

Family: Apocynaceae

Taxon: Plumeria pudica

Synonym:

Common Name: Fiddle-leaf plumeria
Bridal bouquet

| | | | | |
|-----------------|---|--------------------|--|----------------|
| Questionnaire : | current 20090513 | Assessor: | Chuck Chimera | Designation: L |
| Status: | Assessor Approved | Data Entry Person: | Data | WRA Score -4 |
| 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 | n |
| 301 | Naturalized beyond 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/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 | |
| 405 | Toxic to animals | | y=1, n=0 | |
| 406 | Host for recognized pests and pathogens | | y=1, n=0 | n |
| 407 | Causes allergies or is otherwise toxic to humans | | y=1, n=0 | y |
| 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 | y |
| 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 | 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 | n |
| 605 | Requires specialist pollinators | y=-1, n=0 | y |
| 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 | 3 |
| 701 | Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) | 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 | y |
| 705 | Propagules water dispersed | y=1, n=-1 | n |
| 706 | Propagules bird dispersed | y=1, n=-1 | n |
| 707 | Propagules dispersed by other animals (externally) | y=1, n=-1 | n |
| 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 | n |
| 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 | | WRA Score -4 | |

Supporting Data:

| | | |
|-----|--|--|
| 101 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | No evidence of long history in cultivation |
| 201 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Panama, Martinique, Colombia, and Venezuela. |
| 202 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Panama, Martinique, Colombia, and Venezuela. |
| 203 | 2009. Weaver, Jr., R. E., and P. J. Anderson. Botany Section: <i>Plumeria pudica</i> Jacq. (fiddle-leaf plumeria, bridal bouquet). TRI-OLOGY. 48: .Florida Dept. of Ag. And Consumer Services, Division of Plant Industry, http://www.doacs.state.fl.us/pi/enpp/triol | <i>Plumeria pudica</i> is native to Panama, Colombia, & Venezuela & is frost-sensitive, succeeding as an ornamental only in the warmer parts of Florida. |
| 203 | 2010. Dave's Garden. PlantFiles: <i>Plumeria</i> , <i>Plumeria pudica</i> . Dave's Garden, http://davesgarden.com/guides/pf/go/93637/ | Hardiness: USDA Zone 9b: to -3.8 °C (25 °F) USDA Zone 10a: to -1.1 °C (30 °F) USDA Zone 10b: to 1.7 °C (35 °F) USDA Zone 11: above 4.5 °C (40 °F) |
| 204 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Panama, Martinique, Colombia, and Venezuela. |
| 205 | 2003. Llamas, K. A.. Tropical Flowering Plants. Timber Press, Portland, OR | Unusual in cultivation |
| 301 | 2007. Randall, R.. Global Compendium of Weeds. http://www.hear.org/gcw/ | No evidence of naturalization |
| 301 | 2009. Weaver, Jr., R. E., and P. J. Anderson. Botany Section: <i>Plumeria pudica</i> Jacq. (fiddle-leaf plumeria, bridal bouquet). TRI-OLOGY. 48: .Florida Dept. of Ag. And Consumer Services, Division of Plant Industry, http://www.doacs.state.fl.us/pi/enpp/triol | We have found no record of this species escaping from cultivation and becoming a weed anywhere to date. |
| 302 | 2007. Randall, R.. Global Compendium of Weeds. http://www.hear.org/gcw/ | No evidence of weediness |
| 302 | 2010. Learn 2 Grow. <i>Plumeria pudica</i> . Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | Invasive: No |
| 303 | 2007. Randall, R.. Global Compendium of Weeds. http://www.hear.org/gcw/ | No evidence of weediness in agriculture, horticulture or forestry |
| 304 | 2007. Randall, R.. Global Compendium of Weeds. http://www.hear.org/gcw/ | No evidence as an environmental weed |
| 305 | 2007. Randall, R.. Global Compendium of Weeds. http://www.hear.org/gcw/ | Some species of <i>Plumeria</i> (<i>P. acuminata</i> , <i>P. obtusa</i> , <i>P. rubra</i>) listed as naturalized or as weeds, but no evidence of negative impacts found. |
| 401 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Shrubs, to 3.5 m, the leaf scars pronounced. Leaves elongate-rhomboid, sometimes almost lobed when immature, acute, attenuate basally, to 22' cm long & 6 cm wide, glabrous above, pubescent on the veins beneath, the principal veins weakly anastomosing & forming a marginal vein; subsessile, sparsely glandular in the axils. [no spines, thorns, or burrs] |
| 402 | 2010. WRA Specialist. Personal Communication. | Unknown |
| 403 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Shrubs, to 3.5 m, the leaf scars pronounced. [not parasitic] |
| 404 | 2010. WRA Specialist. Personal Communication. | Unknown |

