

Taxon: *Osmoxylon novoguineense* (Scheff.) Becc.

Family: Araliaceae

Common Name(s): fuzzy wrinkle
miagos bush
old man's hand
Osmoxylon

Synonym(s): *Boerlagiodendron novoguineense*
Trevesia novoguineensis Scheff.

Assessor: Chuck Chimera

Status: Assessor Approved

End Date: 19 May 2016

WRA Score: 2.0

Designation: EVALUATE

Rating: Evaluate

Keywords: Tropical, Tree / Shrub, Ornamental, Fleshy-fruit, Bird-dispersed

Qsn #	Question	Answer Option	Answer
101	Is the species highly domesticated?	y=-3, n=0	n
102	Has the species become naturalized where grown?		
103	Does the species have weedy races?		
201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
202	Quality of climate match data	(0-low; 1-intermediate; 2-high) (See Appendix 2)	High
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?	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)	n
401	Produces spines, thorns or burrs	y=1, n=0	n
402	Allelopathic		
403	Parasitic	y=1, n=0	n
404	Unpalatable to grazing animals		
405	Toxic to animals	y=1, n=0	n
406	Host for recognized pests and pathogens		
407	Causes allergies or is otherwise toxic to humans	y=1, n=0	n
408	Creates a fire hazard in natural ecosystems	y=1, n=0	n

Qsn #	Question	Answer Option	Answer
409	Is a shade tolerant plant at some stage of its life cycle		
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)		
411	Climbing or smothering growth habit	y=1, n=0	n
412	Forms dense thickets		
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		
604	Self-compatible or apomictic		
605	Requires specialist pollinators		
606	Reproduction by vegetative fragmentation		
607	Minimum generative time (years)		
701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)		
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)		
708	Propagules survive passage through the gut	y=1, n=-1	y
801	Prolific seed production (>1000/m ²)		
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)		

Supporting Data:

Qsn #	Question	Answer
101	Is the species highly domesticated?	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	No evidence of domestication

102	Has the species become naturalized where grown?	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	NA

103	Does the species have weedy races?	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	NA

201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, then substitute "wet tropical" for "tropical or subtropical"	High
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Distr. Solomon Is.; in Malesia: throughout New Guinea and in the Bismarck Archipelago."

202	Quality of climate match data	High
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	

203	Broad climate suitability (environmental versatility)	y
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Found in tropical climates, but elevation range exceeds 1000 m, demonstrating environmental versatility] "Ecol. Primary and second-growth forest, from sea-level to 1600 m."

Qsn #	Question	Answer
204	Native or naturalized in regions with tropical or subtropical climates	y
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Distr. Solomon Is.; in Malesia: throughout New Guinea and in the Bismarck Archipelago."

205	Does the species have a history of repeated introductions outside its natural range?	?
	Source(s)	Notes
	Top Tropicals. 2016. <i>Osmoxylon novoguineense</i> . https://toptropicals.com/catalog/uid/Osmoxylon_novoguineense.htm . [Accessed 18 May 2016]	"This extremely rare plant has the largest leaf in Aralia family." [Cultivated, but unknown how often it has been planted outside its native range]
	Imada, C.T., Staples, G.W. & Herbst, D.R. 2005. Annotated Checklist of Cultivated Plants of Hawai'i. http://www2.bishopmuseum.org/HBS/botany/cultivatedplants/ . [Accessed 18 May 2016]	<i>Osmoxylon novoguineense</i> (Scheffer) Beccari (Confirmed) Synonyms: Syn. <i>Boerlagiodendron novoguineense</i> (Scheffer) Harms First Collected: 1986 Locations: Pacific Tropical Botanical Garden (now National Tropical Botanical Garden) Waimea Arboretum & Botanical Garden (Confirmed)

301	Naturalized beyond native range	n
	Source(s)	Notes
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	No evidence
	Wagner, W.L., Herbst, D.R. & Lorence, D.H. 2016. Flora of the Hawaiian Islands. Smithsonian Institution, Washington, D.C. http://botany.si.edu/pacificislandbiodiversity/hawaiianflora/index.htm . [Accessed]	No evidence

