Family: Rosaceae

Taxon: Rhaphiolepis umbellata

407 Causes allergies or is otherwise toxic to humans

Creates a fire hazard in natural ecosystems

Climbing or smothering growth habit

Print Date: 7/11/2012

Is a shade tolerant plant at some stage of its life cycle

Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)

408

409

Synonym: Laurus umbellata Thunb, (basionym0 Common Name: Japanese hawthorn

Rhaphiolepis japonica Seibold & Zucc. yedda hawthorn

Ques Statu	tionaire : ıs:	current 20090513 Assessor Approved	Assessor: Data Entry Perso	Patti Clifford n: Patti Clifford	Designation: L WRA Score 0	
101 1	Is the species h	nighly domesticated?			y=-3, n=0	n
102 1	Has the specie	s become naturalized where g	grown?		y=1, n=-1	
103 1	Does the speci	es have weedy races?			y=1, n=-1	
		to tropical or subtropical clir t tropical'' for ''tropical or su		arily wet habitat, then	(0-low; 1-intermediate; 2-high) (See Appendix 2)	Low
202	Quality of clin	nate match data			(0-low; 1-intermediate; 2-high) (See Appendix 2)	Intermediate
203 1	Broad climate	suitability (environmental ve	ersatility)		y=1, n=0	n
204	Native or natu	ralized in regions with tropic	al or subtropical climate	s	y=1, n=0	n
205 1	Does the speci	es have a history of repeated	introductions outside its	natural range?	y=-2, ?=-1, n=0	n
301 I	Naturalized be	eyond native range			y = 1*multiplier (see Appendix 2), n= question 205	n
302	Garden/ameni	ty/disturbance weed			n=0, y = 1*multiplier (see Appendix 2)	y
303 A	Agricultural/fo	orestry/horticultural weed			n=0, y = 2*multiplier (see Appendix 2)	n
304 1	Environmenta	l weed			n=0, y = 2*multiplier (see Appendix 2)	n
305 (Congeneric we	eed			n=0, y = 1*multiplier (see Appendix 2)	n
101 I	Produces spin	es, thorns or burrs			y=1, n=0	n
102 A	Allelopathic				y=1, n=0	
103 1	Parasitic				y=1, n=0	n
104 T	Unpalatable to	grazing animals			y=1, n=-1	n
105	Toxic to anima	als			y=1, n=0	n
106 1	Host for recog	nized pests and pathogens			y=1, n=0	

n

y

n

y=1, n=0

y=1, n=0

y=1, n=0

y=1, n=0

y=1, n=0

412	Forms dense thickets	y=1, n=0	
501	Aquatic	y=5, n=0	n
502	Grass	y=1, n=0	n
503	Nitrogen fixing woody plant	y=1, n=0	n
504	Geophyte (herbaceous with underground storage organs bulbs, corms, or	tubers) y=1, n=0	n
601	Evidence of substantial reproductive failure in native habitat	y=1, n=0	n
602	Produces viable seed	y=1, n=-1	y
603	Hybridizes naturally	y=1, n=-1	
604	Self-compatible or apomictic	y=1, n=-1	
605	Requires specialist pollinators	y=-1, n=0	n
606	Reproduction by vegetative fragmentation	y=1, n=-1	n
607	Minimum generative time (years)	1 year = 1, 2 or 3 years = 0, 4+ years = -1	
701	Propagules likely to be dispersed unintentionally (plants growing in heavily areas)	trafficked y=1, n=-1	n
702	Propagules dispersed intentionally by people	y=1, n=-1	y
703	Propagules likely to disperse as a produce contaminant	y=1, n=-1	n
704	Propagules adapted to wind dispersal	y=1, n=-1	n
705	Propagules water dispersed	y=1, n=-1	
706	Propagules bird dispersed	y=1, n=-1	y
707	Propagules dispersed by other animals (externally)	y=1, n=-1	n
708	Propagules survive passage through the gut	y=1, n=-1	y
801	Prolific seed production (>1000/m2)	y=1, n=-1	
802	Evidence that a persistent propagule bank is formed (>1 yr)	y=1, n=-1	
803	Well controlled by herbicides	y=-1, n=1	
804	Tolerates, or benefits from, mutilation, cultivation, or fire	y=1, n=-1	
805	Effective natural enemies present locally (e.g. introduced biocontrol agents	y=-1, n=1	
	Desig	gnation: L WRA Score 0	