| | | |
|-----|--|--|
| 405 | 2010. Learn 2 Grow. <i>Plumeria pudica</i> . Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | The bark is tender & when cut or broken exudes, sticky, white sap which is an irritant. [possibly toxic, but no information found on animal consumption] |
| 406 | 2009. Brown, S. H.. <i>Plumeria pudica</i> . University of Florida, IFAS Extension, Gainesville, FL http://lee.ifas.ufl.edu/Hort/GardenPubsAZ/PlumeriaPudica.pdf | Potential Pests: Frangipani caterpillars, rust, mealybugs [no evidence that <i>P. pudica</i> is an important alternate host] |
| 406 | 2009. Nelson, S.. <i>Plumeria Rust</i> . Plant Disease. PD-61: 1-6. College of Tropical Agriculture and Human Resources, https://scholarspace.manoa.hawaii.edu/bitstream/10125/12415/1/PD-61.pdf | Table 1. <i>Plumeria</i> species or cultivars and their reaction to plumeria rust on the island of O'ahu, Hawai'i. [Moderately resistant... <i>Plumeria pudica</i>] |
| 406 | 2010. Top Tropical. <i>Plumeria pudica</i> , Family: Apocynaceae, Bridal bouquet. Top Tropicals Botanical Garden, http://toptropicals.com/catalog/uid/PLUMERIA_PUDICA.htm | This plant is very easy to grow, and unlike other plumerias, it doesn't get insect or fungus problems. |
| 407 | 2010. Learn 2 Grow. <i>Plumeria pudica</i> . Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | The bark is tender & when cut or broken exudes, sticky, white sap which is an irritant. |
| 408 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | No evidence that tree increases fire risk |
| 409 | 2009. Brown, S. H.. <i>Plumeria pudica</i> . University of Florida, IFAS Extension, Gainesville, FL http://lee.ifas.ufl.edu/Hort/GardenPubsAZ/PlumeriaPudica.pdf | A most beautiful <i>Plumeria</i> it is well suited for full sun at the edges of gardens |
| 409 | 2010. Dave's Garden. PlantFiles: <i>Plumeria, Plumeria pudica</i> . Dave's Garden, http://davesgarden.com/guides/pf/go/93637/ | Sun Exposure: Full Sun Sun to Partial Shade Light Shade |
| 409 | 2010. Gardino Nursery. Rare and Unusual Plants: <i>Plumeria pudica</i> . Gardino Nursery, http://www.rareflora.com/plumeria.html | LIGHT REQUIREMENTS : full sun |
| 409 | 2010. Learn 2 Grow. <i>Plumeria pudica</i> . Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | Full sun or high, shifting shade is best for growth & flowering. They need several hours of very bright light a day for flowering. [Full Sun, Partial Sun] |
| 410 | 2010. Dave's Garden. PlantFiles: <i>Plumeria, Plumeria pudica</i> . Dave's Garden, http://davesgarden.com/guides/pf/go/93637/ | Soil pH requirements: 6.1 to 6.5 (mildly acidic) 6.6 to 7.5 (neutral) |
| 411 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Shrubs, to 3.5 m, the leaf scars pronounced. |
| 412 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | No evidence of tree forming dense thickets anywhere in native or introduced range |
| 501 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Shrubs, to 3.5 m, the leaf scars pronounced. [terrestrial] |
| 502 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Apocynaceae |
| 503 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Apocynaceae |