302	Garden/amenity/disturbance weed	n
	Source(s)	Notes
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	No evidence

303	Agricultural/forestry/horticultural weed	n
	Source(s)	Notes
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	No evidence

Qsn #	Question	Answer
304	Environmental weed	n
	Source(s)	Notes
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	No evidence

305	Congeneric weed	n
	Source(s)	Notes
	Randall, R.P. 2012. A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	No evidence

401	Produces spines, thorns or burrs	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[No evidence] "Tree or shrub, unbranched or sparingly branched, up to 16 m, the young parts rufous-furfuraceous, glabrescent. Large leaves forming terminal crowns; petiole up to 1 m, stout (1-2 cm broad), flattened above, with a sheathing base prolonged as a strong stipular ligule up to 7 cm long, and with fimbriate crests encircling the lower part of the petiole"

402	Allelopathic	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown

403	Parasitic	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Tree or shrub, unbranched or sparingly branched, up to 16 m" [Araliaceae. No evidence]

404	Unpalatable to grazing animals	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown, although fruit may be consumed by animals

Qsn #	Question	Answer
405	Toxic to animals	n
	Source(s)	Notes
	Quattrocchi, U. 2012. CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology. CRC Press, Boca Raton, FL	No evidence
	Wagstaff, D.J. 2008. International poisonous plants checklist: an evidence-based reference. CRC Press, Boca Raton, FL	No evidence

406	Host for recognized pests and pathogens	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown

407	Causes allergies or is otherwise toxic to humans	n
	Source(s)	Notes
	Quattrocchi, U. 2012. CRC World Dictionary of Medicinal and Poisonous Plants: Common Names, Scientific Names, Eponyms, Synonyms, and Etymology. CRC Press, Boca Raton, FL	" <i>Osmoxylon micranthum</i> ... Leaves rubbed on centipede bites; leaves chewed to relieve backache." [No evidence. Related taxon used medicinally]
	Wagstaff, D.J. 2008. International poisonous plants checklist: an evidence-based reference. CRC Press, Boca Raton, FL	No evidence

408	Creates a fire hazard in natural ecosystems	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	No evidence that genus members are part of fire prone communities

409	Is a shade tolerant plant at some stage of its life cycle	
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Ecol. Primary and second-growth forest" [Possibly shade tolerant]
	Top Tropicals. 2016. <i>Osmoxylon novoguineense</i> . https://toptropicals.com/catalog/uid/Osmoxylon_novoguineense.htm . [Accessed 18 May 2016]	"It will thrive best in filtered bright light"

Qsn #	Question	Answer
410	Tolerates a wide range of soil conditions (or limestone conditions if not a volcanic island)	
	Source(s)	Notes
	Top Tropicals. 2016. <i>Osmoxylon novoguineense</i> . https://toptropicals.com/catalog/uid/Osmoxylon_novoguineense.htm . [Accessed 18 May 2016]	"prefers moist soil and high humidity."

411	Climbing or smothering growth habit	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Tree or shrub, unbranched or sparingly branched, up to 16 m"

412	Forms dense thickets	
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Unknown] "Primary and second-growth forest, from sea-level to 1600 m."

501	Aquatic	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Terrestrial tree] "Primary and second-growth forest, from sea-level to 1600 m."

502	Grass	n
	Source(s)	Notes
	USDA, ARS, Germplasm Resources Information Network, 2016. National Plant Germplasm System [Online Database]. http://www.ars-grin.gov/npgs/index.html . [Accessed 18 May 2016]	Family: Araliaceae Subfamily: Aralioideae

503	Nitrogen fixing woody plant	n
	Source(s)	Notes
	USDA, ARS, Germplasm Resources Information Network, 2016. National Plant Germplasm System [Online Database]. http://www.ars-grin.gov/npgs/index.html . [Accessed 18 May 2016]	Family: Araliaceae Subfamily: Aralioideae

