding black-edged blue eyespot. Thorax has a flaming orange dorsal stripe. HOSTS Deciduous trees, including black cherry, serviceberry, and basswood.



BLINDED SPHINX

SMALL-EYED SPHINX

PRINCETON FIELD GUIDES

Caterpillars of Eastern North America

David L. Wagner







RECOGNITION Exceptionally variable in color but recognizable by its overall shape and the two or four patches of black deciduous spines at rear of body (in last two instars). Ground color pink, orange, red, yellow, green, or tan. Anterior end possessing three pairs of elongate, subdorsal lobes each bearing numerous stinging spines; posterior end with two pairs of elongated subdorsal lobes. Sides



with shallow depressions ringed with black or white situated between subdorsal and subspiracular lobes. Larva to 2cm. Stinging Rose Caterpillar (*Parasa indetermina*) has longer lobes, no detachable spine patches, and distinctive pinstriping over dorsum and sides. OCCURRENCE Barrens, woodlands, and forests from Missouri to southern Quebec and Maine south to Florida and Texas. A single generation over much of East with caterpillars from late June to October; two generations in Missouri and presumably more in Deep South. COMMON FOODPLANTS Apple, ash, basswood, beech, birch, blueberry, cherry, chestnut, hackberry, hickory, maple, oak, poplar, sycamore, willow, and many other woody plants.

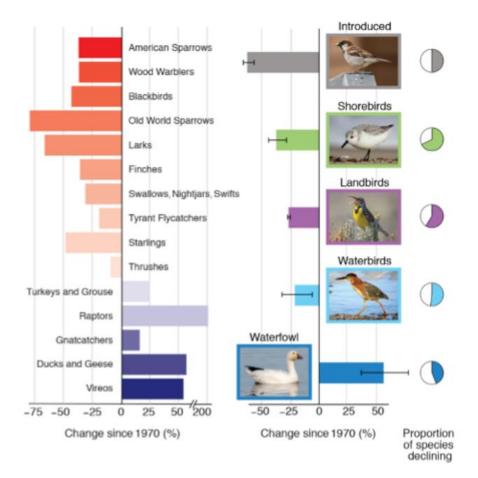
REMARKS Eggs are laid singly or in small clusters. Dyar (1896) regarded Spiny Oak Slug caterpillars to be somewhat secretive and noted that they sometimes hide between leaves by day. Although exceeding other slugs in number of spines, the sting is mild, considerably less severe than that of the Saddleback Caterpillar (*Acharia stimulea*). The dark spine clusters, which are added in the last two instars to the rear of the body, are curiously variable in their expression—they may be essentially absent, occur as a single pair, or, as is most often the case, be represented by two pairs of four dark gundrop-shaped patches. A tachinid fly has deposited two eggs (the white spots) on the larva in the lower right image.

SPINY OAK-SLUG Euclea delphinii

Decline of the North American avifauna

Kenneth V. Rosenberg^{1,2*}, Adriaan M. Dokter¹, Peter J. Blancher³, John R. Sauer⁴, Adam C. Smith⁵, Paul A. Smith³, Jessica C. Stanton⁶, Arvind Panjabi⁷, Laura Helft¹, Michael Parr², Peter P. Marra⁸†

"Integration of range-wide population trajectories and size estimates indicates a net loss approaching 3 billion birds, or 29% of 1970 abundance."



Science

Is there ever anything good about invasive plants?

- Provide habitat elements for other species
 - Structure/cover
 - Food
- "Ecological services" that benefit humans
 - Soil stabilization, especially on degraded sites
 - Aesthetically pleasing

Many were intentionally introduced for a reason

Japanese Barberry





- Popular landscaping shrub with spatulate leaves and very brittle spines
- Thick infestations provide nesting habitat for uncommon Hooded Warbler
- Intricately implicated with mice and deer in transmission dynamics of Lyme Disease





Oriental Bittersweet



- Vine that strangles trunks and pulls down limbs & trees
- Fruits/seeds dispersed by birds, especially in winter
- People make wreaths and other crafts with fruits





Burning Bush/Winged Euonymus



- Popular shrub introduced via nursery trade
- Stems and twigs are "winged"
- Dominates forest understories & many roadsides
- Fruit & seeds dispersed by birds

Multiflora Rose



- Introduced as an ornamental and as live fence
- Nasty re-curved spines on stems
- Thickets provide excellent cover for cottontail and other small animals especially in early successional (scrub-shrub) habitats, but not so much in forests