| | | |
|-----|---|---|
| 504 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Shrubs, to 3.5 m, the leaf scars pronounced. [not a geophyte] |
| 601 | 2007. Maciel, N. and A. Mendoza. Propagación por semilla y crecimiento en vivero de Plumeria pudica Jacq.. Rev. Fav. Agron.. 24: 95-100. | No evidence of substantial reproductive failure in native range |
| 602 | 2007. Maciel, N. and A. Mendoza. Propagación por semilla y crecimiento en vivero de Plumeria pudica Jacq.. Rev. Fav. Agron.. 24: 95-100. | The fruit of <i>P. pudica</i> is a dehiscent follicle (Figure 1A) which contains between 25 & 35 seeds. Their seeds are winged & 100 of these presented a mass of about 2.8 g. |
| 603 | 2010. WRA Specialist. Personal Communication. | Unknown if <i>P. pudica</i> forms hybrids |
| 604 | 1993. Sharma, O. P.. Plant Taxonomy. Tata McGraw-Hill, New Delhi, India. | Self-pollination is absent |
| 604 | 2010. Learn 2 Grow. Plumeria pudica. Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | Self-Sowing; No |
| 605 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. Flora of Panama. Part VIII. Family 162. Apocynaceae. Annals of the Missouri Botanical Garden. 57: 59-130. | Flowers with the pedicels 8-12 mm long; bracteoles present, deltoid, ca. 1.5-2 mm long; calyxlobes deltoid, fleshy, ca. 1.5-2 mm long, glandular (?)tipped; corolla slightly subinfundibuliform, white, sometimes with a yellow center, the tube ca. 20-25 mm long, pubescent within, the lobes broadly ovate, ca. 30 mm long; anthers ca. 2 mm long; stigma somewhat fleshy below and slenderly bicapitate above. Follicles ca. 5-10 cm long; seeds unknown. |
| 605 | 1984. Haber, W. A.. Pollination by Deceit in a Mass-Flowering Tropical Tree <i>Plumeria rubra</i> L. (Apocynaceae). Biotropica. 16: 269-275. | Although visitation rates are low, hawkmoths of at least 17 species (& probably many others) visit <i>Plumeria</i> flowers. The hawk- moths carry <i>Plumeria</i> pollen on their tongues & are morphologically & behaviorally suited as pollinators. Thus, there is little doubt that hawkmoths are pollinators of <i>P. rubra</i> , while other moths & butterflies possibly also serve as pollinators. |
| 606 | 2010. Dave's Garden. PlantFiles: Plumeria, Plumeria pudica. Dave's Garden, http://davesgarden.com/guides/pf/go/93637/ | Propagation Methods: From woody stem cuttings From softwood cuttings From semi-hardwood cuttings From hardwood cuttings Allow cut surface to callous over before planting From seed; sow indoors before last frost From seed; germinate in a damp paper towel By grafting By air layering [no evidence of vegetative spread in cultivation or wild] |
| 607 | 2009. Brown, S. H.. Plumeria pudica. University of Florida, IFAS Extension, Gainesville, FL http://lee.ifas.ufl.edu/Hort/GardenPubsAZ/PlumeriaPudica.pdf | Growth Rate: Medium |
| 607 | 2010. Learn 2 Grow. Plumeria pudica. Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | Growth Rate: Medium [probably a minimum of 2-3 years to reproductive maturity, if not more] |
| 701 | 2007. Maciel, N. and A. Mendoza. Propagación por semilla y crecimiento en vivero de Plumeria pudica Jacq.. Rev. Fav. Agron.. 24: 95-100. | The fruit of <i>P. pudica</i> is a dehiscent follicle (Figure 1A) which contains between 25 & 35 seeds. Their seeds are winged & 100 of these presented a mass of about 2.8 g. The number of seeds per fruit in this species is slightly below those reported for other species (50 seeds / follicle). [No evidence of unintentional dispersal and no means of external attachment] |
| 702 | 2007. PlumeriaGuy.com. Plumeria pudica. PlumeriaGuy.com, http://www.plumeriaguy.com/plumeriapudica.html | <i>Plumeria pudica</i> is one of the most classic & popular forms of plumeria, producing absolutely breathtaking flowers. [ornamental] |
| 703 | 2010. Learn 2 Grow. Plumeria pudica. Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | The fruit is a two-part follicle with winged seeds inside. [No evidence of contamination of produce] |
| 704 | 2007. Maciel, N. and A. Mendoza. Propagación por semilla y crecimiento en vivero de Plumeria pudica Jacq.. Rev. Fav. Agron.. 24: 95-100. | The fruit of <i>P. pudica</i> is a dehiscent follicle (Figure 1A) which contains between 25 & 35 seeds. Their seeds are winged & 100 of these presented a mass of about 2.8 g. The number of seeds per fruit in this species is slightly below those reported for other species (50 seeds / follicle). [translated from Spanish] |
| 704 | 2010. Learn 2 Grow. Plumeria pudica. Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | The fruit is a two-part follicle with winged seeds inside. |

