



Vine Thickets on Dampier Peninsula

The semi-deciduous vine thickets Occurring as discrete pockets of that occur on the landward slopes of dense vegetation, typically a few coastal sand dunes on Dampier hectares in size, the total area of the Peninsula, from Broome to One Arm 'vine thickets on coastal dunes' Point and Goodenough Bay, make up community occupies less than 1,000 one of the most interesting plant hectares. About 90 per cent of this communities in the West Kimberley. area occurs on Aboriginal reserves and Many of the species of trees, shrubs grazing leases and less than 10 per and vines that these thickets contain cent in Coulomb Point Nature Reserve

are at the southern limits of their ranges, and are more typically found in rainforest vegetation associated with rocky sites in wetter more northerly parts of Australasia.

The upper storey of these vine thickets is dominated by one or more evergreen tree species, many of which produce edible fruits and berries, such as the banyan fig (Ficus virens) mamajen (Mimusops elengi), wild apple (Syzygium eucalyptoides), mangarr (Pouteria sericea), mistletoe tree (Exocarpos latifolius), ebony wood (Diospyros ferrea var. humilis), and marool or blackberry tree (Terminalia petiolaris). They are important traditional food resources for Aboriginal people, and the local Bardi language includes a word for vine thicket—budan. The thickets also provide important habitat for animals, such as bats and the rose-crowned fruit pigeon.

Because it occurs in small or very narrow linear patches with high edge-to-area ratios, this vine thicket community is highly vulnerable to disturbance. Degradation and contraction in size can be due to the combined effects of frequent hot wildfire, cattle damage and/or impacts of recreational activities such as off-road driving and camping. Damage from vehicles or cattle (seeking shade) may open the normally closed tree or shrub canopy, permitting weeds and grasses to invade the understorey and, in turn, creating fuel for internal fires. In addition, vine thickets are affected by hot fires in adjacent vegetation. Fire regimes in the Kimberley have changed dramatically and

and the town of Broome.

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uncontrolled fires now occur annually on the peninsula. With increasing development on the coast, clearing is also becoming an important threat.

Last dry season, under a project jointly funded by the Natural Heritage Trust, CALM's Threatened Species and Communities Unit and West Kimberley District, along with the Broome Botanical Society, conducted survey work on some previously undocumented vine thicket patches. Data were collected on their species composition and the threatening processes affecting them. In addition, the existence of occurrences located from colour aerial photographs was confirmed, in order to establish the full extent of the vine thicket community. Collation of this and preexisting information has enabled the assessment of the vine thickets on coastal dunes as a threatened ecological community 'Vulnerable' category. Decline is continuing and action is necessary to prevent the community becoming Endangered. In the coming year, discussions with local stakeholders will continue, and opportunities to develop and implement conservation management will be investigated.

