Frontal dunes



Landform Dunes and lunettes on lake fringes, plains. Low open woodland of sally wattle, ironwood and beefwood on lake-fringing dunes. Woody vegetation Other species that may occur in the mostly sparse tree layer include gidgee, ghost gum, Reid river box, gundabluie, woodland paperbark, currant bush, blackwood, false sandalwood and bauhinia. Often sparse ground layer. **Expected pasture** * Denotes non-native "Expected Pasture Composition" species. composition Preferred Marine couch, buffel grass*. Purpletop chloris*, lovegrasses (e.g. purple), five-minute grass. Intermediate Non-preferred Wiregrasses (e.g. dark, many-headed, Jericho). Sedges. Common forbs Buffel grass; Shrubby stylo on lighter, sandier soils. Suitable sown pastures Parkinsonia. Introduced weeds Deep sandy soils or sandy topsoil over saline grey clays. Soil Description Surface: Loose; Surface texture: sandy; Subsoil texture: sandy or light to moderate grey clays. Low Water availability Rooting depth Shallow Low; low nutrient status. Fertility Salinity High when nearer the lakebeds. Variable Sodicity Neutral, moderately acid or alkaline. pН

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Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day

Median annual rainfall 464 – 489 mm

Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)
Native species	0 TBA/FPC	810 - 840	15%	23 - 24
	4 TBA 10FPC	440 - 510	15%	38 – 44

Enterprise

Breeding

Land use and management recommendations

Land use limitations

Conservation features and related management

- Suitable for grazing of native pastures. Capable of low pasture growth.
- Any cover of trees, shrubs, grass or annual forbs is beneficial to the stability of the fragile pockets within this land type.
- While some of the sandy soils can grow buffel, there are also areas of sandy topsoils over saline heavy clays which have little production and are fragile.
- High erosion hazard. Prone to wind erosion, limited sheet and rill erosion due to high soil permeability.
- The beach-ridge and dune formation of Lake Buchanan is a most unusual and unique geomorphological feature that occurs in the semi-arid tropical zone of Australia. Its sequence of parallel beach ridges and silty lakebed layers has the potential to help unravel the wet and arid climates of the past. The delta formations along the lake margin and the diverse range of insect, rotiferal and crustacean species in the mud and briny waters of the lake are also unique.
- Lawrencia buchanensis (Lake Buchanan bluebush), a small shrub listed as vulnerable, is restricted to sandy areas adjacent to Lake Buchanan. Herbfields and low shrublands of fringe rushes, samphire, lovegrasses and other salt tolerant species occur on low sand plains adjacent to Lake Buchanan. The shallow sand surfaces overlay sodic clays and a calcrete hardpan.
- Wildlife populations are sparse, but those species that occur have unusual or restricted distributions (e.g. short-tailed mouse, centralian blue-tongued lizard). Some wetland bird species use these areas for nesting.
- The prime objective for the sandy dunes around Lake Buchanan, Lake Dunne and Lake Galilee is to stabilise the dune formations by maintaining ground cover. These ecosystems are 'endangered' because of their limited extent and the adverse impacts of high total grazing pressure.
- Additional fencing and watering points may be needed to control stock numbers and the length of time spent grazing these sensitive areas. Overgrazing can reduce or remove the low bushes and shrubs that would otherwise provide protection for small ground fauna and nesting birds.
- In previously cleared areas, a little gidgee regeneration could be encouraged to provide some wind protection and habitat for wildlife around the lakes.

Regional Ecosystems

DUSLR project land units 10.3.17a-b, 10.3.19, 10.3.20, 10.3.21, 10.3.22e-f, 10.3.29a.

LB1, LB2, LB4, LG6, LH1, LH2.





DU06 Frontal dunes



Area of land type in region: 0.2% Median rainfall (region): 400 – 608 mm Average rainfall (region): 440 – 679 mm Area of land type with FPC: 62% Median FPC: 10% Median TBA: 4 m2/ha

