Scientific name: Robinia hispida L. (var. fertilis & hispida) USDA Plants Code: ROHI Bristly locust, mossy locust, rose acacia Common names: Native distribution: Southeastern United States August 5, 2009; edited March 11, 2010 Date assessed: Assessors: Gerry Moore Reviewers: LIISMA SRC Form version date: 10 July 2009 Date Approved: 19 Aug 2009

New York Invasiveness Rank: Low (Relative Maximum Score 40.00-49.99)

Distribution and Invasiveness Rank (Obtain from PRISM invasiveness ranking form)				
			PRISM	
	Status of this species in each PRISM:	Current Distribution	Invasiveness Rank	
1	Adirondack Park Invasive Program	Not Assessed	Not Assessed	
2	Capital/Mohawk	Not Assessed	Not Assessed	
3	Catskill Regional Invasive Species Partnership	Not Assessed	Not Assessed	
4	Finger Lakes	Not Assessed	Not Assessed	
5	Long Island Invasive Species Management Area	Common	Low	
6	Lower Hudson	Not Assessed	Not Assessed	
7	Saint Lawrence/Eastern Lake Ontario	Not Assessed	Not Assessed	
8	Western New York	Not Assessed	Not Assessed	

Inv	asiveness Ranking Summary	Total (Total Answered*)	Total
(see	details under appropriate sub-section)	Possible	
1	Ecological impact	40 (<u>30</u>)	9
2	Biological characteristic and dispersal ability	25 (<u>22</u>)	12
3	Ecological amplitude and distribution	25 (<u>25</u>)	17
4	Difficulty of control	10 (<u>10</u>)	4
	Outcome score	100 (<u>87</u>) ^b	42 ^a
	Relative maximum score †		48.28
	New York Invasiveness Rank §	Low (Relative Maximum Score 40.00-49.99)	

^{*} For questions answered "unknown" do not include point value in "Total Answered Points Possible." If "Total Answered Points Possible" is less than 70.00 points, then the overall invasive rank should be listed as "Unknown." †Calculated as 100(a/b) to two decimal places.

§Very High >80.00; High 70.00–80.00; Moderate 50.00–69.99; Low 40.00–49.99; Insignificant <40.00 Not Assessable: not persistent in NY, or not found outside of cultivation.

A. DISTRIBUTION (KNOWN/POTENTIAL): Summarized from individual PRISM forms

	s this species been documented to persist without	Partnerships for Regional
cultivatio	n in NY? (reliable source; voucher not required)	Invasive Species Management
\boxtimes	Yes – continue to A1.2	2008
	No – continue to A2.1	SLELO
A1.2. In	which PRISMs is it known (see inset map)?	
	Adirondack Park Invasive Program	Capital
	Capital/Mohawk	Finger Lakes Mohawk
	Catskill Regional Invasive Species Partnership	Western NY CRISP
	Finger Lakes	CRIST
	Long Island Invasive Species Management Area	Lower
	Lower Hudson	Hudson
	Saint Lawrence/Eastern Lake Ontario	Liusma
	Western New York	Mark Market Comment of the Comment o

Documentation:

