Catchment Scale Land Use Mapping for Western Australia 2018 – tiles

Description of contents of the 7 tiles zip files

2021-07-30 Another resource has been added. The vector geodatabase has been cut into 7 shapefile tiles. This reduces the file size and enables more analysis. The extent of tiles is shown below:

- Swan Natural Resource Management region,
- South West Natural Resource Management region,
- South Coast Natural Resource Management region,
- Northern Agricultural Region Natural Resource Management region,
- Peel Harvey Natural Resource Management region,
- Avon Natural Resource Management region,
- Rangelands Natural Resource Management region.

A map of the tiles is shown in Figure 1.

This dataset is another format of the *Catchment Scale Land Use Mapping for Western Australia 2018.* Land use is classified according to the *Australian Land Use and Management (ALUM) Classification version 8*. All spatial data were produced using ESRI ArcGIS 10.6 and ArcGIS Pro 2.2. This should be used in conjunction with the Descriptive Metadata – Catchment Scale Land Use 2018.

Table 1 describes the principal file components of the tiles packages.

Table 2 is a data dictionary for the attributes of the *Catchment Scale Land Use Mapping for Western Australia 2018* vector dataset.
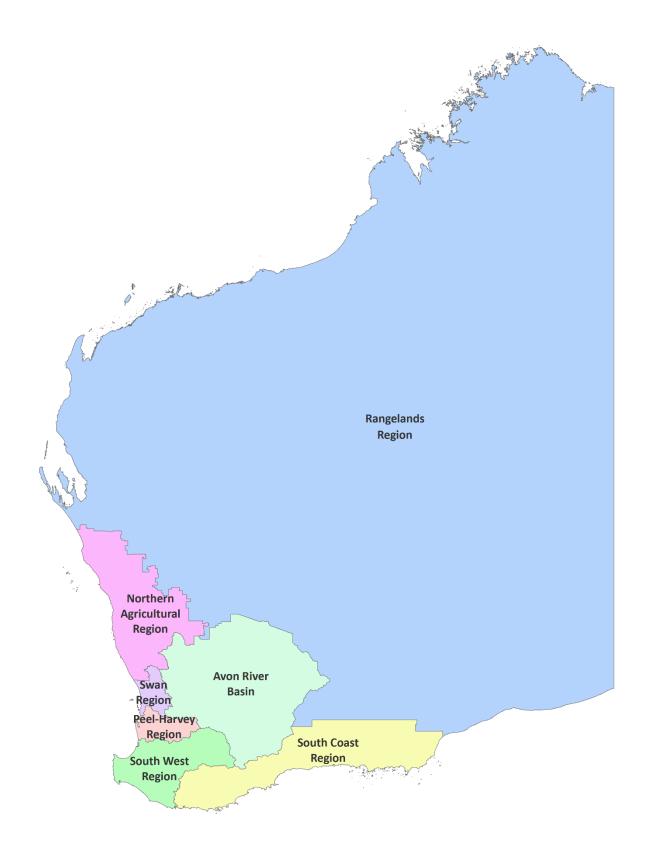
Figure 1 Tiles for Catchment Scale Land Use of Western Australia 2018

