Family: Malvaceae

Print Date: 6/27/2013

Taxon: Grewia truncata

Synonym: Grewia nodisepala K.Schum. Common Name: mlima

Grewia retusa Chiov.

mdomoko

Grewii	i reiusa Chiov.		maomoko		
	current 20090513 Assessor Approved	Assessor: Data Entry Person:	Assessor Assessor	Designation: E WRA Score 5	VALUATE
Is the species his	ghly domesticated?			y=-3, n=0	n
Has the species	become naturalized where g	rown?		y=1, n=-1	
Does the species	have weedy races?			y=1, n=-1	
			y wet habitat, then	(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
Quality of clima	te match data			(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
Broad climate s	uitability (environmental ve	rsatility)		y=1, n=0	y
Native or natura	alized in regions with tropic	al or subtropical climates		y=1, n=0	y
Does the species	have a history of repeated i	introductions outside its nat	ural range?	y=-2, ?=-1, n=0	n
Naturalized bey	ond native range			y = 1*multiplier (see Appendix 2), n= question 205	y
Garden/amenity	//disturbance weed			n=0, y = 1*multiplier (see Appendix 2)	n
Agricultural/for	estry/horticultural weed			n=0, y = 2*multiplier (see Appendix 2)	n
Environmental	weed			n=0, y = 2*multiplier (see Appendix 2)	n
Congeneric wee	d			n=0, y = 1*multiplier (see Appendix 2)	y
Produces spines	, thorns or burrs			y=1, n=0	n
Allelopathic				y=1, n=0	
Parasitic				y=1, n=0	n
Unpalatable to g	grazing animals			y=1, n=-1	n
Toxic to animals	S			y=1, n=0	n
Host for recogni	ized pests and pathogens			y=1, n=0	
Causes allergies	or is otherwise toxic to hum	nans		y=1, n=0	n
Creates a fire ha	azard in natural ecosystems			y=1, n=0	
Is a shade tolera	ant plant at some stage of its	life cycle		y=1, n=0	
Tolerates a wide	e range of soil conditions (or	limestone conditions if not	a volcanic island)	y=1, n=0	
Tolerates a with	· - ·· 8 · · - · · · · · · · · · · · · · · · · ·			•	
1	Is the species his Has the species Does the species Species suited to substitute "wet Quality of clima Broad climate st Native or natura Does the species Naturalized bey Garden/amenity Agricultural/for Environmental Congeneric wee Produces spines Allelopathic Parasitic Unpalatable to a Toxic to animals Host for recognic	tus: Assessor Approved Is the species highly domesticated? Has the species become naturalized where g Does the species have weedy races? Species suited to tropical or subtropical clin substitute "wet tropical" for "tropical or su Quality of climate match data Broad climate suitability (environmental ve Native or naturalized in regions with tropic Does the species have a history of repeated in Naturalized beyond native range Garden/amenity/disturbance weed Agricultural/forestry/horticultural weed Environmental weed Congeneric weed Produces spines, thorns or burrs Allelopathic Parasitic Unpalatable to grazing animals Toxic to animals Host for recognized pests and pathogens Causes allergies or is otherwise toxic to hun Creates a fire hazard in natural ecosystems	estionaire: current 20090513 Assessor: tus: Assessor Approved Data Entry Person: Is the species highly domesticated? Has the species become naturalized where grown? Does the species have weedy races? Species suited to tropical or subtropical climate(s) - If island is primaril substitute "wet tropical" for "tropical or subtropical" Quality of climate match data Broad climate suitability (environmental versatility) Native or naturalized in regions with tropical or subtropical climates Does the species have a history of repeated introductions outside its nat Naturalized beyond native range Garden/amenity/disturbance weed Agricultural/forestry/horticultural weed Environmental weed Congeneric weed Produces spines, thorns or burrs Allelopathic Parasitic Unpalatable to grazing animals Toxic to animals	tus: Assessor Approved Data Entry Person: Assessor tus: Assessor Approved Data Entry Person: Assessor Is the species highly domesticated? Has the species become naturalized where grown? Does the species have weedy races? Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical" Quality of climate match data Broad climate suitability (environmental versatility) Native or naturalized in regions with tropical or subtropical climates Does the species have a history of repeated introductions outside its natural range? Naturalized beyond native range Garden/amenity/disturbance weed Agricultural/forestry/horticultural weed Environmental weed Congeneric weed Produces spines, thorns or burrs Allelopathic Parasitic Unpalatable to grazing animals Toxic to animals Host for recognized pests and pathogens Causes allergies or is otherwise toxic to humans Creates a fire hazard in natural ecosystems	Sestionaire: current 20090513 Assessor: Assessor WRA Score 5 Is the species highly domesticated? y=1, n=1 Does the species have weedy races? y=1, n=1 Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then (0-low; 1-intermediate; 2-high) (See Appendix 2) Broad climate match data (0-low; 1-intermediate; 2-high) (See Appendix 2) Broad climate suitability (environmental versatility) y=1, n=0 Native or naturalized in regions with tropical or subtropical climates y=1 + n=0 Naturalized beyond native range y=1 **multiplier (see Appendix 2) Garden/amenity/disturbance weed y=1 **multiplier (see Appendix 2) Environmental weed n=0, y=2 **multiplier (see Appendix 2) Environmental weed n=0, y=2 **multiplier (see Appendix 2) Produces spines, thorns or burrs purpose y=1, n=0 Allelopathic y=1, n=0 Unpalatable to grazing animals y=1, n=0 Unpalatable to grazing animals y=1, n=0 Causes allergies or is otherwise toxic to humans y=1, n=0 Creates a fire hazard in natural ecosystems y=1, n=0 Y=1, n=0