Sources of in		1.1 0 W 2000		
	otanic Garden, 2009; We		ist outside of cultivation, given	the climate
		com PRISM invasiveness rar		the emmate
Not Assessed	Adirondack Park In		6 - /	
Not Assessed	Capital/Mohawk	C		
Not Assessed	•	nvasive Species Partnersh	nip	
Not Assessed	Finger Lakes	_		
Very Likely	Long Island Invasi	ve Species Management A	Area	
Not Assessed	Lower Hudson			
Not Assessed	Saint Lawrence/Ea			
Not Assessed	Western New York	ζ		
Document				
		ntion models, literature, expe	ert opinions):	
-	otanic Garden, 2009; We	-	any of the DDISMs there	atan hana
			any of the PRISMs, then	siop nere
\boldsymbol{a}	s inere is no neea io	assess ine species. Kai	nk is "Not Assessable."	
A2.2. What ranking form		n of the species in each PRIS	SM? (obtain rank from PRISM i	nvasiveness
0.0	,		Distributio	on
Adirondacl	k Park Invasive Progra	m	Not Assess	ed
Capital/Mo	hawk		Not Assess	ed
	gional Invasive Specie	es Partnership	Not Assess	
Finger Lak			Not Assess	
-	d Invasive Species Ma	nagement Area	Common	
Lower Hud			Not Assess	
	ence/Eastern Lake On	tario	Not Assess	
Western No			Not Assess	ed
Document				
Sources of in	otanic Garden, 2009			
Diookiyii Do	hame Garden, 2009			
hab Aquatic Hab Aquatic Hab Salt/l Fresh River Natur Vern Reser	pitats not under active hu	man management. Managed Wetland Habitats Salt/brackish marsh Freshwater marshes Peatlands Shrub swamps Forested wetlands/ri Ditches* Beaches and/or coast	☐ Grasslands/old f ☐ Shrublands ☐ Forests/woodlar iparian ☐ Alpine ☐ Roadsides*	ields
D.	-4:			
Document Sources of in				
	otanic Garden, 2009; aut	hor's pers. obs.		

B. INVASIVENESS RANKING

Questions apply to areas similar in climate and habitats to New York unless specified otherwise.

1. ECOLOGICAL IMPACT

1.1. Im	pact on Natural Ecosystem Processes and System-Wide Parameters (e.g. fire	
_	, geomorphological changes (erosion, sedimentation rates), hydrologic regime,	
	t and mineral dynamics, light availability, salinity, pH)	
A.	No perceivable impact on ecosystem processes based on research studies, or the absence of impact information if a species is widespread (>10 occurrences in minimally managed areas), has been well-studied (>10 reports/publications), and has been present in the northeast for >100 years.	0
B.	Influences ecosystem processes to a minor degree (e.g., has a perceivable but mild influence on soil nutrient availability)	3
C.	Significant alteration of ecosystem processes (e.g., increases sedimentation rates along streams or coastlines, reduces open water that are important to waterfowl)	7
D.	Major, possibly irreversible, alteration or disruption of ecosystem processes (e.g., the species alters geomorphology and/or hydrology, affects fire frequency, alters soil pH, or fixes substantial levels of nitrogen in the soil making soil unlikely to support certain native plants or more likely to favor non-native species)	10
U.	Unknown Score	3
	Documentation:	3
	Identify ecosystem processes impacted (or if applicable, justify choosing answer A in the absence of impact information)	
	This species is often found on poor soils and fixes nitrogen. Specific studies on its effects on soil chemistry are lacking. Also the species is often found as single individuals or small stands, thus limiting the amount of nitrogen fixation in a given population. Sources of information:	
1.2 Im	Isley & Peabody, 1984; author's pers. obs. pact on Natural Community Structure	
A.	No perceived impact; establishes in an existing layer without influencing its structure	0
В.	Influences structure in one layer (e.g., changes the density of one layer)	3
C.	Significant impact in at least one layer (e.g., creation of a new layer or elimination of an existing layer)	7
D.	Major alteration of structure (e.g., covers canopy, eradicating most or all layers below)	10
U.	Unknown	
	Score	3
	Documentation:	
	Identify type of impact or alteration: The species usually establishes in the existing layer without influencing its structure or simply changes the density of the layer. Only in extremely nutrient poor soils (e.g., areas of	
	past sand mining operations, sandy field, dunes), will the species will sometimes create a new layer, as there previously were no woody shrubs present. Sources of information:	
	Author's pers. obs.	
1.3. Im	pact on Natural Community Composition	
A.	No perceived impact; causes no apparent change in native populations	0
B.	Influences community composition (e.g., reduces the number of individuals in one or more native species in the community)	3
C.	Significantly alters community composition (e.g., produces a significant reduction in the population size of one or more native species in the community)	7
D.	Causes major alteration in community composition (e.g., results in the extirpation of one or	10

