Family:		Fabace	eae				
Tax	on:	Dalbergia nigra					
Syn	onym:	Amerimnon nigrum (Vell.) KuntzeCommon Name:Bahia rosePterocarpus niger Vell.Brazilian rRio rosewa		 Bahia rosewood Brazilian rosewood Rio rosewood 	/ood sewood od		
Qu	estionair	·e :	current 20090513	Assessor: Assessor		Designation: E	VALUATE
Status:			Assessor Approved	Data Entry Person:	Assessor	WRA Score 5	
101	Is the sp	pecies hig	hly domesticated?			y=-3, n=0	n
102	Has the	species b	ecome naturalized where gro	own?		y=1, n=-1	
103	Does th	e species	have weedy races?			y=1, n=-1	
201	Species suited to tropical or subtropical climate(s) - If island is primarily wet habitat, ther substitute "wet tropical" for "tropical or subtropical"			y wet habitat, then	(0-low; 1-intermediate; 2- high) (See Appendix 2)	High	
202	Quality	of climat	e match data			(0-low; 1-intermediate; 2- high) (See Appendix 2)	High
203	Broad c	limate su	itability (environmental vers	atility)		y=1, n=0	У
204	Native of	or natura	lized in regions with tropical	or subtropical climates		y=1, n=0	У
205	Does the	e species	have a history of repeated int	roductions outside its nat	ural range?	y=-2, ?=-1, n=0	n
301	Natural	lized beyo	ond 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	Agricul	tural/fore	estry/horticultural weed			n=0, y = 2*multiplier (see Appendix 2)	n
304	Enviror	nmental v	veed			n=0, y = 2*multiplier (see Appendix 2)	n
305	Congen	eric weed	1			n=0, y = 1*multiplier (see Appendix 2)	у
401	Produce	es spines,	thorns or burrs			y=1, n=0	n
402	Allelopa	athic				y=1, n=0	
403	Parasiti	ic				y=1, n=0	n
404	Unpalat	table to g	razing animals			y=1, n=-1	
405	Toxic to	o animals				y=1, n=0	n
406	Host for	r recogniz	zed pests and pathogens			y=1, n=0	
407	Causes	allergies	or is otherwise toxic to huma	ns		y=1, n=0	
408	Creates	a fire ha	zard in natural ecosystems			y=1, n=0	n
409	Is a sha	de tolera	nt plant at some stage of its li	fe cycle		y=1, n=0	У
410	Tolerat	es a wide	range of soil conditions (or li	mestone conditions if not	a volcanic island)	y=1, n=0	у

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	У
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	У
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 traffick areas)	ed y=1, n=-1	
702	Propagules dispersed intentionally by people	y=1, n=-1	У
703	Propagules likely to disperse as a produce contaminant	y=1, n=-1	n
704	Propagules adapted to wind dispersal	y=1, n=-1	У
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/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	у
804	Tolerates, or benefits from, mutilation, cultivation, or fire	y=1, n=-1	у
805	Effective natural enemies present locally (e.g. introduced biocontrol agents)	y=-1, n=1	
	Designation:	EVALUATE WRA Score 5	

