

LAND SYSTEM DESCRIPTIONS
<b>MOUNTAINS</b> Harts (Hs) Steep-sided mountain peaks and ranges dissected by narrow watercourses. Mainly bare rock. Pockets of shallow, coarse textured soils. Sparse shrubs including Witchetty Bush, cassia and Mulga over Kangaroo grass or Spinifex.
<b>HILLS</b> Bond Springs One (Bs-1) Bold rocky hills and ridges. Shallow, coarse textured soils amongst rock outcrop. Sparse cover of Witchetty Bush, Mulga and Broombush (cassia) over Woollyoat, Mulga and Kerosene grasses and forbs.
<b>LOW HILLS</b> Bond Springs Two (Bs-2) Low stony hills and undulating granite plains, below Bond Springs One land system. Many small watercourses. Shallow stony soils on hillslopes. A range of soils (alluvial, red earths, texture contrast, calcareous) on the plains. Scattered Witchetty Bush, Mulga and low shrubs over mainly Woollyoat and Mulga grasses. Scattered perennial grasses (Limbella, Curly Windmill, Silky Browtop, grasses). Curly Windmill grass along watercourses. Small areas of calcareous shrubby grassland with Witchetty Bush and Ironwood over Oat grass and forbs.
<b>PLAINS</b> Alcocota (Ac) Gently undulating plains, dissected by small watercourses. Calcareous earths and shallow red earths, often with gravel content. Shrubby grasslands of scattered Witchetty Bush and Ironwood over Oat grass, forbs and occasional perennial grasses. Smaller areas of open woodland of Witchetty Bush, Whitewood, Bloodwood, Ironwood, Mulga and cassias over Oat, Mulga and Umbrella grasses.
Boen One (Bo-1) Very broad rises with gentle slopes. The landscape drains by surface flows and does not have defined drainage routes. Red earths, Ironstone gravel sometimes present on the surface. Shrublands of groved Mulga with some Witchetty Bush and Broombush. Mainly mulga annual pasture (Mulga and Woollyoat grasses) in the intergrove areas with Cotton Panic, Wire, Woollybutt and other perennial grasses adjacent to trees.
Boen Two (Bo-2) Very broad rises with gentle slopes. The landscape drains by surface flows and does not have defined drainage routes. Red earths, Ironstone gravel sometimes present on the surface. Dense shrublands of groved Mulga with some Witchetty Bush over mainly mulga perennial pasture (Woollybutt, Wire, Kerosene, with minor Woollyoat and Mulga grasses).
<b>PLAINS Continued...</b> Chahom (Ch) Undulating to dissected plains with frequent entrenched valleys. Predominantly red earth soils. Small areas of calcareous soil, Ironstone gravel on gentle rises and outcrop areas. Mainly mulga annual with open Mulga over Woollyoat and Mulga grasses. Curly Windmill grass and other perennials along watercourses. Areas of calcareous shrubby grassland with Witchetty Bush and cassias over Oat grass, perennial grasses and forbs.
Undippa (Un) Plain with occasional distributary channels and gullies. Red cracking clay. Some areas of red, non cracking clay, Mitchell and Neverfall grasses with Feathertop Wire and Oat grasses, and forbs such as aloes, Fleckers and Button grasses present after summer rains. Non cracking soils grow mainly Neverfall grass.
<b>ALLUVIAL PLAINS</b> Bushy Park One (Bp-1) Extensive, featureless alluvial plains with a very slight slope away from the ranges. Dense shrublands of groved Mulga with some Witchetty Bush and Broombush over mainly annual Woollyoat and Mulga grasses. Areas of harder 'mulga perennials' (i.e. Woollybutt and Wire grass pastures).
Hamilton (Hm) Gently sloping plains and alluvial fans traversed by shallow distributary creek channels. Small areas of floodplain. Predominantly sandy alluvial soils. Areas of red earth. Floodplains typically have texture contrast soils (a thin sandy loam overlying clay subsoil). Open woodland of Whitewood and Supplejack with occasional Bloodwood, Ironwood, Witchetty Bush, Mulga and cassia species over annual Woollyoat and Mulga grasses and perennial Curly Windmill grass at tree bases. Areas of mulga annual on red earth soils. Floodplains have Cottonbush and perennial Umbrella and Curly Windmill grasses.
<b>SAND PLAINS</b> Singleton (Sn) Sandplain. Red clayey sands. Sparse Mulga, Witchetty Bush and low shrubs over Spinifex, minor other grasses and forbs.
<b>DRAINAGE SYSTEMS</b> Bond Springs Two (Bs-2) Broad flat drainage floors. Deep red earths tending to sandy clays and clays. Dense Mulga with minor Ironwood and Broombush. Tree cover restricts pasture growth. Sparse pastures (where present) of Woollybutt, Neverfall, Silky Browtop, Mulga and Woollyoat grasses.

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<b>DRAINAGE SYSTEMS Continued...</b> McGrath One (Mg-1) Drainage channels and their associated active and outer floodplains. Variable but generally of heavy texture: clay loams, sandy clays, some areas of red earth and texture contrast soils. Variable depending on soil type and water relationships (i.e. frequency of flooding). Large areas of Cottonbush flat with palatable perennial and annual grasses. Cooler dunes open to timbered with Ironwood, Mulga, Dead Finish, Witchetty Bush and Broombush over Curly Windmill, Umbrella, Silky Browtop, tall grasses and annuals. Small areas with heavy red clays growing Neverfall and some Mitchell grass.
McGrath Two (Mg-2) Broad flat floodplains. Neutral red earths, of sandy clay loam texture. Predominantly tall, dense Mulga which restricts pasture growth. Sparse perennial grasses (Cotton Panic, Umbrella and Curly Windmill grasses), annual Woollyoat and Mulga grasses and forbs.

