Family: Rubiaceae

Print Date: 3/24/2011

Taxon: Psychotria viridis

Synonym: Palicourea viridis (Ruiz & Pav.) Roem. & Sch. Common Name Chacruna

Psychotria glomerata Kunth Psychotria microdesmia Oerst. Uragoga glomerata (Kunth) Kuntze Uragoga microdesmia (Oerst.) Kuntze Uragoga viridis (Ruiz & Pav.) Kuntze

Que	estionaire :	current 20090513	Assessor: Chu	Chuck Chimera	Designation: L	
Stat	tus:	Assessor Approved	Data Entry Person:	Chuck Chimera	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 specie	s 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" $\frac{1}{2}$			(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 ve	rsatility)		y=1, n=0	n
204	Native or natur	ralized in regions with tropics	al or subtropical climates		y=1, n=0	y
205	Does the specie	s have a history of repeated i	ntroductions outside its nat	ural range?	y=-2, ?=-1, n=0	?
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)		
401	Produces spine	s, thorns or burrs			y=1, n=0	n
402	Allelopathic				y=1, n=0	n
403	Parasitic				y=1, n=0	n
404	Unpalatable to grazing animals				y=1, n=-1	
405	Toxic to animals				y=1, n=0	у
406	Host for recognized pests and pathogens				y=1, n=0	
407	Causes allergie	s or is otherwise toxic to hun	nans		y=1, n=0	y
408	Creates a fire l	nazard 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	V
407	·		у
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	y=1, n=0	n
411	Climbing or smothering growth habit	y=1, n=0	n
412	Forms dense thickets	y=1, n=0	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	y
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 year 4+ years = -1	rs = 0,
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	n
705	Propagules water dispersed	y=1, n=-1	n
706	Propagules bird dispersed	y=1, n=-1	y
707	Propagules dispersed by other animals (externally)	y=1, n=-1	n
708	Propagules survive passage through the gut	y=1, n=-1	y
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 Sco	ore 0

ppor			
101	2009. Plot55.com. Growing Psychotria viridis. http://www.plot55.com/growing/p.viridis.html	"Psychotria viridis is native to the Amazonian lowlands, but is also cultivated throughout northern South America and much of Central America. It is an evergreen tropical tree or large shrub growing in full sun to half shade. It has large (up to 24cm) leaves, which are oval with pointed tips. Its small brown seeds are shed from red berries. It usually grows in very rich and fertile soils." [no evidence]	
102	2009. WRA Specialist. Personal Communication.	NA	
103	2009. WRA Specialist. Personal Communication.	NA	
201	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Psychotria viridis extends from Belize to Bolivia. It also occurs in Cuba."	
202	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Psychotria viridis extends from Belize to Bolivia. It also occurs in Cuba."	
203	2009. Dave's Garden. PlantFiles: Chacruna - Psychotria viridis. http://davesgarden.com/guides/pf/go/92028/	a viridis.	
203	2009. Ethnogarden Botanicals. Chacruna (Psychotria Viridis). http://www.ethnogarden.com/botanicals/live-plants/chacruna-psychotria-viridis-live-plant.html	"These plants like a nutrient-rich, well draining soil, and will thrive and grow rather quickly during the summer months. Temperatures below 65 F are not advisable; this plant will not tolerate frost. Temperatures above 70 F are optimal for growing, with a range of 80-90 F being ideal. These plants prefer partial shade and moist environments."	
204	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Psychotria viridis extends from Belize to Bolivia. It also occurs in Cuba."	
205	2009. EthnoBotanyLabs. Psychotria viridis. http://www.eblabs.com/retail/psychotria_viridis.ht m	"Live Psychotria viridis plants are sometimes offered for sale during the spring summer and fall. If you see the buy link below, we have them in stock. Or try and grow your own by buying some seeds." [live plants and seeds widely available, but unknown how many countries into which this plant has been introduced]	
205	2009. Shaman's Garden. Psychotria Viridis Seeds. http://www.shamansgarden.com/p-250- psychotria-viridis-seeds-chacruna.aspx	"Psychotria viridis Seeds (Chacruna) These are viable, untreated seeds from a small organic farm in Hawaii that provides the well-known Hawaiian Salvia plants. Psychotria viridis (Chacruna) is a shrub in the coffee family."	
301	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	No evidence	
302	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	No evidence	
303	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	No evidence	
304	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	No evidence	
305	1979. Holm, L. G./Pancho, J.V./Herberger, J.P./Plucknett, D.L A Geographical Atlas of World Weeds. John Wiley and Sons, New York, NY	Psychotria alba [listed as a weed]	
305	2007. Randall, R.P Global Compendium of Weeds - Index [Online Database]. http://www.hear.org/gcw/	Psychotria barbiflora (Rubiaceae) [listed as a weed]; Psychotria curviflora [listed as an agricultural weed]; Psychotria nervosa [listed as an agricultural weed]; Psychotria pubescens [listed as an agricultural weed]; Psychotria punctata [listed as a weed]; Psychotria ruelliaefolia [listed as a weed] [no further information on impacts or control efforts on any of the preceding species was found]	
401	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Small trees or shrubs, the twiglets slender, smooth, glabrous or puberulent, terete but ultimately angular, the nodes well spaced."	