Autumn Olive

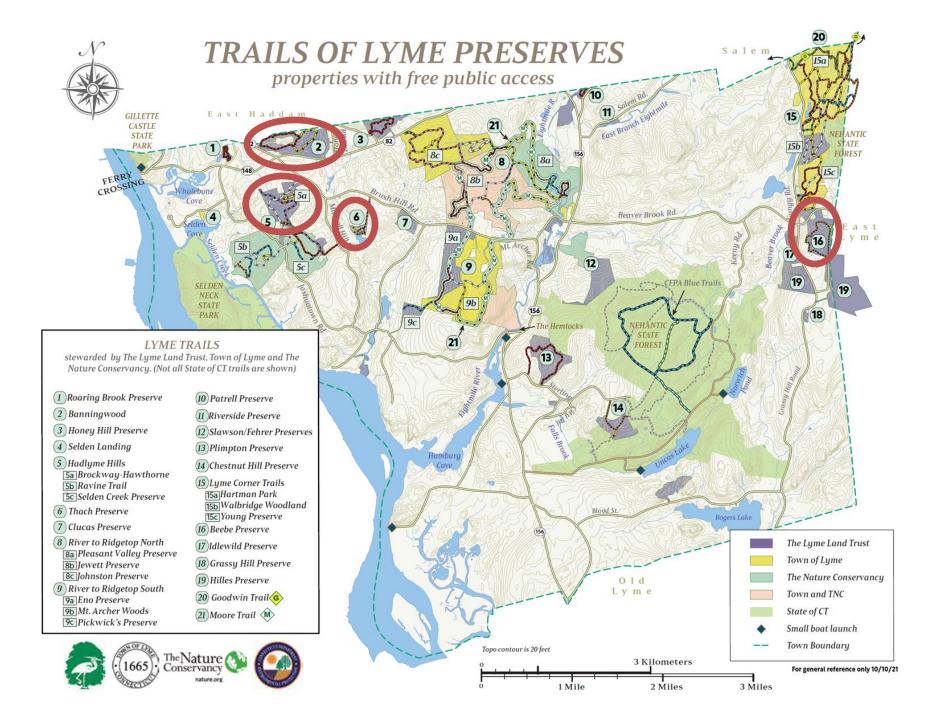


- Often planted by roadsides and other degraded sites to prevent erosion
- Berries are a superfood for birds

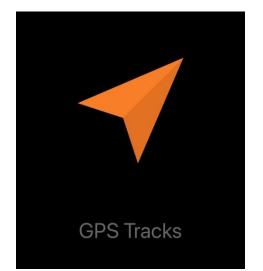
Japanese Stiltgrass

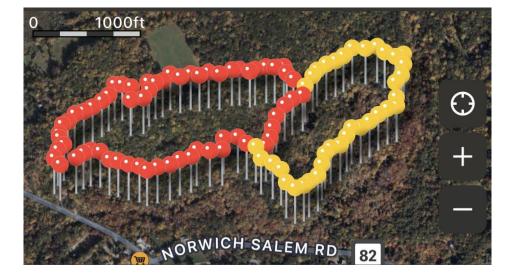


- Annual grass introduced by use for packing material
- Dominates forest floor
- Seeds, which can be viable for >7 years, are dispersed by water, soil, mountain bicyclists?

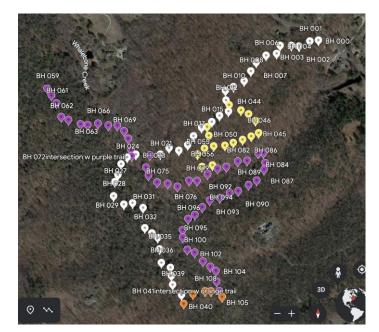


Data Collection





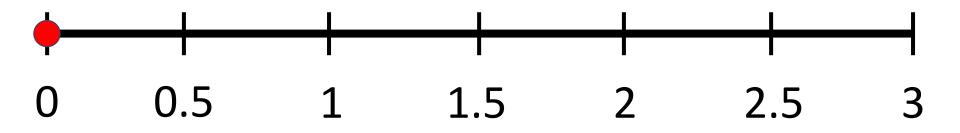
100 ft segments;
 10 yds off trail
 on each side





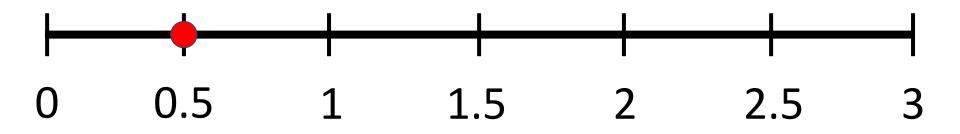
Ţ	Text
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9	Location
0	Photo

