

Category	Element	Comment
Data	Title	Land Use in Gippsland 1996-7, Victoria
	Custodian	Department of Natural Resources and Environment
	Jurisdiction	Victoria
Description	Abstract	<p>Land Use in the East and West Gippsland Catchment Management Authority Regions of Victoria is mapped for 1996-97 at 1:100,000 scale across the area and at 1:25,000 scale for an intensively used area in West Gippsland.</p> <p>The classification of land uses is based on 4 sources of information: (1) Resource data sets of Victoria held at Corporate Geospatial Data Library (CGDL) of the Department of Natural Resources and Environment, (2) Satellite imagery from Landsat 5 and SPOT 2 satellites for summer of 1996-7, (3) geocoded Australian Bureau of Statistics Agricultural Statistics, and (4) Field information.</p> <p>The land use are mapped according to the Australian Land Use and Management Classification, Version 4. The classification is hierarchical in nature, identifying primary (broadest land use), secondary, and tertiary levels. The five primary levels show a gradation in terms of human intervention in natural environment.</p> <p>This product was produced for the Gippsland Implementation Project, as part of a National Land and Water Resources Audit.</p>
	Search Word(s)	
	Geographic Extent Name(s)	Gippsland, Victoria
	OR	
	Geographic Extent Polygon(s)	Minimum longitude: 145.33 E Minimum latitude: 36.75 S Maximum longitude: 150 E Maximum latitude: 39.20 S
Data Currency	Beginning date	1996
	Ending date	1997
Data Status	Progress	Complete
	Maintenance and Update Frequency	Unknown
Access	Access Constraints	Public
	Stored Data Format	ArclInfo *.e00 export format
	Available Format	ArclInfo *.e00 export format & ArclInfo coverage
Data Quality	Lineage	Existing data sets used in the classification were as follows: 1. 1:25 000 scale land parcel polygons and attributes (PARCEL). 2. Land management information (LandMMT100). 3. Ecological classes of flora and fauna (EVC100). 4. Mining leases and licenses (MINML100). 5. Grazing licences on crown land (AGLIC). 6. Groundwater bores (BORES100). 7. Hydrology line coverage (HYDRO100). 8. Hydrology polygon coverage (HYDRP100). 9. Roads and their attributes (ROAD25). 10. Structural vegetation (SVEG100). 11. Collaborative Australian Protected Areas Database

		<p>(CAPAD99).</p> <p>Satellite imagery was an important input to the land use classification. Five sub-scenes of Landsat TM imagery were acquired to cover the whole of Gippsland. Clouded portions were substituted with SPOT XS imagery. In addition, higher resolution (10m pixel) SPOT Panchromatic scenes were acquired for the intensive mapping areas of West Gippsland. The dates of acquired imagery were between 8 December 1996 and 12 March 1997.</p> <p>Data integration was achieved by converting all input data sets to a common raster or grid format with a uniform raster size of 25 m.</p> <p>Areas of Primary Class 1 (<i>Conservation</i>), Primary Class 2 (<i>Primary Production from Relatively Natural Environments</i>), and Primary Class 5 (<i>Intensive Uses</i>) were identified using CGDL data sets. The approach to the land use classification for Primary Class 3 - <i>Dryland Agriculture</i> and Primary Class 4 - <i>Irrigated Agriculture</i> included the steps to integrate data sets of imagery-based vegetation classes, geocoded ABS agricultural statistics, and irrigation infrastructure. The integrated data sets were then edited on the basis of logical occurrence of agricultural land uses.</p> <p>The classification process was carried out on integrated data sets in Arc/Info™ Grid format.</p> <p>Field verification was carried out at various stages during the course of project implementation. Initial field verifications helped develop and validate the classification methodology, while the final verification provided an assessment of the classification accuracy.</p>
	Positional Accuracy	<p>25 – 100 m produced at 1:100,000 scale. Map Projection: Geographic; Units: Decimal degrees; Datum: GDA94.</p>
	Attribute Accuracy	<p>The attributes have been mapped to Version 4 of the ALUMC (Bureau of Rural Sciences (2001) Mapping at Catchment Scale. Principles, procedures and definitions. May 2001. Edition 1. National Land & Water Resources Audit, Canberra).</p> <p>The attributes described are: primary – primary land use description secondary – secondary land use description tertiary – tertiary land use description T_code_v4 – character code matching the ALUMC numbering Code_v4 - numeric code matching the ALUMC numbering</p> <p>Attributes were matched with the national classification scheme. Accuracy assessment was done on 15.5% sample area and was found to be 98% correct.</p> <p>The final feedback was obtained for three high intensity land use areas of Gippsland around Sale, Maffra, and Stratford. This covered about 600,000 ha (15.5% of KIA). According to final feedback, only about 2% of the area had been incorrectly classified.</p> <p>Although the overall content accuracy was assessed as very high, the following points should be noted regarding the definitions of certain land use classes:</p> <ol style="list-style-type: none"> 1. Some native grasses do exist on some private properties, but it was not possible to differentiate them spatially from the class Grazing improved & fertilised pastures. 2. Information on Farm Forestry was not available to spatially

		distinguish it from Production Forest or from Plantations. 3. Roads are derived from the differential buffer of the existing CGDL line cover of ROAD25. 4. Rural residential areas have not been mapped.
	Logical Consistency	Data sets were integrated into grid format for classification process.
	Completeness	All polygons < 0.25 ha have been omitted except for the class of Intensive Uses. A small portion of land (0.07%) is classed, as 'Fallow/Unknown' where the current land use was indeterminate.
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Additional Metadata	Additional Metadata	Sposito, V, Abuzar, M and Morris, M (2000) Land Use Mapping: East and West Gippsland Cathment Management Authority Regions. Final Report. National Land & Water Resources Audit, Canberra and Department of Natural Resources and Envrionment, Victoria.