

**Family:** *Malvaceae*

**Taxon:** *Abutilon grandifolium*

**Synonym:** *Abutilon molle* Sweet  
*Sida grandifolia* (basionym)  
*Sida mollis*

**Common Name:** Royal ilima

<b>Questionnaire :</b>	current 20090513	<b>Assessor:</b>	Patti Clifford	<b>Designation:</b> L(Hawai'i)
<b>Status:</b>	Assessor Approved	<b>Data Entry Person:</b>	HPWRA OrgData	<b>WRA Score</b> 6
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	n
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)	y
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)	y
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	
405	Toxic to animals		y=1, n=0	
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	
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	n

411	Climbing or smothering growth habit	y=1, n=0	n
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	
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	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	n
705	Propagules water dispersed	y=1, n=-1	
706	Propagules bird dispersed	y=1, n=-1	n
707	Propagules dispersed by other animals (externally)	y=1, n=-1	
708	Propagules survive passage through the gut	y=1, n=-1	
801	Prolific seed production (>1000/m2)	y=1, n=-1	n
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	

Designation: L(Hawai'i)

WRA Score **6**

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**Supporting Data:**

101	2010. WRA Specialist. Personal Communication.	No evidence.
201	2010. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland <a href="http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl">http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl</a>	Native: Brazil, Bolivia, Peru, Argentina; Paraguay; Uruguay
202	2010. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland <a href="http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl">http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl</a>	Native: Brazil, Bolivia, Peru, Argentina; Paraguay; Uruguay
203	2010. Dave's Garden. Plant Files: <i>Abutilon grandifolium</i> . Dave's Garden, <a href="http://davesgarden.com/guides/pf/go/52985/">http://davesgarden.com/guides/pf/go/52985/</a>	USDA Hardiness Zones: 8a-10b.
204	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Naturalized on all the main Hawaiian Islands.
205	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	A widespread tropical weed.
301	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Naturalized on all the main Hawaiian Islands.
302	2008. CRC Weed Management. Environmental weeds of Australia: hairy indian mallow ( <i>Abutilon grandifolium</i> ).	"Hairy Indian mallow ( <i>Abutilon grandifolium</i> ) is regarded as a minor environmental weed or potential environmental weed in south-eastern Queensland and eastern New South Wales. This garden escape is a relatively common weed of waste areas, disturbed sites, roadsides and drains, but is also an occasional weed of disturbed and undisturbed natural ecosystems (e.g. tall shrublands, grasslands and riparian areas)."
303	2007. Randall, R.. Global Compendium of Weeds. <a href="http://www.hear.org/gcw/">http://www.hear.org/gcw/</a>	No evidence.
304	2008. CRC Weed Management. Environmental weeds of Australia: hairy indian mallow ( <i>Abutilon grandifolium</i> ).	"Hairy Indian mallow ( <i>Abutilon grandifolium</i> ) is regarded as a minor environmental weed or potential environmental weed in south-eastern Queensland and eastern New South Wales. This garden escape is a relatively common weed of waste areas, disturbed sites, roadsides and drains, but is also an occasional weed of disturbed and undisturbed natural ecosystems (e.g. tall shrublands, grasslands and riparian areas). [no mention of control]"
305	2010. Center for Invasive Species and Ecosystem Health. <i>Abutilon theophrasti</i> Velvetleaf, China jute. <a href="http://www.invasive.org/">http://www.invasive.org/</a>	<i>Abutilon theophrasti</i> is cultivated as a source of fiber and oil, however, it has escaped from cultivation to become an invasive species of orchards, cotton, maize, soybean, and vegetable fields, causing serious damage.
401	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	No spines, burrs, thorns.
402	2010. WRA Specialist. Personal Communication.	Unknown.
403	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and 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	2010. National Center for Biotechnology Information. PubMed. U.S. National Library of Medicine, Bethesda, Maryland <a href="http://www.ncbi.nlm.nih.gov/sites/entrez">http://www.ncbi.nlm.nih.gov/sites/entrez</a>	No evidence.
408	2010. WRA Specialist. Personal Communication.	Unknown.
409	2010. Dave's Garden. Plant Files: <i>Abutilon grandifolium</i> . Dave's Garden, <a href="http://davesgarden.com/guides/pf/go/52985/">http://davesgarden.com/guides/pf/go/52985/</a>	Full sun.
410	2010. Dave's Garden. Plant Files: <i>Abutilon grandifolium</i> . Dave's Garden, <a href="http://davesgarden.com/guides/pf/go/52985/">http://davesgarden.com/guides/pf/go/52985/</a>	Soil pH: 5.6-6.5
411	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Shrub.
412	2010. WRA Specialist. Personal Communication.	Unknown.
501	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Terrestrial.
502	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Malvaceae.
503	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Malvaceae
504	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Shrub.
601	2010. WRA Specialist. Personal Communication.	No evidence.
602	2010. Dave's Garden. Plant Files: <i>Abutilon grandifolium</i> . Dave's Garden, <a href="http://davesgarden.com/guides/pf/go/52985/">http://davesgarden.com/guides/pf/go/52985/</a>	Propagate by seed.
603	2010. WRA Specialist. Personal Communication.	Unknown.
604	2010. WRA Specialist. Personal Communication.	Unknown.
605	2010. WRA Specialist. Personal Communication.	Unknown.
606	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.	Propagate by seed or cuttings.
607	2002. College of Tropical Agriculture. Growing plants for Hawaiian lei: 85 plants for gardens, conservation, and business. University of Hawaii, Honolulu	Flowers in the first year.
701	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Naturalized in waste areas, fields and along roadsides.
702	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Widespread weed sometimes cultivated as an ornamental or for its fibers.

703	2010. WRA Specialist. Personal Communication.	No evidence.
704	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Fruit a schizocarp; seeds reniform, 2-3mm long, sparsely pubescent. [no adaptation for wind dispersal]
705	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Fruit a schizocarp, thin-walled and somewhat inflated.
705	2010. WRA Specialist. Personal Communication.	Unknown.
706	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Fruit a schizocarp.
707	2010. WRA Specialist. Personal Communication.	Unknown.
708	2010. WRA Specialist. Personal Communication.	Unknown.
801	1999. Wagner, W. L./Herbst, D. R./Sohmer, S. H.. Manual of the flowering plants of Hawaii. Revised edition.. University of Hawai'i Press and Bishop Museum Press, Honolulu, HI.	Mericarps usually 10; seeds usually 3-6 per mericarp.
802	2007. Randall, R.. Global Compendium of Weeds. <a href="http://www.hear.org/gcw/">http://www.hear.org/gcw/</a>	Unknown.
803	2000. Motooka, P.. Summaries of herbicide trials for pasture, range, and non-cropland weed control-1999. WC-5: .College of Tropical Agriculture and Human Resources University of Hawaii at Manoa, Honolulu	Tebuthiuron was applied at a rate of 2/lb/a to the soil and controlled 75% of the <i>Abutilon grandifolium</i> in the plot. [limited experiment]
803	2010. WRA Specialist. Personal Communication.	Unknown.
804	2010. WRA Specialist. Personal Communication.	Unknown
805	2010. WRA Specialist. Personal Communication.	Unknown