Invasive plant inte Add child form	
Form > Invasive plant intens	
H Date	~
Preserve?	~
Sampling Segment	~
Segment Start	~
Segment End	~
• Side of trail	~
Autumn Olive	~
Burning Bush	~
Japanese Barberry	~
Japanese Stiltgrass	~



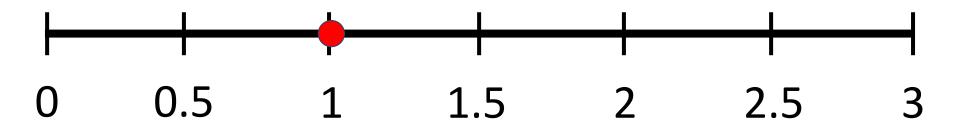
0: Species was not observed.





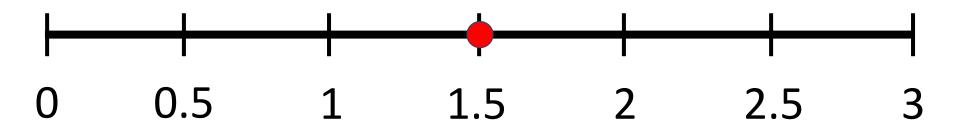
0.5: >5 individuals counted.



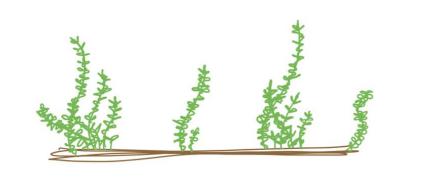


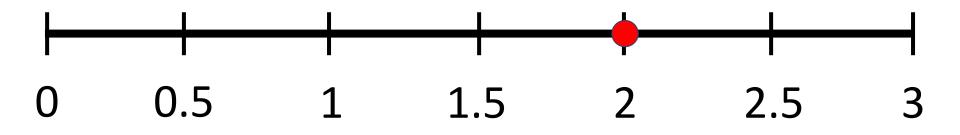
1: Species observed in small isolated clusters.



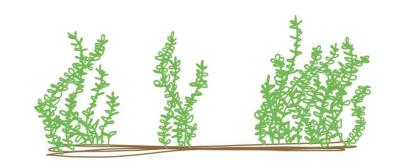


1.5: More frequent groups of species are observed.

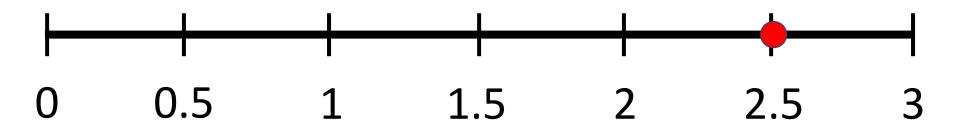




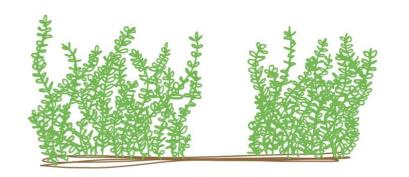
2: More than half of area is covered.



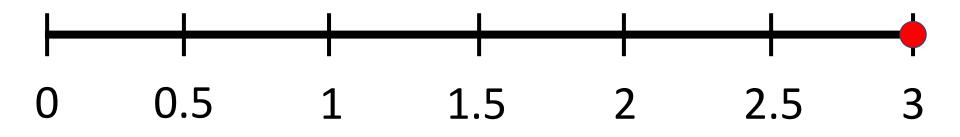
Shrub Intensity Scale



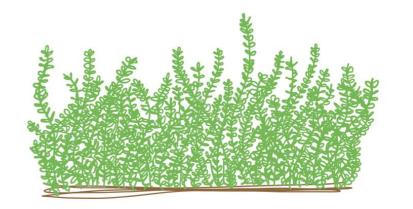
2.5: Species is dominant but not uniform in growth.



