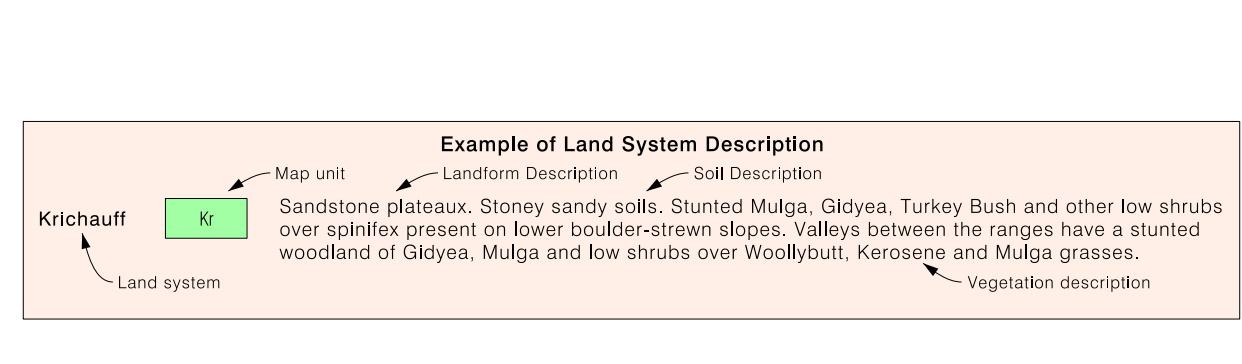


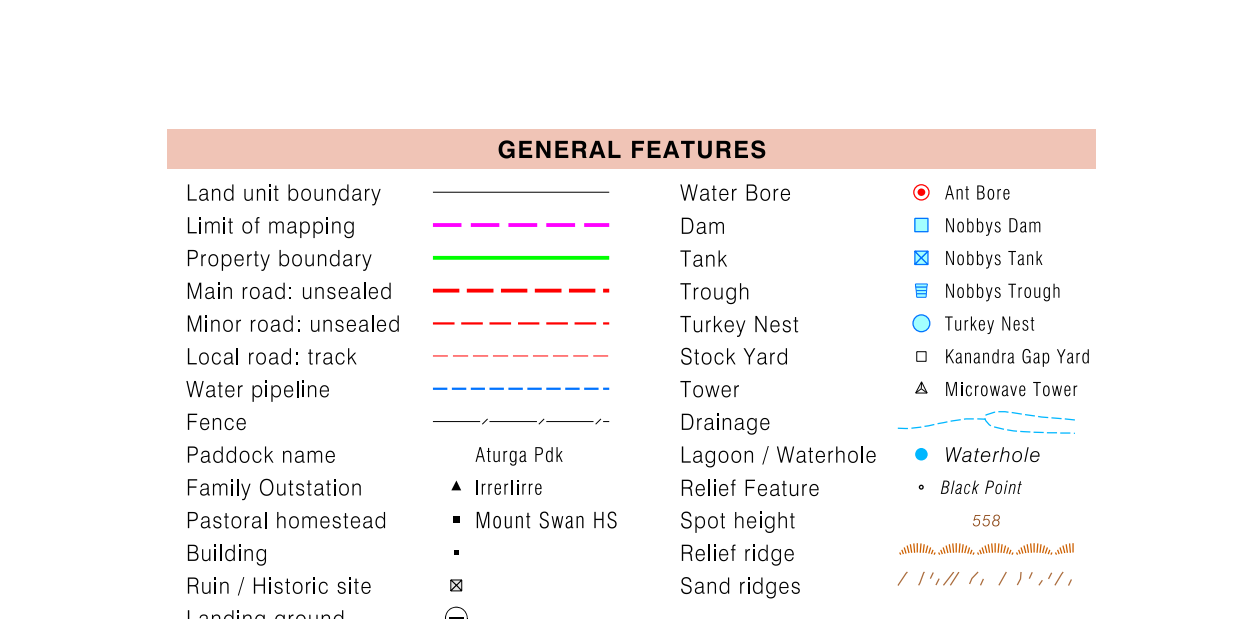
LAND SYSTEM DESCRIPTIONS

PLATEAUX	LOW HILLS	LOW RISES	PLAINS
Krichauff (K) Sandstone plateaux. Stony sandy soils. Stunted Mulga, Gidgeya, Turkey Bush and other low shrubs over spiketail present on lower boulder-strewn slopes. Valleys between the ranges have a stunted woodland of Gidgeya, Mulga and low shrubs over Woollybutt, Kerosene and Mulga grasses.	Bond Springs (B) Broken ridges, steep slopes, lower slopes and smaller hills. Small areas with valley floors and incised channels. Rock outcrops on ridges. Shallow gritty sandy soils on steep slopes. Shallow sandy loams and gresses and schist surface rock on lower slopes. Sandy loams and exposed rock on crests. Bare on ridges. Steep slopes and smaller hills with Witchetty Bush, Mulga, Broombrush and low aemophila shrubs over Woollybutt and Mulga grasses. Woollybutt, Kerosene grass and forbs also present. Ironwood, Mulga and Picky Wattle over scattered perennial grasses on valley floors and channels.	Ilberric (I) Low sandstone ranges and minor creeks running through them. Stony sandy soils. Open woodland of Gidgeya, Whitewood and Mulga over Kerosene, Mulga and Woollybutt grasses and forbs such as Smokebush, Curly Windmill grass, Silky Browntop, Golden Beard grass and Woollybutt along drainage channels.	Alcoota (A) Undulating plains with small areas of level cracking clay plains and broad drainage lines with incised channels. Sandy loams and sandy clay loams on most plains. Cracking clays and concretionary clays with some gilgais in some plains. Sandy clay loams and silty siltstone sand drainage lines. Open stands of mixed Whitewood, Bloodwood, Supplejack, Mulga, Witchetty Bush and Ironwood over Woollybutt grass, Mulga grass, Umbrella grass and Curly Windmill grass and areas of Gidgeya woodland. Clay plains are treeless with Mitchell, Curly Windmill and Blandford grasses. Broad drainage depressions with Dense Gidgeya or Mulga and some Ironwood over Curly Windmill, Umbrella grasses.
Table Hill (T) Gently undulating plateaux with level to slightly undulating plains below plateaux and level Mitchell grass plains with some gilgais. Shallow stony calcareous sandy clay loams on plateaux. Calcareous sandy clay loams on level to slightly undulating plains and cracking clays with gilgais on level plains. Witchetty Bush and Broombrush over Dal grass, Limestone Dal grass, Sida, Pussyaiba, Smokebush, Cattaloo and minor other forbs. Umbrella grass and Silky Browntop in small depressions on plateaux. Open Gidgeya with ecc. Mulga, Witchetty Bush and Supplejack over Dal grass and minor Umbrella grass. Limestone Dal grass on highly calcareous areas. Cracking clay plains with Mitchell grass and minor Newelltail, Feathertop, Blandford grasses.	