Family: Clusiaceae

Print Date: 2/24/2012

Taxon: Mammea americana

Synonym: Mammea emarginata Moc. & Sessé ex Choisy Common Name: mammee-apple

mammy-apple tropical-apricot

				tropicar-apricot			
Questionaire :		current 20090513	current 20090513 Assessor:	Patti Clifford		Designation: L	
Sta	tus:	Assessor Approved	Data Entry Person:	Patti Clifford		WRA Score -1	
101	Is the species l	nighly domesticated?			y=-3, n=0		n
102	Has the specie	s become naturalized where g	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

		high) (See Appendix 2)	
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?	v=-2, ?=-1, n=0	v

05	Does the species have a history of repeated introductions outside its natural range?	y=-2, ?=-1, n=0	3
01	Naturalized beyond native range	y = 1*multiplier (see	

301	Naturalized beyond native range	y = 1*multiplier (see Appendix 2), n= question 205
302	Garden/amenity/disturbance weed	n=0, y = 1*multiplier (see Appendix 2)

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	v=1, n=0

404	Unpalatable to grazing animals	y=1, n=-1	
405	Toxic to animals	y=1, n=0	y
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
408	Creates a fire hazard in natural ecosystems	y=1, n=0
400	To a shada talamant mlant at some atoms of its life anala	1 0

409	Is a shade tolerant plant at some stage of its life cycle	y=1, n=0
410	410 Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island) y=1, n=0	

