

Family: *Malpighiaceae*

Taxon: *Banisteriopsis caapi*

Synonym: *Banisteria caapi* Spruce ex Griseb. (basionym) **Common Name:** soulvine
Banisteria quitensis Nied. caapi
Banisteriopsis inebrians C. V. Morton yage
Banisteriopsis quitensis (Nied.) C. V. Morton ayahuasca

Questionnaire : current 20090513 **Assessor:** Patti Clifford **Designation:** L(Hawai'i)
Status: Assessor Approved **Data Entry Person:** Patti Clifford **WRA Score** 0

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	
407	Causes allergies or is otherwise toxic to humans	y=1, n=0	n
408	Creates a fire hazard in natural ecosystems	y=1, n=0	n
409	Is a shade tolerant plant at some stage of its life cycle	y=1, n=0	

410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	y=1, n=0	
411	Climbing or smothering growth habit	y=1, n=0	y
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	
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	
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	
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/m ²)	y=1, n=-1	
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	0

Supporting Data:

101	2011. WRA Specialist. Personal Communication.	No evidence of domestication.
201	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl	Native distribution: Venezuela; Brazil; Bolivia; Colombia; Ecuador; Peru
202	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl	Native distribution: Venezuela; Brazil; Bolivia; Colombia; Ecuador; Peru
203	2010. Dave's Garden. PlantFiles: Ayahuasca <i>Banisteriopsis caapi</i> <i>Banisteriopsis caapi</i> . Daves' Garden, http://davesgarden.com/guides/pf/go/127403/	USDA Hardiness Zones: 10-11
204	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl	Native distribution: Venezuela; Brazil; Bolivia; Colombia; Ecuador; Peru
205	2010. Pure land Ethnobotanicals. Ayahuasca <i>Banisteriopsis caapi</i> . Pureland Ethnobotanicals.com, http://www.ethnobotanicals.com/ayahuasca-banisteriopsis-caapi.html	Pure land Ethnobotanicals has <i>Banisteriopsis caapi</i> seeds for sale. They state the seed is rare to purchase. They are based in Wisconsin.
205	2011. WRA Specialist. Personal Communication.	No evidence of repeated introductions. [there is a growing global use of this species as a psychoactive herb in recent years]
301	2011. WRA Specialist. Personal Communication.	No evidence of naturalization.
302	2007. Randall, R.P.. Global Compendium of Weeds [Online Database]. http://www.hear.org/gcw/	No evidence.
303	2011. WRA Specialist. Personal Communication.	No evidence.
304	2007. Randall, R.P.. Global Compendium of Weeds [Online Database]. http://www.hear.org/gcw/	No evidence.
305	2007. Randall, R.P.. Global Compendium of Weeds [Online Database]. http://www.hear.org/gcw/	No evidence.
401	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	No spines, thorns, burrs.
402	2011. WRA Specialist. Personal Communication.	Unknown.
403	2010. Nickrent, D.. The parasitic plant connection. Department of Plant Biology, Southern Illinois University, Carbondale http://www.parasiticplants.siu.edu/index.html	Not parasitic.
404	2011. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network (GRIN) [Online Database Index]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi-bin/npgs/html/index.pl	Unknown.

