Species Dataform	and Scoresheet	for Hedera	helix L (	English ivv)
Species Dutatorin	und beoreblieet	101 main	nena L	Linghish ivy)

Species Dataform and Scoresheet for Hedera helix		
Dataform and Sco	oresheet	
Hedang helin I. (English inv.)		
Hedera helix L (English ivy) Native range: Europe		
Date evaluated: March 25, 2009		
Date evaluated. March 23, 2009	Angwan Chainag	Dognongo
Introductory Questions	Answer Choices	Response
Introductory Questions	Y/N	N
1. Current federal and state regulations		N
Comments: Appears on several invasive species lis		
including Georgia (Important), South Carolina (Wa		
Kentucky (Significant threat), Virginia (Medium in		
species suspected to be invasive) and the USFS For	•	•
Monitoring for Invasive Plants (Invasive.org 2009)		
Washington (Washington State Noxious Weed Cor	,	Class B noxious
weed in Oregon (Oregon Dept. of Agriculture, Plan		V
2. Occurrence in the horticultural trade	Y/N	Y
Comments: Popular ornamental vine with hundreds		
3. North Carolina nativity	Y/N	N
Comments: Native to Europe (Weakley 2008).	<b>X7/X</b>	<b>T</b> 7
4. Presence in natural areas	Y/N	Y
Comments: Persistent, established, and spreading a		
woodlands in the Coastal Plain, Piedmont, and Mo		
2008). Populations exists in many natural areas through the second secon	-	-
Invades disturbed and undisturbed forests (Swearin	Ť literatura de la constante de	
5. Non-invasive cultivars	Y/N	N
Comments: Hundreds of cultivars exist that vary gr	eatly in habit, leaf size	ze, lobing, and
marbling (Weakley 2008).		
	Maximum Point	Number of Points
	Value	Assigned
Section 1. Ecological Impact		
1a. Impact on abiotic ecosystem processes	10	0
Comments: Unknown impact on abiotic ecosystem	Ê	
<b>1b. Impact on plant community structure</b>	20	15
Comments: Suppresses the growth of native herbs		
killing overstory and understory trees as well as sm		
floor and may suppress the growth of native herbs	• •	-
trees for light (Clarke et al. 2006). Additional weig	ht of vines may incre	ase storm damage
to trees (Clarke et al. 2006).	1	
1c. Impact on species of special concern	5	0
Comments: Unknown impact on species of special	concern.	
1d. Impact on higher trophic levels	5	0
Comments: Unknown impact on higher trophic lev	els.	
Section 1. Subrank	40	15

