

# Data Dictionary: Vegetation and heat mapping for metropolitan Melbourne

October 2018

## Vegetation Cover 2014

Field Name	Description	Type	Notes
OBJECTID	System generated identifier		
gid	Unique Feature Identifier	Integer	Unique identifier for the original Mesh Block.
is_road	Linear Feature Category	Text	Values of 't' or 'f' (true or false). While most cases of 't' indicate roads, other linear features (e.g. waterways) may also be categorised as 't'.
key	Unique Feature Identifier	Integer	Unique identifier for each Modified Mesh Block element, created as <i>to_int(concat(to_string(gid),if("is_road" = 't', '01', '00')))</i> .
MB_CODE16	Mesh Block Code	Text	ABS 2016
MB_RECLASS	Reclassified Mesh Block Land Use Category	Text	Addition of "road" designation to land use classification. "road" value may include road, rail or linear waterways.
MB_CAT16	Land Use Category	Text	ABS 2016
SA1_MAIN16	SA1 Code 11 Digits	Text	ABS 2016
SA1_7DIG16	SA1 Code 7 Digits	Text	ABS 2016
SA2_MAIN16	SA2 Code 9 Digits	Text	ABS 2016
SA2_5DIG16	SA1 Code 5 Digits	Text	ABS 2016
SA2_NAME16	SA2 Name	Text	ABS 2016
SA3_CODE16	SA1 Code 5 Digits	Text	ABS 2016
SA3_NAME16	SA3 Name	Text	ABS 2016
SA4_CODE16	SA1 Code 3 Digits	Text	ABS 2016
SA4_NAME16	SA4 Name	Text	ABS 2016
GCC_CODE16	Greater Capital City Code	Text	ABS 2016
GCC_NAME16	Greater Capital City Name	Text	ABS 2016
LGA_CODE16	Local Government Area Code	Text	ABS 2016
LGA_NAME16	Local Government Area Name	Text	ABS 2016
UCL_CODE16	Urban Centre/Locality Code	Text	ABS 2016
UCL_NAME16	Urban Centre/Locality Name	Text	ABS 2016
SSR_CODE16	ABS - Section of State range descriptor	Text	ABS 2016



Field Name	Description	Type	Notes
SSR_NAME16	ABS - Section of State range code	Text	ABS 2016
SOS_CODE16	ABS - Section of State Code	Text	ABS 2016
SOS_NAME16	ABS - Section of State Description	Text	ABS 2016
PerGrass	Percentage Grass Cover (i.e where vegetation height is less than 0.5m).	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
PerShrub	Percentage Shrub Cover (i.e. where vegetation height is between 0.5m and 3m).	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
PecTr3_10m	Percentage Tree cover where vegetation height is in range 3 to 10m.	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
PerTr10_15m	Percentage Tree cover where vegetation height is in range 10 to 15m.	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
PerTr15mPI	Percentage Tree cover where vegetation height is over 15m.	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
FullArea	Total Area of Cells recorded with vegetation within unique modified mesh block	Double	CSIRO 2014. Note Full Area refers to the total area of cells measured within each UniqueID. Percentage values are calculated based on this area NOT the vector based feature area.
Null_Area	Total Area of Cells within unique modified mesh block that return a null value	Double	Null Area cells are not used in the calculation of percentage values.
PerAnyVeg	Percentage cover by any vegetation (PerGrass + PerShrub + PerTr3_10m + PerTr10_15m + PerTr15mPI)	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
PerAnyTr	Percentage cover by any trees (PerTr3_10m + PerTr10_15m + PerTr15mPI)	Double	CSIRO 2014. Percentage values are calculated based on a percentage of the FullArea not the vector based feature area.
PerTrAndSh	Percentage cover by any trees (PerTr3_10m + PerTr10_15m + PerTr15mPI)	Double	CSIRO 2014
AreaGrass	Area of Grass Cover (i.e where vegetation height is less than 0.5m).	Double	CSIRO 2014
AreaShrub	Area of Shrub Cover (i.e. where vegetation height is between 0.5m and 3m).	Double	CSIRO 2014
ArTr3_10m	Area of tree cover where vegetation height is in range 3 to 10m.	Double	CSIRO 2014
ArTr10_15m	Area of tree cover where vegetation height is in range 10 to 15m.	Double	CSIRO 2014