several native species, reducing biodiversity or change the community composition towards species exotic to the natural community) Unknown U. Score 3 Documentation: Identify type of impact or alteration: Sometimes can alter community composition by reducing the number individuals of native Sources of information: Author's pers. obs. 1.4. Impact on other species or species groups (cumulative impact of this species on the animals, fungi, microbes, and other organisms in the community it invades. Examples include reduction in nesting/foraging sites; reduction in habitat connectivity; injurious components such as spines, thorns, burrs, toxins; suppresses soil/sediment microflora; interferes with native pollinators and/or pollination of a native species; hybridizes with a native species; hosts a non-native disease which impacts a native species) A. Negligible perceived impact 0 Minor impact 3 В. C. Moderate impact 7 Severe impact on other species or species groups D. 10 U. Unknown Score IJ Documentation: Identify type of impact or alteration: Studies on impacts to other species groups not known. The nitrogen fixing no doubt impacts soil chemistry and this in turn probably impacts soil microbes but specific impacts not known. Species reported to hybridize with R. viscosa and R. pseudoacacia(Isely & Peabody, 1984) but neither species is native to New York. Hybrids not known from New York. Sources of information: Isely & Peabody, 1984; author's pers. comm. **Total Possible** 30 Section One Total 9 2. BIOLOGICAL CHARACTERISTICS AND DISPERSAL ABILITY 2.1. Mode and rate of reproduction No reproduction by seeds or vegetative propagules (i.e. plant sterile with no sexual or 0 asexual reproduction). Limited reproduction (fewer than 10 viable seeds per plant AND no vegetative 1 В. reproduction; if viability is not known, then maximum seed production is less than 100 seeds per plant and no vegetative reproduction) Moderate reproduction (fewer than 100 viable seeds per plant - if viability is not known, 2 then maximum seed production is less than 1000 seeds per plant - OR limited successful vegetative spread documented) Abundant reproduction with vegetative asexual spread documented as one of the plants 4 prime reproductive means OR more than 100 viable seeds per plant (if viability is not known, then maximum seed production reported to be greater than 1000 seeds per plant.) Unknown U. Score 1 Documentation: Describe key reproductive characteristics (including seeds per plant):

Robinia hispida var. hispida is a sterile triploid (3n=30) that does not set seed (would warrant a score of 0); Robinia hispida var. fertilis is a diploid (2n=20) that does set seed (with up to 100s of seeds per plant) (would warrant a score of 2). I have observed both varieties in the area, but am unsure as to which is more abundant. According to Weldy & Werier (2009), the sterile variety is more widespread. Given the reproduction of both varieties the species has been scored a 1.

	area, but am unsure as to which is more abundant. According to Weldy & Werier (2009), the sterile variety is more widespread. Given the reproduction of both varieties the species has been scored a 1. Sources of information: Whitaker, 1934; Isely & Peabody, 1984; author's pers. obs.	
2.2 Inn	ate potential for long-distance dispersal (e.g. bird dispersal, sticks to animal hair,	
	fruits, pappus for wind-dispersal)	
A.	Does not occur (no long-distance dispersal mechanisms)	0
	Infrequent or inefficient long-distance dispersal (occurs occasionally despite lack of	
В.	adaptations)	1
C.	Moderate opportunities for long-distance dispersal (adaptations exist for long-distance dispersal, but studies report that 95% of seeds land within 100 meters of the parent plant)	2
D.	Numerous opportunities for long-distance dispersal (adaptations exist for long-distance dispersal and evidence that many seeds disperse greater than 100 meters from the parent plant)	4
U.	Unknown	
	Score	1
	Documentation: Identify dispersal mechanisms: No obvious adaptations for long distance dispersal. Its widespread nature in the state, especially given the fact it is not widely grown, suggests it must occasionally occur. Sources of information: Isely & Peabody, 1984; author's pers. obs.	
	ential to be spread by human activities (both directly and indirectly – possible	
highwa	isms include: commercial sales, use as forage/revegetation, spread along ys, transport on boats, contaminated compost, land and vegetation	
_	ement equipment such as mowers and excavators, etc.)	
A.	Does not occur	0
В.	Low (human dispersal to new areas occurs almost exclusively by direct means and is infrequent or inefficient)	1
C.	Moderate (human dispersal to new areas occurs by direct and indirect means to a moderate extent)	2
D.	High (opportunities for human dispersal to new areas by direct and indirect means are numerous, frequent, and successful)	3
U.	Unknown	
	Score	1
	Documentation: Identify dispersal mechanisms: Reported to be cultivated in the Northeast. In the past, it was used in reclaimation planting projects due to its ability to grow on disturbed, nutrient poor soils.	