n

n

y

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 y 604 Self-compatible or apomictic y=1, n=1 n 605 Requires specialist pollinators y=1, n=1 n 606 Reproduction by vegetative fragmentation y=1, n=1 n 607 Minimum generative time (years) 1 year = 1, 2 or 3 years = 0, 23 4+ years = -1 23 4+ years = -1 701 Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) y=1, n=-1 n 702 Propag				
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=1 603 Hybridizes naturally y=1, n=-1 n 604 Self-compatible or apomictic y=1, n=-1 n 605 Requires specialist pollitantors y=-1, n=0 n 606 Reproduction by vegetative fragmentation y=1, n=-1 n 607 Minimum generative time (years) 1 year = 1, 2 or 3 years = 0, 23 23 701 Propagules likely to be dispersed unintentionally plants growing in heavily trafficked areas y=1, n=-1 n 702 Propagules likely to disperse as a produce contaminant y=1, n=-1 n 703 Propagules dispersed to wind dispersal y=1, n=-1 n 705	411	Climbing or smothering growth habit	y=1, 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=1 603 Hybridizes naturally y=1, n=-1 n 604 Self-compatible or apomictic y=1, n=-1 n 605 Requires specialist pollinators y=1, n=0 n 606 Reproduction by vegetative fragmentation y=1, n=-1 n 607 Minimum generative time (years) 1 year = 1, 2 or 3 years = 0, 23 23 701 Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) y=1, n=-1 n 702 Propagules likely to disperse as a produce contaminant y=1, n=-1 n 703 Propagules dispersed to wind dispersal y=1, n=-1 n 705 Propagules water dispersed y=1, n=-1 n	412	Forms dense thickets	y=1, n=0	
Silvage fixing woody plant	501	Aquatic	y=5, n=0	n
For pagules likely to be dispersed unintentionally (plants growing in heavily trafficked propagules likely to disperse as a produce contaminant propagules likely to dispersed water dispersed propagules water di	502	Grass	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 n 604 Self-compatible or apomictic y=1, n=0 n 605 Requires specialist pollinators y=-1, n=0 n 606 Reproduction by vegetative fragmentation y=1, n=-1 n 607 Minimum generative time (years) 1 year = 1, 2 or 3 years = 0, 44 years = -1 >3 701 Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) y=1, n=-1 n 702 Propagules likely to dispersed unintentionally by people y=1, n=-1 y 703 Propagules likely to disperse as a produce contaminant y=1, n=-1 n 704 Propagules water dispersed y=1, n=-1 n 705 Propagules water dispersed y=1, n=-1 n 706 Propagules bird dispersed y=1, n=-1 n 707 Propagules survive passage through the gut y=1, n=-1 n	503	Nitrogen fixing woody plant	y=1, n=0	n
602 Produces viable seed y=1, n=-1 y=1 603 Hybridizes naturally y=1, n=-1 n 604 Self-compatible or apomictic y=1, n=-1 n 605 Requires specialist pollinators y=-1, n=0 n 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 y 702 Propagules dispersed intentionally by people y=1, n=-1 y 703 Propagules dispersed intentionally by people y=1, n=-1 n 704 Propagules adapted to wind dispersal y=1, n=-1 n 705 Propagules bird dispersed y=1, n=-1 n 706 Propagules bird dispersed y=1, n=-1 n 707 Propagules survive passage through the gut y=1, n=-1 n 801 Prolific seed production (>1000/m2) y=1, n=-1 n 802	504	Geophyte (herbaceous with underground storage organs bulbs, corms, or tuber	y=1, n=0	n
Hybridizes naturally Self-compatible or apomictic Requires specialist pollinators Requires specialist pollinators Reproduction by vegetative fragmentation Reproduction by vegetative fragmentati	601	Evidence of substantial reproductive failure in native habitat	y=1, n=0	n
604 Self-compatible or apomictic y=1, n=-1 n 605 Requires specialist pollinators y=-1, n=0 n 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 n 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 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/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 her	602	Produces viable seed	y=1, n=-1	y
Requires specialist pollinators Reproduction by vegetative fragmentation Reproduction by vegetative fragmentation Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) Propagules dispersed intentionally by people Propagules likely to disperse as a produce contaminant Propagules adapted to wind dispersal Propagules water dispersed Propagules bird dispersed Propagules bird dispersed Propagules dispersed by other animals (externally) Propagules dispersed by other animals (externally) Propagules survive passage through the gut Prolific seed production (>1000/m2) Evidence that a persistent propagule bank is formed (>1 yr) Well controlled by herbicides Prolerates, or benefits from, mutilation, cultivation, or fire Effective natural enemies present locally (e.g. introduced biocontrol agents) y=1, n=1 n Rotation propagules in politic seed production (>1 yr) propagules dispersed y=1, n=1 n prolific seed production (>1000/m2) y=1, n=1 prolific seed production (>1000/m2) y=1, n=1 prolific seed production (>1000/m2) propagules dispersed by enefits from, mutilation, cultivation, or fire y=1, n=1 y Effective natural enemies present locally (e.g. introduced biocontrol agents)	603	Hybridizes naturally	y=1, n=-1	
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 n 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 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/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 y 804 Tolerates, or benefits from, mutillation, cultivation, or fire y=1, n=-1 y=1, n=-1	604	Self-compatible or apomictic	y=1, n=-1	n
Minimum generative time (years) 1 year = 1, 2 or 3 years = 0, 2 4 + years = -1 701 Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) 702 Propagules dispersed intentionally by people 703 Propagules likely to disperse as a produce contaminant 704 Propagules adapted to wind dispersal 705 Propagules water dispersed 706 Propagules bird dispersed 707 Propagules dispersed by other animals (externally) 708 Propagules dispersed by other animals (externally) 709 Propagules survive passage through the gut 700 Prolific seed production (>1000/m2) 701 Evidence that a persistent propagule bank is formed (>1 yr) 702 Evidence that a persistent propagule bank is formed (>1 yr) 703 Propagules or benefits from, mutilation, cultivation, or fire 704 Frolerates, or benefits from, mutilation, cultivation, or fire 705 Effective natural enemies present locally (e.g. introduced biocontrol agents)	605	Requires specialist pollinators	y=-1, n=0	n
Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas) 702 Propagules dispersed intentionally by people 703 Propagules likely to disperse as a produce contaminant 704 Propagules adapted to wind dispersal 705 Propagules water dispersed 706 Propagules bird dispersed 707 Propagules bird dispersed 708 Propagules dispersed by other animals (externally) 709 Propagules survive passage through the gut 700 Profice seed production (>1000/m2) 701 Profice seed production (>1000/m2) 702 Evidence that a persistent propagule bank is formed (>1 yr) 703 Propagules dispersed 704 Profice seed production (>1000/m2) 705 Propagules dispersed by other animals (externally) 706 Propagules survive passage through the gut 707 Propagules survive passage through the gut 708 Propagules survive passage through the gut 709 Profice seed production (>1000/m2) 700 Profice seed production (>1000/m2) 701 Profice seed production (>1000/m2) 702 Profice seed production (>1000/m2) 703 Propagules dispersed by the animals (externally) 704 Propagules dispersed by other animals (externally) 707 Propagules dispersed by other animals (externally) 708 Propagules bird dispersed 709 Propagules bird dispersed 700 Propagules bird dispersed 701 Propagules bird dispersed 702 Propagules bird dispersed 703 Propagules bird dispersed 704 Propagules dispersed 705 Propagules dispersed 706 Propagules dispersed 707 Propagules dispersed 708 Propagules dispersed 709 Propagules dispersed 700 Propagules dispersed 701 propagules dispersed 702 propagules dispersed 703 propagules dispersed 704 propagules dispersed 705 propagules dispersed 706 Propagules dispersed 707 propagules dispersed 708 propagules dispersed 709 propagules dispersed 700 propagules dispersed 700 propagules dispersed 701 propagules dispersed 702 propagules dispersed 703 propagules dispersed 706 propagules dispersed 707 propagules dispersed 708 propagules dispersed 709 propagules dispersed 709 propagules dispersed 7	606	Reproduction by vegetative fragmentation	y=1, n=-1	n
reas) 702 Propagules dispersed intentionally by people 703 Propagules likely to disperse as a produce contaminant 704 Propagules adapted to wind dispersal 705 Propagules water dispersed 706 Propagules bird dispersed 707 Propagules bird dispersed 708 Propagules dispersed by other animals (externally) 709 Propagules survive passage through the gut 700 Propagules survive passage through the gut 700 Prolific seed production (>1000/m2) 700 Propagules dispersed by other animals (externally) 701 Propagules dispersed to wind dispersed 701 Prolific seed production (>1000/m2) 701 Propagules dispersed 702 Propagules dispersed 703 Propagules dispersed 704 Propagules dispersed 705 Propagules dispersed 706 Propagules dispersed 707 Propagules dispersed 707 Propagules dispersed 708 Propagules dispersed 709 Propagules dispersed 700 Propagules dispersed 701 Propagules dispersed 701 Propagules dispersed 700 Propagules d	607	Minimum generative time (years)		>3
Propagules likely to disperse as a produce contaminant y=1, n=-1 n y=1, n=-1 n propagules adapted to wind dispersal y=1, n=-1 y=1, n=-1 y=1, n=-1 y=1, n=-1 propagules bird dispersed y=1, n=-1 n propagules dispersed by other animals (externally) y=1, n=-1 n propagules survive passage through the gut y=1, n=-1 prolific seed production (>1000/m2) y=1, n=-1 n prolific seed production (>1000/m2) y=1, n=-1 n well controlled by herbicides y=-1, n=1 prolific seed production (>1000/m2) y=1, n=-1 propagules dispersed by other animals (externally) y=1, n=-1 y solution of the service passage through the gut y=1, n=-1 y solution of	701		cked y=1, n=-1	n
Propagules adapted to wind dispersal y=1, n=-1 n Propagules water dispersed y=1, n=-1 Propagules bird dispersed y=1, n=-1 Propagules dispersed by other animals (externally) y=1, n=-1 n Propagules survive passage through the gut y=1, n=-1 n Prolific seed production (>1000/m2) y=1, n=-1 n Evidence that a persistent propagule bank is formed (>1 yr) y=1, n=-1 n Well controlled by herbicides y=-1, n=1 Well controlled by herbicides y=-1, n=1 y Effective natural enemies present locally (e.g. introduced biocontrol agents) y=-1, n=1	702	Propagules dispersed intentionally by people	y=1, n=-1	y
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 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 y 805 Effective natural enemies present locally (e.g. introduced biocontrol agents) y=-1, n=1	703	Propagules likely to disperse as a produce contaminant	y=1, n=-1	n
Propagules bird dispersed yel, n=-1 707 Propagules dispersed by other animals (externally) 708 Propagules survive passage through the gut 801 Prolific seed production (>1000/m2) 802 Evidence that a persistent propagule bank is formed (>1 yr) 803 Well controlled by herbicides 804 Tolerates, or benefits from, mutilation, cultivation, or fire 805 Effective natural enemies present locally (e.g. introduced biocontrol agents) 91, n=-1 92, n=-1 93 94, n=-1 95 95 97 97 97 97 97 97 97 97	704	Propagules adapted to wind dispersal	y=1, n=-1	n
707 Propagules dispersed by other animals (externally) 708 Propagules survive passage through the gut 801 Prolific seed production (>1000/m2) 802 Evidence that a persistent propagule bank is formed (>1 yr) 803 Well controlled by herbicides 804 Tolerates, or benefits from, mutilation, cultivation, or fire 805 Effective natural enemies present locally (e.g. introduced biocontrol agents) 91, n=-1 92 93 94 95 97 97 97 97 97 97 97 97 97	705	Propagules water dispersed	y=1, n=-1	
708 Propagules survive passage through the gut 801 Prolific seed production (>1000/m2) 802 Evidence that a persistent propagule bank is formed (>1 yr) 803 Well controlled by herbicides 804 Tolerates, or benefits from, mutilation, cultivation, or fire 805 Effective natural enemies present locally (e.g. introduced biocontrol agents) 91, n=-1 92 93 94 95 96 97 97 97 97 97 97 97 97 97	706	Propagules bird dispersed	y=1, n=-1	
801 Prolific seed production (>1000/m2) 802 Evidence that a persistent propagule bank is formed (>1 yr) 803 Well controlled by herbicides 804 Tolerates, or benefits from, mutilation, cultivation, or fire 805 Effective natural enemies present locally (e.g. introduced biocontrol agents) 91, n=-1 92 93 94 95 95 97 97 97 98 98 97 98 98 98 98	707	Propagules dispersed by other animals (externally)	y=1, n=-1	n
802 Evidence that a persistent propagule bank is formed (>1 yr) 803 Well controlled by herbicides 804 Tolerates, or benefits from, mutilation, cultivation, or fire 805 Effective natural enemies present locally (e.g. introduced biocontrol agents) 91, n=-1 92 93 94 95 97 97 97 97 98 98 99 90 90 90 90 90 90 90	708	Propagules survive passage through the gut	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	801	Prolific seed production (>1000/m2)	y=1, n=-1	n
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	802	Evidence that a persistent propagule bank is formed (>1 yr)	y=1, n=-1	n
805 Effective natural enemies present locally (e.g. introduced biocontrol agents) 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
D · · · · · WD · · ·	805	Effective natural enemies present locally (e.g. introduced biocontrol agents)	y=-1, n=1	
Designation: L WKA Score -1		Designation	n: L WRA Score -1	