412	Forms dense thickets	y=1, n=0	y	_
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, corn	ns, 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		
607	Minimum generative time (years)	1 year = 1, 4+ years =	2 or 3 years = 0, -1	
701	Propagules likely to be dispersed unintentionally (plants growing in he areas)	avily trafficked y=1, n=-1		
702	Propagules dispersed intentionally by people	y=1, n=-1		
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		
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		
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 ag	y=-1, n=1		
	Ι	Designation: EVALUATE	WRA Score 5	

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101	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Is the species highly domesticated? No] No evidence	
102	2013. WRA Specialist. Personal Communication.	NA	
103	2013. WRA Specialist. Personal Communication.	NA	
201	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Species suited to tropical or subtropical climate(s) 2- High] "Kenya Tanzania Malawi and Mozambique"	
202	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Quality of climate match data 2-High]	
203	2013. Conservatoire et Jardin botaniques & South African National Biodiversity Institute. African Plant Database - Grewia truncata Mast http://www.ville-ge.ch/musinfo/bd/cjb/africa/details.php?langue=ar &id=121770 [Accessed 27 June 2013]	[Broad climate suitability (environmental versatility)? Yes] "Riverine plant, sometimes thicket-forming; also coastal; 1-500 m alt.; inland 900-1200 m alt." [Environmental versatility - elevation range exceeds 1000 m]	
204	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Native or naturalized in regions with tropical or subtropical climates? Yes] "Kenya Tanzania Malawi and Mozambique"	
205	2013. WRA Specialist. Personal Communication.	[Does the species have a history of repeated introductions outside its natural range? No evidence] Apparently not widely cultivated outside native range	
301	2012. Sand, J Honolulu Botanical Gardens. Pers. Comm. 16 Oct. 2012.	[Naturalized beyond native range? Yes. Sparingly] "it is naturalizing at Koko Crater. We are controlling it and have removed mother plants."	
301	2013. Lau, A./Frohlich, D New plant records for the Hawaiian Islands 2011–2012. Bishop Museum Occasional Papers. 114: 5–16.		
302	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Garden/amenity/disturbance weed? No evidence]	
302	2013. WRA Specialist. Personal Communication.	[Garden/amenity/disturbance weed? No evidence] Lack of information on weed status may be due to limited cultivation outside native range	
303	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Agricultural/forestry/horticultural weed? No] No evidence	
303	2013. WRA Specialist. Personal Communication.	[Agricultural/forestry/horticultural weed? No evidence] Lack of information on weed status may be due to limited cultivation outside native range	
304	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Environmental weed? No] No evidence	
304	2013. WRA Specialist. Personal Communication.	[Environmental weed? No evidence] Lack of information on weed status may be due to limited cultivation outside native range	