Qsn #	Question	Answer
504	Geophyte (herbaceous with underground storage organs -- bulbs, corms, or tubers)	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Tree or shrub, unbranched or sparingly branched, up to 16 m, the young parts rufous- furfureaceous, glabrescent. Large leaves forming terminal crowns"

601	Evidence of substantial reproductive failure in native habitat	n
	Source(s)	Notes
	Flora Malesiana. 2016. <i>Osmoxylon novoguineense</i> . http://portal.cybertaxonomy.org/flora-malesiana/node/5243 . [Accessed 18 May 2016]	[No evidence] "Distribution: Asia-Tropical:, Bismarck Archipelago (Bismarck Archipelago); New Guinea Solomon Is: Solomon Is.; in Malesia: throughout New Guinea and in the Bismarck Archipelago."

602	Produces viable seed	y
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Presumably Yes] "Fruits on stiff" radiating pedicels, ovoid or spherical, fleshy, ribbed when dry."

603	Hybridizes naturally	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown

604	Self-compatible or apomictic	
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Unknown] "Inflorescence terminal, a large compound umbel, bowl-shaped, up to 35 cm 0; peduncle up to 10 cm, stout, with lanceolate caducous bracts (c. 4 cm long) below and among the numerous (c. 50-70) primary rays ; primary rays c. 12-15 cm long at anthesis, c. 3 mm 0, bearing two caducous bracts (1 cm long) at the apex, each ray ending in three branches; central branch c. 2 cm long, bearing an umbel of c. 20-40, sterile, bacciform flowers (c. 6 mm when dry) on pedicels c. 10 mm, and 2-6-celled; the two lateral branches c. 4-6 cm, with two opposite or sub- opposite bracts about the middle, terminating in a subspherical umbel 2^2-3 cm of 30-50 flowers on pedicels c. 8-10 mm long. Calyx rim obsolete, undulate. Petals with irregular erect lobes, tubular below. Stamens 6-10 exerted. Ovary turbinate somewhat angled; glabrous, 6-14-celled; disk flat with a central double row of pustulate stigmas."

605	Requires specialist pollinators	
	Source(s)	Notes

Qsn #	Question	Answer
	Costion, C.M., & Plunkett, G.M. (2016) A revision of the genus <i>Osmoxylon</i> (Araliaceae) in Palau, including two new species. <i>PhytoKeys</i> 58: 49–64	[Unknown. Related taxa suspected of being bird-pollinated] "The distribution of the genus <i>Osmoxylon</i> is particularly curious, suggesting a pattern of East Malesian bird dispersal. The inflorescence morphology also appears to be perfectly suited for bird pollination." ... "To date, there have been no published accounts reporting observations on pollination or fruit/seed dispersal in <i>Osmoxylon</i> ." ... "We suggest that birds are involved in both pollination (enticed by the pseudo-fruits) and seed dispersal (through the fertile fruits), but observations are needed to record nectar feeding and visits to <i>Osmoxylon</i> inflorescences to feed on the fruits and pseudo-fruits by birds or other potential pollinators."
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Unknown] "Inflorescence terminal, a large compound umbel, bowl-shaped, up to 35 cm 0; peduncle up to 10 cm, stout, with lanceolate caducous bracts (c. 4 cm long) below and among the numerous (c. 50-70) primary rays ; primary rays c. 12-15 cm long at anthesis, c. 3 mm 0, bearing two caducous bracts (1 cm long) at the apex, each ray ending in three branches; central branch c. 2 cm long, bearing an umbel of c. 20-40, sterile, bacciform flowers (c. 6 mm when dry) on pedicels c. 10 mm, and 2-6-celled; the two lateral branches c. 4-6 cm, with two opposite or sub-opposite bracts about the middle, terminating in a subspherical umbel 2^2-3 cm of 30-50 flowers on pedicels c. 8-10 mm long. Calyx rim obsolete, undulate. Petals with irregular erect lobes, tubular below. Stamens 6-10 exerted. Ovary turbinate somewhat angled; glabrous, 6-14-celled; disk flat with a central double row of pustulate stigmas."

