

Statewide wetland geospatial inventory update

Factsheet 8: Attributes of the statewide wetland geospatial inventory

Purpose

This Factsheet describes and defines the attributes of the statewide wetland geospatial inventory.

Wetland datasets and formats

The statewide wetland geospatial inventory is comprised of two primary datasets, WETLAND 2013 and WETLAND 1788_V2013 (the latter will supersede the original Wetland 1788 layer). Both datasets have been produced in a simplified format, with Wetland 2013 also produced in a detailed format (WETLAND 2013_Detailed). The simplified format provides the final results of the mapping, while the detailed format describes the lineage (e.g. methods, data sources, user notes) of the mapping.

The simplified format contains attributes that describe the current understanding of the characteristics of each wetland. It is intended that the simplified format will be distributed as the primary geospatial inventory of wetlands in Victoria.

The detailed format contains a much larger array of attribute information. It not only describes the current understanding of wetland characteristics, but also describes how that understanding was developed. It is intended that the detailed format will be held by DEPI and accessible on an as-needs basis for further wetland inventory development and analysis.

The Wetland 2013 and Wetland 1788 datasets include a total of 33 and 12 attributes respectively in their simplified format, and the Wetland 2013_Detailed dataset includes a further 15 attributes in its detailed format. Many of these attributes are common to both Wetland 2013 and 1788, but a large number are only applicable to Wetland 2013 and a small number are only applicable to Wetland 1788.

Attributes for the simplified format

The simplified format is provided as two separate datasets for Wetland 2013 and Wetland 1788. Both these datasets are comprised of the spatial geometry data (i.e. polygons) and an accompanying attribute table. The attributes in each of these datasets are outlined in Table 1. Table 2 lists the typical/possible values of each attribute.

Table 1. Attributes in the simplified format of Wetland 2013 and Wetland 1788

#	Attribute name	Description	Wetland 2013	Wetland 1788
1	OBJECTID	Auto-generated unique integer ID for each polygon in the dataset	Y	Y
2	Wetland_No	Unique number identifying each wetland	Y	Y
3	Name_Main	Main name given to the wetland	Y	Y
4	Name_Alt	Alternative name given to the wetland	Y	N
5	Aq_Sys	Wetland system class	Y	N
6	Aq_Sys_Con	Wetland system confidence	Y	N
7	Sal_Regime	Salinity regime class	Y	N
8	WtrReg	Water regime class	Y	N
9	WtrReg_Con	Confidence in water regime classification	Y	N
10	Src_Tide	Water source classification for tidal / non-tidal	Y	N
11	Src_Rvr	Water source classification for riverine flows. Expressed as the likelihood that the wetland receives water from riverine flows.	Y	N
12	Src_Rvr_Con	Confidence in river water source classification	Y	N
13	Src_GW	Water source classification for groundwater. Expressed as the likelihood that the wetland receives water from groundwater.	Y	N
14	Src_GW_Con	Confidence in groundwater water source classification	Y	N
15	Src_Art	Water source classification for artificial / non-artificial	Y	N
16	Src_Art_Con	Confidence in artificial water source classification	Y	N
17	Dom_Veg	Dominant vegetation class	Y	N
18	Dom_Veg_Con	Confidence in dominant vegetation classification	Y	N
19	Origin	Wetland origin class	Y	N
20	Origin_Con	Confidence in wetland origin classification	Y	N
21	Ex_Dataset	Identifies the dataset from which the wetland mapping was sourced, as described in Phase 1 Project Outcomes report (Alluvium 2011)	Y	Y
22	Corr_Class	Corrick category	Y	Y
23	Corr_ID	Combined wetland number and mapsheet in Wetland 1994/1788 dataset	Y	Y
24	Dam	Indication if wetland contains a dam, based on aerial photo interpretation	Y	N
25	Drain	Indication if wetland contains a drain, based on aerial photo interpretation	Y	N
26	Levee	Indication if wetland contains a levee, based on aerial photo interpretation	Y	N
27	Crop	Indication if wetland has been cropped, based on aerial photo interpretation	Y	N
28	Occurrence	Describes if the wetland occurs in 1788, 2013 or both datasets	Y	Y
29	Boundary	Describes whether pre-European mapping has come from original 1788 spatial layer, or from 2013 mapping. For features sourced from the 2013 mapping an attempt has been made to determine if the pre-European wetland was larger or smaller than current mapped extent	N	Y
30	CMA	Responsible Catchment Management Authority	Y	Y
31	Wetland_Ha	Area of wetland (ha). This is equal to the sum of Shape_Area for all polygons that share a common Wetland_No, converted from m ² to ha	Y	Y
32	Shape_Area	Area of polygon (m ²)	Y	Y
33	Shape_Length	Perimeter of polygon (m)	Y	Y

Table 2. Typical / possible values for attributes in the simplified format of Wetland 2013 and Wetland 1788