402	1975. Standley, P.C./Williams, L.O Flora of Guatemala - Part XI. Numbers 1 to 3. Fieldiana. 24: 1-274.	"Psychotria viridis Ruiz & Pavon, Fl. Peruv. 2: 61, t. 210, f. b. 1799. P. glomerata HBK. Nov. Gen. & Sp. 3: 363. 1820. P. microdesmia Oerst. Vid. Medd. Kjoebenhavn 1852: 36. 1853. Moist or wet thickets or forest, on limestone, 150 m. or less; Peten. Collected at Cocquericot, British Honduras; Costa Rica and Panama; southward to Bolivia and the Guianas; Cuba." [no evidence]
403	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Small trees or shrubs, the twiglets slender, smooth, glabrous or puberulent, terete but ultimately angular, the nodes well spaced." Rubiaceae, not parasitic]
404	1996. Leal, M.B./Elisabetsky, E Absence of alkaloids in Psychotria carthagenensis Jacq. (Rubiaceae). Journal of Ethnopharmacology. 54: 37-40.	"The genus Psychotria is very closely allied to Palicourea (Rubiaceae) (Schultes and Rauffauf, 1990). Several species of Psychotria and Palicourea are reported as fairly to highly toxic, usually affecting cattle. "
104	2009. B and T World Seeds. Psychotria viridis. http://b-and-t-world-seeds.com/carth.asp?species=Psychotria%20viridis&sref=391	"Parts of Psychotria viridis are considered toxic." [plants probably unpalatable, but possible that cattle may ingest plants and become poisoned inadvertently]
105	1996. Leal, M.B./Elisabetsky, E Absence of alkaloids in Psychotria carthagenensis Jacq. (Rubiaceae). Journal of Ethnopharmacology. 54: 37-40.	"The genus Psychotria is very closely allied to Palicourea (Rubiaceae) (Schultes and Rauffauf, 1990). Several species of Psychotria and Palicourea are reported as fairly to highly toxic, usually affecting cattle."
105	2009. B and T World Seeds. Psychotria viridis. http://b-and-t-world-seeds.com/carth.asp?species=Psychotria%20viridis&sref=391	"Parts of Psychotria viridis are considered toxic."
406	2009. WRA Specialist. Personal Communication.	Unknown
407	2009. Dave's Garden. PlantFiles: Chacruna - Psychotria viridis. http://davesgarden.com/guides/pf/go/92028/	"Danger: Parts of plant are poisonous if ingested"
407		
408	1975. Standley, P.C./Williams, L.O Flora of Guatemala - Part XI. Numbers 1 to 3. Fieldiana. 24: 1-274.	"Psychotria viridis Ruiz & Pavon, Fl. Peruv. 2: 61, t. 210, f. b. 1799. P. glomerata HBK. Nov. Gen. & Sp. 3: 363. 1820. P. microdesmia Oerst. Vid. Medd. Kjoebenhavn 1852: 36. 1853. Moist or wet thickets or forest, on limestone, 150 m. or less; Peten. Collected at Cocquericot, British Honduras; Costa Rica and Panama; southward to Bolivia and the Guianas; Cuba." [no evidence, and occurs in moist tropical forests]
109	2009. Dave's Garden. PlantFiles: Chacruna - Psychotria viridis. http://davesgarden.com/guides/pf/go/92028/	"Sun Exposure: Partial to Full Shade Full Shade"
410	2009. B and T World Seeds. Psychotria viridis. http://b-and-t-world-seeds.com/carth.asp?species=Psychotria%20viridis&sref=391	"Psychotria viridis is cultivated in sandy loam - light soils with good drainage"
410	2009. Ethnogarden Botanicals. Chacruna (Psychotria Viridis). http://www.ethnogarden.com/botanicals/live-plants/chacruna-psychotria-viridis-live-plant.html	"These plants like a nutrient-rich, well draining soil,"
410	2009. Plants and Cacti .com. Psychotria Viridis Plants. http://www.plantsandcacti.com/psychotria-viridis-plants.php	"A very rich and fertile free draining soil is best."
411	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Small trees or shrubs, the twiglets slender, smooth, glabrous or puberulent, terete but ultimately angular, the nodes well spaced." [not climbing or smothering]
412	1975. Standley, P.C./Williams, L.O Flora of Guatemala - Part XI. Numbers 1 to 3. Fieldiana. 24: 1-274.	"Psychotria viridis Ruiz & Pavon, Fl. Peruv. 2: 61, t. 210, f. b. 1799. P. glomerata HBK. Nov. Gen. & Sp. 3: 363. 1820. P. microdesmia Oerst. Vid. Medd. Kjoebenhavn 1852: 36. 1853. Moist or wet thickets or forest, on limestone, 150 m. or less; Peten. Collected at Cocquericot, British Honduras; Costa Rica and Panama; southward to Bolivia and the Guianas; Cuba." [no evidence]

