

Forest Ecology and Forest Management Group

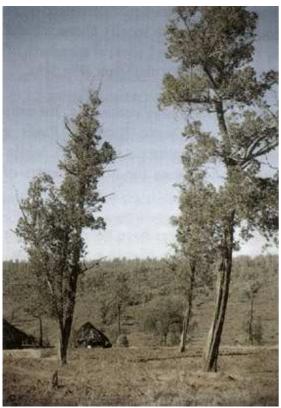
Tree factsheet images at page 3,4

Juniperus procera Hochst. ex Endlicher

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taxonomy	Hh-(-0.4047
author, year	Hochstett 1847
synonym	Juniperus hochstetteri, Sabina procera
family	Cupressaceae
Eng. Name	East African cedar, African pencil cedar
other names	cedar; thed (Ethiopia); mutarakwa, mtarakwa (Oost Afrika)
Dutch name	jeneverbes, potloodceder
subspecies	
varieties	
hybrids	
references	CAB International. 2005. The Forestry Compendium www.cabicompendium.org/fc
	Wiselius, S.I. 2001. Hout vademecum. Ten Hagen Stam
	http://en.wikipedia.org/wiki/Juniperus_procera
	http://www.conifers.org/cu/ju/procera.htm
	http://www2.fpl.fs.fed.us/Techsheets/Chudnoff/African/htmlDocs_africa/Juniperusprocera.html
	http://www.iucnredlist.org/details/33217
	Adams, R. P. 2004. Junipers of the World: The genus <i>Juniperus</i> . Victoria: Trafford
	Sahle, Y. 2005. Population dynamics of <i>Juniperus procera</i> in high mountain forests of
	Ethiopia: dendrochronology and Matrix modeling. Student report
	Couralet, C. 2004. Growth and population dynamics of Juniperus procera in an Ethiopian
	dry afromontane forest: dendrochronology and matrix model : a study in the Adaba-
	Dodola forest priority area. Student report
	Hall, J.B. & Ndosi, O.M. 1982. The status of <i>Juniperus procera</i> in the Arusha National Park,
	Tanzania
morphology	
crown habit	cone shaped
max. height (m)	30-42
max. dbh (cm)	300 and more
actual sizes –location, country -	
oldest tree –location-	
leaf length (cm)	8-15
leaf petiole (cm)	
leaf colour upper surface	green
leaf colour under surface	green
leaves arrangement	juvenile needle-like leaves and adult scale-like leaves in pairs of three
flowering	
flowering plant	dioecious, male and fecal inflorescens, with unisexual flowers; some plants bear both sexes
flower	
flower diameter pollen cones (cm)	
inflorescence description, length	green, turning orange brown stroboli
pollination	wind
fruit description	purplish to black berries with whitish wax
fruiting period	throughout the year
fruit; length (cm)	0.3 – 0.7
fruit petiole; length (cm)	
seed; length (cm)	4-5 x 3-3,5
seed-wing length (cm)	
weight of 1000 seeds (kg)	
seeds ripen	

seed dispersal	birds			
seed longevity, dormancy	51140			
- coca iongoniy, acimanoj				
habitat				
natural distribution	East Africa, maily in Kenya, Tanzania, and Uganda; Saudi-Arabia, Yemen			
introduced countries	USA, France, Great Britain			
area natural habitat (ha)				
soil type				
water	tolerates drought			
pH-KCI	acid, neutral, alkaline			
soil fertility				
light	strong light demanding			
temperature				
"optimum natural development"	dry mountain forest , commonly between 1800-2700 m asl.			
remarks	2.5 2.00 20			
management				
status natural range	near threatened (IUCN Red List)			
status introduced range	rare			
application	forest tree and ornamental			
propagation	seed			
regeneration	natural regeneration			
optimal gap size for regeneration				
resprouting after cutting				
growth rate	fast, 4 m in 5 years			
diseases				
insects				
ecology				
plant communities / associations	"pure stands or more commonly mixtures with <i>Podocarpus gracilior</i> and with angiosperms (<i>Olea, Nuxia, Erythrina, Agauria</i> (tall Ericaceae), <i>Afrocrania volkensii, Cussonia spicala, Xymalos monospora</i> etc.)." (source: www.conifers.org)			
associated trees				
wood				
trade name	East-African cedarwood, African pencil cedar			
wood structures key characteristics				
density heartwood (kg/m ³)	450-550-650 (at 12% moisture content)			
elastic modulus (psi)	11.100			
total above ground biomass				
fungi class durability heartwood	4			
heartwood colour	yellow brown to purplish brown			
sapwood colour	creamy white			
contents	odeur			
products	pencils, wardrobes			
market	as sawn timber for pencil production			
non-timber products				
non-umber products				



Natural Juniperus procera forest in Kenya, source FAO



Leaves of a young plant of Juniperus procera