Field Name	Description	Type	Notes
ArTr15mPlu	Percentage tree cover where vegetation height is over 15m.	Double	CSIRO 2014
AreaAnyVeg	Area cover by any vegetation (AreaGrass + AreaShrub + ArTr3_10m + ArTr10_15m + ArTr15mPI)	Double	CSIRO 2014
AreaAnyTr	Area cover by any trees (ArTr3_10m + ArTr10_15m + ArTr15mPI)	Double	CSIRO 2014
AreaTrAndShr	Area cover by trees and shrubs (AreaShrub + ArTr3_10m + ArTr10_15m + ArTr15mPI)	Double	CSIRO 2014
Ownership	Approximation of ownership type (private or public). See classification structure on LandUseMatrix Tab.	Text	For indicative analysis only.
Shape_Leng	ArcGIS autogenerated field. Perimeter length (metres).	Double	
Shape_Length	ArcGIS autogenerated field. Perimeter length (metres).	Double	
Shape_Area	ArcGIS autogenerated field. Shape_area (metres).	Double	

## Heat Vulnerability Index 2014

Field Name	Description	Type	Notes
OBJECTID	System generated identifier	Object ID	ArcGIS Object ID
Shape	Geometry type - Polygon	Geometry	Geometry
SA1_MAIN16	SA1 Code 11 Digits	Text	ABS 2016
SA1_7DIG16	SA1 Code 7 Digits	Text	ABS 2016
SA2_MAIN16	SA2 Code 9 Digits	Text	ABS 2016
SA2_5DIG16	SA1 Code 5 Digits	Text	ABS 2016
SA2_NAME16	SA2 Name	Text	ABS 2016
SA3_CODE16	SA1 Code 5 Digits	Text	ABS 2016
SA3_NAME16	SA3 Name	Text	ABS 2016
SA4_CODE16	SA1 Code 3 Digits	Text	ABS 2016
SA4_NAME16	SA4 Name	Text	ABS 2016
GCC_CODE16	Greater Capital City Code	Text	ABS 2016
GCC_NAME16	Greater Capital City Name	Text	ABS 2016
STE_CODE16	State code	Text	ABS 2016
STE_NAME16	State name	Text	ABS 2016



Field Name	Description	Type	Notes
AREASQKM16	Area in sqkm	Double	CSIRO 2014. Note Full Area refers to the total area of cells measured within each UniqueID. Percentage values are calculated based on this area NOT the vector based feature area.
HVI	Average Land Surface Temperature (LST) difference in Celsius degree for each meshblock to the baseline LST defined by CSIRO	Short	Numeric
Shape_Length	ArcGIS autogenerated field. Perimeter length (metres).	Double	Numeric
Shape_Area	ArcGIS autogenerated field. Shape_area (metres).	Double	Numeric

## Land Use Matrix

MB_CAT16	MB_RECLASS	Ownership	FREQUENCY
Commercial	Commercial	Private	3148
Commercial	Road	Public	3146
Education	Education	Public	1329
Education	Road	Public	1315
Hospital/Medical	Hospital/Medical	Public	150
Hospital/Medical	Road	Public	142
Industrial	Industrial	Private	1618
Industrial	Road	Public	1616
Other	Other	Public	462
Other	Road	Public	462
Parkland	Parkland	Public	5096
Parkland	Road	Public	4540
Primary Production	Primary Production	Private	666
Primary Production	Road	Public	666
Residential	Residential	Private	43307
Residential	Road	Public	43066
Transport	Road	Public	428
Transport	Transport	Public	392
Water	Road	Public	47
Water	Water	Public	106
			111702