501	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	Terrestrial
502	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	Rubiaceae
503	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	Rubiaceae [not a nitrogen fixing woody plant]
504	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Small trees or shrubs, the twiglets slender, smooth, glabrous or puberulent, terete but ultimately angular, the nodes well spaced." [not a geophyte]
501	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	No evidence of substantial reproductive failure in native habitat
502	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Seed dorsal surface with 4-5 deep longitudinal furrows, the ventral surface with 2 deep longitudinal furrows."
502	2009. The Basement Shaman. Psychotria viridis seeds. http://www.basementshaman.com/psycvir1.html	"Fresh, viable seed from one of the most important plants used in the ayahuasca traditions of South America. Psychotria viridis seeds are slow to germinate, but will reward the patient gardener who wants to add this sacred ally to their shamanic garden."
503	2009. WRA Specialist. Personal Communication.	Unknown
604	2009. The Corroboree. is psychotria viridis self-pollinating?. http://www.shaman-australis.com/forum/index.php?showtopic=2434&pid=19460&mode=threaded&start=	"is psychotria viridis self-pollinating? we got seed from a set of plants that were all clones of each other, so they are definitely self fertile."
605	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Inflorescences terminal, spreading, paniculate, usually shorter than the uppermost leaves; peduncles 2-3 cm long, angular, glabrate, the rachis zigzag, the branches few, usually opposite, the flowers disposed in well separated, few flowered glomerules giving a spikelike appearance, the bracts caducous. Flowers sessile, minute; hypanthium short, rounded basally, puberulent, the calycine cup scarcely measurable, truncate, the teeth absent; corolla greenish white or white, the lobes 5, deltoid, apparently longer than the tube, to 1 mm long, densely white villose within; anthers subsessile, oblong, 0.35 mm long; ovarian disc compressed rotund, 0.6 mm long, the style ca. 0.4 mm long, conspicuously swollen above the middle, the stigmas ca. 0.15 mm long." [small, unspecialized flowers]
606	2009. Wikipedia.org. Psychotria viridis. http://en.wikipedia.org/wiki/Psychotria_viridis	"Cultivation from cuttings is easiest.[5] A single leaf (or even part of a leaf slightly covered with soil) can be sufficient for a cutting.[5] Propagation from seed is extremely difficult. The germination rate can be as low as 1%.[5] There are approximately 50 seeds/g." [no evidence]
607	2009. Ethnobotanical Gardening Forum. Subject: Re: Psychotria viridis: fast grower?. http://www.lycaeum.org/forums/egarden/Messages/1014.html	"Plants were kept in a high humidity environment and even began to form roots on the underside of the leaves. Survival was fine in Southern California climate, but growth was slow. High humidity required for new leaf development and overall health. The plants are about 1 year old and stand 12 cm tall."
607	2009. Herbalistics. Psychotria viridis - Chacruna (seed). http://www.herbalistics.com.au/shop/product_info.php?products_id=467&osCsid=xaupeplryaj	"Relatively fast growing, Psychotria viridis prefers a shady, moist, well-drained site." [possibly <4 years to reproductive maturity, but unknown]
701	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate." [genus description]