Napperby (N) Ridges, hills, gently undulating foothill slopes and small areas of valley floors with incised creek channels. Shallow gritty sandy soil on ridges and hills. Foothills with shallow gritty sandy loams and sandy clay loams and gritty sandy clay loams in drainage lines. Slopes and hills are bare or have sparse Mulga, Witchetty Bush and low shrubs e.g. Green-leaved Casia over spiketail, Woollybutt, Kerosene grass, Mulga grass and Woollybutt grass. Scattered Corkwood, Bloodwood, Whitewood, Witchetty Bush, Broombrush and Green-leaved Casia over Woollybutt, Mulga grasses and forbs on foothills. Valley floors with Ironwood, Bloodwood and Mulga over perennial grasses; Curly Windmill, Silky Browntop, Dal Kangaroo and Golden Beard grasses.	Ryan (R) Undulating plains, low granite and gneiss hills, quartz ridges and slopes with minor drainage depressions and watercourses. Shallow stony clayey sands and clay loams on the plateaux and slopes and shallow rocky and stony soils on the low hills and ridges. Scattered Witchetty Bush, Whitewood, Ironwood over Woollybutt, Supplejack, Dead Friar, Corkwood, Bloodwood, Mulga, Witchetty Bush and low shrubs over sparse Mountain Wanderoo, Kangaroo grasses and forbs on hills and ridges.	Delny (D) Flat and undulating plains with occasional low hills and small areas with drainage depressions and incised channels. Red-brown sandy clay loams on plains, shallow stony sandy clay loams with surface laterite gravel on hilly country and sandy and silty soils on drainage depressions and channels. Plains with open stands of Gidgeya with Ruby and Clanking Saltbushes. Curly Windmill grass in depressions. Woollybutt Mulga grasses near Gidgeya hills with Mitchell, Mulga, Witchetty Bush over shrubs and sparse Woollybutt, Mulga grasses, Gidgeya, Mulga, Ironwood and River Red Gum over perennial grasses on drainage depressions and channels.
ALLUVIAL PLAINS	Ryan (R) Plains with small areas of lower stony hill slopes and sloping plains, granite ridges and drainage lines and channels. Gritty sandy clay loams or red earths on low granite outcrops. Shallow often stony red earths on lower stony slopes and plains, shallow gritty soils on granite ridges and sandy clay loams on drainage lines and channels. Scattered Witchetty Bush, Ironwood, Corkwood, Bloodwood, Mulga and Witchetty Bush over Woollybutt and Mulga grasses. Small amounts of Umbrella grass and Curly Windmill grass with Silky Browntop in depressions. Mulga over annual grasses on low stony hill slopes and plains, granite ridges are often bare, Mulga and Ironwood over Curly Windmill, Silky Browntop, Umbrella and Kangaroo grasses on drainage lines.	Bushy Park (B) Level to gently undulating plains with very small areas of broad flat drainage lines. Red earth on plains and red earths and clay loams in drainage depressions. Mulga and Turkey Bush over hard and generally unpalatable perennial grasses: spiketail, Woollybutt, Mulga Mitchell grass and Wire grass. Dense Mulga over sparse Woollybutt and Mulga grasses, Woollybutt and Curly Windmill grass.	DELNY PLAINS