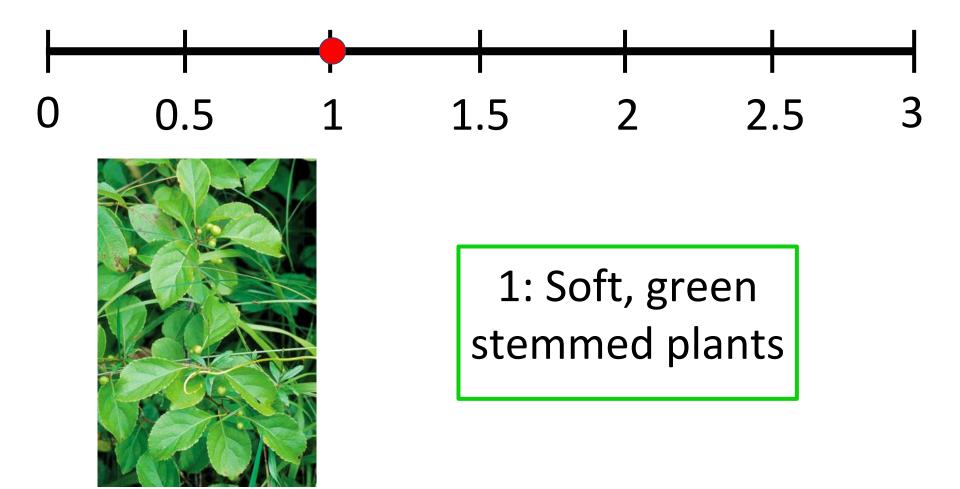
Shrub Intensity Scale



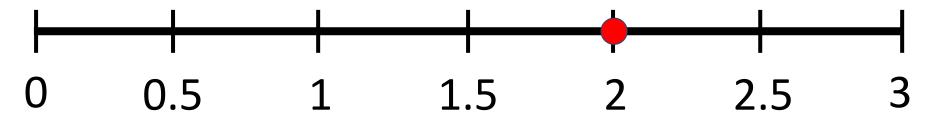
3: Species is dominant; no visible separation between plants.



Bittersweet Intensity Scale



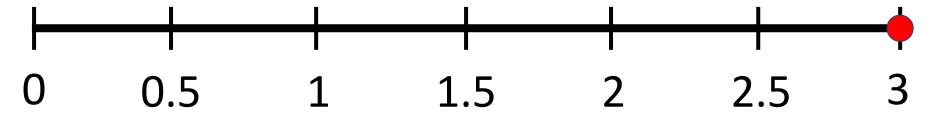
Bittersweet Intensity Scale





2: Vines wrapping around other plants; >1cm diameter

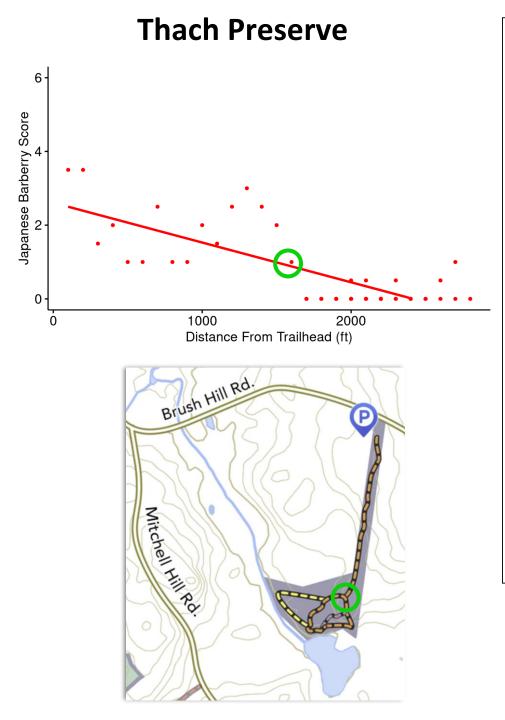
Bittersweet Intensity Scale

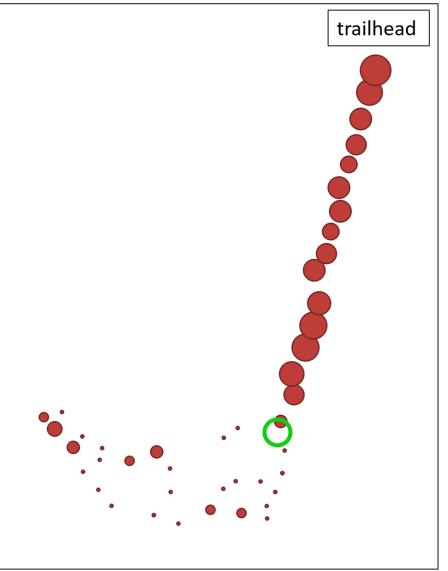


3: Thick, woody vines wrapped around tree trunks.