Table 1: Brief description of the contents of this data package

File name	File description
WA_CLUM_August2018_Avon.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for Avon Natural Resource management region. Coordinate system GDA94 / Geographic.
WA_CLUM_August2018_NorthernAgricultural.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for Northern Agricultural Region Natural Resource management region. Coordinate system GDA94 / Geographic.
WA_CLUM_August2018_PeelHarvey.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for Peel Harvey Natural Resource management region. Coordinate system GDA94 / Geographic.
WA_CLUM_August2018_Rangelands.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for Rangelands Natural Resource management region. Coordinate system GDA94 / Geographic.
WA_CLUM_August2018_SouthCoast.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for South Coast Natural Resource management region. Coordinate system GDA94 / Geographic
WA_CLUM_August2018_SouthWest.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for South Coast Natural Resource management region. Coordinate system GDA94 / Geographic.
WA_CLUM_August2018_Swan.shp	Shapefile of Catchment Scale Land Use Mapping for Western Australia 2018 for Swan Natural Resource management region. Coordinate system GDA94 / Geographic.
WA_Landuse_August2018.gdb	File geodatabase of Catchment Scale Land Use Mapping for Western Australia 2018. Coordinate system GDA94 / Geographics.
WA_CLUM2018_DatasetDescription.pdf	This document, which describes the GIS data, supporting files and GIS dataset attributes published in this data package.
ALUMCv8_Handbook4ednPart2_UpdateOctober2016.pdf	ABARES 2016, *The Australian Land Use and Management Classification Version 8, Detailed*, Australian Bureau of Agricultural and Resource Economics and Sciences, Canberra.
ALUM_classification_table.pdf	Table of classification codes used in the application of ALUM classifications to land use. Version 8 (October 2016)
WA_CLUM2018_ALUM_secondary.lyr	ESRI ArcGIS layer file for the *Catchment Scale Land Use Mapping for Western Australia 2018* feature class. The ALUM secondary class symbology groups the tertiary ALUM text code (LU_CODEV8 field) into the secondary classes of the ALUM classification. ALUM class 5.4 is subdivided into: rural residential and farm infrastructure (5.4.2, 5.4.3, 5.4.4, 5.4.5); and, urban residential (5.4.0 and 5.4.1).
WA_CLUM2018_ALUM_secondary_lyr.pdf	Description of the layer file. Provides the RGB values, labels and unique values grouped in the symbology of this layer file.
WA_CLUM2018_map_ALUM_secondary.pdf	Land use map showing the *Catchment Scale Land Use Mapping for Western Australia 2086* dataset, based on the ALUM secondary classes. Includes inserts showing the currency and scale of mapping in the dataset. Map produced in portrait format, at A0 size (841 millimetres by 1189 millimetres), and suitable for printing at A3 size (297 millimetres by 420 millimetres).

Table 2: Data dictionary for the attributes of the *Catchment Scale Land Use Mapping for Western Australia 2018* vector dataset

Field name	Field description	Code values
alum	3 digit representation of ALUM (v8) classification	Integer numeric value. Range: 110 to 661
source	Unique source dataset identifier as text. See Table 3 for listings of dataset identifiers.	Text, width 20
year	Currency year of source dataset as a 4 digit integer.	Integer numeric value, Range: 2008 to 2018
scale	Source dataset reported scale as a string.	Text, width 15. Range: "1:5 000" to "1:250 000"
Commod_desc	Commodity description for selected land uses as a string. Examples: "Marron" "Olives"	Text, width
LU_CODEV8	ALUM code as text. Primary, secondary and tertiary codes are separated with a full stop character.	Text, width 5. Range: "1.1.0" to "6.6.1"
LU_CODEV8N	ALUM code as a three digit integer. First digit is primary code, second digit is secondary code, and third digit is tertiary code.	Integer numeric value. Range: 110 to 661
TERTIARY_V8	ALUM tertiary code and description as a string. Examples: "1.3.3 Residual native cover" "4.4.1 Irrigated tree fruits"	Text, width 100
SECONDARY_V8	ALUM secondary code and description as a string. Examples: "1.3 Other minimal use" "4.4 Irrigated perennial horticulture"	Text, width 100
PRIMARY_V8	ALUM primary code and description as a string. Examples: "1 Conservation and natural environments" "4 Production from irrigated agriculture and plantations"	Text, width 100

Note: all ALUM codes refer to the Australian Land Use and Management classification, version 8.

