

Taxon: <i>Dombeya x cayeuxii</i> André	Family: Malvaceae
Common Name(s): Mexican rosetree pink snowball pink-ball dombeya pompomtree	Synonym(s):

Assessor: Chuck Chimera	Status: Assessor Approved	End Date: 6 Dec 2017
WRA Score: -7.0	Designation: L	Rating: Low Risk

Keywords: Large Shrub, Tropical, Ornamental, Hybrid, Infertile

Qsn #	Question	Answer Option	Answer
101	Is the species highly domesticated?	y=-3, n=0	n
102	Has the species become naturalized where grown?		
103	Does the species have weedy races?		
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)	Low
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	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		
401	Produces spines, thorns or burrs	y=1, n=0	n
402	Allelopathic		
403	Parasitic	y=1, n=0	n
404	Unpalatable to grazing animals		
405	Toxic to animals	y=1, n=0	n
406	Host for recognized pests and pathogens		
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

Qsn #	Question	Answer Option	Answer
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	n
603	Hybridizes naturally		
604	Self-compatible or apomictic		
605	Requires specialist pollinators		
606	Reproduction by vegetative fragmentation		
607	Minimum generative time (years)		
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		
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	n
801	Prolific seed production (>1000/m ²)	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		
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)		

Supporting Data:

Qsn #	Question	Answer
101	Is the species highly domesticated?	n
	Source(s)	Notes
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	[An artificial hybrid, but not highly domesticated] "This species is considered to be a hybrid between <i>Dombeya mastersii</i> and <i>D. wallichii</i> but is often (wrongly) cited under the latter name. The mentioned parents are supposed to be native in Madagascar and tropical East Africa (Barrett)."

102	Has the species become naturalized where grown?	
	Source(s)	Notes
	WRA Specialist. 2017. Personal Communication	NA

103	Does the species have weedy races?	
	Source(s)	Notes
	WRA Specialist. 2017. Personal Communication	NA

201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	High
	Source(s)	Notes
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	"This species is considered to be a hybrid between <i>Dombeya mastersii</i> and <i>D. wallichii</i> but is often (wrongly) cited under the latter name. The mentioned parents are supposed to be native in Madagascar and tropical East Africa (Barrett)."

202	Quality of climate match data	Low
	Source(s)	Notes
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	[No native range] "This species is considered to be a hybrid between <i>Dombeya mastersii</i> and <i>D. wallichii</i> but is often (wrongly) cited under the latter name. The mentioned parents are supposed to be native in Madagascar and tropical East Africa (Barrett)."

Qsn #	Question	Answer
203	Broad climate suitability (environmental versatility)	n
	Source(s)	Notes
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	"it grows best in more temperate climates."
	Desert Tropicals. 2017. Pink Ball Dombeya. http://www.desert-tropicals.com/Plants/Sterculiaceae/Dombeya_cayeuxii.html . [Accessed 5 Dec 2017]	"USDA: 10-11"
	Jarrett, A. 2003. Ornamental Tropical Shrubs. Pineapple Press Inc., Sarasota, FL	"Zone(s): 9-11"

204	Native or naturalized in regions with tropical or subtropical climates	y
	Source(s)	Notes
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	[Artificial hybrid. Parent species from tropical regions] "This species is considered to be a hybrid between <i>Dombeya mastersii</i> and <i>D. wallichii</i> but is often (wrongly) cited under the latter name. The mentioned parents are supposed to be native in Madagascar and tropical East Africa (Barrett)."

205	Does the species have a history of repeated introductions outside its natural range?	y
	Source(s)	Notes
	Soderholm, P. K. (1967). Evaluation of <i>Dombeya</i> introductions for new ornamentals for Florida. In Proc. Fla. State Hort. Soc. 80: 477-480	" <i>D. x cayeuxii</i> Andre, P. I. 19897, was introduced by the U. S. Department of Agriculture from Madeira in 1907 and again from Cuba in 1935 as P. I. 110682."
	Imada, C.T., Staples, G.W. & Herbst, D.R. 2005. Annotated Checklist of Cultivated Plants of Hawai'i. http://www2.bishopmuseum.org/HBS/botany/cultivatedplants/ . [Accessed 5 Dec 2017]	"Locations: Foster Botanical Garden (Confirmed) Ho'omaluhia Botanical Garden Waimea Arboretum & Botanical Garden"
	Dave's Garden. 2017. Tropical Hydrangea, Pink-Ball. <i>Dombeya x cayeuxii</i> . https://davesgarden.com/guides/pf/go/195298/ . [Accessed 6 Dec 2017]	"Regional This plant has been said to grow in the following regions: North Port, Florida Orlando, Florida Saint Petersburg, Florida Hawaiian Paradise Park, Hawaii Hilo, Hawaii"
	Bishop Museum. 2017. <i>Dombeya Xcayeuxii</i> André. http://nsdb.bishopmuseum.org/TaxonName/1163660896# . [Accessed 5 Dec 2017]	17 specimens in collections (15 from the Hawaiian Islands, 2 from French Polynesia). All apparently cultivated.
	Negi, P. S., & Hajra, P. K. 2007. Alien flora of Doon Valley, Northwest Himalaya. Current Science 92(7): 968-978	Cultivated in India