upporting Data:		
101	2012. WRA Specialist. Personal Communication.	[Is the species highly domesticated?? No] No evidence of domestication that reduces invasive traits.
102	2012. WRA Specialist. Personal Communication.	[Has the species become naturalized where grown? NA]
103	2012. WRA Specialist. Personal Communication.	[Does the species have weedy races? NA]
201	2012. USDA, ARS National Genetics Resources Program. Mammea americana Germplasm Resources Information Network (GRIN) [online database]. http://www.ars-grin.gov/cgibin/npgs/html/taxon.pl?23319#syn	[Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical" 2 - high] Native distribution: Antigua and Barbuda; Bahamas; Cuba; Dominica; Dominican Republic; Grenada; Guadeloupe; Haiti; Jamaica; Martinique; Montserrat; Puerto Rico; St. Kitts and Nevis; St. Vincent and Grenadines; Trinidad and Tobago - Trinidad; Virgin Islands (British) - Tortola; Virgin Islands (U.S.) - St. Croix, St. John, St. Thomas.
202	2012. USDA, ARS National Genetics Resources Program. Mammea americana Germplasm Resources Information Network (GRIN) [online database]. http://www.ars-grin.gov/cgibin/npgs/html/taxon.pl?23319#syn	[Quality of climate match data? 2 - High] Native distribution: Antigua and Barbuda; Bahamas; Cuba; Dominica; Dominican Republic; Grenada; Guadeloupe; Haiti; Jamaica; Martinique; Montserrat; Puerto Rico; St. Kitts and Nevis; St. Vincent and Grenadines; Trinidad and Tobago - Trinidad; Virgin Islands (British) - Tortola; Virgin Islands (U.S.) - St. Croix, St. John, St. Thomas.
203	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Broad climate suitability (environmental versatility)? Yes] The mamey is limited to tropical or near-tropical climates. In Central America, it thrives from near sealevel to 3,300 ft (1,000 m).
203	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Broad climate suitability (environmental versatility)? Yes] Limited to tropical or semi-tropical areas. Frost sensitive. BIOPHYSICAL LIMITS Altitude: 0-1 600 m Mean annual temperature: 27-30 deg C Mean annual rainfall: 1 500-4 000 mm
204	2012. USDA, ARS National Genetics Resources Program. Mammea americana Germplasm Resources Information Network (GRIN) [online database]. http://www.ars-grin.gov/cgibin/npgs/html/taxon.pl?23319#syn	[Native or naturalized in regions with tropical or subtropical climates? Yes] Native distribution: Antigua and Barbuda; Bahamas; Cuba; Dominica; Dominican Republic; Grenada; Guadeloupe; Haiti; Jamaica; Martinique; Montserrat; Puerto Rico; St. Kitts and Nevis; St. Vincent and Grenadines; Trinidad and Tobago - Trinidad; Virgin Islands (British) - Tortola; Virgin Islands (U.S.) - St. Croix, St. John, St. Thomas.
205	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Does the species have a history of repeated introductions outside its natural range? Yes] "Introduced into the tropics of the Old World, it is of very limited occurrence in West Africa (particularly Sierra Leone), Zanzibar, southeastern Asia, Java, the Philippines, and Hawaii.
301	Mammea americana.	[Naturalized beyond native range?] The Global Compendium of Weeds lists Mammea as naturalized in the Galapagos. However the reference does not indicate whether Mammea is just introduces or naturalized.
302	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	[Garden/amenity/disturbance weed? No] No evidence.
303	2007. Randall, R Global Compendium of Weeds Mammea americana. http://www.hear.org/gcw/species/mammea_americana/	[Agricultural/forestry/horticultural weed? No] No evidence.
304	2007. Randall, R Global Compendium of Weeds Mammea americana. http://www.hear.org/gcw/species/mammea_americana/	[Environmental weed? No] No evidence.
305	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	[Congeneric weed? No] No evidence.
401	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Produces spines, thorns or burrs? No] "The mamey tree, handsome and greatly resembling the southern magnolia, reaches 60 to 70 ft (18-21 m) in height, has a short trunk which may attain 3 or 4 ft (0.9-1.2 m) in diameter, and ascending branches forming an erect, oval head, densely foliaged with evergreen, opposite, glossy, leathery, dark-green, broadly elliptic leaves, up to 8 in (20 cm) long and 4 in (10 cm) wide. The fragrant flowers, with 4 to 6 white petals and with orange stamens or pistils or both, are 1 to 1 1/2 in (2.5-4 cm) wide when fully open and borne singly or in groups of 2 or 3 on short stalks."