Section 2. Current Distribution and Potential		
for Expansion		
2a. Local range expansion	7	1
Comments: Persistent, established, and spreading a		
woodlands in the Coastal Plain, Piedmont, and Mo	untains of North Caro	olina (Weakley
2008).		
2b. Long-distance dispersal potential	13	13
Comments: Dispersed long distances and to new an	eas by birds that cons	sume the fruits
(Swearingen and Diedrich 2006).		1
2c. Reproductive characteristics	8	8
Comments: Propagates readily from cuttings of you		
sprout from leaf nodes and allow spread and climb		
vegetatively and new plants can become establishe	d from cut or broken	stems (Swearingen
and Diedrich 2006). Dispersed long distances and t	o new areas by birds	that consume the
fruits (Swearingen and Diedrich 2006).		1
2d. Range of communities	6	4
Comments: Grows well in moist, successional deci		
2003). Natural communities of North Carolina (Sha	afale and Weakley 19	990) = Low
elevation mesic forests, river floodplains.		
2e. Similar habitats invaded elsewhere	6	4
Comments: Invades woodlands, forest edges, coast	al areas, salt marsh e	dges (Swearingen
and Diedrich 2006). Occurs in coastland, estuarine	habitats, natural fore	sts, riparian zones,
and wetlands (ISSG 2005). Natural communities of		fale and Weakley
1990) = Communities of the coastal zone and estua	rine systems.	
Section 2. Subrank	40	30
Section 3. Management Difficulty		
3a. Herbicidal control	5	0
Comments: Glyphosate and triclopyr are effective	herbicides to treat En	glish ivy (Remaley
2003).		I
<b>3b. Nonchemical control methods</b>	2	1
Comments: Very small populations may be cut bac	_	-
biological controls are available (Swearingen and I		<b>•</b> •
effective for small infestations but must be maintai	ned for at least two g	rowing seasons
	0	
(Swearingen and Diedrich 2006).	-	-
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b>	2	2
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut ste	2 ms or through a folia	2 r spray to control
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut ste large populations (Remaley 2003). The most effect	2 ms or through a foliative management approximation	2 r spray to control roach involves a
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut ste large populations (Remaley 2003). The most effect combination of cutting followed by herbicide appli	2 ms or through a foliative management approximation	2 r spray to control roach involves a
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut ste large populations (Remaley 2003). The most effect combination of cutting followed by herbicide appli <b>3d. Average distribution</b>	2 ms or through a folia ive management appr cation (Swearingen a 2	2 r spray to control roach involves a nd Diedrich 2006). 1
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut ste large populations (Remaley 2003). The most effect combination of cutting followed by herbicide appli <b>3d. Average distribution</b> Comments: Vines may be growing on trees or distribution	2 ms or through a folia ive management appr cation (Swearingen a 2	2 r spray to control roach involves a nd Diedrich 2006). 1
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut stellarge populations (Remaley 2003). The most effect combination of cutting followed by herbicide applied <b>3d. Average distribution</b> Comments: Vines may be growing on trees or distriction (Swearingen and Diedrich 2006).	2 ms or through a folia ive management appr cation (Swearingen a 2 ibuted as a dense gro	2 r spray to control roach involves a nd Diedrich 2006). 1 und cover
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut stellarge populations (Remaley 2003). The most effect combination of cutting followed by herbicide applied <b>3d. Average distribution</b> Comments: Vines may be growing on trees or distribution (Swearingen and Diedrich 2006). <b>3e. Likelihood for reestablishment</b>	2 ms or through a foliative management approximation (Swearingen a 2 ibuted as a dense gro	2 r spray to control roach involves a nd Diedrich 2006). 1 und cover 2
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut ste large populations (Remaley 2003). The most effect combination of cutting followed by herbicide appli <b>3d. Average distribution</b> Comments: Vines may be growing on trees or distri (Swearingen and Diedrich 2006). <b>3e. Likelihood for reestablishment</b> Comments: Vines must be cut back often, and seven	2 ms or through a folia ive management appr cation (Swearingen a 2 ibuted as a dense gro 2 red vines will continu	2 r spray to control roach involves a nd Diedrich 2006). 1 und cover 2 ue to resprout until
(Swearingen and Diedrich 2006). <b>3c. Necessity of individual treatments</b> Comments: Herbicides should be applied to cut stellarge populations (Remaley 2003). The most effect combination of cutting followed by herbicide applied <b>3d. Average distribution</b> Comments: Vines may be growing on trees or distribution (Swearingen and Diedrich 2006). <b>3e. Likelihood for reestablishment</b>	2 ms or through a folia ive management appr cation (Swearingen a 2 ibuted as a dense gro 2 red vines will continu y part of the root system	2 r spray to control roach involves a nd Diedrich 2006). 1 und cover 2 ue to resprout until

