

# 293123

## MTJOY

Quaternary wind blown sands form isolated dunes, sand sheets and lunettes on the eastern side of the Macquarie River along the Mt Joy and Valleyfield Roads. Areas of dolerite too small to map separately have been included in this system. The sands which form this system are probably derived from the closely related Lower Hummocky Hills (272131) and Valleyfield (273121) Land Systems.

The generally deep sand soils often have a shallow organic surface layer. Jurassic dolerite forms small outcrops and is also evident in some profiles below the sand soil.

Cabbage gum, silver wattle and black peppermint dominate the woodland vegetation. Large areas of the system have a dense ground cover of bracken fern.

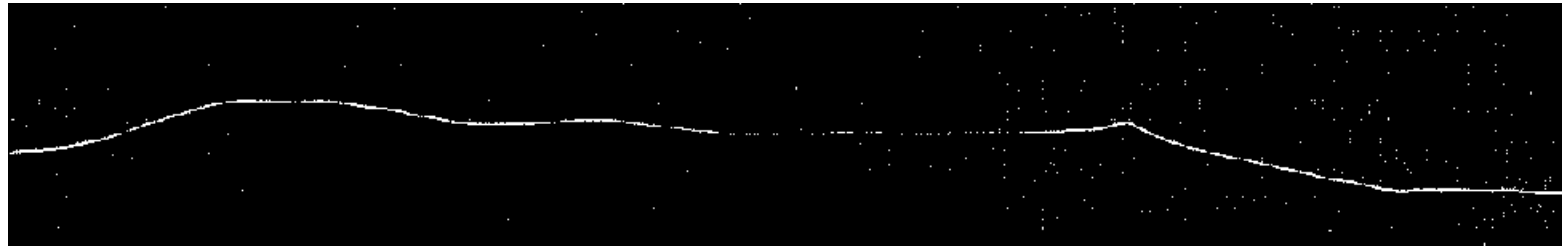
Grazing is the major land use, although undeveloped areas serve as zones of nature conservation.

The sand soils are particularly susceptible to wind erosion.

**LAND SYSTEM**

293123

Mt Joy



|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| COMPONENT           | 1                                                                                  |
| PROPORTION %        | 100                                                                                |
| CLIMATE             | Average Annual Rainfall 500-625 mm                                                 |
| GEOLOGY             | Quaternary— locally derived wind-blown sands                                       |
| TOPOGRAPHY          |                                                                                    |
| Land form           |                                                                                    |
| Position            | Isolated dunes, sheets and lunettes, often covering dolerite                       |
| Average Sideslope ° | 2                                                                                  |
| NATIVE VEGETATION   |                                                                                    |
| Structure           | Woodland                                                                           |
| Association         | Cabbage gum, silver wattle, black peppermint, honeysuckle, white gum, bracken fern |
| SOIL                |                                                                                    |
| Surface Texture     | Yellowish red (5 YR 5/6) sand soil, uniform texture with organic surface           |
| Permeability        | High                                                                               |
| Average Depth m     | >2.0                                                                               |
| PRESENT LAND USE    | Grazing, nature conservation                                                       |
| HAZARDS             | Severe wind erosion                                                                |