305	2011. Queensland Government. Weeds of Australia - Grewia, Grewia asiatica. http://keyserver.lucidcentral.org/weeds/data/03030800-0b07-490a-8d04-0605030c0f01/media/Html/Grewia_asiatica.htm [Accessed 15 Oct 2012]	[Congeneric weed? Yes] "Grewia (Grewia asiatica) is regarded as an environmental weed in the Northern Territory and Queensland. It is listed as a priority environmental weed in two Natural Resource Management regions. This species invades natural woodland communities, changing the structure and processes of the systems. It is thought to pose a significant threat to the biodiversity of the tropical savannas and rangelands of northern Australia. Grewia (Grewia asiatica) is believed to be reasonably widespread in northern Queensland, with specimens being collected from the Collinsville, Townsville, Mackay, Ayr, Laura and Cooktown districts. It has invaded woodlands in the drier parts of the Cape York Peninsula, particularly in the Laura Lakefield area. In the Townsville region it grows in disturbed areas in eucalypt woodlands which are subject to frequent fires. At Laura, it grows in eucalypt and melaleuca woodlands or open forest and is particularly vigorous in riparian areas near the Laura River. Grewia (Grewia asiatica) is listed as a high priority weed species in the Cook Shire and as a medium priority pest species in the Townsville City Council local authority area. In the Northern Territory, grewia (Grewia asiatica) is a significant weed in the Daly Basin region and is also present in the Finnis and Adelaide River catchments. It has also invaded conservation areas in northern Queensland and the Northern Territory (e.g. Casuarina Coastal Reserve)."
305	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Congeneric weed? Yes] Several Grewia are listed as naturalized and/or weeds
401	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Produces spines, thorns or burrs? No] "Shrub to 5 m tall: young branches stellate-pubescent. Leaves oblong to obovate-oblong with an irregular outline"
402	2008. Batish, D.R./Singh, H.P./Kohli, R.K Allelopathic Tree—Crop Interactions under Agroforestry Systems. Pp 37-50 in D.R. Batish et al. (eds.) Ecological basis of agroforestry. CRC Press, Boca Raton, FL	[Allelopathic? Unknown. Other Grewia species may have allelopathic properties] "A number of studies have shown that mulches and prunings of trees may release allelochemicals and thus suppress crop growth. Kamara et al. (1999) studied the effect of leaf extracts and mulch from 5 year old multipurpose trees (MPTs)" [Includes Grewia pubescens]
403	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Parasitic? No evidence] "Shrub to 5 m tall" [Malvaceae subfamily: Grewioideae. Also placed in: Tiliaceae]
404	2004. Tews, J./Schurr, F./Jeltsch, F Seed dispersal by cattle may cause shrub encroachment of Grewia flava on southern Kalahari rangelands. Applied Vegetation Science. 7: 89-102.	[Unpalatable to grazing animals? Probably No based on palatability of related species] "Cattle negate this dispersal limitation by browsing on the foliage of Grewia and dispersing seeds into the grassland matrix." "The palatable shoots and foliage of Grewia are important fodder for domestic livestock (Watt & Breyer-Brandwijk 1962)."
404	2007. Medley, K.E./Kalibo, H.W Ethnobotanical survey of wild woody plant resources at mount kasigau, Kenya. Journal of East African Natural History. 96(2): 149-186.	[Unpalatable to grazing animals? No] "Fruits edible; leaves eaten by goats"
405	2004. Tews, J./Schurr, F./Jeltsch, F Seed dispersal by cattle may cause shrub encroachment of Grewia flava on southern Kalahari rangelands. Applied Vegetation Science. 7: 89-102.	[Toxic to animals? No evidence in related species] "Cattle negate this dispersal limitation by browsing on the foliage of Grewia and dispersing seeds into the grassland matrix."
405	2008. Wagstaff, D.J International poisonous plants checklist: an evidence-based reference. CRC Press, Boca Raton, FL	[Toxic to animals? No evidence]
406	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	[Host for recognized pests and pathogens? Potentially] "The leaves of all species of Grewia are badly damaged by Chinese rose beetle, sometimes to the point of skeletonizing the majority of leaves on a plant." [A widespread pest of Malvaceae]
407	2007. Medley, K.E./Kalibo, H.W Ethnobotanical survey of wild woody plant resources at mount kasigau, Kenya. Journal of East African Natural History. 96(2): 149-186.	[Causes allergies or is otherwise toxic to humans? No] "Fruits edible; leaves eaten by goats; bark can be used to treat diarrhea; firewood."
407	2008. Wagstaff, D.J International poisonous plants checklist: an evidence-based reference. CRC Press, Boca Raton, FL	[Causes allergies or is otherwise toxic to humans? No evidence]
407	2009. Kokwaro, J.O Medicinal plants of East	[Causes allergies or is otherwise toxic to humans? No evidence] "Roots used for snake bite treatment. The roots can be chewed or pounded and soaked in water."