uppor	ting Data:	
101	2011. WRA Specialist. Personal Communication.	[Is the species highly domesticated? No] No evidence of domestication that reduces invasive characteristics.
102	2011. WRA Specialist. Personal Communication.	[Has the species become naturalized where grown?] NA
103	2011. WRA Specialist. Personal Communication.	[Does the species have weedy races?] NA
201	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgibin/npgs/html/index.pl	[Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical?(0) Low] "Native range: Asia-temperate: China -Zhejiang; Japan -Honshu, Kyushu, Ryukyu Islands, Shikoku; South Korea-
202	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgibin/npgs/html/index.pl	[Quality of climate match data? (1) Intermediate] "Native range: Asia-temperate: China -Zhejiang; Japan -Honshu, Kyushu, Ryukyu Islands, Shikoku; South Korea-
203	2011. Dave's Garden. Plant Files: Indian hawthorn, yedda hawthorne, yeddo hawthorn, Rhaphiolepis umbellata. http://davesgarden.com/guides/pf/go/57861/	[Broad climate suitability (environmental versatility)? No] USDA zones: 7a-11.
203	2011. Floridata. Rhaphiolepis umbellata. http://www.floridata.com/ref/r/rhap_umb.cfm	[Broad climate suitability (environmental versatility)? No] USDA Zones: 8-11.
204	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgibin/npgs/html/index.pl	[Native or naturalized in regions with tropical or subtropical climates? No] "Native range: Asia-temperate: China -Zhejiang; Japan -Honshu, Kyushu, Ryukyu Islands, Shikoku; South Korea-
205	2011. WRA Specialist. Personal Communication.	[Does the species have a history of repeated introductions outside its natural range? No] No evidence of repeated introductions.
301	2011. WRA Specialist. Personal Communication.	[Naturalized beyond native range? No] No evidence.
302	2010. Waitakere City Council. Invasive or Environmental Weeds of Waitakere. http://www.waitakere.govt.nz/CnlSer/pw/plantwee d/pdf/weedlist-env-inv.pdf	[Garden/amenity/disturbance weed? Yes]Rhaphiolepis umbellata is considered an environmental weed in Waitakere, New Zealand. However no mention of impact or control.
303	2007. Randall, R.P Global Compendium of Weeds - Index. http://www.hear.org/gcw/	[Agricultural/forestry/horticultural weed? No] No evidence of impact and control in agricultural situations.
304	2010. Waitakere City Council. Invasive or Environmental Weeds of Waitakere. http://www.waitakere.govt.nz/CnlSer/pw/plantwee d/pdf/weedlist-env-inv.pdf	[Environmental weed? No] Rhaphiolepis umbellata is considered an environmental weed in Waitakere, New Zealand. [scored 3.02. no mention of impact or control]
305	2007. Randall, R.P Global Compendium of Weeds - Index. http://www.hear.org/gcw/	[Congeneric weed? No] No evidence of a congeneric weed.
401	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Produces spines, thorns or burrs? No] "Shrubs or small trees, 2–4 m tall. Branchlets blackish brown, terete, initially brown pubescent, glabrescent. Stipules not seen; petiole 5–10 mm, subglabrous; leaf blade greenish abaxially, dark green adaxially, narrowly elliptic, ovate, or obovate (2–)4–10 × (1.2–)2–4 cm, thickly leathery, reticulate veins conspicuous abaxially, adaxially slightly lustrous, base cuneate, margin entire or remotely crenate, slightly revolute, apex obtuse to slightly acute."
402	2011. WRA Specialist. Personal Communication.	[Allelopathic?] Unknown.
403	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Parasitic? No]. Rosaceae.
404	2002. Dirr, M Dirr's trees and shrubs for warm climates: an illustrated encyclopedia. Timber Press, Portland, OR	[Unpalatable to grazing animals? No] Rhaphiolepis umbellata suffers from deer browsing. It is occasionally referred to as deer candy.