Table 3: Source dataset identifiers

Source	Year	Scale	Dataset	Custodian
CAD_OCL_2012 (other minimal use)	2012	1:100 000	CadLite 2012; Tenure of Australia's forests (2013) v2.0	PSMA; ABARES
CAPAD_2016 (protected areas)	2016	1:250 000	Collaborative Protected Areas Database (CAPAD) 2016	Department of the Environment and Energy
CapeToCape2014 ('Cape to Cape' land use)	2014	1:10 000	Land Use in the Busselton (1930) and Leeuwin (1929) mapsheets. Alias 'Cape to Cape' Land Use 2014	Department of Primary Industries and Regional Development, WA
CultFeat_LGATE-029 (cultural land uses)	2016	1:20 000	Medium Scale Topo Cultural Features (Polygon) (LGATE-029)	Landgate
DairyProperties_2015 (dairy sheds and yards)	2015	1:5 000	Dairy Sheds and Yards	Department of Primary Industries and Regional Development, WA
DefenceAreas_2013 (defence land)	2013	1:25 000	Defence Cadastre 2013	Department of Defence
DCLDV2-1_2014-15 (pastures in wheatbelt)	2014-15	1:250 000	Dynamic Land Cover Dataset v2.1. (DLCDv2.1) MODIS EVI January 2014-December 2015	Geoscience Australia
ExtentNativeVeg_2016 (residual native cover)	2016	1:10 000	Native Vegetation Extent (DAFWA-001)	Department of Primary Industries and Regional Development, WA
ForestEstate_WA_2012 (production native forests)	2012	1:100 000	Forest Estate 2012	Department of Parks and Wildlife, WA
GenFac_LGATE_107 (services)	2016	1:20 000	Medium Scale Topo General Facility (Polygon) (LGATE-107)	Landgate
HIA_20171025 (mangoes, macadamias and avocados)	2016	1:10 000	Horticulture Innovation Australia, Industry Engagement Web Map	Horticulture Innovation Australia
HydroPolys_Eff_Tail (effluent and mine tailings - HydroPolys)	2008	1:250 000	GEODATA TOPO 250K 2016	Geoscience Australia
IndigProtected_2016 (indigenous protected areas)	2014	1:250 000	Indigenous Protected Areas 2014	Department of the Environment and Energy
Indstrl_LGATE-110 (standing water and pondage features)	2016	1:20 000	Medium Scale Topo Industrial (Polygon) (LGATE-110)	Landgate
LndngGrnd_LGATE-035 (airport footprints)	2016	1:20 000	Medium Scale Topo General Transport (Polygon) (LGATE-035)	Landgate

LU_Ginigin_2013 (land use Gingin area)	2013	1:10 000	High Quality Agricultural Land Use Gingin 2013	Department of Primary Industries and Regional Development, WA
LU_NAR_2013 (land use Northern Agricultural Region)	2013	1:10 000	Land Use in the Northern Agricultural Region 2013	Department of Primary Industries and Regional Development, WA
LUInWA_2008 (land use in Western Australia)	2008	1:10 000	Catchment Scale Land Use in Western Australia 2008	Department of Primary Industries and Regional Development, WA
MeshBlock_IndRes_16 (industrial and residential - Built-up areas)	2016	1:250 000	Western Australia Mesh Blocks Australian Statistical Geography Standard (ASGS): Volume 1 - Main Structure and Greater Capital City Statistical Areas, July 2016	Australian Bureau of Statistics
MeshBlocks_2016 (mesh blocks)	2016	1:250 000	Western Australia Mesh Blocks Australian Statistical Geography Standard (ASGS): Volume 1 - Main Structure and Greater Capital City Statistical Areas, July 2016	Australian Bureau of Statistics
PastoralProp_2016 (grazing native vegetation)	2016	1:10 000	Pastoral Property Boundaries 2016 (extracted from Client Property Event (CPE) Property database)	Department of Primary Industries and Regional Development, WA
Road_Network_June18 (road polygons)	June 2018	1:10 000	IRIS Road Network (MRWA-514)	Main Roads WA
TopoDataMines_2016 (mining)	2016	1:100 000	GEODATA TOPO 250K 2016	Geosciences Australia
WA_intensive_mar2018 (intensive animal and plant production, horticulture, irrigated cropping)	2016-18	1:5 000	Intensive Land Use Layer March 2018	Department of Primary Industries and Regional Development, WA
Water_LGATE-016 (hydrological features)	2016	1:20 000	Medium Scale Topo Water (Polygon) (LGATE-016)	Landgate
WheatBelt_crop_2016 (wheatbelt cropping)	2016	1:20 000	WA Wheatbelt Boundary Extent 2010	Department of Primary Industries and Regional Development, WA
WorldHeritArea2015 (other conserved areas)	2015	1:250 000	World Heritage Areas 2015	Department of the Environment and Energy