Isely & Peabody, 1984.

2.4. Characteristics that increase competitive advantage, such as shade tolerance, ability to grow on infertile soils, perennial habit, fast growth, nitrogen fixation, allelopathy, etc.

Sources of information:

1000	, out	
A.	Possesses no characteristics that increase competitive advantage	0
B.	Possesses one characteristic that increases competitive advantage	3
C.	Possesses two or more characteristics that increase competitive advantage	6
U.	Unknown	

		S	Score	6
		Documentation: Evidence of competitive ability: Perennial, ability to grow on poor soils, nitrogen fixation. Sources of information: Isely & Peabody, 1984; author's pers. obs.		
2.5.	Gro	owth vigor		
	A.	Does not form thickets or have a climbing or smothering growth habit		0
	B. U.	Has climbing or smothering growth habit, forms a dense layer above shorter vegetation, forms dense thickets, or forms a dense floating mat in aquatic systems where it smother other vegetation or organisms Unknown		2
	0.		Score	0
		Documentation:		
		Describe growth form: Although it forms stands through root suckering, not noted to form thickets or have a climbing or smothering growth habit. Sources of information: Isely & Peabody, 1984; author's pers. obs.		
2.6.	Ger	mination/Regeneration		
	A.	Requires open soil or water and disturbance for seed germination, or regeneration from vegetative propagules.		0
	B.	Can germinate/regenerate in vegetated areas but in a narrow range or in special condition	ons	2
	C.	Can germinate/regenerate in existing vegetation in a wide range of conditions		3
	U.	Unknown (No studies have been completed)		
		S	Score	U
2.7	Oth	Documentation: Describe germination requirements: Studies on germination in the field not known. Seeds of Robinia pseudo-acacia can be difficult to germinate due to the seed's extremely hard coat. R. hispida seeds also have a hard coat. Sources of information: Wisconsin DNR, 2004.	L	
		er species in the genus invasive in New York or elsewhere No		0
	A. B.	Yes		0
	ь. U.	Unknown		3
	υ.		Score	3
		Documentation:		3
		Species: Robinia pseudoacacia is ranked as a "High" invasive by SRC		
		Total Pos	sible	22
		Section Two		12
		Section 1 wo	· Otti	14

3. ECOLOGICAL AMPLITUDE AND DISTRIBUTION

3.1. Density of stands in natural areas in the northeastern USA and eastern Canada (use same definition as Gleason & Cronquist which is: "The part of the United States covered extends from the Atlantic Ocean west to the western boundaries of Minnesota, Iowa, northern Missouri, and southern Illinois, south to the southern boundaries of Virginia, Kentucky, and Illinois, and south to the Missouri River in