Kanandra (K) Sandy alluvial level to slightly hummocky plains and sandy river levees and river banks and alluvial basins. Loamy sands and sandy loams on hummocky plains, red sandy clay loams on plains, and coarse textured sands on river levees and banks. Open stands of Whitewood, Ironwood, Corkwood, Mulga, Witchetty Bush, Firebush and Picky Wattle over Kerosene grass, Woollybutt, Golden Beard grass and Dal grass. Curly Windmill grass adjacent to larger trees on sandy hummocky plains. Ironwood, Picky Wattle and Firebush over Sandhill Kangaroo, Kerosene and Woollybutt grasses on levees. River Red Gum and Ironwood over tall perennial grasses on river banks.	ANULAND (A) Hummocky sandplain with occasional sandstone outcrop and small areas of alluvial basins and incised channels. Red clayey sandy soils and exposed sandstone. Mulga and Turkey Bush over hard and generally unpalatable perennial grasses: spiketail, Woollybutt, Mulga Mitchell grass and Wire grass. Dense Mulga over sparse Woollybutt and Mulga grasses, Woollybutt and Curly Windmill grass.	SINGLETON (S) Gently undulating sandy plains overlying low sandstone ridges. Sands, Mallee, Desert Kurrajong and numerous low shrubs over spiketail.	SAND PLAINS
Simpson (S) Sand dunes. Sands. Scattered low shrubs over spiketail, Kerosene grass, Woollybutt and forbs. Small amounts of Woollybutt and Mulga grass may grow in the slightly heavier textured sands between the dunes.	DUNE FIELDS	DRAINAGE SYSTEMS	
McGrath (M) Level stable plains with small depressions or alluvial basins and level to slightly undulating plains. Sandy clay loams on plains and coarse sandy soils on creeks. Gidgeya varying from reasonably dense to open stands. Curly Windmill grass adjacent to Gidgeya. Silky Browntop, Desert Blungrass, Woollybutt and Wire grass scattered through the area. Woollybutt grass common with Mulga grass and forbs. Button grass present after summer rain. River Red Gum, Ghost Gum and Ironwood over mixed perennial grasses on creeks.	Sandover (S) Sandy alluvial level to slightly hummocky plains and sandy river levees and river banks and alluvial basins. Loamy sands and sandy loams on hummocky plains, red sandy clay loams on plains, and coarse textured sands on river levees and banks. Open stands of Whitewood, Ironwood, Corkwood, Mulga, Witchetty Bush, Firebush and Picky Wattle over Kerosene grass, Woollybutt, Golden Beard grass and Dal grass. Curly Windmill grass adjacent to larger trees on sandy hummocky plains. Ironwood, Picky Wattle and Firebush over Sandhill Kangaroo, Kerosene and Woollybutt grasses on levees. River Red Gum and Ironwood over tall perennial grasses on river banks.	Example of Land System Description Map unit: Krichauff (K) Land system: Sandstone plateaux, Stony sandy soils, Stunted Mulga, Gidgeya, Turkey Bush and other low shrubs over spiketail present on lower boulder-strewn slopes. Valleys between the ranges have a stunted woodland of Gidgeya, Mulga and low shrubs over Woollybutt, Kerosene and Mulga grasses. Vegetation description: Sandstone plateaux, Stony sandy soils, Stunted Mulga, Gidgeya, Turkey Bush and other low shrubs over spiketail present on lower boulder-strewn slopes. Valleys between the ranges have a stunted woodland of Gidgeya, Mulga and low shrubs over Woollybutt, Kerosene and Mulga grasses.	