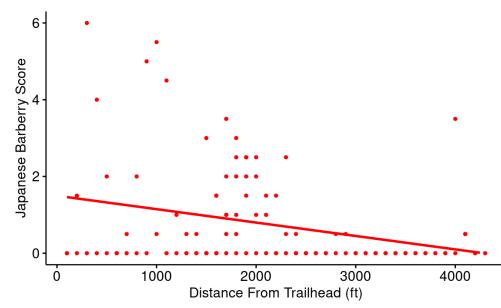








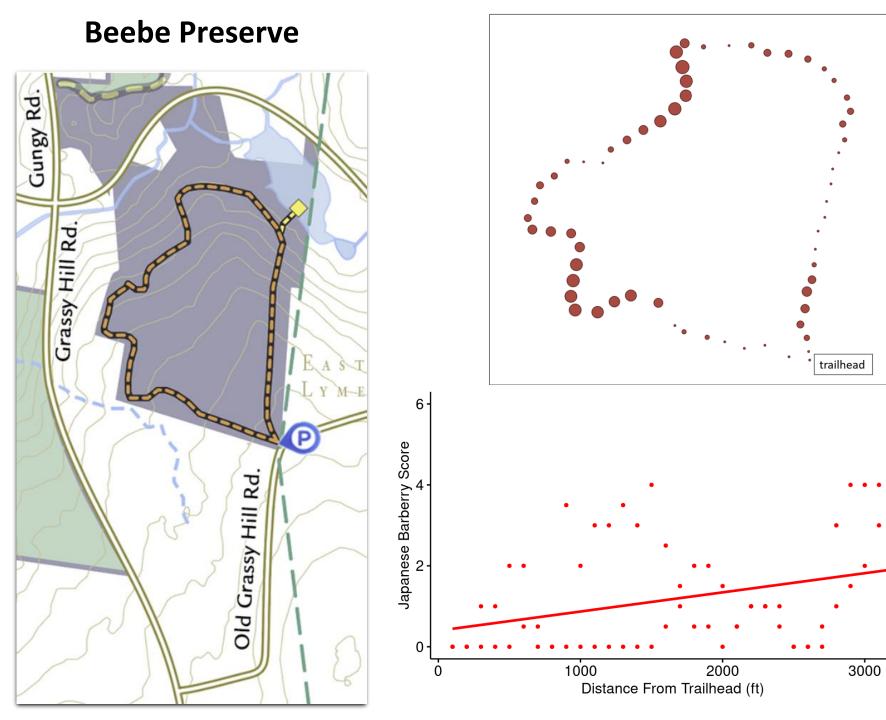
Brockway-Hawthorne Preserve

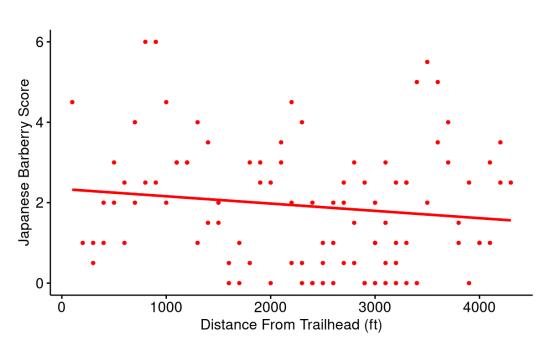








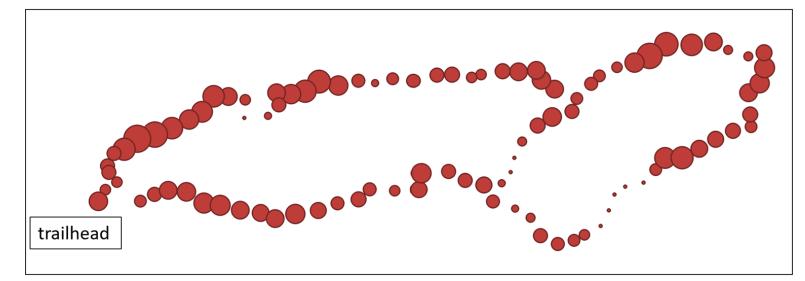