New York NON-NATIVE PLANT INVASIVENESS RANKING FORM

Missouri. In Canada the area covered includes Nova Scotia, Prince Edward Island, New Brunswick, and parts of Quebec and Ontario lying south of the 47th parallel of latitude") A. No large stands (no areas greater than 1/4 acre or 1000 square meters) 0 Large dense stands present in areas with numerous invasive species already present or 2 В. disturbed landscapes Large dense stands present in areas with few other invasive species present (i.e. ability to invade relatively pristine natural areas) Unknown U. Score 0 Documentation: Identify reason for selection, or evidence of weedy history: Stands over 0.25 acre not known by Brooklyn Botanic Garden staff Sources of information: Authors' pers comm. and obs. 3.2. Number of habitats the species may invade Not known to invade any natural habitats given at A2.3 A. 0 Known to occur in one natural habitat given at A2.3 B. 1 Known to occur in two natural habitats given at A2.3 2 C. Known to occur in three natural habitat given at A2.3 D. 4 Known to occur in four or more natural habitats given at A2.3 E. 6 Unknown U. Score 6 Documentation: Identify type of habitats where it occurs and degree/type of impacts: Sources of information: Brooklyn Botanic Garden, 2009; authors pers. obs. 3.3. Role of disturbance in establishment Requires anthropogenic disturbances to establish. 0 A. May occasionally establish in undisturbed areas but can readily establish in areas with B. 2 natural or anthropogenic disturbances. C. Can establish independent of any known natural or anthropogenic disturbances. 4 Unknown U. Score Documentation: Identify type of disturbance: Readily establishes in disturbed areas; not known to require anthropogenic disturbance. Sources of information: Isely & Peabody, 1984. 3.4. Climate in native range Native range does not include climates similar to New York A. 0 Native range possibly includes climates similar to at least part of New York. В. 1 C. Native range includes climates similar to those in New York 3 Unknown IJ Score 1 Documentation:

Describe what part of the native range is similar in climate to New York:

Southeastern United States to Virginia and Tennesee.

Sources of information:

	Isely & Peabody, 1984.	
	rrent introduced distribution in the northeastern USA and eastern Canada (see	
-	n 3.1 for definition of geographic scope)	0
A.	Not known from the northeastern US and adjacent Canada Present as a non-native in one portheastern US A state and/or costern Canadian province	0
В.	Present as a non-native in one northeastern USA state and/or eastern Canadian province. Present as a non-native in 2 or 3 northeastern USA states and/or eastern Canadian	1
C.	provinces.	2
D.	Present as a non-native in 4–8 northeastern USA states and/or eastern Canadian provinces, and/or categorized as a problem weed (e.g., "Noxious" or "Invasive") in 1 northeastern state or eastern Canadian province.	3
E.	Present as a non-native in >8 northeastern USA states and/or eastern Canadian provinces. and/or categorized as a problem weed (e.g., "Noxious" or "Invasive") in 2 northeastern states or eastern Canadian provinces.	4
U.	Unknown	
	Score	4
	Documentation: Identify states and provinces invaded: All northeastern states and Ontario and Nova Scotia. Sources of information: See known introduced range in plants.usda.gov, and update with information from states and Canadian provinces. U.S.D.A., 2009.	
2.6 Cm	want introduced distribution of the species in notural areas in the eight New	
	rrent introduced distribution of the species in natural areas in the eight New rate PRISMs (Partnerships for Regional Invasive Species Management)	
A.	Present in none of the PRISMs	0
В.	Present in 1 PRISM	1
C.	Present in 2 PRISMs	2
D.	Present in 3 PRISMs	3
E.	Present in more than 3 PRISMs or on the Federal noxious weed lists	4
U.	Unknown	
	Score	4
	Documentation:	
	Describe distribution: See A1.1.	
	Sources of information:	
	Brooklyn Botanic Garden, 2009; Weldy & Werier, 2009.	
	Total Possible	25
	Section Three Total	17
	FFICULTY OF CONTROL	
	ed banks	^
A.	Seeds (or vegetative propagules) remain viable in soil for less than 1 year, or does not make viable seeds or persistent propagules.	0
B.	Seeds (or vegetative propagales) remain viable in soil for at least 1 to 10 years	2
C.	Seeds (or vegetative propagules) remain viable in soil for more than 10 years	3
U.	Unknown	-
	Score	2
	Documentation:	