GENERAL FEATURES

Land unit boundary	Water Bore	Ant Bore
Limit of mapping	Dam	Nobbys Dam
Property boundary	Tank	Nobbys Tank
Main road: unsealed	Trough	Turkey Trough
Minor road: unsealed	Turkey Nest	Turkey Nest
Local road: track	Stock Yard	Kanandra Gap Yard
Water pipeline	Tower	Microwave Tower
Fence	Drainage	Lagoon / Waterhole
Watercourse	Aburga Pk	Bare Pool
Pastoral homestead	Relief Feature	Spot Height
Building	Mount Swan HS	Relief Ridge
Ruin / Historic site	Relief Ridge	Sand ridges
Landing ground	Sand ridges	



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.

For further information contact:
Department of Environment, Parks and Water Security
Director, Land Assessment, Rangelands Division
Ph: (08) 8999 4478 Email: rangelands@nt.gov.au
Level 1, Gwydir Centre, 25 Chung Wah Terrace,
Palmerston, Northern Territory of Australia
Web: <https://depws.nt.gov.au>
Geospatial Information: <https://nrmmaps.nt.gov.au>

Cartography by:
Ralf Koberstein - Geospatial Services
Department of Environment, Parks and Water Security
Northern Territory of Australia.

General features data sources:
Cadastral, 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.

Map Reference: Map_New-McDonald-Downs-Stn_Land-Res_100k_m53
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September 2021

Map Grid of Australia (MGA) Zone 53
Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

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Please Note:
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Bibliographic Reference:
Bastin, G., Grant, R., & McGlasson, M. (1982) Range Condition assessment report: New Macdonald Downs Station. Department of Primary Production, Alice Springs, Northern Territory.