ASEAN Wildlife

Threatened Plant Species of ASEAN

ASEAN Centre for Biodiversity
ASEAN is home to diverse species of plants and animals. These species contribute to the various ecological services humans use on a daily basis. Amidst this diversity, the region is at constant threat of species loss from a myriad of factors such as habitat loss, overexploitation, and land use conversion, among others.

To raise awareness on the importance of these species, the ASEAN Centre for Biodiversity features some of the Threatened Plant Species in the ASEAN. These species are categorized under the International Union of Conservation of Nature’s (IUCN) Red List as either Vulnerable, Endangered, or Critically Endangered. The IUCN Red List follows a set of criteria in classifying species at high risk of global extinction. The criteria include (1) reduction of population size of the species, (2) geographic range in the form of species’ area of occupancy and extent of occurrence, (3) declining population of species’ mature individuals, and (4) quantitative analysis showing the probability of species’ extinction in the wild is at least 50 per cent within 10 years or three generations, whichever is longer.

A Vulnerable species exhibits high risk of extinction in the wild unless the reasons that are threatening its survival and reproduction improve. An Endangered species on the other hand faces a very high risk of extinction in the wild and very likely to become extinct. A Critically Endangered species faces an extremely high risk of extinction in the wild. These categories compose the cluster of Threatened Species under the schema of IUCN red list.

Source:
### Dipterocarpus cornutus Dyer

**Threat Status/Year Published**
- **CR 1998**

**Local names**
- Cambodia: dau
- Indonesia: keruing, keruing gajah
- Malaysia: keruing
- Myanmar: eng, in, kanyin
- Philippines: basilan, bagac, panau, hagakhak, apitong
- Thailand: yang
- Viet Nam: dau

**Habitat**
- Can be found on ridges with well drained sandy soils in undisturbed mixed dipterocarp forests with altitudes of up to 1,000 meters.

**Uses**
- The timber is harvested for commercial use.

**Distribution**
- Indonesia (Kalimantan, Sumatera); Malaysia (Peninsular Malaysia); Singapore

**Threats**
- Habitat loss due to forest conversion

**Sources**
- [Asian Plant](http://asianplant.net/Dipterocarpaceae/Dipterocarpus_cornutus.htm)
- [IUCN Red List](http://www.iucnredlist.org/details/33072/0)
- [Tropical Timber](http://www.tropicaltimber.info/specie/keruing-dipterocarpus-cornutus/)
- [MyBis](https://www.mybis.gov.my/sp/8052)

**Habit**

**Uses**

**Threats**

**Sources**

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Dipterocarpus tempehes Slooten

**Threat Status/Year Published**
**CR 1998**

**Common names**
*Indonesia:* keruing, tempehes

**Habitat**
Can be found growing on clay to sandy soils, mostly on alluvial sites and along rivers (rarely on hillsides) of undisturbed mixed dipterocarp forests with altitude of up to 400 meters.

**Uses**
Timber is commercially harvested.

**Threats**
Habitat loss

**Sources**
- [http://asianplant.net/Dipterocarpaceae/Dipterocarpus_tempehes.htm](http://asianplant.net/Dipterocarpaceae/Dipterocarpus_tempehes.htm)
- [http://www.iucnredlist.org/details/33378/0](http://www.iucnredlist.org/details/33378/0)
- [http://www.natureloveyou.sg/Dipterocarpus%20tempehes/Main.html](http://www.natureloveyou.sg/Dipterocarpus%20tempehes/Main.html)

Dipterocarpus sublamellatus Foxw.

**Threat Status/Year Published**

**EN 1998**

**Common names**

Indonesia, Malaysia, Singapore: keruing kerut

**Habitat**

Can be found in slopes and low hills to 500 meters. Locally common, especially in moist places

**Uses**

Used for timber

**Threats**

Overexploitation for timber

**Distribution**

Indonesia (Sumatera); Malaysia (Peninsular Malaysia, Sarawak); Singapore

**Sources**

http://asianplant.net/Dipterocarpaceae/Dipterocarpus_sublamellatus.htm
http://www.iucnredlist.org/details/31759/0
**Dipterocarpus hasseltii** Bl.