#	Attribute name	Description	Typical / possible values
1	OBJECTID	Auto-generated unique integer ID for each polygon in the dataset	Integer
2	Wetland_No	Unique number identifying each wetland	Integer (1000 – 9999)
3	Name_Main	Main name given to the wetland	Descriptive text. Blank if no name.
4	Name_Alt	Alternative name given to the wetland	Descriptive text. Blank if no alternate name.
5	Aq_Sys	Wetland system class	Estuarine Lacustrine Marine Palustrine Palustrine or Lacustrine (unknown specifics)
6	Aq_Sys_Con	Wetland system confidence	High Moderate Low
7	Sal_Regime	Salinity regime class	Fresh Fresh - Hyposaline Hyposaline Hyposaline - Mesosaline Mesosaline Mesosaline - Hypersaline No data Unknown Variably salt tolerant
8	WtrReg	Water regime class	Episodic Intermittent Intertidal Permanent Seasonal Supratidal Unknown
9	WtrReg_Con	Confidence in water regime classification	High Moderate Low n/a
10	Src_Tide	Water source classification for tidal / non-tidal	Non-tidal Tidal
11	Src_Rvr	Water source classification for riverine flows. Expressed as the likelihood that the wetland receives water from riverine flows.	Very high High Moderate Low Very low
12	Src_Rvr_Con	Confidence in river water source classification	High Moderate Low

#	Attribute name	Description	Typical / possible values
13	Src_GW	Water source classification for groundwater. Expressed as the likelihood that the wetland receives water from groundwater.	Very High High Moderate Low Unknown
14	Src_GW_Con	Confidence in groundwater water source classification	High Moderate Low n/a
15	Src_Art	Water source classification for artificial / non-artificial	Artificial Not artificial Unknown
16	Src_Art_Con	Confidence in artificial water source classification	High Moderate Low n/a
17	Dom_Veg	Dominant vegetation class	Coastal saltmarsh Forest/woodland Mangrove Moss/heath No dominant class No emergent vegetation Sea grass Sedge/grass/forb Shrub Unknown
18	Dom_Veg_Con	Confidence in dominant vegetation classification	High Moderate Low n/a
19	Origin	Wetland origin class	Aquaculture ponds Artificial (type unknown) Dam / Storage <8ha Dam / Storage =>8ha Excavation ponds Naturally occurring Salt works Sewage treatment ponds Stormwater treatment ponds Unknown
20	Origin_con	Confidence in wetland origin classification	High Moderate Low n/a

#	Attribute name	Description	Typical / possible values
21	Ex_Dataset	Identifies the dataset from which the wetland mapping was sourced, as described in Phase 1 Project Outcomes report	ALPS – Alpine bogs & wet heathlands CORANG – Corangamite regional update GB_LB – Goulburn Broken regional update 1 GB_SPR – Goulburn Broken regional update 2 GB_SS – Goulburn Broken regional update 3 MALLEE – Mallee regional update MAP2013_P1 – New mapping from Phase 1 MAP2013_P2 – New mapping from Phase 2 N_CENT – North Central regional update W_GIPP – West Gippsland regional update WET1788 – Original 1788 spatial layer WET1994 – Original 1994 spatial layer WIMM2 – Wimmera regional update WINTON – Winton wetlands mapping
22	Corr_Class	Corrick category	1 - Flooded river flats 2 - Freshwater meadow 3 - Shallow freshwater marsh 4 - Deep freshwater marsh 5 - Permanent open freshwater 6 - Semi-permanent saline 7 - Permanent saline 20 - Sewage oxidation basin 21 - Salt evaporation basin 99 - No category
23	Corr_ID	Combined wetland number and mapsheet in Wetland 1994/1788 dataset	Descriptive text
24	Dam	Indication if wetland contains a dam, based on aerial photo interpretation	Present Absent n/a
25	Drain	Indication if wetland contains a drain, based on aerial photo interpretation	Present Absent n/a
26	Levee	Indication if wetland contains a levee, based on aerial photo interpretation	Present Absent n/a
27	Crop	Indication if wetland has been cropped, based on aerial photo interpretation	Present Absent n/a
28	Occurrence	Describes if the wetland occurs in 1788, 2013 or both datasets	Wetland 1788 and 2013 Wetland 2013 only Wetland 1788 only

#	Attribute name	Description	Typical / possible values
29	Boundary	Describes whether pre-European mapping has come from original 1788 spatial layer, or from 2013 mapping. For features sourced from the 2013 mapping an attempt has been made to determine if the pre-European wetland was larger or smaller than current mapped extent	<p>True pre-European size approximates mapped (geometry is from original Wetland 1788 spatial layer)</p> <p>True pre-European size approximates mapped (geometry has been sourced from new 2013 mapping)</p> <p>True pre-European size is larger(>3x) than mapped (geometry has been sourced from new 2013 mapping)</p> <p>True pre-European size is smaller (<1/3x) than mapped (geometry has been sourced from new 2013 mapping)</p>
30	CMA	Responsible Catchment Management Authority	<p>Corangamite</p> <p>East Gippsland</p> <p>Glenelg Hopkins</p> <p>Goulburn Broken</p> <p>Mallee</p> <p>North Central</p> <p>North East</p> <p>Port Phillip And Westernport</p> <p>West Gippsland</p> <p>Wimmera</p>
31	Wetland_Ha	Area of wetland (ha). This is equal to the sum of Shape_Area for all polygons that share a common Wetland_No, converted from m ² to ha	Floating number
32	Shape_Area	Area of polygon (m ²)	Floating number
33	Shape_Length	Perimeter of polygon (m)	Floating number