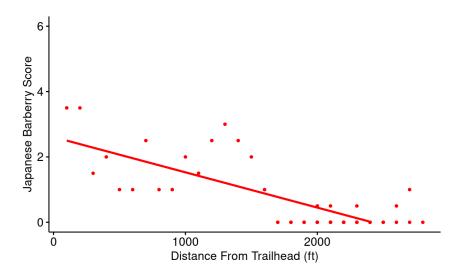
Banningwood Preserve

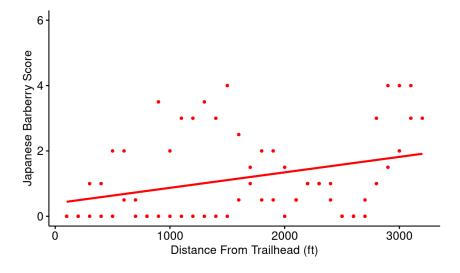




Thach

Beebe



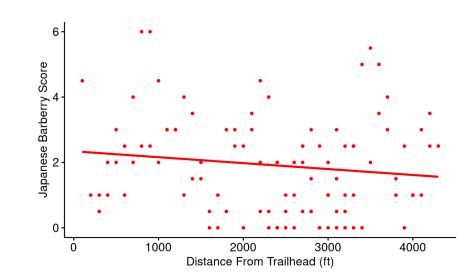


Brockway-Hawthorne

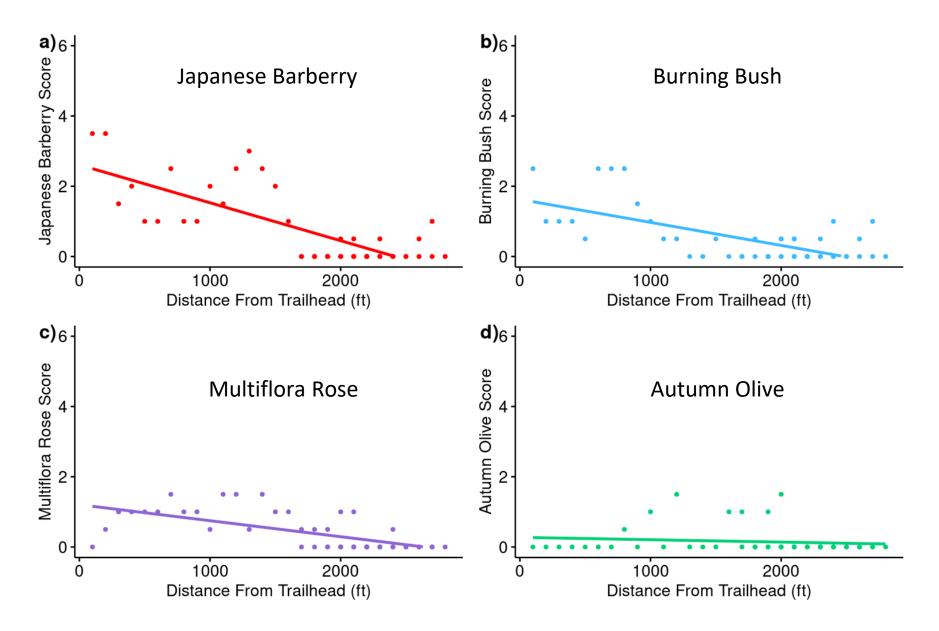
Distance From Trailhead (ft)

