Family: Araliaceae

Print Date: 3/2/2011

Taxon: Polyscias cumingiana

Synonym: Aralia filicifolia C. Moore ex E. Fourn. Common Name: fern-leaf aralia

Arthrophyllum pinnatum (Lam.) C. B. Clarke

Nothopanax pinnatus (Lam.) Miq.

Panax pinnatus Lam.

Paratropia cumingiana C. Presl (basionym) Polyscias filicifolia (C. Moore ex E. Fourn.) 1

Polyscias rumphiana Harms

Que Stat	estionaire : tus:	current 20090513 Assessor Approved	Assessor: Data Entry Pers	Patti Clifford son: Patti Clifford	Designation: E WRA Score 3	VALUATE
101	Is the species hig	ghly domesticated?			y=-3, n=0	n
102	Has the species l	become naturalized where gr	own?		y=1, n=-1	
103	Does the species	have weedy races?			y=1, n=-1	
201		tropical or subtropical clim tropical'' for ''tropical or sub		marily wet habitat, then	(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
202	Quality of clima	te match data			(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
203	Broad climate su	uitability (environmental ver	satility)		y=1, n=0	y
204	Native or natura	alized in regions with tropica	l or subtropical clima	tes	y=1, n=0	y
205	Does the species	have a history of repeated in	troductions outside it	s natural range?	y=-2, ?=-1, n=0	n
301	Naturalized beyo	ond native range			y = 1*multiplier (see Appendix 2), n= question 205	n
302	Garden/amenity	/disturbance weed			n=0, y = 1*multiplier (see Appendix 2)	n
303	Agricultural/for	estry/horticultural weed			n=0, y = 2*multiplier (see Appendix 2)	n
304	Environmental v	weed			n=0, y = 2*multiplier (see Appendix 2)	n
305	Congeneric week	d			n=0, y = 1*multiplier (see Appendix 2)	n
101	Produces spines,	, thorns or burrs			y=1, n=0	n
102	Allelopathic				y=1, n=0	
103	Parasitic				y=1, n=0	n
104	Unpalatable to g	grazing animals			y=1, n=-1	
105	Toxic to animals	3			y=1, n=0	
106	Host for recogni	zed pests and pathogens			y=1, n=0	
107	Causes allergies	or is otherwise toxic to huma	ans		y=1, n=0	n
408	Creates a fire ha	nzard in natural ecosystems			y=1, n=0	n

	De	esignation: EVALUATE	WRA Score 3	
805	Effective natural enemies present locally (e.g. introduced biocontrol age	nts) y=-1, n=1		
804	Tolerates, or benefits from, mutilation, cultivation, or fire	y=1, n=-1	y	
803	Well controlled by herbicides	y=-1, n=1		
802	Evidence that a persistent propagule bank is formed (>1 yr)	y=1, n=-1		
801	Prolific seed production (>1000/m2)	y=1, n=-1	n	
708	Propagules survive passage through the gut	y=1, n=-1	y	
707	Propagules dispersed by other animals (externally)	y=1, n=-1	n	
706	Propagules bird dispersed	y=1, n=-1	y	
705	Propagules water dispersed	y=1, n=-1		
704	Propagules adapted to wind dispersal	y=1, n=-1	n	
703	Propagules likely to disperse as a produce contaminant	y=1, n=-1	n	
702	Propagules dispersed intentionally by people	y=1, n=-1	y	
701	Propagules likely to be dispersed unintentionally (plants growing in hea	•		
607	Minimum generative time (years)	1 year = 1 4+ years =	, 2 or 3 years = 0, 1	
606	Reproduction by vegetative fragmentation	y=1, n=-1		
605	Requires specialist pollinators	y=-1, n=0		
604	Self-compatible or apomictic	y=1, n=-1		
603	Hybridizes naturally	y=1, n=-1		
602	Produces viable seed	y=1, n=-1		
601	Evidence of substantial reproductive failure in native habitat	y=1, n=0	n	
504	Geophyte (herbaceous with underground storage organs bulbs, corms	s, or tubers) y=1, n=0	n	
503	Nitrogen fixing woody plant	y=1, n=0	n	
502	Grass	y=1, n=0	n	
501	Aquatic	y=5, n=0	n	
412	Forms dense thickets	y=1, n=0	y	
411	Climbing or smothering growth habit	y=1, n=0	n	
410	Tolerates a wide range of soil conditions (or limestone conditions if not	a volcanic island) y=1, n=0		
409	Is a shade tolerant plant at some stage of its life cycle	y=1, n=0		

