

Family: *Poaceae*

Taxon: *Lamarckia aurea*

Synonym:

Common Name: golden dog's-tail
goldentop grass

Questionnaire :	current 20090513	Assessor:	Patti Clifford	Designation: H(HPWRA)
Status:	Assessor Approved	Data Entry Person:	Patti Clifford	WRA Score 11
101	Is the species highly domesticated?		y=-3, n=0	n
102	Has the species become naturalized where grown?		y=1, n=-1	
103	Does the species have weedy races?		y=1, n=-1	
201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"		(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
202	Quality of climate match data		(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
203	Broad climate suitability (environmental versatility)		y=1, n=0	y
204	Native or naturalized in regions with tropical or subtropical climates		y=1, n=0	y
205	Does the species have a history of repeated introductions outside its natural range?		y=-2, ?=-1, n=0	y
301	Naturalized beyond native range		y = 1*multiplier (see Appendix 2), n= question 205	y
302	Garden/amenity/disturbance weed		n=0, y = 1*multiplier (see Appendix 2)	n
303	Agricultural/forestry/horticultural weed		n=0, y = 2*multiplier (see Appendix 2)	n
304	Environmental weed		n=0, y = 2*multiplier (see Appendix 2)	n
305	Congeneric weed		n=0, y = 1*multiplier (see Appendix 2)	n
401	Produces spines, thorns or burrs		y=1, n=0	n
402	Allelopathic		y=1, n=0	
403	Parasitic		y=1, n=0	n
404	Unpalatable to grazing animals		y=1, n=-1	n
405	Toxic to animals		y=1, n=0	n
406	Host for recognized pests and pathogens		y=1, n=0	
407	Causes allergies or is otherwise toxic to humans		y=1, n=0	n
408	Creates a fire hazard in natural ecosystems		y=1, n=0	n
409	Is a shade tolerant plant at some stage of its life cycle		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	
411	Climbing or smothering growth habit		y=1, n=0	n

412	Forms dense thickets	y=1, n=0	n
501	Aquatic	y=5, n=0	n
502	Grass	y=1, n=0	y
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	y
605	Requires specialist pollinators	y=-1, n=0	n
606	Reproduction by vegetative fragmentation	y=1, n=-1	
607	Minimum generative time (years)	1 year = 1, 2 or 3 years = 0, 4+ years = -1	1
701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	y=1, n=-1	y
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	
705	Propagules water dispersed	y=1, n=-1	
706	Propagules bird dispersed	y=1, n=-1	
707	Propagules dispersed by other animals (externally)	y=1, n=-1	y
708	Propagules survive passage through the gut	y=1, n=-1	
801	Prolific seed production (>1000/m2)	y=1, n=-1	y
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	y
805	Effective natural enemies present locally (e.g. introduced biocontrol agents)	y=-1, n=1	

Designation: H(HPWRA)

WRA Score **11**

Supporting Data:

101	2010. WRA Specialist. Personal Communication.	No evidence of domestication that reduces invasive characteristics.
102	2010. WRA Specialist. Personal Communication.	N/A
103	2010. WRA Specialist. Personal Communication.	N/A
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/cgi-bin/npgs/html/index.pl	Native range: Portugal - Madeira Islands; Spain- Canary Islands; Algeria; Egypt; Libya; Morocco; Tunisia; Ethiopia; Cyprus; Egypt - Sinai; Israel; Jordan; Lebanon; Syria; Turkey; Greece; Italy; France; Portugal Spain
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/cgi-bin/npgs/html/index.pl	Native range: Portugal - Madeira Islands; Spain- Canary Islands; Algeria; Egypt; Libya; Morocco; Tunisia; Ethiopia; Cyprus; Egypt - Sinai; Israel; Jordan; Lebanon; Syria; Turkey; Greece; Italy; France; Portugal Spain
203	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	675-1000 m.
203	2011. The Calflora Database. The Calflora database - Lamarckia aurea. The Calflora Database, Berkeley http://www.calflora.org/cgi-bin/species_query.cgi?where-calrecnum=4560	Occurs between 0 and 2165 feet; disturbed areas
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/cgi-bin/npgs/html/index.pl	Native range: Portugal - Madeira Islands; Spain- Canary Islands; Algeria; Egypt; Libya; Morocco; Tunisia; Ethiopia; Cyprus; Egypt - Sinai; Israel; Jordan; Lebanon; Syria; Turkey; Greece; Italy; France; Portugal Spain
205	1935. Beddows, A.R.. Seed setting and flowering in <i>Brachpodium pinnatum</i> Beauv., <i>B. sylvaticum</i> R. and <i>S. Desmazeria sicula</i> Dum. And <i>Lamarckia aurea</i> Moench. <i>New Phytologist</i> . 34: 326-338.	<i>Lamarckia aurea</i> is a widely spread ruderal species.
301	1935. Beddows, A.R.. Seed setting and flowering in <i>Brachpodium pinnatum</i> Beauv., <i>B. sylvaticum</i> R. and <i>S. Desmazeria sicula</i> Dum. And <i>Lamarckia aurea</i> Moench. <i>New Phytologist</i> . 34: 326-338.	<i>Lamarckia aurea</i> has become naturalised in southern California and is known as goldentop.
301	2011. Clark, L.G.. Treatment from the Jepson Manual Lamarckia. Jepson Flora Project Jepson Interchange, http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?8738,9076,9077	Naturalized in California.
302	2010. WRA Specialist. Personal Communication.	No evidence of control efforts or impacts. [listed as weed in the Global Compendium of Weeds]
303	2010. WRA Specialist. Personal Communication.	No evidence of control efforts or impacts. [listed as weed in the Global Compendium of Weeds]
305	2011. Clark, L.G.. Treatment from the Jepson Manual Lamarckia. Jepson Flora Project Jepson Interchange, http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?8738,9076,9077	One species in the genus.
401	2011. Clark, L.G.. Treatment from the Jepson Manual Lamarckia. Jepson Flora Project Jepson Interchange, http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?8738,9076,9077	No spines, thorns, burrs.
402	2010. WRA Specialist. Personal Communication.	Unknown.

403	2011. Clark, L.G.. Treatment from the Jepson Manual Lamarckia. Jepson Flora Project Jepson Interchange, http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?8738,9076,9077	Poaceae.
404	2002. Mallet, K./Orchard, A.E.. Poaceae 1: introduction and atlas, volume 1 volume 43 of flora of Australia. Csiro Publishing, http://books.google.com/books?id=JqVW70Z2X0AC&pg=PA233&dq=lamarckia+aurea+%2B+%22soil%22&hl=en&ei=zmR5TamsEITSsAOywemUAW&sa=X&oi	Lamarckia aurea is an annual fodder plant of Mediterranean origin.
405	2002. Mallet, K./Orchard, A.E.. Poaceae 1: introduction and atlas, volume 1 volume 43 of flora of Australia. Csiro Publishing, http://books.google.com/books?id=JqVW70Z2X0AC&pg=PA233&dq=lamarckia+aurea+%2B+%22soil%22&hl=en&ei=zmR5TamsEITSsAOywemUAW&sa=X&oi	Lamarckia aurea is an annual fodder plant of Mediterranean origin.
406	2010. WRA Specialist. Personal Communication.	Unknown.
407	2010. Specialized Information Services, U.S. National Library of Medicine. TOXNET Toxicology Data Network [Online Database]. National Institutes of Health, http://toxnet.nlm.nih.gov/	No allergies or toxicity noted in Toxnet.
408	2010. WRA Specialist. Personal Communication.	No evidence of Lamarckia creating a fire hazard.
409	2011. Dave's Garden. Daves garden plant files: golden top Lamarckia aurea. Dave's Garden, http://davesgarden.com/guides/pf/go/106395/	Full sun.
410	2010. WRA Specialist. Personal Communication.	Unknown.
411	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Tufted annual grass.
412	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Tufted annual grass; culms 7-15(-25) cm high,
501	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Terrestrial.
502	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Poaceae.
503	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Poaceae.
504	2011. Cope, T.A.. Flora of Pakistan - Lamarckia aurea. eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Poaceae [not a geophyte]
601	2010. WRA Specialist. Personal Communication.	No evidence.
602	2011. Dave's Garden. Daves garden plant files: golden top Lamarckia aurea. Dave's Garden, http://davesgarden.com/guides/pf/go/106395/	Self-sows freely.
603	2010. WRA Specialist. Personal Communication.	Unknown.

