

Species Dataform and Scoresheet for *Styrax japonicus* Siebold and Zucc. (Japanese snowbell)

Species Dataform and Scoresheet		
<i>Styrax japonicus</i> Siebold and Zucc. (Japanese snowbell)		
Native range: China, Japan, Korea		
Date evaluated: March 12, 2009		
	Answer Choices	Response
Introductory Questions		
1. Current federal and state regulations	Y/N	N
Comments:		
2. Occurrence in the horticultural trade	Y/N	Y
Comments: Grown for horticultural use (Gilman and Watson 1994).		
3. North Carolina nativity	Y/N	N
Comments: Native to China, Japan, and Korea (Brand 2001).		
4. Presence in natural areas	Y/N	N
Comments: Not known to widely escape cultivation (Seiler et al. 2008). Tree has little, if any, invasive potential (Gilman and Watson 1994).		
5. Non-invasive cultivars	Y/N	Y
Comments: Assessment indicates that evergreen azaleas are noninvasive in North Carolina.		
	Maximum Point Value	Number of Points Assigned
Section 1. Ecological Impact		
1a. Impact on abiotic ecosystem processes	10	0
Comments: No known impact on abiotic ecosystem processes.		
1b. Impact on plant community structure	20	0
Comments: No known impact on plant community structure.		
1c. Impact on species of special concern	5	0
Comments: No known impact on species of special concern or threatened or endangered plants.		
1d. Impact on higher trophic levels	5	0
Comments: No known impact on higher trophic levels.		
Section 1. Subrank	40	0
Section 2. Current Distribution and Potential for Expansion		
2a. Local range expansion	7	0
Comments:		
2b. Long-distance dispersal potential	13	0
Comments: Fruit does not attract wildlife (Gilman and Watson 1994)		
2c. Reproductive characteristics	8	2
Comments: Produces dry rounded drupes (Brand 2001). Propagated by softwood cuttings and seed (Brand 2001). Seeds exhibit a double dormancy but will eventually germinate (Gilman and Watson 1994). Low probability of reseeding in natural areas.		
2d. Range of communities	6	0

Comments: Potential planting range extends throughout North Carolina (Gilman and Watson 1994)		
2e. Similar habitats invaded elsewhere	6	0
Comments:		
Section 2. Subrank	40	2
Section 3. Management Difficulty		
3a. Herbicidal control	5	0
Comments:		
3b. Nonchemical control methods	2	0
Comments:		
3c. Necessity of individual treatments	2	2
Comments: Small tree, 20 - 30 feet in height, (Gilman and Watson 1994) would require individual treatments		
3d. Average distribution	2	0
Comments:		
3e. Likelihood for reestablishment	2	0
Comments:		
3f. Accessibility of invaded areas	2	0
Comments:		
3g. Impact on native species and environment	5	0
Comments:		
Section 3. Subrank	20	2
Section 4. Benefits and Value		
4a. Estimated wholesale value	-7	0
Comments: Unknown estimated wholesale value.		
4b. Percentage of total sales	-5	0
Comments: Unknown percentage of total sales.		
4d. Ecosystem services	-1	0
Comments:		
4e. Wildlife habitat	-1	0
Comments:		
4f. Cultural and social benefits	-1	0
Comments:		
Section 4. Subrank	-15	0
Overall Score		
	100	4
Overall Recommendation: Noninvasive and recommended for use – These species have limited ecological impact, distribution and invasive potential, and management difficulty in relation to economic value. They may be locally problematic but their reproductive biology and other traits limit their rate of invasion to natural areas. (Overall Score: 0 – 33)		
Summary: <i>Styrax japonicus</i> (Japanese snowbell) is noninvasive in North Carolina and may be recommended for horticultural use by the North Carolina Nursery and Landscape		

Association. These species are not known to invade natural areas in North Carolina. These species have little to no negative ecosystem impacts, low potential for long-distance dispersal, and may be easily removed from the landscape. The economic value to the North Carolina nursery industry is unknown.

References:

Brand, M.H. (2001) University of Connecticut Plant Database. *Styrax japonicus* (Japanese snowball) (<http://www.hort.uconn.edu/Plants/s/styjap/styjap1.html>) Accessed: March 12, 2009.

Gilman, E.F. and D.G. Watson. (1994) *Styrax japonicus* (Japanese snowbell) Fact Sheet ST-605. Environmental Horticulture Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. (<http://hort.ufl.edu/trees/STYJAPA.pdf>) Accessed: March 12, 2009.

Seiler, J.R., Jensen, E.C., and J.A. Peterson. (2008) Virginia Tech Tree ID. *Styrax japonicus* (Japanese snowball) Virginia Tech Forestry Department. (<http://www.cnr.vt.edu/DENDRO/dendrology/syllabus/factsheet.cfm?ID=322>) Accessed: March 12, 2009.

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