LAND SYSTEM DESCRIPTIONS of MOUNT RIDDOCK

PLATEAUX

Table Hill (Ta) — Silghtly undulating plateaux with small depressions on the top of the plateau plus scree slopes below plateau and incised creeks. Shallow stony calcareous sandy loams, Chalcedony outcrop common. Very stony surfaces with thin clay loams on scree slopes and sand clay loams in incised creeks. Witchetty Bush, Turkey Bush, Green-leaf Cassia, Spiny Saltbush and other shrubs over Limestone Oat grass, Sida and Salybush type forbs. Gidyea, Turkey Bush, Green-leaf Cassia, Spiny and Ruby Saltbush over sparse grasses on scree slopes. Gidyea, Ruby Saltbush and other shrubs over sparse perennial grasses on incised creeks.

MOUNTAINS

Harts Two (Ha-2) — Rugged escarpments, rounded or bevelled crests. Rock faces, rock outcrop, shallow gritty soil. Bare on rock faces, spinfex and low shrubs on crests.

HILLS

Harts One (Ha-1) — Dissected ranges and high hills of the Hart Range. Mainly bare rock outcrop with shallow gravelly soils on lower slopes. Range and hills are largely bare. Lower slopes have sparse stunted Mulga, Witchetty Bush over Woollyoat, Mulga and Kerosene grasses and perennial grasses. Creeks with Ironwood, Mulga or Prickly Wattle over Kangaroo, Silky Browntop and annual grasses.

LOW HILLS

Bond Springs Two (Bs-2) — Hills crests, ridges and small hills. Rock outcrop and shallow gritty sandy soil and shallow sandy loams. Witchetty Bush, Mulga, Broom Bush and low Eremophila shrubs over Woollyoat and Mulga grasses. Woollybutt, Kerosene grass and forbs also present.

LOW RISES

Bond Springs One (Bs-1) — Undulating stony plains with rock outcrop and occasional low stony hills. Shallow sandy loams with stone outcrop and shallow sandy loams. Mulga, Witchetty Bush, Whitewood and Corkwood over Woollyoat grass, Oat grass, Mulga grass and sparse perennial grasses on plains. Small hills with Witchetty Bush and minor Broom Bush over Woollyoat grass. Minor perennial grasses against rock ledges.

PLAINS

Alcoota (Ac) — Gentle slopes and gently undulating erosional plains with small areas of low ridges, low hills and broad drainage lines with frequent channels. Sandy loams and sandy clay loams on gentle slopes, shallow red earths on plains and shallow sandy loams often with stone or gravel or shallow stone and gritty soils on ridges and low hills. Silty soils in drainage lines. Open stands of Whitewood, Witchetty Bush, Bloodwood, Mulga and Supplejack over Woollyoat grass, Umbrella grass, Curly Windmill grass and small amounts of Mulga grass or Gidyea over Woollyoat, Mulga, Neverfail and Curly Windmill grass. Witchetty Bush and Broom Bush over Woollyoat, Mulga grasses or scattered stunted Mulga, Witchetty Bush and low shrubs over Woollyoat, Kerosene and Mulga grasses on ridges and low hills.

Boen (Bo) — Gently undulating plains with small areas of broad flat drainage lines. Red earths on plains and red earths and clay loams on broad flat drainage lines. Mainly Mulga over hard and mostly unpalatable perennial grasses; Woollybutt, Mulga Mitchell, Wallaby and Wire grasses. Areas of Mulga and some Witchetty Bush and Turkey Bush over annual Woollyoat and Mulga grasses, with Cotton grass close to trees. Dense Mulga with sparse grasses on drainage areas.

Delny (De) — Undulating plains with small areas of low hills and jump-ups and broad drainage lines and incised channels. Shallow calcareous sandy loams and red earths often with gravel. Stony sandy loams on hill and sandy an d silty soils in creeks and drainage lines. Scattered Gidyea over Woollyoat and Mulga grasses with occasional Neverfail and Mitchell grass or Open Mulga, Witchetty bush, Ironwood, Gidyea and Whitewood over sparse Woollyoat and Mulga grass.