701	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Fruits when dry ellipsoidal, 4.5-5 mm long, 3-3.5 mm diam., maturing red, drying red brown" [no means of external attachment]
702	2009. Bouncing Bear Botanicals. Chacruna. http://www.bouncingbearbotanicals.com/chacruna-p-114.html	"We offer Chacruna Seeds sustainably harvested from Peru and dried foliage from Hawaii and Peru." [sold for propagation and medicinal uses]
703	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate."[genus description]
703	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Fruits when dry ellipsoidal, 4.5-5 mm long, 3 3.5 mm diam., maturing red, drying red brown" [no evidence that plant is grown with or contaminates other produce]
704	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate." [genus description]
704	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Fruits when dry ellipsoidal, 4.5-5 mm long, 3-3.5 mm diam., maturing red, drying red brown"
705	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate." [genus description]
705	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Fruits when dry ellipsoidal, 4.5-5 mm long, 3 3.5 mm diam., maturing red, drying red brown" [no evidence]
706	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate." [genus description]
706	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Fruits when dry ellipsoidal, 4.5-5 mm long, 3-3.5 mm diam., maturing red, drying red brown "
707	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate." [genus description]
707	1989. Hamilton, C.W A Revision of Mesoamerican Psychotria Subgenus Psychotria (Rubiaceae). Part I: Introduction and Species 1-16. Annals of the Missouri Botanical Garden. 76(1): 67-111.	"Fruits when dry ellipsoidal, 4.5-5 mm long, 3-3.5 mm diam., maturing red, drying red brown" [no evidence and no means of external attachment]
708	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Fruits fleshy, the flesh usually soon deciduous exposing 2 pyrenes, the endocarp of the pyrene ventrally flat or grooved, dorsally costate or ecostate, the testa thin, the albumen hard, sometimes ruminate." [genus description]
708	2009. The Basement Shaman. Psychotria viridis seeds. http://www.basementshaman.com/psycvir1.html	:Fruits when dry ellipsoidal, 4.5-5 mm long, 3-3.5 mm diam., maturing red, drying red brown"

801	1980. Woodson, Jr., R.E./Schery, R.W./Dwyer, J.D Flora of Panama. Part IX. Family 179. Rubiaceae. Part 2. Annals of the Missouri Botanical Garden. 67(2): 257-522.	"Small trees or shrubs, the twiglets slender, smooth, glabrous or puberulent, terete but ultimately angular, the nodes well spacedInflorescences terminal, spreading, paniculate, usually shorter than the uppermost leaves; peduncles 2-3 cm long, angular, glabrate, the rachis zigzag, the branches few, usually opposite, the flowers disposed in well separated, few-flowered glomerules giving a spikelike appearance, the bracts caducous. Flowers sessile, minute; hypanthium short, rounded basally, puberulent, the calycine cup scarcely measurable, truncate, the teeth absent; corolla greenish white or white, the lobes 5, deltoid, apparently longer than the tube, to 1 mm long, densely white villose within; anthers subsessile, oblong, 0.35 mm long; ovarian disc compressed rotund, 0.6 mm long, the style ca. 0.4 mm long, conspicuously swollen above the middle, the stigmas ca. 0.15 mm long." [no evidence, and trees relatively small statured]
802	2009. Dave's Garden. PlantFiles: Chacruna - Psychotria viridis. http://davesgarden.com/guides/pf/go/92028/	"Seed Collecting: Remove fleshy coating on seeds before storing. Allow unblemished fruit to ripen; clean and dry seeds. Seed does not store well; sow as soon as possible"
802	2009. World Seed Supply. Growing Psychotria Viridis from Seed and Cuttings. http://worldseedsupplydotnet.blogspot.com/2009/10/growing-psychotria-viridis-from-seed.html	"Psychotria viridis and its relatives are notoriously hard to grow from seed. The seeds are generally only viable for a few months, and germination tends to be very slow. With such a long germination period and the presence of fruit around the seeds, Psychotria viridis seeds are prone to rot. For the sake of freshness, it is ideal to have seeds in the berry, although seeds that have been removed are fine too. If you are starting out with your Psychotria seeds in the fruit, you will want to remove all of the fruit from the outside of the seed."
803	2009. WRA Specialist. Personal Communication.	Unknown [no information on control]
804	2009. WRA Specialist. Personal Communication.	Unknown
805	2009. WRA Specialist. Personal Communication.	Unknown