	Identify longevity of seed bank: Other Robinia reported to remain viable for over one year; no evidence for longer than ten years. Given the hard coat in this species, that might be possible. Sources of information: Hill Riis Lambers et al. 2005.	
4.2. V	egetative regeneration	
Α.		0
В.	Regrowth from ground-level meristems	1
C.	Regrowth from extensive underground system	2
D.	•	3
U.		3
0.	Score	2
	Documentation:	
	Describe vegetative response:	
	Large underground root systems can be present in large colonies.	
	Sources of information:	
	Isely & Peabody, 1984; author's pers. obs.	
	evel of effort required	
A.	disturbance.	0
В.	Management is relatively easy and inexpensive: e.g. 10 or fewer person-hours of manual effort (pulling, cutting and/or digging) can eradicate a 1 acre infestation in 1 year (infestation averages 50% cover or 1 plant/100 ft ²).	2
C.	Management requires a major short-term investment: e.g. 100 or fewer person-hours/year of manual effort, or up to 10 person-hours/year using mechanical equipment (chain saws, mowers, etc.) for 2-5 years to suppress a 1 acre infestation. Eradication is difficult, but possible (infestation as above).	3
D.	Management requires a major investment: e.g. more than 100 person-hours/year of manual effort, or more than 10 person hours/year using mechanical equipment, or the use of herbicide, grazing animals, fire, etc. for more than 5 years to suppress a 1 acre infestation. Eradication may be impossible (infestation as above).	4
U.		
	Score	0
	Documentation: Identify types of control methods and time-term required: Management protocols are not known. Given the small stands noted in the state, management is not currently required. Sources of information: Author's pers comm and obs	
	Author's pers comm and obs. Total Possible	10
	Section Four Total	4
	Section Pour Total	4
	Total for 4 sections Possible	87
	Total for 4 sections	42

C. STATUS OF CULTIVARS AND HYBRIDS:

At the present time (May 2008) there is no protocol or criteria for assessing the invasiveness of cultivars independent of the species to which they belong. Such a protocol is needed, and individuals with the appropriate expertise should address this issue in the future. Such a protocol will likely require data on cultivar fertility and identification in both experimental and natural settings.

Hybrids (crosses between different parent species) should be assessed individually and separately from the parent species wherever taxonomically possible, since their invasiveness may differ from that of the parent species. An exception should be made if the taxonomy of the species and hybrids are uncertain, and species and hybrids can not be clearly distinguished in the field. In such cases it is not feasible to distinguish species and hybrids, and they can only be assessed as a single unit.

Some cultivars of the species known to be available:

References for species assessment:

Brooklyn Botanic Garden. 2009. AILANTHUS database. [Accessed on August 5, 2009].

Hill Riis Lambers, J., J. S. Clark, and M. Levine. 2005. Implications of seed banking for recruitment of southern. Appalachian woody plant species. Ecology 86: 85-95.

Isely, D. and F. J. Peabody. 1984. Robinia (Leguminosae: Paplionoidea). Castanea 49(4): 187-202.

United States Department of Agriculture, National Resources Conservation Service. 2009. The PLANTS Database. National Plant Data Center, Baton Rouge, Louisiana [Accessed on August 5, 2009].

Weldy, T. & D. Werier. 2009. New York Flora Atlas. [S. M. Landry and K. N. Campbell (original application development), Florida Center for Community Design and Research. University of South Florida]. New York Flora Association, Albany, New York. [Accessed on August 5, 2009].

Whitaker, T. W. 1934. A karyo-systematic study of Robinia. Journal of the Arnold Arboretum 15: 353-357.