Attributes for the detailed format

A detailed format is also provided for Wetland 2013. This detailed format is comprised of the spatial geometry data (i.e. polygons) and an accompanying attribute table. The attributes in the detailed dataset include all attributes from the simplified dataset, with a further 15 attributes included as identified in Table 3. Table 4 lists the typical/possible values of each additional attribute.

Table 3. Additional attributes in the detailed format of Wetland 2013

#	Attribute name	Description
0 - 33	-	Refer to attributes 0 – 33 included in the simplified format
34	Mapsheet	Number of the 1:000,000 mapsheet that wetland is located within
35	Ex_Wetsrc	Source of the feature in regional wetland mapping updates (pre-Phase 1)
36	Ex_Comment	Comments provided during regional wetland mapping updates (pre-Phase 1)
37	Mp_Wetsrc	Source of the feature in Phase 1 & 2 mapping
38	Mp_Datacon	Confidence of the wetland boundary delineation in Phase 1 & 2 mapping
39	Mp_Catcon	Confidence of the Corrick category classification in Phase 1 & 2 mapping
40	Mp_Comment	Comments provided during Phase 1 & 2 mapping
41	Mp_Image	Month and year of aerial image used during Phase 1 & 2 mapping
42	Rp_Wetsrc	Source of the feature in Phase 1 & 2 repositioning
43	Rp_Datacon	Confidence of the wetland boundary delineation in Phase 1 & 2 repositioning
44	Rp_Image	Month and year of aerial image used during Phase 1 & 2 repositioning
45	Qa_Done	Identification of which wetlands were quality assured at start of Phase 1
46	Qa_Datacon	Confidence of the wetland boundary in Phase 1 quality assurance
47	Qa_Catcon	Confidence of the Corrick category in Phase 1 quality assurance
48	Qa_Comment	Comments provided during Phase 1 quality assurance

Table 4. Typical / possible values for additional attributes in the detailed format of Wetland 2013

#	Attribute name	Description	Typical / possible values
0 - 33	-	Refer to attributes 0 – 33 included in the simplified format	Refer to attributes 0 – 33 included in the simplified format
34	Mapsheets	Number of the 1:000,000 mapsheet that wetland is located within	Integer (7021 – 8823)
35	Ex_Wetsrc	Source of the feature in regional wetland mapping updates (pre-Phase 1)	DEM digitised EVC reshaped n/a other reshaped vm hydro wetland 1994 wetland 1994 reshaped
36	Ex_Comment	Comments provided during regional wetland mapping updates (pre-Phase 1)	Descriptive text
37	Mp_Wetsrc	Source of the feature in Phase 1 & 2 mapping	Digitised – i.e. hand-drawn based on API DIWA unchanged EVC reshaped EVC unchanged MW cons waterbodies – i.e. Melbourne Water’s stormwater assets database MW WetWaterbodies – i.e. Melbourne Water’s automated delineation of waterbodies n/a other reshaped – i.e. reshaped feature not sourced from EVC mapping vm hydro
38	Mp_Datacon	Confidence of the wetland boundary delineation in Phase 1 & 2 mapping	H M L n/a
39	Mp_Catcon	Confidence of the Corrick category classification in Phase 1 & 2 mapping	H M L n/a
40	Mp_Comment	Comments provided during Phase 1 & 2 mapping	Descriptive text
41	Mp_Image	Month and year of aerial image used during Phase 1 & 2 mapping	2007-DEC 2008-DEC 2009-APR 2009-DEC 2009-NOV 2010-FEB 2010-JAN 2010-MAR NO IMAGE n/a

#	Attribute name	Description	Typical / possible values
42	Rp_Wetsrc	Source of the feature in Phase 1 & 2 repositioning	River Murray Wetlands State saltmarsh vm hydro n/a
43	Rp_Datacon	Confidence of the wetland boundary delineation in Phase 1 & 2 repositioning	H M L n/a
44	Rp_Image	Month and year of aerial image used during Phase 1 & 2 repositioning	2007-DEC 2008-DEC 2009-APR 2009-DEC 2009-JAN 2009-NOV 2010-FEB 2010-JAN 2010-MAR NO IMAGE n/a
45	Qa_Done	Identification of which wetlands were quality assured at start of Phase 1	Y N
46	Qa_Datacon	Confidence of the wetland boundary in Phase 1 quality assurance	H M L n/a
47	Qa_Catcon	Confidence of the Corrick category in Phase 1 quality assurance	H M L n/a
48	Qa_Comment	Comments provided during Phase 1 quality assurance	Descriptive text

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