ALLUVIAL PLAINS

Hamilton (Hm) — Gently sloping plains and floodouts or alluvial run-on areas. Sandy loams or red sandy clay loams on plains, highly erodible textured contrast soils in floodouts and sandy loams over a sandy clay loam subsoil in run-on areas. Plains have an open mixed tree cover of Mulga, Witchetty Bush, Ironwood, Bloodwood, Whitewood and Supplejack over Woollyoat grass, Umbrella grass and Curly Windmill grass, with small amounts of Mulga grass. Alluvial areas have Cottonbush with perennial grasses - Curly Windmill grass, Umbrella grass, Silky Browntop, with Mitchell grass in gilgais and on channel banks.

ALLUVIAL PLAINS Continued...

Indiana (In) — Gentle slopes with smaller areas of lower plains, alluvial basin, low ridges, hill crests and channelled drainage lines. Stony sandy clay loams on plains and slopes, shallow stony sandy clay loams on low ridges and hill crests and silty soils on drainage lines. Scattered Whitewood, Supplejack, Mulga and Bloodwood over Woollyoat grass and minor Mulga grass on stony plains with Umbrella grass, Curly Windmill grass and Silky Browntop scattered across the slope in small depressions and against stone ledges. Predominately Curly windmill, Queensland Bluegrass, Desert Bluegrass, Winged Chloris on lower plains and alluvial basins. Rises with Witchetty Bush and sparse Dropseed, Woollyoat, Mulga grasses and copperburrs on ridges and low hill crests.

Kanandra (Kn) — Very gently sloping to level plains with small areas of alluvial plains and basins at the foot of Harts Ranges, stabilised parallel sand dunes and wide creeks and distributary channels. Loamy sands and sandy loams on plains. Clay loams and silty soils on alluvial plains, sands and loamy sands on dunes with medium textured sands on creeks and channels. Whitewood, Supplejack, Ironwood, Corkwood and Witchetty Bush over Kerosene grass, Oat grass, Sandhill Oat grass and occ. Woollybutt. Curly Windmill grass grows by larger trees. Forbs incl. Roly Poly, Buckbush, Birdsville Indigo, Verbine and Rattlepods. Perennial grasses, Curly Windmill, Desert Bluegrass, Silky Browntop and Umbrella grasses on alluvial plains. Witchetty Bush, Whitewood, Broom Bush over Kerosene, Woollybutt grasses on dunes.

Ringwood (Ri) — Broad flat drainage depressions, frequent channels and gullies, and alluvial fans with areas of sand hummocks and alluvial fans formed below broad depressions. Red sandy clay loams, with red loams on fans. Gidyea over sparse Curly Windmill grass and Woollyoat grass. More open areas have Cottonbush over perennial grasses e.g. Curly Windmill grass, Silky Browntop, Native Millet and Woollyoat grass. Button grass and 8 Day grass common after light rain. On fans is Gidyea over perennial grasses (e.g. Curly Windmill grass, Silky Browntop) and palatable shrubs (Ruby Saltbush and Spiny Saltbush).

ALLUVIAL PLAINS Continued...

Undippa (Un) — Gilgai plains, and non-gilgai plains. Heavy cracking clays on gilgai plains, and medium textured clays on non-gilgai plains. Gilgai plains grows Mitchell grass with small amounts of Oat grass, Native Millet and forbs such as sida. Non-gilgai plains grows Neverfail and occasional Mitchell grass with small amounts of Oat grass and forbs.

DRAINAGE SYSTEMS

Sandover (Sa) — Outer alluvial plains; low dunes and sandy rises adjacent to rivers and small areas of river and creeks. Sandy loams and sandy clay loams on plains, and coarse textured soils on dunes and rises. Coarse sands in creeks and rivers. On plains is predominantly Ironwood with some Corkwood and Prickly Wattle over Woollyoat grass and significant amounts of Curly Windmill grass and Umbrella glass. Prickly Wattle, Ironwood, Corkwood, Whitewood and Supplejack on dunes and rises, with sands stabilized by Kerosene grass, Woollybutt and a diversity of forbs, e.g. Yellow Daisies, Paddy Melons. Creeks with mixed perennial grasses under River Red Gum and Ironwoods.