606	Reproduction by vegetative fragmentation	
	Source(s)	Notes
	Tomlinson, P.B. & Zimmerman, M. (eds.). (2010). <i>Tropical Trees as Living Systems.</i> Cambridge University Press, Cambridge, UK	[Unknown. Ability to spread vegetatively present in other species in genus] "Sucker shoots are produced prolifically from the roots of the rice-paper tree (<i>Tetrapanax</i>), and <i>Osmoxylon borneense</i> and related species spread to form extensive thickets on stream banks by rooting of their drooping branches."

607	Minimum generative time (years)	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown

701	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Unknown] "Fruits on stiff" radiating pedicels, ovoid or spherical, fleshy, ribbed when dry." [Fruits/seeds lack means of external attachment, although small size may enable them to get stuck in mud on boots, tires, clothing etc.]

702	Propagules dispersed intentionally by people	y
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Qsn #	Question	Answer
	Source(s)	Notes
	Top Tropicals. 2016. <i>Osmoxylon novoguineense</i> . https://toptropicals.com/catalog/uid/Osmoxylon_novoguineense.htm . [Accessed 18 May 2016]	"Very ornamental plant, can be grown as a house plant or in a greenhouse."

703	Propagules likely to disperse as a produce contaminant	n
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unlikely. Not known to be grown with produce

704	Propagules adapted to wind dispersal	n
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"The inflorescence branches are dark purple, the corolla and stamens usually deep red, and the ripe fruit shining purple or blue-black."
	Costion, C.M., & Plunkett, G.M. (2016) A revision of the genus <i>Osmoxylon</i> (Araliaceae) in Palau, including two new species. <i>PhytoKeys</i> 58: 49–64	"We suggest that birds are involved in both pollination (enticed by the pseudo-fruits) and seed dispersal (through the fertile fruits), but observations are needed to record nectar feeding and visits to <i>Osmoxylon</i> inflorescences to feed on the fruits and pseudo-fruits by birds or other potential pollinators."

705	Propagules water dispersed	n
	Source(s)	Notes
	Costion, C.M., & Plunkett, G.M. (2016) A revision of the genus <i>Osmoxylon</i> (Araliaceae) in Palau, including two new species. <i>PhytoKeys</i> 58: 49–64	[Adapted for consumption and internal dispersal] "We suggest that birds are involved in both pollination (enticed by the pseudo-fruits) and seed dispersal (through the fertile fruits), but observations are needed to record nectar feeding and visits to <i>Osmoxylon</i> inflorescences to feed on the fruits and pseudo-fruits by birds or other potential pollinators."

Qsn #	Question	Answer
706	Propagules bird dispersed	y
	Source(s)	Notes
	Costion, C.M., & Plunkett, G.M. (2016) A revision of the genus <i>Osmoxylon</i> (Araliaceae) in Palau, including two new species. <i>PhytoKeys</i> 58: 49–64	[Description of other <i>Osmoxylon</i> species] "To date, there have been no published accounts reporting observations on pollination or fruit/seed dispersal in <i>Osmoxylon</i> . Locals in Palau report that the Micronesian starling, <i>Alponis opaca orii</i> , frequently feeds on the fruits, but these observations do not detail effective pollination nor specify whether the feeding is on the sterile baccate pseudo-fruits or the fertile fruits. We suggest that birds are involved in both pollination (enticed by the pseudo-fruits) and seed dispersal (through the fertile fruits), but observations are needed to record nectar feeding and visits to <i>Osmoxylon</i> inflorescences to feed on the fruits and pseudo-fruits by birds or other potential pollinators."
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Presumably Yes] "Dispersal in the family takes place generally by fruit-fall; but as fruits are baccate or (more usually) drupaceous, they will also be eaten by birds (for the most part) and bats" ... [Family description] "Fruits on stiff" radiating pedicels, ovoid or spherical, fleshy, ribbed when dry." ... "the ripe fruit shining purple or blue-black." [Species description]