402	2012. WRA Specialist. Personal Communication.	[Allelopathic?] Unknown.
403	2012. USDA, ARS National Genetics Resources Program. Mammea americana Germplasm Resources Information Network (GRIN) [online database]. http://www.ars-grin.gov/cgibin/npgs/html/taxon.pl?23319#syn	[Parasitic? No] Clusiaceae.
404	1962. Oakes, A.J./Butcher, J.O Poisonous and injurous plants of the U.S. Virgin Islands. Agricultural Research Service, U.S. Dept. of Agriculture, http://books.google.com/books?hl=en&lr=&id=K-vGN6QF5JcC&oi=fnd&pg=PA1&dq=mammea+a mericana+%2B+%22dropping	[Unpalatable to grazing animals?] Ordinarily livestock do not consume the large, woody Mammea americana fruits, which enclose poisonous seeds. A greater source of danger is presented by dry seeds lying within reach of hungry animals, particularly hungry hogs.
405	1962. Oakes, A.J./Butcher, J.O Poisonous and injurous plants of the U.S. Virgin Islands. Agricultural Research Service, U.S. Dept. of Agriculture, http://books.google.com/books?hl=en&lr=&id=K-vGN6QF5JcC&oi=fnd&pg=PA1&dq=mammea+americana+%2B+%22dropping	[Toxic to animals? Yes] Ordinarily livestock do not consume the large, woody Mammea americana fruits, which enclose poisonous seeds. A greater source of danger is presented by dry seeds lying within reach of hungry animals, particularly hungry hogs.
405	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Toxic to animals? Yes] "Morris et al. (1952) commented that, while the delicious mamey "has formed part of the diet of the inhabitants of the Caribbean Islands for many generations, it is well known that this fruit produces discomfort, especially in the digestive system, in some persons." They reported also that "a concentrated extract of the fresh fruit" proved fatally toxic to guinea pigs, and was also found poisonous to dogs and cats. The extract was made from the edible portion only. The authors likened the mamey to the akee (Blighia sapida), q.v., as a human hazard, and Djerassi, et al., aver that "reports of poisoning in humans are known."
406	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Host for recognized pests and pathogens? No] Resistant to pests and diseases. A black mildew (Aulographum melioloides) attacks leaves and heart rot infects older trees entering through basal scars. Wet-wood termites attack dead trunks and branches and dry-wood termites attack seasoned lumber.
407	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Causes allergies or is otherwise toxic to humans"? Yes] Morris et al. (1952) commented that, while the delicious mamey "has formed part of the diet of the inhabitants of the Caribbean Islands for many generations, it is well known that this fruit produces discomfort, especially in the digestive system, in some persons." They reported also that "a concentrated extract of the fresh fruit" proved fatally toxic to guinea pigs, and was also found poisonous to dogs and cats. The extract was made from the edible portion only. The authors likened the mamey to the akee (Blighia sapida), q.v., as a human hazard, and Djerassi, et al., stated that "reports of poisoning in humans are known." [edible fruit] [medicinal]
407	1997. Nellis, D.W Poisonous plants and animals of Florida and the Caribbean. Pineapple Press Inc., Sarasota, FL	[Causes allergies or is otherwise toxic to humans"? Yes] The seeds are toxic.
408	2012. WRA Specialist. Personal Communication.	[Creates a fire hazard in natural ecosystems?] Unknown.
109	2012. Horticopia. Mammea americana Mammee Apple, South American Apricot, Mammee. http://www.horticopia.com/hortpix/html/mamame0 00.htm	[Is a shade tolerant plant at some stage of its life cycle?] Partial shade to partial sun to full sun.
409	2012. Tropilab.com. Mammea americana. Tropilab.com, http://www.tropilab.com/mamey.html	[Is a shade tolerant plant at some stage of its life cycle?] Full sun to light shade.
410	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)? Yes] The mamey tree favors deep, rich, well-drained soil, but is quite adaptable to even shallow, sandy terrain, and it grows naturally in limestone areas of Jamaica, as well as oolitic limestone of the Bahamas and southeastern Florida.
411	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Climbing or smothering growth habit? No] Mammea americana is an evergreen tree, 18-21 m tall, with a short trunk that may attain 0.9-1.2 m in diameter, and ascending, densely foliaged branches forming an erect, oval head.

