Inclusion of Adenia firingalavensis in Appendix II

Proponent: Madagascar

Summary: Adenia firingalavensis is a succulent plant from Madagascar. It is one of 100 or so members of Adenia, a genus widespread in Madagascar and Africa, and is reportedly widespread in the western part of Madagascar from the far north to the south, growing in shade in dry forest, scrub and rocky areas at altitudes of 0–500 m. It produces a bottle-shaped trunk up to two metres tall and 30 cm in diameter, from which grow vine-like branches up to 3.5 m in length. It is reportedly slow-growing and at least locally shows poor regeneration rates. It can be locally common and occurs in a number of protected areas. It is in some demand internationally as a horticultural plant, grown chiefly by specialist collectors of succulents. The CITES Management Authority of Madagascar records the export of some 550 specimens in the period 2003–2006, most of these (around 360) in 2004. Only 10 were recorded in trade in 2006. It may be assumed that most or all of these were wild-collected plants. The species can be propagated by both seeds and cuttings.

The species resembles *A. olaboensis*, which is proposed for inclusion in Appendix II (see Prop. 35), and a number of other Malagasy *Adenia* species, which are not proposed for inclusion in the Appendices, some of which are very rare and some of which may be exported under its name.

Analysis: Adenia firingalavensis is a widespread and apparently at least locally common species in Madagascar. The species is in apparently limited trade for horticulture. There is no evidence of extensive or intensive harvest for domestic use. Given its widespread distribution, its presence in a number of protected areas and the limited recorded amount of export trade, it seems very unlikely that harvest for trade is reducing the species to a level at which it might become eligible for inclusion in Appendix I in the near future, or that such regulation is needed to ensure that harvest from the wild is not reducing the wild population to a level at which its survival might be threatened by continued harvesting or other influences.

	Supporting Statement (SS)	Additional information
Taxonomy		
Range		
Madagascar		
IUCN Global Category		
		Not currently listed

Additional information			
Biological and trade criteria for inclusion in Appendix II (Resolution Conf. 9.24 (Rev. CoP14) Annex 2 a)			
A) Trade regulation needed to prevent future inclusion in Appendix I			
Occurs to 500 m (Eggli, 2002). Hearn (2009) reports the species to be locally common and more widespread than is indicated in the supporting statement.			
not reducing population to level where survival might be threatened by continued			
A) Specimens in trade resemble those of species listed in Appendix II under Resolution Conf. 9.24 (Rev. CoP14) Annex 2 a or listed in Appendix I			
B) Compelling other reasons to ensure that effective control of trade in currently listed species is achieved			

Other information

Supporting Statement (SS)	Additional information	
Threats		
<i>A. firingalavensis</i> is a shade-loving species, therefore it is more sensitive to habitat disturbance than others.		
Conservation, management and legislation		
Reported from protected areas of Montagne d'Ambre,'Ankarana and Analamerana in the far north.	Also reported from the Tsingy de Bemaraha and Tsingy de Namoroka, both of which are protected areas (website www.madagaskar.com)	
Captive Breeding/Artificial Propagation		
	Can be propagated from cuttings and seed (Bihrmann, nd).	
Other comments		
	Offered for sale in the USA at USD30–60 retail, a comparatively low price compared with other Adenia species offered by the same supplier. Specimens were also observed for sale at EUR89.	
	Currently around 18 species of Adenia native to Madagascar are recognized, all endemic (efloras website).	
	Hearn (2006) reports that morphological and molecular evidence suggest that the form often known as Adenia firingalavensis var. stylosa is in fact a separate species, A. stylosa.	
	Hearn (2009) notes that there are Malagasy Adenia species (A. epigea, A. litoralis, A. stylosa, A. boivinii, A. lapiazicola, and A. metamorpha) resembling A. firingalavensis and A. olaboensis that are exceptionally rare and/or locally endemic. Based on his observations of the succulent trade, many very rare Adenia are imported as Adenia sp. or Adenia firingalavensis	

Reviewers:

TRAFFIC East/Southern Africa.

References:

Eggli, E. (2002). Illustrated Handbook of Succulent Plants: Dicotyledons. Springer, Berlin, Germany.

Hearn, D.J. (2009). Adenia (Passifloraceae) and its adaptive radiation: phylogeny and growth form diversification. Systematic Botany 31: 805–821.

Viewed December 16 2009 http://www.bihrmann.com/caudiciforms/subs/ade-fir-sub.asp http://www.efloras.org/florataxon.aspx?flora_id=12&taxon_id=100532