405	2011. WRA Specialist. Personal Communication.	Unknown.
406	2011. WRA Specialist. Personal Communication.	Unknown.
407	2009. Alikhan, S./Mashelkar, R.A.. Intellectual property and competitive strategies in the 21st century. Kluwer Law International, http://books.google.com/books?id=QvKDZ8_YWh8C&pg=PA77&dq=banisteriopsis+caapi&hl=en&ei=9Sc2Tc3FD5P2tgPEs7HuAQ&sa=X&oi=book_	"For generations, shamans of indigenous tribes throughout the Amazon basin processed the bark of <i>Banisteriopsis caapi</i> to produce a ceremonial drink known as 'ayahuasca'" The ayahuasca is used as a drink in religious ceremonies and to diagnose illness.
407	2010. National Center for Biotechnology Information. PubMed. U.S. National Library of Medicine, Bethesda, Maryland http://www.ncbi.nlm.nih.gov/sites/entrez	No toxicity or allergies found in PubMed
408	2011. WRA Specialist. Personal Communication.	Liana
409	2010. Dave's Garden. PlantFiles: Ayahuasca <i>Banisteriopsis caapi</i> <i>Banisteriopsis caapi</i> . Daves' Garden, http://davesgarden.com/guides/pf/go/127403/	Sun Exposure: Full sun; sun to part shade; light shade.
409	2010. Kadas Garden. <i>Banisteriopsis caapi</i> (Yage) Guide. Kadasgarden.com , http://www.kadasgarden.com/Pcaapi.html	Partial shade to full sun.
410	2011. WRA Specialist. Personal Communication.	Unknown.
411	1992. Stafford, P.G./Bigwood, J.. Psychedelics encyclopedia. Ronin Publishing, http://books.google.com/books?id=o4_pLqCOyDsC&dq=Banisteriopsis+caapi&source=gbs_navlink_s_s	" <i>Banisteriopsis caapi</i> climbs up adjacent tropical forest trees and keeps climbing until its flowers are exposed to direct sunlight. It is so greedy for sunlight that sometimes it eventually kills supporting trees."
412	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Liana.
501	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Terrestrial; liana.
502	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Malpighiaceae.
503	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Liana
504	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Liana.
601	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	No evidence.
602	2010. Dave's Garden. PlantFiles: Ayahuasca <i>Banisteriopsis caapi</i> <i>Banisteriopsis caapi</i> . Daves' Garden, http://davesgarden.com/guides/pf/go/127403/	Propagation: From herbaceous stem cuttings From seed; sow indoors before last frost

603	2011. WRA Specialist. Personal Communication.	Unknown.
604	2011. WRA Specialist. Personal Communication.	Unknown.
605	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	"The malpigh flower, designed to attract oil-collecting bees, has one of the most distinctive and constant ground plans of any angiosperm family" [family level description]
606	2010. Dave's Garden. PlantFiles: Ayahuasca <i>Banisteriopsis caapi</i> <i>Banisteriopsis caapi</i> . Daves' Garden, http://davesgarden.com/guides/pf/go/127403/	Propagation: From herbaceous stem cuttings From seed; sow indoors before last frost
607	2011. WRA Specialist. Personal Communication.	Unknown.
701	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Liana with samaras [does not grow in heavily trafficked areas]
702	2009. Tupper, K.W.. Ayahuasca healing beyond the Amazon: the globalization of a traditional indigenous entheogenic practice. Global networks. 9: 1470-2266.	"Outside its native Amazonian habitat, ayahuasca now has a presence in dozens of countries, including in other parts of South America, North America, Europe, Australia and New Zealand, and some parts of Asia. The Brazilian ayahuasca religions, in particular, have presented significant challenges to modern Western liberal democratic states, which attempt simultaneously to uphold punitive drug control laws and to honour constitutionally enshrined principles of religious freedom. In the last decade countries including Australia, France, Germany, Italy, the Netherlands, Spain and the United States have fought legal cases over the religious use of ayahuasca."
702	2010. Pure land Ethnobotanicals. Ayahuasca <i>Banisteriopsis caapi</i> . Pureland Ethnobotanicals.com, http://www.ethnobotanicals.com/ayahuasca-banisteriopsis-caapi.html	Pure lands botanicals has seeds available.
703	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Samara; liana [unlikely doesn't grow with produce]
704	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Samara [wind dispersed]
705	2011. WRA Specialist. Personal Communication.	Unknown.
706	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Samara. [wind dispersed]
707	1993. Gentry, A.H.. A field guide to the families and genera of woody plants of Northwest South America (Colombia, Ecuador, Peru) with supplementary notes on herbaceous taxa. Conservation International, Washington D.C.	Samara. [no mechanism for external attachment]
708	2011. WRA Specialist. Personal Communication.	Unknown.
801	2011. WRA Specialist. Personal Communication.	Unknown.
802	2011. WRA Specialist. Personal Communication.	Unknown.

803 2011. WRA Specialist. Personal Communication. Unknown.

805 2011. WRA Specialist. Personal Communication. Unknown.