412	2012. WRA Specialist. Personal Communication.	[Forms dense thickets?] Unknown.
501	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Aquatic? No] Terrestrial; tree.
502	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDF S/Mammea_americana.pdf	[Grass? No] Clusiaceae.
503	2010. www.nationmaster.com. Encyclopedia Nitrogen fixation. Nationmaster.com, http://www.nationmaster.com/encyclopedia/Nitrogen-fixation	[Nitrogen fixing woody plant? No] Clusiaceae.
504	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)? No] Tree; woody.
501	2012. WRA Specialist. Personal Communication.	[Evidence of substantial reproductive failure in native habitat? No] No evidence.
602	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Produces viable seed? Yes] "Seeds are the usual means of dissemination and they germinate in 2 months or less and sprout readily in leaf-mulch under the tree."
503	2012. WRA Specialist. Personal Communication.	[Hybridizes naturally?] Unknown.
604	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Self-compatible or apomictic? No] Dioecious (male and female flowers on separate plants]
605	2002. Vozzo, J.A Tropical Tree Seed Manual. USDA Forest Service, Washington, D.C.	[Requires specialist pollinators? No] "The flowers are white with four fleshy petals, many stamens, and a single ovary. The fragrant flowers attract honeybees and hummingbirds."
606	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Reproduction by vegetative fragmentation? No] Grown by seeds or grafting.
606	2002. Vozzo, J.A Tropical Tree Seed Manual. USDA Forest Service, Washington, D.C.	[Reproduction by vegetative fragmentation? No] Mammea americana is propagated primarily by seed or by air-layering.
607	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Minimum generative time (years)? >3] Seedlings bear in 6 to 8 years in Mexico, 8 to 10 years in the Bahamas.
607	2002. Vozzo, J.A Tropical Tree Seed Manual. USDA Forest Service, Washington, D.C.	[Minimum generative time (years)? >3] The trees may fruit at 6 to 7 years.
701	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)? No] "The fruit, nearly round or somewhat irregular, with a short, thick stem and a more or less distinct tip or merely a bristle-like floral remnant at the apex, ranges from 4 to 8 in (10-20 cm) in diameter, is heavy and hard untilfully ripe when it softens slightly. The skin is light-brown or grayish-brown with small, scattered, warty or scurfy areas, leathery, about 1/8 in (3 mm) thick and bitter." Small fruits are usually single-seeded; larger fruits may have 2, 3 or 4 seeds. The seed is russetbrown, rough, ovoid or ellipsoid and about 2 1/2 in (6.25 cm) long."
702	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Propagules dispersed intentionally by people? Yes] "Introduced into the tropics of the Old World, it is of very limited occurrence in West Africa (particularly Sierra Leone), Zanzibar, southeastern Asia, Java, the Philippines, and Hawai.
703	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Propagules likely to disperse as a produce contaminant? No] "The fruit, nearly round or somewhat irregular, with a short, thick stem and a more or less distinct tip or merely a bristle-like floral remnant at the apex, ranges from 4 to 8 in (10-20 cm) in diameter, is heavy and hard untilfully ripe when it softens slightly. The skin is light-brown or grayish-brown with small, scattered, warty or scurfy areas, leathery, about 1/8 in (3 mm) thick and bitter." Small fruits are usually single-seeded; larger fruits may have 2, 3 or 4 seeds. The seed is russetbrown, rough, ovoid or ellipsoid and about 2 1/2 in (6.25 cm) long."