405	2011. National Center for Biotechnology Information. PubMed. U.S. National Library of Medicine, Bethesda, Maryland http://www.ncbi.nlm.nih.gov/	[Toxic to animals? No] No evidence of toxicity.
405	2011. Specialized Information Services, U.S. National Library of Medicine. TOXNET toxicology data network [online database]. National Institutes of Health, http://toxnet.nlm.nih.gov/	[Toxic to animals? No] No evidence of toxicity.
406	2011. WRA Specialist. Personal Communication.	[Host for recognized pests and pathogens?] Unknown.
407	2011. National Center for Biotechnology Information. PubMed. U.S. National Library of Medicine, Bethesda, Maryland http://www.ncbi.nlm.nih.gov/	[Causes allergies or is otherwise toxic to humans? No] No evidence.
407	2011. Specialized Information Services, U.S. National Library of Medicine. TOXNET toxicology data network [online database]. National Institutes of Health, http://toxnet.nlm.nih.gov/	[Causes allergies or is otherwise toxic to humans? No] No evidence.
408	2011. WRA Specialist. Personal Communication.	[Creates a fire hazard in natural ecosystems?] Unknown.
409	2011. Floridata. Rhaphiolepis umbellata. http://www.floridata.com/ref/r/rhap_umb.cfm	[Is a shade tolerant plant at some stage of its life cycle?] Sun to part shade.
409	2011. Plants For A Future Database. Rhaphiolepis umbellata. http://www.faf.org/user/Plant.aspx?LatinName=Rhaphiolepis%20umbellata	[Is a shade tolerant plant at some stage of its life cycle?] Prefers sunny edge, dappled shade.
410	2011. Plants For A Future Database. Rhaphiolepis umbellata. http://www.faf.org/user/Plant.aspx?LatinName=Rhaphiolepis%20umbellata	[Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)? Yes] The plant prefers light (sandy), medium (loamy) and heavy (clay) soils and requires well-drained soil. The plant prefers acid, neutral and basic (alkaline) soils.
411	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Climbing or smothering growth habit? No] Shrubs or small trees, 2–4 m tall.
412	2011. Plants For A Future Database. Rhaphiolepis umbellata. http://www.faf.org/user/Plant.aspx?LatinName=Rhaphiolepis%20umbellata	[Forms dense thickets?] [possibly] Habitat: thickets near the seashore. Can be used as an informal hedge.
412	2011. WRA Specialist. Personal Communication.	[Forms dense thickets?] Unknown.
501	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Aquatic? No] Terrestrial; shrub.
502	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Grass? No] Rosaceae.
503	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgibin/npgs/html/index.pl	[Nitrogen fixing woody plant? No] Rhaphiolepis (Rosaceae)
504	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)? No] Shrub.
601	2011. WRA Specialist. Personal Communication.	[Evidence of substantial reproductive failure in native habitat? No] No evidence.
602	2011. Floridata. Rhaphiolepis umbellata. http://www.floridata.com/ref/r/rhap_umb.cfm	[Produces viable seed? Yes] Propagate by seed and cuttings.
603	2011. WRA Specialist. Personal Communication.	[Hybridizes naturally?] Unknown
604	2011. WRA Specialist. Personal Communication.	[Self-compatible or apomictic?] Unknown
605	2011. Plants For A Future Database. Rhaphiolepis umbellata. http://www.faf.org/user/Plant.aspx?LatinName=Rhaphiolepis%20umbellata	[Requires specialist pollinators? No] The flowers are hermaphrodite (have both male and female organs) and are pollinated by Insects.

606	2011. WRA Specialist. Personal Communication.	[Reproduction by vegetative fragmentation? No] Propagate by seed and cuttings.
607	2011. Plants For A Future Database. Rhaphiolepis umbellata. http://www.faf.org/user/Plant.aspx?LatinName=Rh aphiolepis%20umbellata	[Minimum generative time (years)?] Slow-growing.
607	2011. WRA Specialist. Personal Communication.	[Minimum generative time (years)?] Unknown.
701	2011. WRA Specialist. Personal Communication.	[Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)? No] No evidence of dispersal through human activities and no adaptations for unintentional dispersal.
702	2011. Dave's Garden. Plant Files: Indian hawthorn, yedda hawthorne, yeddo hawthorn, Rhaphiolepis umbellata. http://davesgarden.com/guides/pf/go/57861/	[Propagules dispersed intentionally by people? Yes] Seven members of the Dave's Garden online plant exchange have or want Rhaphiolepis umbellata.
703	2011. WRA Specialist. Personal Communication.	[Propagules likely to disperse as a produce contaminant? No] No evidence of produce contamination.
704	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Propagules adapted to wind dispersal? No] "Pome blackish purple, globose, 7–10 mm in diam., glaucescent; fruiting pedicel 2–5 mm, glabrous."
705	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Propagules water dispersed?] Unknown.
706	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Propagules bird dispersed? Yes] "Pome blackish purple, globose, 7–10 mm in diam., glaucescent; fruiting pedicel 2–5 mm, glabrous."
707	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Propagules dispersed by other animals (externally)? No] "Pome blackish purple, globose, 7–10 mm in diam., glaucescent; fruiting pedicel 2–5 mm, glabrous." [no adaptation for external attachment]
708	2009. Cuizhi, G./Spongberb, S.A Flora of China Vol. 9 Rhaphiolepis umbellata. www.efloras.org,	[Propagules survive passage through the gut? Yes] "Pome blackish purple, globose, 7–10 mm in diam., glaucescent; fruiting pedicel 2–5 mm, glabrous."
801	2011. WRA Specialist. Personal Communication.	[Prolific seed production (>1000/m2)?] Unknown.
802	2011. WRA Specialist. Personal Communication.	[Evidence that a persistent propagule bank is formed (>1 yr)?] Unknown.
803	2011. WRA Specialist. Personal Communication.	[Well controlled by herbicides?] Unknown.
804	2011. WRA Specialist. Personal Communication.	[Tolerates, or benefits from, mutilation, cultivation, or fire?] Unknown.
805	2011. WRA Specialist. Personal Communication.	[Effective natural enemies present locally (e.g. introduced biocontrol agents)?] Unknown.