| | | |
|-----|--|--|
| 705 | 2010. Learn 2 Grow. <i>Plumeria pudica</i> . Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | The fruit is a two-part follicle with winged seeds inside. [no evidence of water dispersal] |
| 706 | 2007. Maciel, N. and A. Mendoza. Propagación por semilla y crecimiento en vivero de <i>Plumeria pudica</i> Jacq.. <i>Rev. Fav. Agron.</i> . 24: 95-100. | The fruit of <i>P. pudica</i> is a dehiscent follicle (Figure 1A) which contains between 25 & 35 seeds. Their seeds are winged & 100 of these presented a mass of about 2.8 g. [not fleshy-fruited] |
| 707 | 2010. Learn 2 Grow. <i>Plumeria pudica</i> . Learn2Grow.com, http://www.learn2grow.com/plants/plumeria-pudica/ | The fruit is a two-part follicle with winged seeds inside. [no evidence of external animal dispersal and no means of external attachment] |
| 708 | 2010. WRA Specialist. Personal Communication. | Unknown [no evidence of ingestion] |
| 801 | 1970. Woodson, Jr., R. E., R. W. Schery and J. W. Nowicke. <i>Flora of Panama</i> . Part VIII. Family 162. Apocynaceae. <i>Annals of the Missouri Botanical Garden</i> . 57: 59-130. | Shrubs, to 3.5 m, the leaf scars pronounced. [unlikely to produce high seed densities given fairly small tree size] |
| 801 | 2007. Maciel, N. and A. Mendoza. Propagación por semilla y crecimiento en vivero de <i>Plumeria pudica</i> Jacq.. <i>Rev. Fav. Agron.</i> . 24: 95-100. | The fruit of <i>P. pudica</i> is a dehiscent follicle (Figure 1A) which contains between 25 & 35 seeds. Their seeds are winged & 100 of these presented a mass of about 2.8 g. The number of seeds per fruit in this species is slightly below those reported for other species (50 seeds / follicle). [translated from Spanish] |
| 802 | 2010. Dave's Garden. PlantFiles: <i>Plumeria</i> , <i>Plumeria pudica</i> . Dave's Garden, http://davesgarden.com/guides/pf/go/93637/ | Seed does not store well; sow as soon as possible |
| 803 | 2010. WRA Specialist. Personal Communication. | Unknown [no information on control with herbicides] |
| 804 | 2010. WRA Specialist. Personal Communication. | Unknown if <i>P. pudica</i> tolerates, or benefits from, mutilation, cultivation, or fire |
| 805 | 2009. Nelson, S.. <i>Plumeria Rust</i> . Plant Disease. PD-61: 1-6. College of Tropical Agriculture and Human Resources, https://scholarspace.manoa.hawaii.edu/bitstream/10125/12415/1/PD-61.pdf | Table 1. <i>Plumeria</i> species or cultivars and their reaction to plumeria rust on the island of O'ahu, Hawai'i. [Moderately resistant... <i>Plumeria pudica</i> ...no other information on natural enemies found] |