	400=44 · 1 = 1 · 4 · 1 · 1 =	
704	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Propagules adapted to wind dispersal? No "The fruit, nearly round or somewhat irregular, with a short, thick stem and a more or less distinct tip or merely a bristle-like floral remnant at the apex, ranges from 4 to 8 in (10-20 cm) in diameter, is heavy and hard untilfully ripe when it softens slightly. The skin is light-brown or grayish-brown with small, scattered, warty or scurfy areas, leathery, about 1/8 in (3 mm) thick and bitter." Small fruits are usually single-seeded; larger fruits may have 2, 3 or 4 seeds. The seed is russetbrown, rough, ovoid or ellipsoid and about 2 1/2 in (6.25 cm) long."
705	2012. WRA Specialist. Personal Communication.	[Propagules water dispersed?] Unknown.
706	2002. Vozzo, J.A Tropical Tree Seed Manual. USDA Forest Service, Washington, D.C.	[Propagules bird dispersed?] Unknown
707	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Propagules dispersed by other animals (externally)? No] "The fruit, nearly round or somewhat irregular, with a short, thick stem and a more or less distinct tip or merely a bristle-like floral remnant at the apex, ranges from 4 to 8 in (10-20 cm) in diameter, is heavy and hard untilfully ripe when it softens slightly. The skin is light-brown or grayish-brown with small, scattered, warty or scurfy areas, leathery, about 1/8 in (3 mm) thick and bitter." Small fruits are usually single-seeded; larger fruits may have 2, 3 or 4 seeds. The seed is russetbrown, rough, ovoid or ellipsoid and about 2 1/2 in (6.25 cm) long." [no means of external attachment]
708	1962. Oakes, A.J./Butcher, J.O Poisonous and injurous plants of the U.S. Virgin Islands. Agricultural Research Service, U.S. Dept. of Agriculture, http://books.google.com/books?hl=en&lr=&id=K-vGN6QF5JcC&oi=fnd&pg=PA1&dq=mammea+americana+%2B+%22dropping	[Propagules survive passage through the gut?] Ordinarily livestock do not consume the large, woody Mammea americana fruits, which enclose poisonous seeds. A greater source of danger is presented by dry seeds lying within reach of hungry animals, particularly hungry hogs.
801	1987. Morton, J Fruits of warm climates. J.F. Morton, Miami, FL http://www.hort.purdue.edu/newcrop/morton	[Prolific seed production (>1000/m2)? No] "The productivity of individual trees varies considerably. In Puerto Rico, high-yielding trees may bear 150 to 200 fruits per crop, totalling 300 to 400 fruits per year."
802	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Evidence that a persistent propagule bank is formed (>1 yr)?] Seed may be recalcitrant; viability is maintained for 2-4 months in moist storage at 20 deg C.
803	2002. Vozzo, J.A Tropical Tree Seed Manual. USDA Forest Service, Washington, D.C.	[Well controlled by herbicides?] Unknown.
804	2012. World Agroforestry Centre. Agroforestry tree database - Mammea americana. http://www.worldagroforestry.org/treedb2/AFTPDFS/Mammea_americana.pdf	[Tolerates, or benefits from, mutilation, cultivation, or fire? Yes] Coppices well.
805	2012. WRA Specialist. Personal Communication.	[Effective natural enemies present locally (e.g. introduced biocontrol agents)?] Unknown.