301	Naturalized beyond native range	n
	Source(s)	Notes

Qsn #	Question	Answer
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	" <i>Dombeya x cayeuxii</i> ... References: India-N-976." [Cites Negi & Hajra, P. (2007) for evidence of naturalization. However, the cited reference does not confirm that this species is naturalized]
	Negi, P. S., & Hajra, P. K. 2007. Alien flora of Doon Valley, Northwest Himalaya. Current Science 92(7): 968-978	"Naturalized and widely cultivated exotics are marked by asterisks in the enumeration." ... "Table 1. Exotics of the Doon Valley" [<i>Dombeya cayuseii</i> included in table, but not marked with an asterisk]
	Imada, C. 2012. Hawaiian Native and Naturalized Vascular Plants Checklist (December 2012 update). Bishop Museum Technical Report 60. Bishop Museum, Honolulu, HI	No evidence
	Wagner, W.L., Herbst, D.R.& Lorence, D.H. 2017. Flora of the Hawaiian Islands. Smithsonian Institution, Washington, D.C. http://botany.si.edu/ . [Accessed 5 Dec 2017]	No evidence to date

302	Garden/amenity/disturbance weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	" <i>Dombeya cayeuxii</i> ... References: India-W" [Cited as a weed in IUCN (2017) Global Register of Introduced and Invasive Species (GRIIS) IUCN SSC Invasive Species Specialist Group. URL: http://griis.org/ . This website cites Negi & Hajra (2007), and does not indicate that the species is a weed. The website further states that there is no evidence of impacts reported for this species]
	Global Register of Introduced and Invasive Species. 2017. <i>Dombeya cayeuxii</i> . http://griis.org/ . [Accessed 5 Dec 2017]	Evidence of Impacts (Y/N) = No

303	Agricultural/forestry/horticultural weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	No evidence to date

304	Environmental weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	No evidence to date

305	Congeneric weed	n
	Source(s)	Notes
	Randall, R.P. (2017). A Global Compendium of Weeds. 3rd Edition. Perth, Western Australia. R.P. Randall	<i>Dombeya acutangula</i> , <i>Dombeya burgessiae</i> , <i>Dombeya mastersii</i> , <i>Dombeya mollis</i> , <i>Dombeya platanifolia</i> , <i>Dombeya rotundifolia</i> , <i>Dombeya spectabilis</i> , <i>Dombeya tiliacea</i> , <i>Dombeya torrida</i> and <i>Dombeya wallichii</i> listed as naturalized and/or weeds. Subsequent searches were unable to find evidence of negative impacts for any of the listed taxa.

Qsn #	Question	Answer
401	Produces spines, thorns or burrs	n
	Source(s)	Notes
	Alexander, E. J. 1954. <i>Dombeya cayeuxii</i> . <i>Addisonia</i> 23(1): 1-2	[No evidence] " <i>Domheya Cayeuxii</i> is a large shrub to twenty feet in height with roughhairy branches which are green in youth and become brown with age. The leaves are very numerous, bright green, both blades and petioles covered with short, stiff hairs. The petioles are three to six inches long, with two triangular, wavy-margined and long-pointed stipules at the base: the blades are six to eight inches long and four to six inches wide, heart-shaped at the base, the margins with sharp unequal teeth and often with shallow, angulate lobes. The flowers are borne in a head at the end of six to eight inch-long, drooping stalks. The involuclral bracts at the base of the head are oblong and pointed, five to eight in number, and one-half to three-fourths inch long. The individual flower stalks are three-fourths to an inch long. The sepals are pale silvery green in color and very thin in texture, narrowly lance shaped, about one-half inch long. The petals are five in number, bright pink becoming whitish towards the base; they are oblong but oblique on one side, three-fourths to an inch long. The stamens and staminodes are united into a tube about one-half inch long. The tube, filaments and staminodes are greenish white, the staminodes hair\'-margined, the anthers bright yellow. The pistil is about three-fourths inch long, with five recurved stigmas, the ovary rotund and bristly-hairy."