Japanese Barberry Score

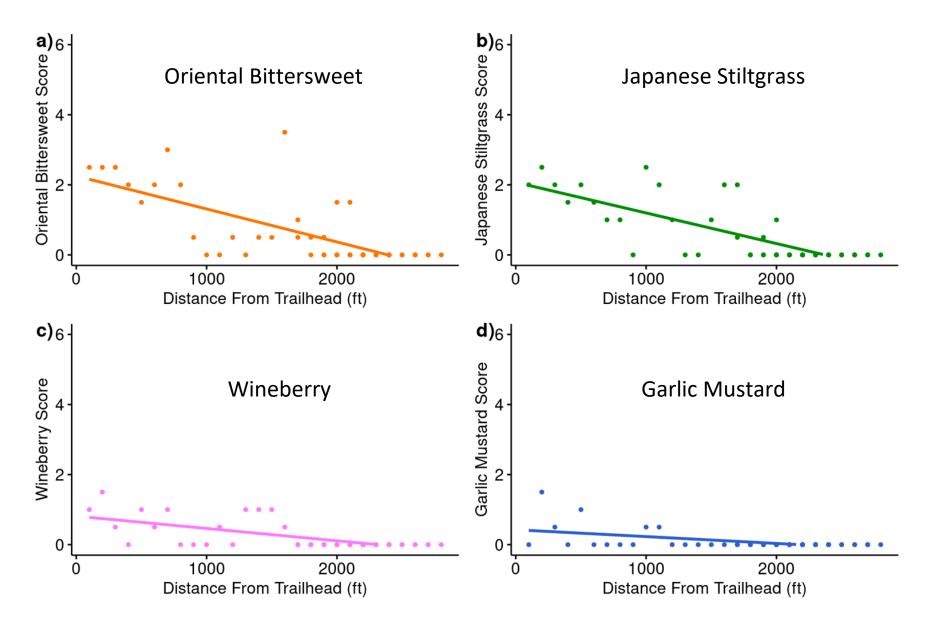




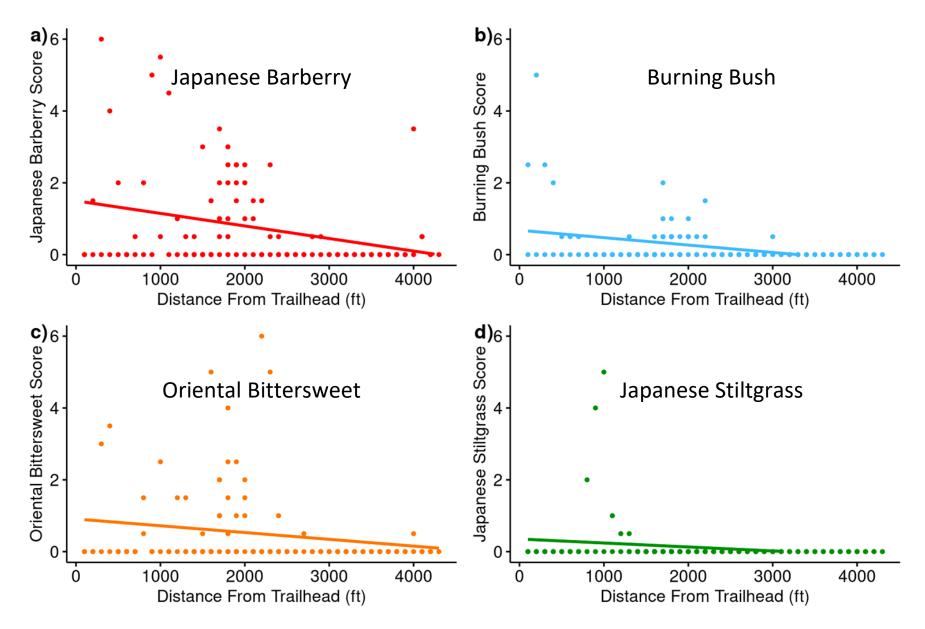
Thach Preserve (slide 1 of 2)



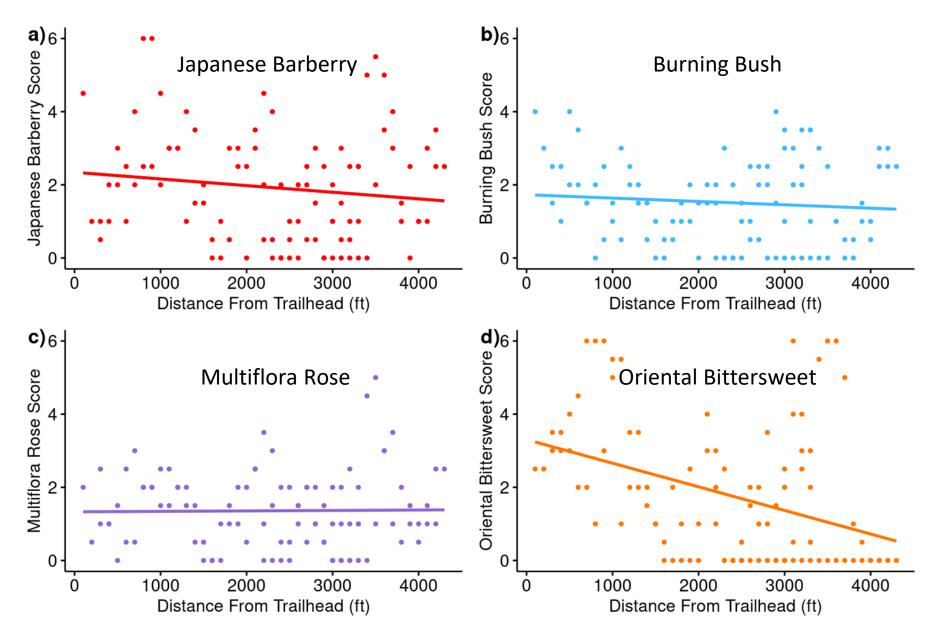
Thach Preserve (slide 2 of 2)