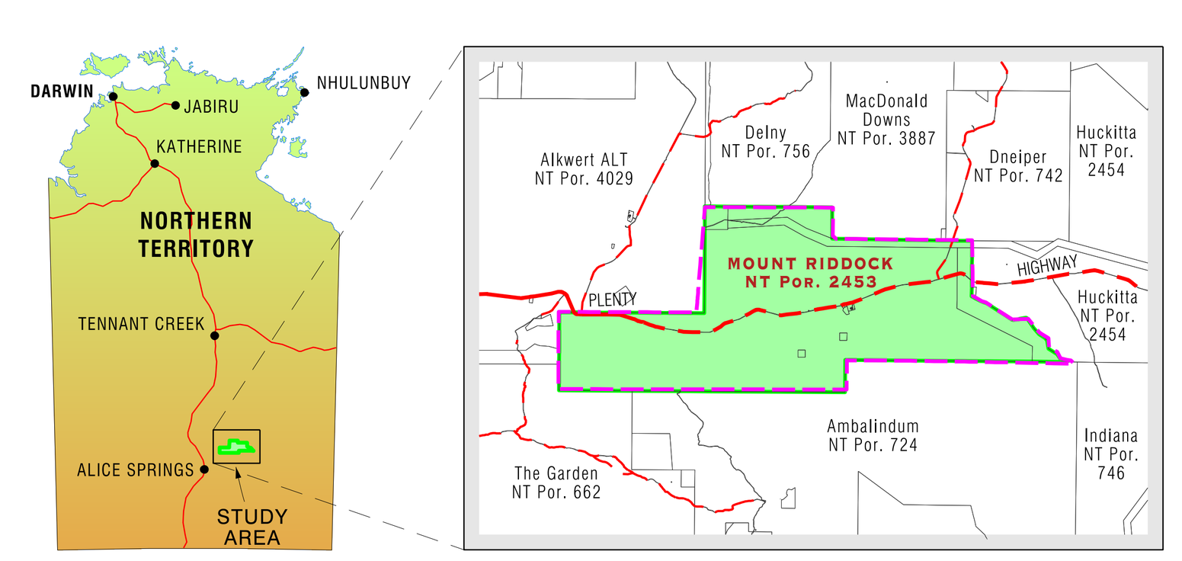
Example of Land System Description

Harts Two (Ha-2) — Rugged escarpments, rounded or bevelled crests. Rock faces, rock outcrop, shallow gritty soil. Bare on rock faces, spinfex and low shrubs on crests.

Land System · Map Unit · Soil Description · Landform Description · Vegetation Description

GDA — This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

MAP LOCALITY



General features data sources:
Cadastre, roads, place names: Department of Infrastructure, Planning and Logistics, Northern Territory of Australia.
Pastoral Infrastructure: Department of Environment, Parks and Water Security, Northern Territory of Australia.
Hydro features: Commonwealth of Australia (Bureau of Meteorology) 2014
Spot heights: Geoscience Australia. 2007. Geodata topo 250K. Series 3.

GENERAL FEATURES

Feature	Example	Feature	Example
Land unit boundary		Water Bore	Kong Bore
Limit of mapping		Water Well	Aturga Well (n/e)
Property boundary		Dam	Aturga Dam
Highway: sealed		Tank	Aturga 1 Tank
Highway: unsealed		Trough	Red Rag Trough
Main road: unsealed		Turkey Nest	
Minor road: sealed		Stock Yard	Yard
Minor road: unsealed		Drainage	
Local road: track		Spring / Soak	Oorupida Spring
Water pipeline		Tower	Microwave Tower
Fence		Mine (Abd.)	Mine (Abd.)
Paddock name	Aturga Pdk	Fossicking Area	Fossicking Area
Major Community	Atitjere	Relief Feature	Mt Mabel
Family Outstation	Mt Eaglebeak	Range or Plain	HARTS RANGE
Pastoral homestead	Mt Riddock HS	Spot height	1070
Building		Relief ridge	
Ruin / Historic site		Sand ridges	
Landing ground			

N

kilometres 0 2 4 6 8 10 kilometres

Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 53 Transverse Mercator Projection
Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

Limitations of use

Land Resource information has been derived from aerial photograph interpretation and field data collection describing landform, soil and vegetation. Mapping has been collected at a nominal scale of between 1:100 000 and 1:250 000. Enlarging this map beyond this scale will not provide further detail and is not recommended.

Final mapping is presented at a scale of 1:100 000.

When assessing specific areas within the mapping it is recommended that a site inspection be undertaken to establish unmapped variations and to confirm the mapping accuracy on the ground.

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Bastin, G. & Grant, R. (1981)
Range Condition assessment report: Mount Riddock Station
Department of Primary Production,
Alice Springs, Northern Territory

NORTHERN TERRITORY GOVERNMENT

LAND RESOURCES of MOUNT RIDDOCK STATION