402	Allelopathic	
	Source(s)	Notes
	WRA Specialist. 2017. Personal Communication	Unknown. No evidence found

403	Parasitic	n
	Source(s)	Notes
	Alexander, E. J. 1954. <i>Dombeya cayeuxii</i> . <i>Addisonia</i> 23(1): 1-2	" <i>Domheya Cayeuxii</i> is a large shrub to twenty feet in height with rough-hairy branches which are green in youth and become brown with age." [Malvaceae. No evidence]

404	Unpalatable to grazing animals	
	Source(s)	Notes
	Quattrocchi, U. 2012. <i>CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology</i> . CRC Press, Boca Raton, FL	" <i>Dombeya burgesiae</i> ... bark and leaves eaten by black rhinos" [One of parent species palatable to browsing animals, suggesting hybrid may also be palatable]

405	Toxic to animals	n
	Source(s)	Notes
	Louppe, D., Oteng-Amoako, A.A. & Brink, M. 2008. <i>Timbers 1: volume 7 of plant resources of tropical Africa</i> . PROTA, Wageningen, Netherlands	[Other species palatable to browsers] " <i>Dombeya rotundifolia</i> ... The leaves serve as fodder"

Qsn #	Question	Answer
	Wagstaff, D.J. 2008. International poisonous plants checklist: an evidence-based reference. CRC Press, Boca Raton, FL	No evidence
	Quattrocchi, U. 2012. CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology. CRC Press, Boca Raton, FL	No evidence. Several species used medicinally

406	Host for recognized pests and pathogens	
	Source(s)	Notes
	Gilman, E.F. & Watson, D.G. 1993. <i>Dombeya wallichii</i> - Pinkball. Fact Sheet ST-232. Institute of Food and Agricultural Sciences, University of Florida, Gainesville, FL. http://hort.ifas.ufl.edu/ . [Accessed 6 Dec 2017]	[Unknown. One parent species not a major host of pests and pathogens] "Pests - Aphids, soft scale, nematodes, and sooty mold are minor problems for Pinkball. Diseases - No diseases are of major concern."

407	Causes allergies or is otherwise toxic to humans	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	[No evidence] " <i>Dombeya x cayeuxii</i> is probably the most frequently cultivated <i>dombeya</i> in Hawai'i, and it makes a truly impressive specimen plant."
	Quattrocchi, U. 2012. CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology. CRC Press, Boca Raton, FL	No evidence

408	Creates a fire hazard in natural ecosystems	n
	Source(s)	Notes
	Wagner, W.L., Herbst, D.R. & Lorence, D.H. 2017. Flora of the Hawaiian Islands. Smithsonian Institution, Washington, D.C. http://botany.si.edu/ . [Accessed]	[No evidence. Only known from cultivation] "This horticultural hybrid between <i>D. wallichii</i> B. D. Jackson and <i>D. burgessiae</i> was produced in Lisbon, Portugal, by H. A. F. Cayeux in 1895." ... " <i>Dombeya x cayeuxii</i> is probably the most frequently cultivated <i>dombeya</i> in Hawai'i"

409	Is a shade tolerant plant at some stage of its life cycle	n
	Source(s)	Notes
	Jarrett, A. 2003. Ornamental Tropical Shrubs. Pineapple Press Inc., Sarasota, FL	"Exposure: full sun"
	Gildemeister, H. 2002. Mediterranean Gardening: A Waterwise Approach. University of California Press, Berkeley and Los Angeles, CA	"It requires sheltered, sunny locations ..."
	Dave's Garden. 2017. Tropical Hydrangea, Pink-Ball. <i>Dombeya x cayeuxii</i> . https://davesgarden.com/guides/pf/go/195298/ . [Accessed 6 Dec 2017]	"Sun Exposure: Full Sun"

