


LAND SYSTEM
Ross Flats

198121

Area (ha):
8298



| COMPONENT | A | B | C | D | E |
|--|--|--|--|--|--|
| PROPORTION (%) | 30 | 30 | 20 | 10 | 10 |
| RAINFALL (mm) | Approximate Annual Rainfall: 375-500 | | | | |
| GEOLOGY | Quaternary Clays, Sands, Gravels | | | | |
| TOPOGRAPHY | Flats | | | | |
| Position | Upper Terraces | | | Recent Floodplains | |
| Typical Slope (°) | 0 | | | 0 | |
| NATIVE VEGETATION Structure | Woodland | | | | |
| Floristic Association (See Appendix 1 for common names) | <u>Lomandra longifolia</u> <u>Themeda australis</u> | <u>Eucalyptus ovata</u> | <u>Eucalyptus viminalis</u> <u>Lomandra longifolia</u> <u>Acacia dealbata</u> | <u>Eucalyptus ovata</u> | |
| SOIL | | | | | |
| Surface (A) Texture | Loam/Silty Clay Loam | Clay Loam | Sand /Loamy Sand | Sand/Loamy Sand | Light to Medium Clay |
| B Horizon(subsoil) Colour (moist) Texture and primary profile form | Deep medium clay - Dark brown (10 YR 3/3) to dark yellowish brown (10 YR 3/4). Duplex. | Deep heavy clay - Dark yellowish brown (10 YR 4/6) to brown (10 YR 5/3). Duplex. | Deep sandy clay - dark grey (10 YR 4/1) with yellowish brown (10 YR 5/6) mottle. Duplex. | Deep sand - very dark brown (10 YR 2/2) to brown (10 YR 5/3). Uniform. | Deep medium clay - Black (10 YR 2/1) to very dark greyish brown (10 YR 3/2) with dark yellowish brown (10 YR 4/6) mottle. Uniform. |
| Permeability | Moderate/Low | Moderate/Low | High | High | Low |
| Typical depth(m) | >1.40 | >1.40 | >1.40 | >1.40 | >1.40 |
| LAND USE | Grazing, Cropping | | | | |
| HAZARDS | Moderate/High Sheet, Rill, Streambank Erosion | | | Flooding, Waterlogging | |

ROSS FLATS

This land system includes river terraces and alluvial fans associated with the Macquarie River near Ross. The area receives an average annual rainfall of less than 500 mm (20 inches).

Deep duplex soils are widespread on the upper terraces with surface textures ranging from loams to sands, over dark brown to dark yellowish brown clays. Deep uniform sands are also present on these upper terraces. Floodplains often contain deep, mottled uniform or gradational clays ranging from black to dark yellowish brown. Most of the native woodland vegetation has been cleared for grazing and cropping. Remnant individuals of *Eucalyptus viminalis* occur on the terraces, with *Eucalyptus ovata* along the drainage lines.

Flooding and waterlogging hazards as well as streambank erosion occur along drainage lines.

The deep soils are described by Learny (1961) as among the most fertile in the district.

Salting problems occur in localised areas, but are not as widespread as in the adjoining Tunbridge Flats (173121) Land System to the south.



Floodplain on the Macquarie River in the Ross Flats (198121) Land System. The dolerite hills in the background are part of the She Oak Spur (172131) Land System.