604	1935. Beddows, A.R.. Seed setting and flowering in <i>Brachpodium pinnatum</i> Beauv., <i>B. sylvaticum</i> R. and <i>S. Desmazeria sicula</i> Dum. And <i>Lamarckia aurea</i> Moench. <i>New Phytologist</i> . 34: 326-338.	"High self-fertility is a very marked feature of <i>L. aurea</i> ; 43 isolations on 39 plants gave an average of 82 seeds per 100 fascicles.z'
605	2011. Cope, T.A.. Flora of Pakistan - <i>Lamarckia aurea</i> . eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Poaceae [wind-pollinated]
606	2010. WRA Specialist. Personal Communication.	Unknown.
607	2011. Clark, L.G.. Treatment from the Jepson Manual <i>Lamarckia</i> . Jepson Flora Project Jepson Interchange, http://ucjeps.berkeley.edu/cgi-bin/get_JM_treatment.pl?8738,9076,9077	Annual grass.
701	1935. Beddows, A.R.. Seed setting and flowering in <i>Brachpodium pinnatum</i> Beauv., <i>B. sylvaticum</i> R. and <i>S. Desmazeria sicula</i> Dum. And <i>Lamarckia aurea</i> Moench. <i>New Phytologist</i> . 34: 326-338.	" <i>Lamarckia aurea</i> is an annual originating from the Mediterranean region, but now a widely spread ruderal species. Its spread may not be unconnected with the clinging tendency of the fascicles and with the fact that the seeds are not readily dislodged."
702	1939. Whitney, L.D., Hosaka, E.Y., Ripperton, J.C.. Grasses of the Hawaiian ranges. <i>Bulletin B-082</i> . University of Hawaii, Honolulu http://scholarspace.manoa.hawaii.edu/handle/10125/13439	"A native of the Mediterranean region, introduced in the western United States and northern Mexico where it grows in open ground and waste places. It is sometimes cultivated for ornamental"
703	2010. WRA Specialist. Personal Communication.	No evidence of produce contamination.
704	2010. WRA Specialist. Personal Communication.	Unknown
704	2011. Cope, T.A.. Flora of Pakistan - <i>Lamarckia aurea</i> . eFloras.org, http://www.efloras.org/florataxon.aspx?flora_id=5&taxon_id=220007260	Fertile spikelet: 2-3 mm long; glumes linear-lanceolate; fertile lemma ovate, 2-toothed at the apex and with a long awn from the sinus; sterile rudiment with a long awn.
705	2011. The Calflora Database. The Calflora database - <i>Lamarckia aurea</i> . The Calflora Database, Berkeley http://www.calflora.org/cgi-bin/species_query.cgi?where-calrecnum=4560	Usually found in non-wetlands, but occasionally found in wetlands.
706	2010. WRA Specialist. Personal Communication.	Unknown.
707	1935. Beddows, A.R.. Seed setting and flowering in <i>Brachpodium pinnatum</i> Beauv., <i>B. sylvaticum</i> R. and <i>S. Desmazeria sicula</i> Dum. And <i>Lamarckia aurea</i> Moench. <i>New Phytologist</i> . 34: 326-338.	" <i>Lamarckia aurea</i> is an annual originating from the Mediterranean region, but now a widely spread ruderal species. Its spread may not be unconnected with the clinging tendency of the fascicles and with the fact that the seeds are not readily dislodged."
708	2010. WRA Specialist. Personal Communication.	Unknown.
801	1935. Beddows, A.R.. Seed setting and flowering in <i>Brachpodium pinnatum</i> Beauv., <i>B. sylvaticum</i> R. and <i>S. Desmazeria sicula</i> Dum. And <i>Lamarckia aurea</i> Moench. <i>New Phytologist</i> . 34: 326-338.	In this research on seed setting and flowering in <i>Lamarckia aurea</i> , panicles were found to have a range of 79-94 seeds.
802	2010. WRA Specialist. Personal Communication.	Unknown.
803	2010. WRA Specialist. Personal Communication.	Unknown.
804	2007. Naveh, Z.. <i>Transdisciplinary challenges in landscape ecology and restoration ecology</i> . Springer, http://books.google.com/books?id=VlaJ6ZzLWEsC&dq=lamarckia+aurea+%2B+%22fire%22&source=gbs_navlinks_s	<i>Lamarckia aurea</i> occurrence in the vegetation community in western Galilee was rare before and after a hot Maquis burn.
805	2010. WRA Specialist. Personal Communication.	Unknown