Qsn #	Question	Answer
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	y
	Source(s)	Notes
	Gildemeister, H. 2002. Mediterranean Gardening: A Waterwise Approach. University of California Press, Berkeley and Los Angeles, CA	"It requires sheltered, sunny locations, compost-rich garden soil, thick mulching, and watering once or twice a week in summer."
	Dave's Garden. 2017. Tropical Hydrangea, Pink-Ball. <i>Dombeya x cayeuxii</i> . https://davesgarden.com/guides/pf/go/195298/ . [Accessed 6 Dec 2017]	"Soil pH requirements: 6.1 to 6.5 (mildly acidic) 6.6 to 7.5 (neutral) 7.6 to 7.8 (mildly alkaline)"
	Jarrett, A. 2003. Ornamental Tropical Shrubs. Pineapple Press Inc., Sarasota, FL	"Soil: tolerant of most but prefers rich loam"

411	Climbing or smothering growth habit	n
	Source(s)	Notes
	Alexander, E. J. 1954. <i>Dombeya cayeuxii</i> . <i>Addisonia</i> 23(1): 1-2	" <i>Dombeya Cayeuxii</i> is a large shrub to twenty feet in height with rough-hairy branches which are green in youth and become brown with age."

412	Forms dense thickets	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. <i>A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places</i> . Bishop Museum Press, Honolulu, HI	[Artificial hybrid. No evidence found] "This horticultural hybrid between <i>D. wallichii</i> B. D. Jackson and <i>D. burgessiae</i> was produced in Lisbon, Portugal, by H. A. F. Cayeux in 1895." ... " <i>Dombeya x cayeuxii</i> is probably the most frequently cultivated <i>dombeya</i> in Hawai'i, and it makes a truly impressive specimen plant."

501	Aquatic	n
	Source(s)	Notes
	Alexander, E. J. 1954. <i>Dombeya cayeuxii</i> . <i>Addisonia</i> 23(1): 1-2	[Terrestrial] "...a large shrub to twenty feet in height with rough-hairy branches which are green in youth and become brown with age."

502	Grass	n
	Source(s)	Notes
	USDA, ARS, Germplasm Resources Information Network. 2017. National Plant Germplasm System [Online Database]. http://www.ars-grin.gov/npgs/index.html . [Accessed 5 Dec 2017]	Family: Malvaceae Subfamily: Dombeyoideae

Qsn #	Question	Answer
503	Nitrogen fixing woody plant	n
	Source(s)	Notes
	USDA, ARS, Germplasm Resources Information Network. 2017. National Plant Germplasm System [Online Database]. http://www.ars-grin.gov/npgs/index.html . [Accessed 5 Dec 2017]	Family: Malvaceae Subfamily: Dombeyoideae

504	Geophyte (herbaceous with underground storage organs -- bulbs, corms, or tubers)	n
	Source(s)	Notes
	Alexander, E. J. 1954. <i>Dombeya cayeuxii</i> . <i>Addisonia</i> 23(1): 1-2	" <i>Domheya Cayeuxii</i> is a large shrub to twenty feet in height with rough-hairy branches which are green in youth and become brown with age."

601	Evidence of substantial reproductive failure in native habitat	n
	Source(s)	Notes
	Kunkel, G. 1978. <i>Flowering Trees in Subtropical Gardens</i> . Dr. W. Junk b.v., Publishers, The Hague - Boston - London	[Artificial hybrid. No native range] "This species is considered to be a hybrid between <i>Dombeya mastersii</i> and <i>D.wallichii</i> but is often (wrongly) cited under the latter name. The mentioned parents are supposed to be native in Madagascar and tropical East Africa (Barrett)."

602	Produces viable seed	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. <i>A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places</i> . Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Kunkel, G. 1978. <i>Flowering Trees in Subtropical Gardens</i> . Dr. W. Junk b.v., Publishers, The Hague - Boston - London	"Fruits dry, light brown capsules up to 1,5 cm in diameter." ... "Propagation from cuttings" [No mention of seeds]
	Dave's Garden. 2017. <i>Tropical Hydrangea, Pink-Ball. Dombeya x cayeuxii</i> . https://davesgarden.com/guides/pf/go/195298/ . [Accessed 6 Dec 2017]	"Seed Collecting: N/A: plant does not set seed, flowers are sterile, or plants will not come true from seed"

603	Hybridizes naturally	
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. <i>A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places</i> . Bishop Museum Press, Honolulu, HI	[Unknown if hybrid can backcross with parents or other <i>Dombeya</i> species] "This horticultural hybrid between <i>D. wallichii</i> B. D. Jackson and <i>D. burgessiae</i> was produced in Lisbon, Portugal, by H. A. F. Cayeux in 1895."