408	2013. Kew Databases. Flora Zambesiaca - Taxon Detail: Grewia truncata. http://apps.kew.org/efloras/search.do [Accessed 27 June 2013]	[Creates a fire hazard in natural ecosystems? Unknown] "Riverine species, sometimes thicket-forming." [Thicket formation may increase risk of fire due to increased fuel load]	
409		[Is a shade tolerant plant at some stage of its life cycle? Unknown]	
410	2013. Conservatoire et Jardin botaniques & South African National Biodiversity Institute. African Plant Database - Grewia truncata Mast http://www.ville-ge.ch/musinfo/bd/cjb/africa/details.php?langue=an &id=121770 [Accessed 27 June 2013]	[Tolerates a wide range of soil conditions? Unknown] "Riverine plant, sometimes thicket-forming; also coastal; 1-500 m alt.; inland 900-1200 m alt." [Broad elevational distribution suggests that this plant may be able to tolerate many soil types]	
411	2013. Kew Databases. Flora Zambesiaca - Taxon Detail: Grewia truncata. http://apps.kew.org/efloras/search.do [Accessed 27 June 2013]	[Climbing or smothering growth habit? No] "Shrub or small tree up to 6 m. tall, with pubescent branchlets."	
412	2013. Conservatoire et Jardin botaniques & South African National Biodiversity Institute. African Plant Database - Grewia truncata Mast http://www.villege.ch/musinfo/bd/cjb/africa/details.php?langue=an&id=121770 [Accessed 27 June 2013]	[Forms dense thickets? Yes] "Riverine plant, sometimes thicket-forming"	
412	2013. Kew Databases. Flora Zambesiaca - Taxon Detail: Grewia truncata. http://apps.kew.org/efloras/search.do [Accessed 27 June 2013]	[Forms dense thickets? Yes] "Riverine species, sometimes thicket-forming."	
501	2013. Kew Databases. Flora Zambesiaca - Taxon Detail: Grewia truncata. http://apps.kew.org/efloras/search.do [Accessed 27 June 2013]	[Aquatic? No] "Riverine species, sometimes thicket-forming."	
502	2010. The Plant List. Version 1. http://www.theplantlist.org/	[Grass? No] Malvaceae [Formerly Tiliaceae]	
503	2010. The Plant List. Version 1. http://www.theplantlist.org/	[Nitrogen fixing woody plant? No] Malvaceae [Formerly Tiliaceae]	
504	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)? No] "Shrub to 5 m tall; young branches stellate pubescent. Leaves oblong to obovate oblong with an irregular outline, 3–15 cm long, 2.1–9.2 cm wide, broadly obtuse to truncate or emarginate, sometimes deeply so, at the apex, rounded to truncate at the base, irregularly coarsely serrate to crenate, with scattered stellate hairs above, stellate-pubescent beneath, papyraceous; petiole 3–10 mm long, stellate-pubescent; stipules linear-lanceolate, 5–7 mm long."	
601	2013. Conservatoire et Jardin botaniques & South African National Biodiversity Institute. African Plant Database - Grewia truncata Mast http://www.ville-ge.ch/musinfo/bd/cjb/africa/details.php?langue=an&id=121770 [Accessed 27 June 2013]	abase - Grewia truncata Mast v.ville- sinfo/bd/cjb/africa/details.php?langue=an	
602	2013. Lau, A./Frohlich, D New plant records for the Hawaiian Islands 2011–2012. Bishop Museum Occasional Papers. 114: 5–16.	[Produces viable seed? Yes] "it was seen naturalized on Oahu with a very scattered, low density distribution over a large area in a dry, lowland tuff cone crater among Leucaena leucocephala scrub vegetation." "Material examined. O'AHU: Koko Crater Botanical Garden. Saplings, seedlings, matures scattered along slope above Madagascar section in Leucaena-dominated scrub."	
603	2008. Louppe, D./Oteng-Amoako, A.A./Brink, M Timbers 1: volume 7 of Plant Resources of Tropical Africa. PROTA, Wageningen, Netherlands	[Hybridizes naturally? Unknown, but interspecific hybridization documented in genus] "Grewia bicolor is extremely variable, and it hybridizes freely with Grewia monticola Sond."	
604	1940. East, E.M The distribution of self-sterility in the flowering plants. Proceedings of the American Philosophical Society. 82: 449-518.	[Self-compatible or apomictic? Unknown for. G. truncata] "Genera where one or more species are known to be self-fertile are Elaeocarpus, Slonea, Muntingia, Aristotelia, Apeiba, Grewia, Luehea, Tilia, and Triumfetta"	
605	2002. Kubitzki, K./Bayer, C. (eds.). The Families and genera of vascular plants. Volume V. Flowering Plants. Dicotyledons: Capparales, Malvales and Non-betalain Caryophyllales. Springer-Verlag, Berlin, Heidelberg, New York	[Requires specialist pollinators? No evidence] "In Grewioideae the relatively small-flowered genera, which have nectaries at the adaxial petal bases, point to bee pollination. The only pertinent report is from Zietsman (1991), who found the South African Grewia occidentalis pollinated mainly be Apis mellifera and two Xylocopa." [No evidence based on generic characteristics]	