Brockway-Hawthorne Preserve



Banningwood Preserve



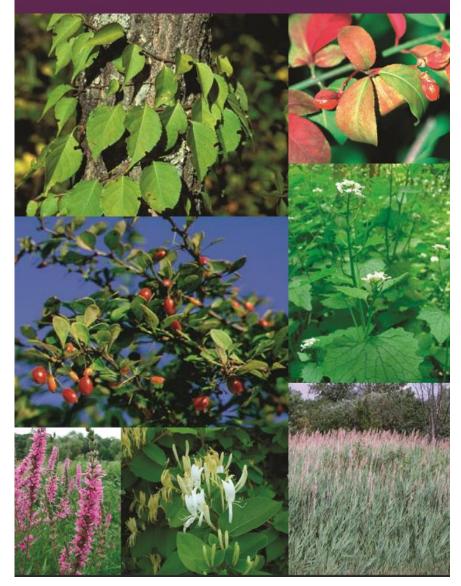
How to manage invasive plants?

- Mechanical: hands, tools, machines
- Chemical: herbicides
- Biological: invertebrates, goats!
- Tarp/cardboard covering
- Fire: landscape scale, weed torch

Many ways to fail and waste resources.

Every situation is different, and there is no silver bullet.

Invasive Plants In Your Backyard! A Guide to Their Identification and Control NEW EXPANDED EDITION



PORCELAINBERRY Ampelopsis brevipedunculata

Deciduous Vine Flowers: Mid-Summer Fruits: Late Summer to Fall

Porcelainberry is a vigorous climbing vine resembling native grape. It forms thick mats in tree crowns that can cover and shade out native vegetation. It spreads by prolific growth and seeds eaten by birds and other animals. It prefers moist, rich soils; invades streambanks, pond margins, forest edges and disturbed areas; and thrives in a wide range of light conditions.

IDENTIFICATION

- Woody branched tendril-bearing vine
- Alternate heart-shaped leaves have coarse teeth, and vary from slightly lobed to deeply-dissected
- Green to white, inconspicuous flowers develop in small clusters
- Speckled fruits are shades of pink, purple and blue, in loose clusters

MECHANICAL CONTROL

Hand pull vines in the fall or spring. Cut vines too large to pull out near the ground and cut regrowth as needed.

CHEMICAL CONTROL

For small infestations, cut vines to ground in late summer and treat with glyphosate concentrate. For dense thickets, cut stems to the ground, allow to re-sprout, then spot-spray with glyphosate.







Native Alternatives American Wisteria • Trumpet Honeysuckle • Virginia Creeper

Photos from bugwood.org: top/mid - L.J. Mehrhoff, University of Connecticut; bottom -S. Manning, Invasive Plant Control.

Timing is everything!

Connecticut Invasive Plant Management Calendar

Created by Emmett Varricchio and members of The Connecticut Invasive Plant Working Group

These species were the Top 10 species of concern as identified by attendees of the 2016 CIPWG Symposium

	January	February	March	April	May	June	July	August	September	October	November	December
lapanese Knotweed (Polygonum cuspidatum)												
Oriental Bittersweet (Celastrus orbiculatus)												
lapanese barberry (Berberis thunbergii)												
Multiflora Rose (Rosa multiflora)										. A vehicle		
Mugwort Artemisia vulgaris)												
Garlic Mustard (Alliaria petiolata)									100 A		Sector 1	
Autumn Olive Elaeagnus umbellate)		3										
Common Reed Phragmites australis)												
Mile-a-Minute Persicaria perfoliata)												
Swallow-wort Cynanchum ouiseae)				Station of Contract								



For more information:



Native Plant Trust GO BOTANY





About this Site

The CONNECTICUT INVASIVE PLANT WORKING GROUP (CIPWG) is a consortium of individuals, organizations, and agencies concerned with invasive plant issues.

Get Involved:

Join our Membership listserv



Emails about:

- events
- workshops
- volunteer opportunities

Frequency: About 2 per month

What can I do?

- Control invasive species on land you manage
- Volunteer with invasive species management at nature preserves and parks
- Plant/landscape with native species
- Don't be a vector for seeds, fruits or plant parts
- Educate yourself and others, including government employees
- Support land trusts and organizations that manage land

Thanks for your interest, attention and support!





Beebe Preserve