604	Self-compatible or apomictic	
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Qsn #	Question	Answer
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced." [Possibly infertile]
	Humeau, L., Pailler, T., & Thompson, J. D. (1999). Variation in the breeding system of two sympatric <i>Dombeya</i> species on La Réunion island. <i>Plant Systematics and Evolution</i> , 218 (1), 77-87	[Unknown for <i>Dombeya x cayeuxii</i> , but fruit set absent or limited] "In contrast to males of <i>D. delislei</i> that are self-incompatible, the seven <i>D. sp.</i> trees are self-compatible. Self-compatibility is an ideal condition for a plant for establishing a population where population sizes are very small and pollinators lacking (Baker 1955) as in these <i>Dombeya</i> species. Self-compatibility and high levels of selfing can also be selected in contact zones between taxa (Petit et al. 1997) or populations (Antonovics 1968) as a mechanism of reproductive isolation and speciation (Grant 1981). Although we have no information on the importance of self-compatibility in the establishment of <i>D. sp.</i> , our data are consistent with the hypothesis of a complementary genetic breakdown of dioecy and self-incompatibility following hybridization. Elsewhere it is known that the expression of self-incompatibility can be disrupted following interspecific hybridization (Martin 1968)."

605	Requires specialist pollinators	
	Source(s)	Notes
	Kubitzki, K. & Bayer, C. (eds.). 2003. The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betain Caryophyllales. Springer Verlag, Berlin, Heidelberg, New York	[One parent species is bee pollinated. <i>Dombeya x cayeuxii</i> fruit not known] "Some <i>Dombeyoideae</i> exhibit secondary pollen presentation on petal tips (Trochetiopsis: Brodie et al. 1998) or staminodes (<i>Dombeya</i> species: Yeo 1993; Pentapetes). According to Yeo (1993), the flowers of <i>Dombeya burgessiae</i> are melittophilous; large drops of nectar are stored at the insertion of petals."

606	Reproduction by vegetative fragmentation	
	Source(s)	Notes
	Dave's Garden. 2017. Tropical Hydrangea, Pink-Ball. <i>Dombeya x cayeuxii</i> . https://davesgarden.com/guides/pf/go/195298/ . [Accessed 6 Dec 2017]	"Propagation Methods: From woody stem cuttings From semi-hardwood cuttings From hardwood cuttings"
	Dave's Garden. 2017. Question on <i>Dombeya wallichii</i> - Pink ball. https://davesgarden.com/community/forums/t/848676/ . [Accessed]	[One parent species spreads by root suckers. Unknown for <i>Dombeya x cayeuxii</i> , but no evidence found] "bedouin Fort Lauderdale, FL (Zone 10b) ... my <i>Dobeya</i> certainly is a 15'+ tree. I imagine that if you tie the very young stems according to a design you'd like them to follow, you may have (some) luck. But it suckers tremendously in zone 10 and I'm forever cutting these out of the ground, off the trunks too."

607	Minimum generative time (years)	
	Source(s)	Notes
	Jarrett, A. 2003. Ornamental Tropical Shrubs. Pineapple Press Inc., Sarasota, FL	"Growth rate: fast"

Qsn #	Question	Answer
	Carolus, B. 2002. <i>Dombeya burgessiae</i> Gerr. ex Harv. PlantZAfrica. SANBI. http://pza.sanbi.org/dombeya-burgessiae . [Accessed 6 Dec 2017]	[One parent species may flower in 3 years] "This species is both easy and very fast growing. Once planted out of its nursery bag it can attain its full size in as little as three years."

701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	n
	Source(s)	Notes
	Kubitzki, K. & Bayer, C. (eds.). 2003. The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betain Caryophyllales. Springer Verlag, Berlin, Heidelberg, New York	[Generic description. No means of external attachment. <i>Dombeya x cayeuxii</i> fruit production may be absent or limited] " <i>Dombeya</i> ... Fruits loculicidally dehiscent, pericarp thin, pubescent, endocarp sometimes pubescent; seeds 1 to several per locule; endosperm abundant"

702	Propagules dispersed intentionally by people	y
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	" <i>Dombeya x cayeuxii</i> is probably the most frequently cultivated <i>dombeya</i> in Hawai'i, and it makes a truly impressive specimen plant."
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	[Ornamental] "It makes a beautiful garden and street tree and is a sight to be remembered around Christmas whilst in full bloom."