**Example of Land System Description**

**Bibliographic Reference:**  
Bastin, G., Dobbie, W. (1987) Range Condition assessment report: Yambah Station  
Department of Primary Production, Alice Springs, Northern Territory.

**Please Note:**  
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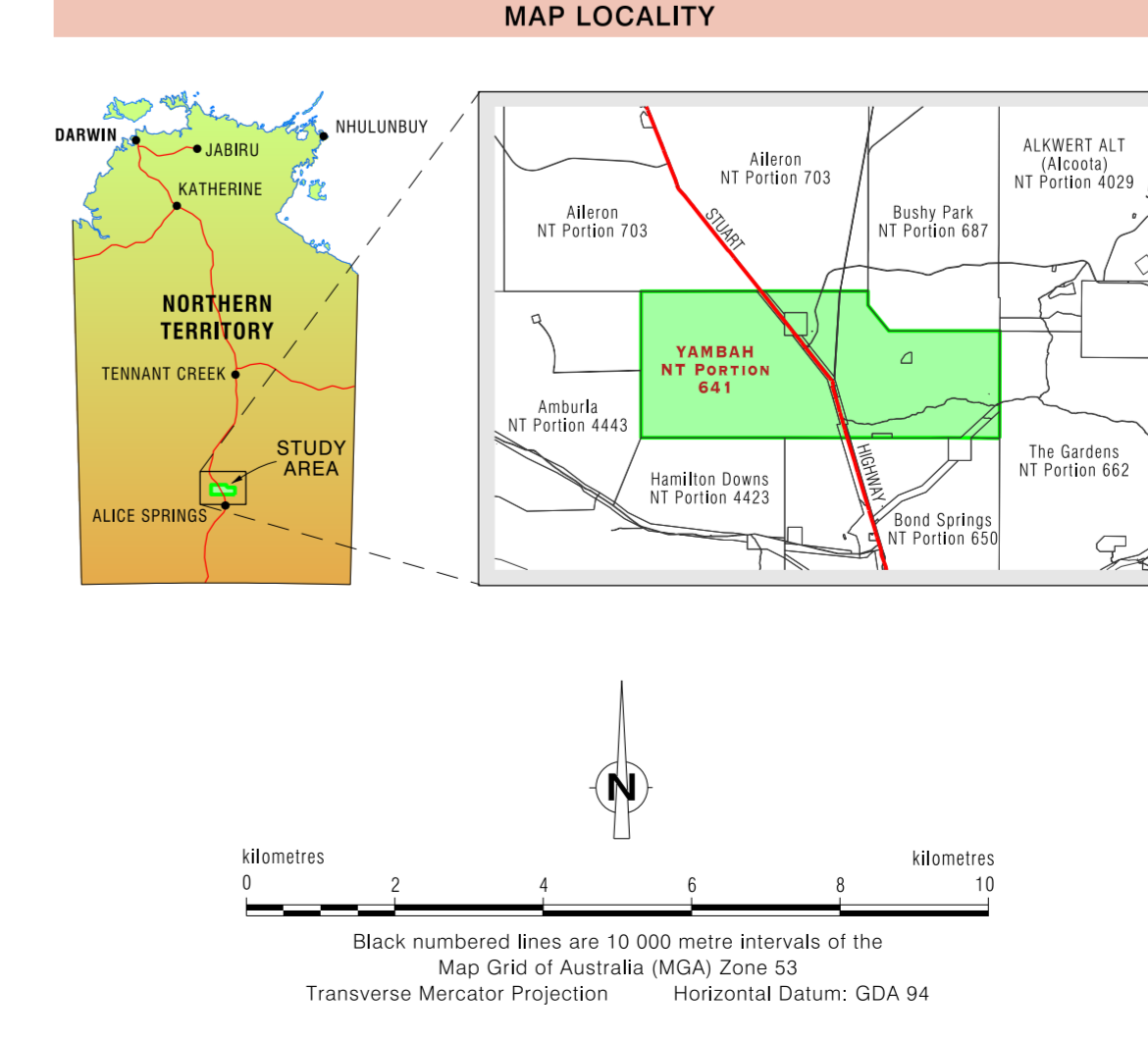
**GENERAL FEATURES**

Land unit boundary	Water Bore	Red Rock Bore
Property boundary	Dam	Burt Dam
Aboriginal Land	Tank	Water Tank
Stock Route	Trough	Water Trough
Pastoral homestead	Stock Yard	Yard
Family outstation	Water pipeline	
Highway	Drainage	
Minor road: unsealed	Lake	
Local road: track	Lake (non-perennial)	
Railway	Relief feature	
Railway Crossing	Range or Plain	
Landing ground	Spot height	
Fence	Relief ridge	
Paddock name		

**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.

**Cartography by:**  
Ralf Kobershten and Deborah Mullin - Geospatial Services  
Department of Environment, Parks and Water Security  
Northern Territory of Australia.

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**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 unmaped variations and to confirm the mapping accuracy on the ground.

**For further information contact:**  
Department of Environment, Parks and Water Security  
Director, Land Assessment, Ranges and Water Security  
Ph: (08) 8999 4478 Email: rangeland@nt.gov.au  
Level 5, Goyder Centre, 25 Chung Wah Terrace,  
Palmerston, Northern Territory of Australia  
Web: https://depws.nt.gov.au  
Geospatial Information: https://nmmaps.nt.gov.au

**NORTHERN TERRITORY GOVERNMENT**

**LAND RESOURCES of YAMBAH STATION**