upporting Data:				
101	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Is the species highly domesticated? No] "Provenance trials on trunk form detected genetic variation within and among provenances; breeding may improve this limiting characteristic (Carvalho, 1994)."		
102	2014. WRA Specialist. Personal Communication.	NA		
103	2014. WRA Specialist. Personal Communication.	NA		
201	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Species suited to tropical or subtropical climate(s) 2-High] "The natural distribution of D. nigra ranges from northeastern (13°15'S) to southeastern (23°S) Brazil. There is a restricted occurrence in Brazil, from southern Bahia to northern São Paulo, including Espírito Santo, Minas Gerais and Rio de Janeiro in the Atlantic forest (tropical dense rainforest) (Carvalho, 1994)."		
202	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Quality of climate match data 2-High]		
203	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	 [Broad climate suitability (environmental versatility)? Yes. Elevation range exceeds 1000 m] "In Brazil, D. nigra grows in various climates, where altitude ranges from 30-1700 m and the mean annual rainfall is 1000-2100 mm. The species tolerates up to a four-month dry season, with a moderate water deficit (Carvalho, 1994). Climatic amplitude (estimates) Altitude range: 30 - 1700 m Mean annual rainfall: 1000 - 2100 mm Rainfall regime: summer; bimodal; uniform Dry season duration: 0 - 4 months Mean annual temperature: 19 - 25°C Mean maximum temperature of coldest month: 23 - 27°C Mean minimum temperature of coldest month: 16 - 22°C" 		
204	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Native or naturalized in regions with tropical or subtropical climates? Yes] "The natural distribution of D. nigra ranges from northeastern (13°15'S) to southeastern (23°S) Brazil. There is a restricted occurrence in Brazil, from southern Bahia to northern São Paulo, including Espírito Santo, Minas Gerais and Rio de Janeiro in the Atlantic forest (tropical dense rainforest) (Carvalho, 1994)."		
205	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Does the species have a history of repeated introductions outside its natural range? No evidence] "D. nigra has been planted in some states of Brazil for the following purposes: land reclamation, ornamental, restoration of riparian forests, wood production and shading of pasture. The species has been planted experimentally in Colombia and Peru (Carrasco, 1978)."		
301	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Naturalized beyond native range? No evidence]		
301	2014. WRA Specialist. Personal Communication.	[Naturalized beyond native range? No evidence, but limited history of planting outside native range]		
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]		
303	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Agricultural/forestry/horticultural weed? No evidence]		
304	2012. Randall, R.P A Global Compendium of Weeds. 2nd Edition. Department of Agriculture and Food, Western Australia	[Environmental weed? No evidence]		
305	2001. Parsons, W.T./Cuthbertson, E.G Noxious Weeds of Australia. Second Edition. CSIRO Publishing, Collingwood, Australia	[Congeneric weed? Yes] "Dalbergia sissoo" "Dense thickets have now formed on sand dunes near Mandorah in Darwin harbour and there are scattered infestations elsewhere in the city." "Under favourable conditions, such as occurs at Darwin, it forms dense thickets to the virtual exclusion of most other plants."		
401	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Produces spines, thorns or burrs? No] "D. nigra is an evergreen to semi deciduous tree that typically reaches 10-25 m in height with a dbh of 15-80 cm (Carvalho, 1994; Lorenzi, 1992). In exceptional cases it reaches 50 m in height (Santos, 1987) and 155 cm in dbh (Leao and Vinha, 1975). The trunk is twisted and irregular, and the bole can reach 10 m. Leaves paripinnate compound, alternate, 5-13 cm long, with 10-20 pairs of alternate leaflets, 7 25 mm long, 4-10 mm wide, pilose when young and glabrous later (Carvalho, 1994; Lorenzi, 1992)."		