3f. Accessibility of invaded areas	2	1			
Comments: Dispersed long distances and to new are	eas by birds that cons	sume the fruits			
(Swearingen and Diedrich 2006).	,				
<b>3g. Impact on native species and environment</b>	5	2			
Comments: The nonselective herbicides glyphosate	and triclopyr may ki	ill non-target			
partially sprayed species (Remaley 2003).		C			
Section 3. Subrank	20	9			
Section 4. Benefits and Value					
4a. Estimated wholesale value	-7	-3			
Comments: The annual estimated wholesale value a	attributed to this spec	ties is \$7,957,800			
(Trueblood 2009).					
4b. Percentage of total sales	-5	-2			
Comments: Among the producers that sell this spec					
attributed to this species from any one grower is estimated to be 6-10% (Trueblood 2009).					
4d. Ecosystem services	-1	0			
Comments:					
4e. Wildlife habitat	-1	0			
Comments:					
4f. Cultural and social benefits	-1	0			
Comments:					
Section 4. Subrank	-15	-5			
Overall Score	100	49			
Overall Recommendation: Moderately weedy and	recommended for u	se with specific			
guidance – These species have less than high ecolog	gical impact, distribu	tion and invasive			
potential, and management difficulty in relation to e	economic value. The	se plants should not			
be grown in close proximity to natural areas that ha					
this plant has been found to naturalize or near natur	al areas that have ser	nsitive or			
threatened plants and/or natural communities. (Over	rall Score: 34 – 66)				
Summary: Hedera helix (English ivy) is moderatel					
recommended for horticultural use with specific guidance by the North Carolina Nursery					
and Landscape Association. The ecological impacts of <i>H. helix</i> are largely unknown, but					
dense infestations of this species may suppress the growth of native herbs and woody					
seedlings. There is great potential for the additional invasion of English ivy to natural areas					
due to the high potential for natural dispersal. The difficulty of managing <i>H. helix</i> is					
moderate considering the availability of control methods, but management may be costly					
•					
moderate considering the availability of control met considering the time and labor required to effective <i>helix</i> is economically valuable to the nursery indust	ly treat stands of this	•			

## **References:**

The Bugwood Network, USDA Forest Service, and USDA APHIS PPQ. (2009) Invasive Plants of the Thirteen Southern States. (http://www.invasive.org/south/seweeds.cfm) Accessed March 24, 2009.

Clark, M.M., Reichard S.H., and C.W. Hamilton. (2006) Prevalence of different horticultural taxa of ivy (*Hedera* spp., Araliaceae) in invading populations. Biological Invasions 8:149-157.

Gilman, E.F. (1999) *Hedera helix*. Fact Sheet FPS-239. Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. (http://hort.ufl.edu/shrubs/HEDHELA.PDF) Accessed March 25, 2009.

Invasive Species Specialist Group (ISSG) Global Invasive Species Database. (2005) (http://www.issg.org/database/species/ecology.asp?si=469) Accessed March 25, 2009.

Oregon Dept. of Agriculture, Plant Division. (http://www.oregon.gov/ODA/PLANT/WEEDS/statelist2.shtml#B\_list) Accessed March 25, 2009.

Remaley, T. (2003) Southeast Exotic Pest Plant Council Invasive Plant Manual. (http://www.invasive.org/eastern/eppc/) Accessed March 25, 2009.

Shafale, M.P. and A.S. Weakley. (1990) Classification of the Natural Communities of North Carolina. 3rd Approximation. North Carolina Natural Heritage Program. Raleigh, NC.

Swearingen, J.M. and S. Diedrich. (2006) Fact Sheet: English Ivy. Plant Conservation Alliance's Alien Plant Working Group (http://www.nps.gov/plants/alien) Accessed March 25, 2009.

Thomas, L.K. Jr. (1980) The Impact of Three Exotic Plant Species on a Potomac Island. National Park Service Scientific Monograph Series. Number Thirteen.

Trueblood, C.E. (2009) Chapter 3. An estimate of the commercial value of potentially invasive ornamental nursery crops grown in North Carolina. In An Invasive Species Assessment System for the North Carolina Horticultural Industry, a thesis submitted to the Graduate Faculty of North Carolina State University. North Carolina State University, Raleigh, NC.

Washington State Noxious Weed Control Board. 2007. Washington state noxious weed list. (http://www.nwcb.wa.gov/weed\_list/weed\_list.htm) Accessed March 25, 2009.

Weakley, A.S. "Flora of the Carolinas, Virginia, Georgia, northern Florida, and surrounding areas." University of North Carolina. Working draft. 7 April 2008.

Trueblood, C.E. 2009. Results of the North Carolina Invasive Species Assessment System and Individual Species Evaluations. In An Invasive Species Assessment System for the North Carolina Horticultural Industry. MS Thesis. North Carolina State University, Raleigh, pp. 118-122.