707	Propagules dispersed by other animals (externally)	
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	"Fruits on stiff" radiating pedicels, ovoid or spherical, fleshy, ribbed when dry." [Probably No. Fruits/seeds lack means of external attachment, although small size may enable them to get stuck in mud on hooves or feet, or on fur]

708	Propagules survive passage through the gut	y
	Source(s)	Notes
	Steenis, C.G.G.J. van (ed.). 1979. <i>Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9.</i> Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Presumably Yes] "Seed germination is most likely after the seed having passed the gut of a bird or after mastication of the fruit by a bat." [Family description]

801	Prolific seed production (>1000/m2)	
	Source(s)	Notes

Qsn #	Question	Answer
	Steenis, C.G.G.J. van (ed.). 1979. Flora Malesiana. Series I, Spermatophyta: Flowering plants. Volume 9. Martinus Nijhoff / Dr. W. Junk Publishers, The Hague	[Unknown] "Inflorescence terminal, a large compound umbel, bowl-shaped, up to 35 cm ; peduncle up to 10 cm, stout, with lanceolate caducous bracts (c. 4 cm long) below and among the numerous (c. 50-70) primary rays primary rays c. 12-15 cm long at anthesis, c. 3 mm 0, bearing two caducous bracts (1 cm long) at the apex, each ray ending in three branches; central branch c. 2 cm long, bearing an umbel of c. 20-40, sterile, bacciform flowers (c. 6 mm when dry) on pedicels c. 10 mm, and 2-6-celled; the two lateral branches c. 4—6 cm, with two opposite or subopposite bracts about the middle, terminating in a subspherical umbel 2^2-3 cm of 30-50 flowers on pedicels c. 8-10 mm long. Calyx rim obsolete, undulate. Petals with irregular erect lobes, tubular below. Stamens 6-10 exserted. Ovary turbinate somewhat angled; glabrous, 6-14-celled; disk flat with a central double row of pustulate stigmas. Fruits on stiff" radiating pedicels, ovoid or spherical, fleshy, ribbed when dry."

802	Evidence that a persistent propagule bank is formed (>1 yr)	
	Source(s)	Notes
	Royal Botanic Gardens Kew. (2016) Seed Information Database (SID). Version 7.1. http://data.kew.org/sid/ . [Accessed]	Unknown. No storage information available

803	Well controlled by herbicides	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown. No information on herbicide efficacy of chemical control of this species

804	Tolerates, or benefits from, mutilation, cultivation, or fire	
	Source(s)	Notes
	Tropiclimber Cultivation information. (2009). Growing your <i>Osmoxylon lineare</i> . http://www.members.westnet.com.au/wackos/PDFs/Growing%20your%20osmoxyton%20plant.pdf . [Accessed 19 May 2016]	[Unknown. Related species tolerates some pruning] " <i>Osmoxylon lineare</i> is a small shrub with graceful linear leaves and a dense habit. The flowers are fairly boring, I even clip them off as the fruits are not that attractive either. Ideally it should be kept cut back to no more than a metre, this keeps the foliage nice and compact. It is a good idea to tip prune your growing plant from a young age to form a good framework of branches."

805	Effective natural enemies present locally (e.g. introduced biocontrol agents)	
	Source(s)	Notes
	WRA Specialist. 2016. Personal Communication	Unknown

Summary of Risk Traits:

High Risk / Undesirable Traits

- Elevation range exceeds 1000 m, demonstrating some environmental versatility
- Grows in tropical climates
- Reproduces by seeds
- Seeds likely dispersed by birds & intentionally by people
- Limited ecological information reduces accuracy of risk prediction

Low Risk Traits

- No reports of invasiveness or naturalization, but no evidence of widespread introduction outside native range
- Unarmed (no spines, thorns or burrs)
- Ornamental uses

Second Screening Results for Tree/tree-like shrubs

- (A) Shade tolerant or known to form dense stands?> Unknown
(B) Bird-dispersed?> Yes. Fleshy-fruited & presumably dispersed by birds
(C) Life cycle <4 years? Unknown
Outcome = Evaluate Further