402	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Allelopathic? Possibly No] "D. nigra is recommended to be planted in association with pastures in south central Brazil (Carvalho, 1997) and also with annual crops (Carvalho, 1994). In Colombia, this species has been planted experimentally with guaraná (Paullinia cupana). It can be used in windbreaks (Guimaraes and Fonseca, 1990). The species is used in mixed plantation for environmental restoration and widely used as an ornamental for scenic purposes (Lorenzi, 1992; Botelho et al., 1995)."
403	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Parasitic? No] "D. nigra is an evergreen to semi-deciduous tree that typically reaches 10-25 m in height with a dbh of 15-80 cm (Carvalho, 1994; Lorenzi, 1992)." [Fabaceae]
404	2008. Louppe, D./Oteng-Amoako, A.A./Brink, M Timbers 1: volume 7 of Plant Resources of Tropical Africa. PROTA, Wageningen, Netherlands	[Unpalatable to grazing animals? Probably No. Other Dalbergia species are palatable] "Dalbergia latifolia The foliage is used as fodder." "Dalbergia sissoo The foliage and young pods are useful as fodder, although it has been reported that fresh leaves may cause digestive disorders in livestock during the dry season."
405	2014. The Wood Database. Brazilian Rosewood. http://www.wood-database.com/lumber- identification/hardwoods/brazilian-rosewood/ [Accessed 31 Jan 2014]	[Toxic to animals? No reports of toxicity to animals] "Allergies/Toxicity: Although severe reactions are quite uncommon, Brazilian Rosewood has been reported as a sensitizer. Usually most common reactions simply include eye and skin irritation." [No evidence of foliage being toxic, which would be the most likely way animals would be exposed]
406	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Host for recognized pests and pathogens?] "In the southern Peru, Carrasco (1978) mentions that the cerambycid, Stenodontes spinibarbis, bores into the boles of living trees. Berti Filho (1979) found Scolytus submarginatus on D. nigra in São Paulo, Brazil. Pests recorded Insects: Scolytus submarginatus Stenodontes spinibarbis Pests recorded at the generic level (Dalbergia): Insects: Coccus hesperidum (brown soft scale) Xylosandrus compactus (shot-hole borer)"
407	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Causes allergies or is otherwise toxic to humans? Potentially Yes] "Contact with wooden jewellery can cause dermatitis. The contact allergens of Dalbergia spp. have been identified as benzoquinones (Dias and Vale, 1992)."
407	2014. The Wood Database. Brazilian Rosewood. http://www.wood-database.com/lumber- identification/hardwoods/brazilian-rosewood/ [Accessed 31 Jan 2014]	[Causes allergies or is otherwise toxic to humans? Possibly if exposed to wood] "Allergies/Toxicity: Although severe reactions are quite uncommon, Brazilian Rosewood has been reported as a sensitizer. Usually most common reactions simply include eye and skin irritation."
408	2014. Arkive. Brazilian rosewood (Dalbergia nigra). http://www.arkive.org/brazilian- rosewood/dalbergia-nigra/ [Accessed 31 Jan 2014]	[Creates a fire hazard in natural ecosystems? No evidence, and unlikely given wet habitat] "The Brazilian rosewood grows in wet (hygrophilous) forests on rich soils, especially where the soil consists of clay and loam (a mix of sand, silt and clay) with good drainage. It grows across a range of climatic conditions that includes tropical lowlands and sub montane rainforests "
409	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Is a shade tolerant plant at some stage of its life cycle? Yes] "D. nigra can grow in a moderately shaded environment." "- Tolerates shade; frost"
410	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Tolerates a wide range of soil conditions ?] "D. nigra grows naturally even in low fertility soils, at pH greater than 5.2. It is not demanding of phosphorus and prefers soils with low aluminium content. In southern Bahia, it grows mainly in mountainous areas, occupying peaks and slopes with clay and sandy clay loam soils that are deep and well drained (Leao and Vinha, 1975)." "Soil descriptors - Soil texture: medium; heavy - Soil drainage: free - Soil reaction: acid; neutral - Special soil tolerances: infertile - Soil types: mountain soils; tropical soils"
411	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Climbing or smothering growth habit? No] "D. nigra is an evergreen to semi- deciduous tree that typically reaches 10-25 m in height with a dbh of 15-80 cm (Carvalho, 1994; Lorenzi, 1992)."