606	2004. Tews, J./Moloney, K./Jeltsch, F Modeling seed dispersal in a variable environment: a case study of the fleshy-fruited savanna shrub Grewia flava. Ecological Modelling. 175: 65-76.	[Reproduction by vegetative fragmentation? Unknown. Related species can spread clonally] "Grewia plants are noted for clonal, multi-stemmed growth forms (Schurr, 2001)."
607	2012. Shoot Gardening. Grewia occidentalis (African starbush). http://www.shootgardening.co.uk/plant/grewia-occidentalis [Accessed 15 Oct 2012]	[Minimum generative time (years)? Unknown for G. truncata] "Grewia occidentalis" "2-5 years to maturity" [Probably similar rate of growth and time to maturity]
701	2011. Queensland Government. Weeds of Australia - Grewia, Grewia asiatica. http://keyserver.lucidcentral.org/weeds/data/03030 800-0b07-490a-8d04- 0605030c0f01/media/Html/Grewia_asiatica.htm [Accessed 15 Oct 2012]	[Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)? Possibly due to ability of related species to be dispersed as garden waste] "Grewia asiatica" "This species reproduces by seed. The seeds are spread when they are ingested and expelled intact by birds and other animals. They may also be spread as ornamental plantings, in dumped garden waste, and by floodwaters."
702	2013. WRA Specialist. Personal Communication.	[Propagules dispersed intentionally by people? Possibly] May be cultivated ornamentally, but on a limited basis
703	2013. WRA Specialist. Personal Communication.	[Propagules likely to disperse as a produce contaminant? No] No evidence, and unlikely to be cultivated with produce
704	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Propagules adapted to wind dispersal? No] "Fruit (1-)4-lobed, 10-15 mm wide, the lobes 6 9 mm long, 5-8 mm wide, covered with long hairs with a small wart at their base, green with pale dots." [Grewia are fleshy-fruited drupes]
705	2013. Kew Databases. Flora Zambesiaca - Taxon Detail: Grewia truncata. http://apps.kew.org/efloras/search.do [Accessed 27 June 2013]	[Propagules water dispersed? Possibly. Distributed along rivers] "Riverine species, sometimes thicket-forming."
706	2001. Whitehouse, C./Cheek, M./Andrews, S./Verdcourt, B Flora of Tropical East Africa - Tiliaceae & Muntingiaceae. A.A. Balkema, Rotterdam, Netherlands	[Propagules bird dispersed? Presumably Yes] "Fruit (1-)4-lobed, 10-15 mm wide, the lobes 6-9 mm long, 5-8 mm wide, covered with long hairs with a small wart at their base, green with pale dots." [Grewia are fleshy-fruited drupes]
707	2013. Kew Databases. Flora Zambesiaca - Taxon Detail: Grewia truncata. http://apps.kew.org/efloras/search.do [Accessed 27 June 2013]	[Propagules dispersed by other animals (externally)? No] "Fruit (1–)4-lobed, 10–15 mm wide, the lobes 6–9 mm long, 5–8 mm wide, covered with long hairs with a small wart at their base, green with pale dots." [Fruits lack means of external attachment, and species in genus are largely adapted for internal dispersal by birds and mammals]