703	Propagules likely to disperse as a produce contaminant	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced." [Unlikely given limited or absent fruit production in cultivation]

704	Propagules adapted to wind dispersal	
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Rastogi, R. K. 2007. Diversity and Systematics of Seed Plants. Rastogi Publications, Meerut, India	"The winged or samaroid seeds of <i>Pterospermum</i> and <i>Dombeya</i> are dispersed by wind." [Generic description. <i>Dombeya x cayeuxii</i> seed production may be absent or limited in cultivation]

Qsn #	Question	Answer
705	Propagules water dispersed	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Kubitzki, K. & Bayer, C. (eds.). 2003. The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betalain Caryophyllales. Springer Verlag, Berlin, Heidelberg, New York	"Fruits loculicidally dehiscent, pericarp thin, pubescent, endocarp sometimes pubescent; seeds 1 to several per locule" [Generic description. No evidence of adaptations for water dispersal]

706	Propagules bird dispersed	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Kubitzki, K. & Bayer, C. (eds.). 2003. The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betalain Caryophyllales. Springer Verlag, Berlin, Heidelberg, New York	"Fruits loculicidally dehiscent, pericarp thin, pubescent, endocarp sometimes pubescent; seeds 1 to several per locule" [Generic description. No evidence of adaptations for bird dispersal]

707	Propagules dispersed by other animals (externally)	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Kubitzki, K. & Bayer, C. (eds.). 2003. The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betalain Caryophyllales. Springer Verlag, Berlin, Heidelberg, New York	"Fruits loculicidally dehiscent, pericarp thin, pubescent, endocarp sometimes pubescent; seeds 1 to several per locule" [Generic description. No means of external attachment]

708	Propagules survive passage through the gut	n
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Kubitzki, K. & Bayer, C. (eds.). 2003. The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betalain Caryophyllales. Springer Verlag, Berlin, Heidelberg, New York	"Fruits loculicidally dehiscent, pericarp thin, pubescent, endocarp sometimes pubescent; seeds 1 to several per locule" [Generic description. No adaptations for zoochory]

801	Prolific seed production (>1000/m2)	n
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Qsn #	Question	Answer
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	"Fruits dry, light brown capsules up to 1,5 cm in diameter." ... "Propagation from cuttings" [No mention of seeds]
	Dave's Garden. 2017. Tropical Hydrangea, Pink-Ball. <i>Dombeya x cayeuxii</i> . https://davesgarden.com/guides/pf/go/195298/ . [Accessed 6 Dec 2017]	"plant does not set seed, flowers are sterile, or plants will not come true from seed"

802	Evidence that a persistent propagule bank is formed (>1 yr)	n
	Source(s)	Notes
	Royal Botanic Gardens Kew. (2017) Seed Information Database (SID). Version 7.1. Available from: http://data.kew.org/sid/ . [Accessed 6 Dec 2017]	" <i>Dombeya burgessiae</i> Harv. Orthodox p 4.283g" [One parent species reported to have orthodox seeds. Unknown if persistent seed banks are formed]
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	"Frt not produced."

803	Well controlled by herbicides	y
	Source(s)	Notes
	WRA Specialist. 2017. Personal Communication	Unknown. No information on herbicide efficacy or chemical control of this hybrid

804	Tolerates, or benefits from, mutilation, cultivation, or fire	y
	Source(s)	Notes
	Kunkel, G. 1978. Flowering Trees in Subtropical Gardens. Dr. W. Junk b.v., Publishers, The Hague - Boston - London	"Usually a large shrub and tree-shaped only when frequently pruned ... " [Tolerates frequent pruning]

805	Effective natural enemies present locally (e.g. introduced biocontrol agents)	y
	Source(s)	Notes
	Staples, G.W. & Herbst, D.R. 2005. A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	[Unknown. No mention of natural enemies, pests or pathogens in the Hawaiian Islands] " <i>Dombeya x cayeuxii</i> is probably the most frequently cultivated <i>dombeya</i> in Hawai'i, and it makes a truly impressive specimen plant."

Summary of Risk Traits:

High Risk / Undesirable Traits

- Able to grow in tropical climates
- Other *Dombeya* species may be weedy
- Tolerates many soil types
- Seeds (if produce) may be dispersed by wind & intentionally by people
- Tolerates frequent pruning

Low Risk Traits

- No reports of invasiveness or naturalization
- Unarmed (no spines, thorns, or burrs)
- Requires full sun
- Ornamental
- Artificial hybrid that may not produce fruit and seeds
- Lack of seed production reduces or eliminates potential for inadvertent dispersal