412	1997. Carvalho, A. M. de. A synopsis of the genus Dalbergia (Fabaceae: Dalbergieae) in Brazil. Brittonia. 49(1): 87-109.	[Forms dense thickets? No evidence] "Ecology and distributionThis tree is a typical component of the Atlantic forest from southern Bahia to northern Sao Paulo, with a major concentration on the rich soils once covered by hygrophilous forest of the Bahian Hylaea, extending from southern Bahia to northern Espirito Santo. According to Ledo and da Vinha (1975), the species grows extensively in that area, especially on undulating clay and loam soils with good drainage. Dalbergia nigra extends inland to eastern Minas Gerais, growing as a medium-sized tree in subdeciduous tropical forest along the river valleys. In the Atlantic forest, mature individuals are always large trees. Although now rare in undisturbed forest, the species regenerates well from stump sprouts and can be frequent as small trees in secondary forests and pastures."
412	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Forms dense thickets? No evidence]
501	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Aquatic? No] "In southern Bahia, it grows mainly in mountainous areas, occupying peaks and slopes with clay and sandy clay loam soils that are deep and well-drained (Leao and Vinha, 1975)."
502	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Grass? No] Fabaceae
503	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Nitrogen fixing woody plant? Yes] "D. nigra is a nitrogen-fixing tree (Galvao, 1984)."
504	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Geophyte (herbaceous with underground storage organs bulbs, corms, or tubers)? Yes] "D. nigra is an evergreen to semi-deciduous tree that typically reaches 10-25 m in height with a dbh of 15-80 cm (Carvalho, 1994; Lorenzi, 1992)."
601	1986. FAO. Databook On Endangered Tree And Shrub Species And Provenances Fao Forestry Paper 77. Forest Resources Division , FAO Forestry Department, Rome. Italy	[Evidence of substantial reproductive failure in native habitat? No] "In the Mata area, in Minas Gerais, young specimens are abundant and regeneration is fairly easy."
601	1997. Carvalho, A. M. de. A synopsis of the genus Dalbergia (Fabaceae: Dalbergieae) in Brazil. Brittonia. 49(1): 87-109.	[Evidence of substantial reproductive failure in native habitat? Possibly] "Because of deforestation of its natural habitat and over-exploitation for its desirable wood, Dalbergia nigra has become extremely rare in nature. This led to its being the first tree species ever included in the Appendix I list of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES, 1992)."
601	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Evidence of substantial reproductive failure in native habitat? Possibly due to overharvesting] "D. nigra is on the official list of endangered Brazilian flora. According to Rizzini (1977), the species is already extinct in São Paulo State, Brazil, and it has become so scarce that it is now banned from international trade."
602	2001. Ferraz-Grande, F. G., & Takaki, M Temperature dependent seed germination of Dalbergia nigra Allem (Leguminosae). Brazilian Archives of Biology and Technology. 44(4): 401- 404.	[Produces viable seed? Yes] "The germination of endangered species Dalbergia nigra was studied and 30.5°C was found as optimum temperature, although the species presented a broad temperature range where germination occurs and light had no effect. The analysis of kinetics of seed germination confirmed the asynchronized germination below and above the optimum temperature. The light insensitive seed and germination also at high temperatures indicated that D. nigra could occur both in understories and gaps where the mean temperature was high."
602	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Produces viable seed? Yes] "Seeds of D. nigra are collected when the fruits are brown. Trees have annual or biannual production of seeds, whose dispersion is by wind."
603	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Hybridizes naturally? Unknown. No evidence of hybridization reported]
604	2011. Ribeiro, R. A., Lemos-Filho, J. P., Ramos, A. C. S., & Lovato, M. B Phylogeography of the endangered rosewood Dalbergia nigra (Fabaceae): insights into the evolutionary history and conservation of the Brazilian Atlantic Forest. Heredity. 106(1): 4	[Self-compatible or apomictic? Possibly No] "Its mating system is not known, but the congeneric tree D. miscolobium, from the Brazilian Cerrado exhibits outcrossing with an apparent self-incompatibility system (Gibbs and Sassaki, 1998), which possibly suggests a similar mating system in D. nigra."
605	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Requires specialist pollinators? No evidence] "Fragrant white-yellowish flowers, 5- 10 mm long, in axillary bunches up to 6 cm long, originating panicles up to 20 cm long (Carvalho, 1994)." [Flowers unspecialized]
605	2011. Ribeiro, R. A., Lemos-Filho, J. P., Ramos, A. C. S., & Lovato, M. B Phylogeography of the endangered rosewood Dalbergia nigra (Fabaceae): insights into the evolutionary history and conservation of the Brazilian Atlantic Forest. Heredity. 106(1): 4	[Requires specialist pollinators? No] "D. nigra is pollinated by bees (personal observation), and its seeds are dispersed by the wind (Carvalho, 1994)."