708	2004. Tews, J./Schurr, F./Jeltsch, F Seed dispersal by cattle may cause shrub encroachment of Grewia flava on southern Kalahari rangelands. Applied Vegetation Science. 7: 89-102.	[Propagules survive passage through the gut? Presumably Yes] "Grewia flava" "In addition, dung pads of cattle are known to contain considerable amounts of Grewia seeds (Schurr 2001)." [Morphology of G. truncata fruit suggests a similar dispersal syndrome]
801	Detail: Grewia truncata.	[Prolific seed production (>1000/m2)? No] "Shrub to 5 m tall; young branches stellate pubescent." " Fruit (1–)4-lobed, 10–15 mm wide, the lobes 6–9 mm long, 5–8 mm wide, covered with long hairs with a small wart at their base, green with pale dots." [Unlikely, given size of plants and fruit size]
302	2008. Royal Botanic Gardens Kew. Seed Information Database (SID). Version 7.1. http://data.kew.org/sid/	[Evidence that a persistent propagule bank is formed (>1 yr)? Unknown] Several Grewia species possess orthodox seed storage
803	2013. WRA Specialist. Personal Communication.	[Well controlled by herbicides? Unknown] No information on herbicide efficacy or chemical control of this species
804	2004. Tews, J./Schurr, F./Jeltsch, F Seed dispersal by cattle may cause shrub encroachment of Grewia flava on southern Kalahari rangelands. Applied Vegetation Science. 7: 89-102.	[Tolerates, or benefits from, mutilation, cultivation, or fire? Possibly Yes based on response to fire of related species] "In the wet season following a fire, shrub cover of matrix individuals is reduced by 50% (with no fruit production) and reaches the pre fire value in the year after. This describes the quick resprouting of Grewia from basal parts (Skarpe 1980; Gandar 1982)."
804	2005. Staples, G.W./Herbst, D.R A Tropical Garden Flora - Plants Cultivated in the Hawaiian Islands and Other Tropical Places. Bishop Museum Press, Honolulu, HI	[Tolerates, or benefits from, mutilation, cultivation, or fire? Possibly Yes based on response to pruning of a related species] "Grewia occidentalis" "The scrambling habit requires vigorous pruning to keep it compact"
805	2013. WRA Specialist. Personal Communication.	[Effective natural enemies present locally (e.g. introduced biocontrol agents)?

Summary of Risk Traits

High Risk / Undesirable Traits

- Sparingly Naturalized in Koko Crater, Oahu, Hawaiian Islands
- Thrives in tropical climates
- Related species can become weedy
- Often forming thickets near streams in native range of Africa
- Seeds dispersed internally by birds and other mammals
- Biology and ecology poorly understood. Assessment could change as more information becomes available

Low Risk / Desirable Traits

- No reports of negative impacts or invasiveness elsewhere
- Unarmed (no spines, thorns, or burrs)
- Non-toxic
- Landscaping and ornamental value