ıppor	ting Data:	
101	2010. WRA Specialist. Personal Communication.	No evidence of domestication that reduces invasive characteristics.
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	Native range: Indonesia - Irian Jaya, Moluccas; Malaysia; Papua New Guinea; Philippines; New Caledonia
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	Native range: Indonesia - Irian Jaya, Moluccas; Malaysia; Papua New Guinea; Philippines; New Caledonia
203	1989. Lowry, P.P A revision of Araliaceae from Vanuatu. Bulletin of the Museum of Natural History. 2: 117-155.	"Polyscias cumingiana appears to be widely cultivated throughout Malesia and the Southwest Pacific. According to Philipson (1979) this species also forms part of the indigenous vegetation in at least much of Malesia, where it occurs in rain forest and secondary vegetation from low elevations occasionally to 1700 m. The true native range of P. cumingiana is however, unknown. In Vanuatu, P. cumingiana occurs only at low elevation, from sea level to about 150 m, and always as a cultivated plant in and around towns and villages."
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 range: Indonesia - Irian Jaya, Moluccas; Malaysia; Papua New Guinea; Philippines; New Caledonia
205	2010. WRA Specialist. Personal Communication.	No evidence of repeated introductions outside its native range.
301	2010. WRA Specialist. Personal Communication.	No evidence of naturalization.
302	2007. Randall, R Global compendium of weeds Polyscias cumingiana (Araliaceae). http://www.hear.org/gcw/species/polyscias_cumin giana/	
303	2007. Randall, R Global compendium of weeds Polyscias cumingiana (Araliaceae). http://www.hear.org/gcw/species/polyscias_cumin giana/	No evidence of being an agriculture/forestry/horticulture weed.
304	2007. Randall, R Global compendium of weeds Polyscias cumingiana (Araliaceae). http://www.hear.org/gcw/species/polyscias_cumin giana/	
305	2010. WRA Specialist. Personal Communication.	No evidence of congeneric weed. Although the Global Compendium of Weeds states that some species in this genera are natualized and that Polyscias sambucifolia is an environmental weed. [no evidence of impact or control efforts]
401	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	No spines, thorns, burrs.
402	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Unknown.
403	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Not parasitic.
404	2010. WRA Specialist. Personal Communication.	Unknown.
405	2010. WRA Specialist. Personal Communication.	Unknown.

406	2010. WRA Specialist. Personal Communication.	Unknown.
407	1995. Kambuou, R.N Papua New Guinea: country report to the FAO international technical conference on plant genetic resources.	"Valanguar originated from the Pacific area and now widely distributed as far as Europe. The exact number of species exist and utilised in the country is not known but there is certainly a great genetic variation in this crop. Five edible species have been recorded by French (1986) in the New Britain and New Ireland areas namely; Polyscias cumingiana (Presl) F. Vill., P. fruticosa (L) Harms., P. macgillivrayi (Seem) Harms., P. scutellaria (Burm.f.) Fosb. and P. verticillata Stone."
408	2010. WRA Specialist. Personal Communication.	No evidence of fire hazard.
409	2010. WRA Specialist. Personal Communication.	Unknown.
410	2010. WRA Specialist. Personal Communication.	Unknown.
411	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Shrub.
412	2007. Walter, A., Lebot, V Gardens of Oceania Issue 122 of ACIAR monograph series. IRD Editions, http://books.google.com/books?id=SMYkLkV4iyE C&pg=PT175&dq=polyscias+cumingiana&hl=en&ei=8lttTfKEL5K6sQON3oSuBQ&sa=X&oi=book_result&ct=result&resnum=3&ved=0	
501	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Terrestrial.
502	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Araliaceae.
503	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Araliaceae.
504	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Shrub.
601	2010. WRA Specialist. Personal Communication.	No evidence.
602	2010. WRA Specialist. Personal Communication.	Unknown.
603	2010. WRA Specialist. Personal Communication.	Unknown.
604	2010. WRA Specialist. Personal Communication.	Unknown.
606	2007. Walter, A., Lebot, V Gardens of Oceania Issue 122 of ACIAR monograph series. IRD Editions, http://books.google.com/books?id=SMYkLkV4iyE C&pg=PT175&dq=polyscias+cumingiana&hl=en&ei=8lttTfKEL5K6sQON3oSuBQ&sa=X&oi=book_r esult&ct=result&resnum=3&ved=0	
607	2010. WRA Specialist. Personal Communication.	Unknown.
701	2010. WRA Specialist. Personal Communication.	Unknown. [this species is grown as hedges around villages in its native region - see 8.04]

702	1989. Lowry, P.P A revision of Araliaceae from Vanuatu. Bulletin of the Museum of Natural History. 2: 117-155.	"Polyscias cumingiana appears to be widely cultivated throughout Malesia and the Southwest Pacific. According to Philipson (1979) this species also forms part of the indigenous vegetation in at least much of Malesia, where it occurs in rain forest and secondary vegetation from low elevations occasionally to 1700 m. The true native range of P. cumingiana is however, unknown. In Vanuatu, P. cumingiana occurs only at low elevation, from sea level to about 150 m, and always as a cultivated plant in and around towns and villages."
703	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	No evidence of produce contamination.
704	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Fruit a drupe [no adaptation for wind dispersal].
705	2010. WRA Specialist. Personal Communication.	Unknown.
706	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Fruit a drupe.
707	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Fruit a drupe [no means of external attachment].
708	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Fruit a drupe. [genus level description]
801	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	Fruit a drupe. Ovary 2-3 celled, ovule 1 per cell [genus description]
802	2010. WRA Specialist. Personal Communication.	Unknown.
803	2010. WRA Specialist. Personal Communication.	Unknown.
804	2007. Walter, A., Lebot, V Gardens of Oceania Issue 122 of ACIAR monograph series. IRD Editions, http://books.google.com/books?id=SMYkLkV4iyE C&pg=PT175&dq=polyscias+cumingiana&hl=en&ei=8lttTfKEL5K6sQON3oSuBQ&sa=X&oi=book_r esult&ct=result&resnum=3&ved=0	"The plants are cultivated everywhere, planted in hedges in the villages, on the low walls of the irrigated taro pits and around the gardens. They are propagated by cuttings and with continual pruning they come to form thick barriers of vegetation around the villages and large thickets close to the houses."
805	2010. WRA Specialist. Personal Communication.	Unknown.