606	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Reproduction by vegetative fragmentation? No evidence] "- Seed storage intermediate - Vegetative propagation by cuttings - Stand establishment using planting stock"
606	2014. WRA Specialist. Personal Communication.	[Reproduction by vegetative fragmentation? No] No evidence of vegetative spread in the wild
607	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Minimum generative time (years)? Unknown] "In Lavras, Minas Gerias (Brazil), in a stand of Eucalyptus grandis established to restore disturbed land, D. nigra was planted in the understorey and showed the highest growth rate among the 15 planted native species. After 3 years it reached a height of 1.83 m and a diameter at stem base of 2.6 cm (Davide et al., 1996)."
607	2014. Arkive. Brazilian rosewood (Dalbergia nigra). http://www.arkive.org/brazilian- rosewood/dalbergia-nigra/ [Accessed 31 Jan 2014]	[Minimum generative time (years)? Unknown] "Very little is known about the ecology and reproduction of the Brazilian rosewood, but it is known to have a short flowering period between November and December and a long fruiting period between January and September."
701	2011. Resende, L. C., Ribeiro, R. A., & Lovato, M. B., Diversity and genetic connectivity among populations of a threatened tree (Dalbergia nigra) in a recently fragmented landscape of the Brazilian Atlantic Forest. Genetica. 139(9): 1159-1168.	[Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)? Unknown. Seeds may be germinating due to roadside disturbance, rather than due to movement of seeds along roads] "Trees of the threatened D. nigra may reach up to 35 m in height and have been described as typical of late secondary and climax forests (Carvalho 1994), although regeneration in pastures and roadsides has been detected in several areas (Carvalho 1997; personal observation)."
702	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Propagules dispersed intentionally by people? Yes] "The species is used in mixed plantation for environmental restoration and widely used as an ornamental for scenic purposes (Lorenzi, 1992; Botelho et al., 1995)."
703	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Propagules likely to disperse as a produce contaminant? No evidence] "The fruit is a samara, elliptical or oblong, flat, membranaceous, 3-8 cm long and 18-22 mm wide, with one seed (rarely two) located centrally (Carvalho, 1994)." "The seeds are dispersal by wind."
704	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Propagules adapted to wind dispersal? Yes] "The fruit is a samara, elliptical or oblong, flat, membranaceous, 3-8 cm long and 18-22 mm wide, with one seed (rarely two) located centrally (Carvalho, 1994)." "The seeds are dispersal by wind."
705	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Propagules water dispersed? Unknown] "The seeds are dispersal by wind." "Vegetation types: rain forests; riparian forests" [Seeds adapted for wind dispersal, but occurrence in riparian forests could result in movement by water]
706	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Propagules bird dispersed? No] "The fruit is a samara, elliptical or oblong, flat, membranaceous, 3-8 cm long and 18-22 mm wide, with one seed (rarely two) located centrally (Carvalho, 1994)." "The seeds are dispersal by wind."
707	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Propagules dispersed by other animals (externally)? No evidence] "The fruit is a samara, elliptical or oblong, flat, membranaceous, 3-8 cm long and 18-22 mm wide, with one seed (rarely two) located centrally (Carvalho, 1994)." "The seeds are dispersal by wind."
708	1998. Varty, N Dalbergia nigra. In: IUCN 2013. IUCN Red List of Threatened Species. Version 2013.2. www.iucnredlist.org [Accessed 31 Jan 2014]	[Propagules survive passage through the gut? Probably No] "Regeneration appears to be poor, possibly because of seed predation by rodents."
708	2014. WRA Specialist. Personal Communication.	[Propagules survive passage through the gut? Unknown, but presumably wind dispersed seeds presumably not adapted for internal dispersal]
801	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Prolific seed production (>1000/m2)? No] "The fruit is a samara, elliptical or oblong, flat, membranaceous, 3-8 cm long and 18-22 mm wide, with one seed (rarely two) located centrally (Carvalho, 1994)."
802	2004. Chaves, M. M. F., & Usberti, R Controlled seed deterioration in Dalbergia nigra and Dimorphandra mollis, endangered Brazilian forest species. Seed Science and Technology. 32(3): 813-823.	[Evidence that a persistent propagule bank is formed (>1 yr)? Unknown under natural conditions] "D. nigra and D. mollis presented orthodox seed behaviour in storage" "D. mollis presented higher seed storability than D. nigra"
802	2005. CAB International. Forestry Compendium. CAB International, Wallingford, UK	[Evidence that a persistent propagule bank is formed (>1 yr)? Possibly] "Seeds with 12% moisture content, packed in semi-permeable bags and stored at 10°C with 65% relative humidity, maintained their germination rate for 105 days. After two years storage in semi-permeable containers at 3-5°C and 92% relative humidity, seeds had a germination rate of 65% (Carvalho, 1994)." "- Seed storage intermediate"

803	2001. Parsons, W.T./Cuthbertson, E.G Noxious Weeds of Australia. Second Edition. CSIRO Publishing, Collingwood, Australia	[Well controlled by herbicides? Presumably Yes] "Dalbergia sissoo Dalbergia is susceptible to picloram as a cut stump, basal bark or stem injection application." {Methods to control the invasive D. sissoo would presumably be effective for D. nigra]
804	1997. Carvalho, A. M. de. A synopsis of the genus Dalbergia (Fabaceae: Dalbergieae) in Brazil. Brittonia. 49(1): 87-109.	[Tolerates, or benefits from, mutilation, cultivation, or fire? Yes] "Although now rare in undisturbed forest, the species regenerates well from stump sprouts and can be frequent as small trees in secondary forests and pastures."
805	2014. WRA Specialist. Personal Communication.	[Effective natural enemies present locally (e.g. introduced biocontrol agents)? Unknown]

Summary of Risk Traits

High Risk / Undesirable Traits

- Thrives in tropical climates
- Elevation range exceeds 1000 m
- Related Dalbergia species have become invasive
- Contact with wood may cause dermatitis
- Shade tolerant (may be able to invade intact forest)
- Tolerates many soil types
- Nitrogen fixing
- Seeds dispersed by wind, and intentionally planted by people
- Can resprout from cut stump
- Rarity within native range and missing ecological information makes accurate risk prediction difficult

Low Risk Traits

- No reports of naturalization or invasiveness to date (although this may be due to limited cultivation outside the native range)
- Unarmed (no spines, thorns or burrs)
- Valued for timber
- Not known to spread vegetatively
- Herbicides may provide effective control