**Threat Status/Year Published**

**EN 2017**

**Common names**

*Indonesia*: keruing bunga (general), jempinang (Java), keruing tampudan (Kalimantan)

*Malaysia*: keruing ropol, keruing laut (Peninsular), keruing kerukup kechil (Sabah)

*Philippines*: Hasselt’s panau, Palawan panau, highland panau (general)

*Thailand*: yang-kliang, yang-tai (general), yang-man-sai (Peninsular)

*Viet Nam*: dâu rái

**Habitat**

Lowland dipterocarp forests on well-drained but moist fertile red soils in valleys and on hillsides, sometimes on calcareous soil, even limestone (Java); sometimes gregarious; to elevation of 600 meters

**Uses**

The timber is harvested for commercial use.

**Threats**

Agricultural expansion resulting to habitat loss and overexploitation for timber

**Sources**

http://asianplant.net/Dipterocarpaceae/Dipterocarpus_hasseltii.htm
http://www.iucnredlist.org/details/31313/0
https://uses.plantnet-project.org/en/Dipterocarpus_hasseltii_(PROSEA)
Aquilaria beccariana van Tiegh.

Distribution
Brunei Darussalam; Indonesia (Kalimantan, Sumatera); Malaysia (Peninsular Malaysia, Sabah, Sarawak)

Threats
Overharvesting of agarwood for commercial purposes and habitat loss due to deforestation.

Sources
http://asianplant.net/Thymelaeaceae/Aquilaria_beccariana.htm
http://www.iucnredlist.org/details/38067/0
https://uses.plantnet-project.org/en/Aquilaria_beccariana_(PROSEA)
http://gaharu84.blogspot.com/2013/05/buah-gaharu-aquilaria-beccariana-atau.html

Common names
Indonesia: garu tanduk (Kalimantan), mengkaras putih (Sumatra)
Malaysia: gaharu, gumbil, njabak

Habitat
On sandy to clay soils, often along rivers, streams, and on ridges.
In undisturbed mixed dipterocarp, keranga and sub-montane forests up to 1,000 meters altitude

Uses
The fungi-infected wood is used to produce a valuable incense (gaharu). The fungi-infected heartwood, characteristic of all members of the genus, has high commercial value for making incense, perfume and traditional medicine.
Numerous trees are cut down, many of which are uninfected, to harvest just a few kilograms of the diseased wood. The increase in levels of trade over the past decade has resulted in overexploitation throughout its range.

Threat Status/Year Published
VU 1998
**Canarium pseudodecumanum** Hochr.

**Threat Status/Year Published**

**VU 1998**

**Common names**

- **Indonesia**: tandikat (eastern central Sumatra), damar likat (Aceh), jelapat gala-gala semut (Kalimantan)
- **Malaysia**: kedondong kemasul, damar kangar (Peninsular), pomatodon (Sabah)
- **Thailand**: han (Songkhla)

**Habitat**

Can be found in undisturbed forests with altitude of up to 300 meters

**Uses**

Its wood is very soft, and the abundant resin is used for caulking canoes. An edible oil is pressed out of the seeds, which also are eaten.

**Distribution**

Indonesia (Kalimantan, Sumatera); Malaysia (Peninsular Malaysia, Sabah); Thailand

**Threats**

Overexploitation of the species for its commercial uses (resin and edible oil)

**Sources**

- [http://asianplant.net/Burseraceae/Canarium_pseudodecumanum.htm](http://asianplant.net/Burseraceae/Canarium_pseudodecumanum.htm)
- [http://www.iucnredlist.org/details/32175/0](http://www.iucnredlist.org/details/32175/0)
Dipterocarpus crinitus Dyer

**Distribution**
Indonesia (Kalimantan, Sumatera); Malaysia (Peninsular Malaysia, Sabah, Sarawak); Thailand

**Common names**
- Brunei Darussalam: keruing (m)empelas
- Indonesia: keruing bulu (Sumatra, Kalimantan), amperok (East Kalimantan), mara keluang (Sumatra)
- Malaysia: keruing (m)empelas (general)
- Thailand: yang-khai (peninsular)

**Habitat**
Widespread on undulating land and low hills, rarely to 850 meters, on leached clay-rich soils in mixed dipterocarp forest

**Uses**
The timber is harvested for commercial use.

**Threats**
Habitat loss as a consequence of the expansion of agriculture and is further threatened by exploitation of the species for its timber and oleoresins

**Sources**
- http://asianplant.net/Dipterocarpaceae/Dipterocarpus_crinitus.htm
- http://www.iucnredlist.org/details/33476/0
- https://uses.plantnet-project.org/en/Dipterocarpus_crinitus_(PROSEA)
- https://www.mybis.gov.my/sp/6024

**Threat Status/Year Published**
VU 2017

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