Wisconsin Department of Natural Resources [DNR]. 2004. Black locust (Robinia pseudoacacia). <dnr.state.wi.us/invasives/fact/black_locust.htm>. [Accessed August 5, 2009.]

Citation: This NY ranking form may be cited as: Jordan, M.J., G. Moore and T.W. Weldy. 2008. Invasiveness ranking system for non-native plants of New York. Unpublished. The Nature Conservancy, Cold Spring Harbor, NY; Brooklyn Botanic Garden, Brooklyn, NY; The Nature Conservancy, Albany, NY. Note that the order of authorship is alphabetical; all three authors contributed substantially to the development of this protocol.

Acknowledgments: The NY form incorporates components and approaches used in several other systems, cited in the references below. Valuable contributions by members of the Long Island Invasive Species Management Area's Scientific Review Committee were incorporated in revisions of this form. Original members of the LIISMA SRC included representatives of the Brooklyn Botanic Garden; The Nature Conservancy; New York Natural Heritage Program, New York Sea Grant; New York State Office of Parks, Recreation and Historic Preservation; National Park Service; Brookhaven National Laboratory; New York State Department of Environmental Conservation Region 1; Cornell Cooperative Extension of Suffolk/Nassau Counties; Long Island Nursery and Landscape Association; Long Island Farm Bureau; SUNY Farmingdale Ornamental Horticulture Department; Queens College Biology Department; Long Island Botanical Society; Long Island Weed Information Management System database manager; Suffolk County Department of Parks, Recreation and Conservation; Nassau County Department of Parks, Recreation and Museums; Suffolk County Soil & Water Conservation District.

References for ranking form:

Carlson, Matthew L., Irina V. Lapina, Michael Shephard, Jeffery S. Conn, Roseann Densmore, Page Spencer, Jeff Heys, Julie Riley, Jamie Nielsen. 2008. Invasiveness ranking system for non-native plants of Alaska.

- Technical Paper R10-TPXX, USDA Forest Service, Alaska Region, Anchorage, AK XX9. Alaska Weed Ranking Project may be viewed at: http://akweeds.uaa.alaska.edu/akweeds_ranking_page.htm.
- Heffernan, K.E., P.P. Coulling, J.F. Townsend, and C.J. Hutto. 2001. Ranking Invasive Exotic Plant Species in Virginia. Natural Heritage Technical Report 01-13. Virginia Dept. of Conservation and Recreation, Division of Natural Heritage, Richmond, Virginia. 27 pp. plus appendices (total 149 p.).
- Morse, L.E., J.M. Randall, N. Benton, R. Hiebert, and S. Lu. 2004. An Invasive Species Assessment Protocol: Evaluating Non-Native Plants for Their Impact on Biodiversity. Version 1. NatureServe, Arlington, Virginia. http://www.natureserve.org/getData/plantData.jsp
- Randall, J.M., L.E. Morse, N. Benton, R. Hiebert, S. Lu, and T. Killeffer. 2008. The Invasive Species Assessment Protocol: A Tool for Creating Regional and National Lists of Invasive Nonnative Plants that Negatively Impact Biodiversity. Invasive Plant Science and Management 1:36–49
- Warner, Peter J., Carla C. Bossard, Matthew L. Brooks, Joseph M. DiTomaso, John A. Hall, Ann M.Howald, Douglas W. Johnson, John M. Randall, Cynthia L. Roye, Maria M. Ryan, and Alison E. Stanton. 2003. Criteria for Categorizing Invasive Non-Native Plants that Threaten Wildlands. Available online at www.caleppc.org and www.swvma.org. California Exotic Pest Plant Council and Southwest Vegetation Management Association. 24 pp.
- Williams, P. A., and M. Newfield. 2002. A weed risk assessment system for new conservation weeds in New Zealand. Science for Conservation 209. New Zealand Department of Conservation. 1-23 pp.