2015–16 Basin-scale evaluation of Commonwealth environmental water – Ecosystem Diversity

**Prepared by:** Shane Brooks

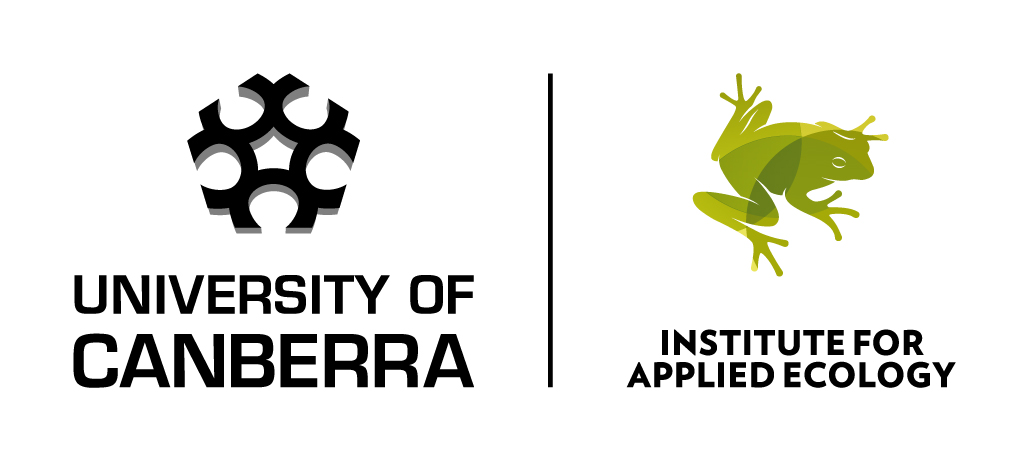
Final Report

**MDFRC Publication 144/2017**

2015–16 Basin-scale evaluation of Commonwealth environmental water — Ecosystem Diversity

Report prepared for the Commonwealth Environmental Water Office by The Murray–Darling Freshwater Research Centre

This report was prepared by The Murray–Darling Freshwater Research Centre (MDFRC). The aim of the MDFRC is to provide the scientific knowledge necessary for the management and sustained utilisation of the Murray–Darling Basin water resources. The MDFRC is a joint venture between La Trobe University and CSIRO. Additional investment is provided through the University of Canberra.



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The Murray–Darling Freshwater Research Centre offices are located on the land of the Latje Latje and Wiradjuri peoples. We undertake work throughout the Murray–Darling Basin and acknowledge the traditional owners of this land and water. We pay respect to Elders past, present and future.

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Abbreviations

ANAE Australian National Aquatic Ecosystem (classification)

CEWO Commonwealth Environmental Water Office

GIS geographical information system

ha hectare

LTIM Long Term Intervention Monitoring

M&E Providers Monitoring and Evaluation Providers

MDBA Murray–Darling Basin Authority

MDFRC Murray–Darling Basin Freshwater Research Centre

# Introduction

A wide variety of ecosystem types occur in the Basin; from arid salt flats and clay pans to lush vegetated wetlands, from open grasslands to dense riparian forests; from dry ephemeral creeks to the large permanent channels and tributaries of the Murray River. Considered together, the range of different ecosystem types within a specified area defines the ecosystem diversity for that area. Ecosystem diversity defines patterns of natural variability that shape species distribution and abundance, resilience, and natural ecosystem functioning (Junk et al. 1989, Poff 1997, Thorp et al. 2006). As such, ecosystem diversity is an important component of biodiversity together with species diversity, genetic diversity and diversity of ecosystem function (Geist 2011).

**Why focus on Ecosystem Diversity in the LTIM project?**

Principles of ecosystem management suggest that protecting or restoring ecosystems also preserves valued species, habitats, and critical processes within them in addition to critical ecosystem services that they may provide. Evaluating the extent to which water-dependent ecosystem types have been supported by Commonwealth environmental water therefore contributes to assessing the contribution of Commonwealth environmental water to biodiversity in the Basin as outlined in the Commonwealth Environmental Water Outcomes Framework (CEWH 2013).

Developing understanding for how and why environmental watering outcomes differ among ecosystem types will also inform adaptive management by (1) fine tuning expected outcomes from the delivery of environmental water in different ecosystems, and (2) ultimately improving the efficiency, effectiveness and impact of the use of Commonwealth environmental water in the Basin.

The output of the Ecosystem Diversity evaluation provides a template for extrapolating observed outcomes at monitoring sites within the Basin (in LTIM Selected Areas) to similar ecosystem types in areas that are not monitored, thereby facilitating a Basin-scale evaluation of the impact of Commonwealth environmental water.

The detailed ecological or hydrological outcomes within each ecosystem are the subject of other LTIM Basin matter and Selected Area reports (refer Gawne *et al.* 2014).

**Primary output from this evaluation**

Environmental watering supports the maintenance of ecosystem diversity via the provision of water to maintain aquatic habitats, which in turn support a mosaic of water-dependent flora and fauna. This evaluation catalogues the different ecosystem types that received Commonwealth environmental water during the 2015–16 water year. It quantifies the physical area of each ecosystem type within the Basin that is inundated or influenced by Commonwealth environmental water compared to the known distribution for each type.

**Additional Context**

This is the second evaluation within the Long Term Intervention Monitoring (LTIM) project (see Brooks 2016a for the 2014–15 year).

This evaluation is concerned with identifying the range and distribution of ecosystem types that receive Commonwealth environmental water rather than documenting change in landscape ecosystem diversity through time. Delivery of environmental water has the potential to change physical landscape diversity through geomorphological processes (Figure 1), but in practice the frequency and volumes of Commonwealth environmental water that are delivered are constrained by storage volumes, infrastructure and land use to volumes that complement natural hydrological regimes rather than creating wholesale hydrological regime change with potential to restructure landscapes. Large changes to the distribution and abundance of ecosystem types in the Basin are not expected within the duration of the LTIM project (5 years).

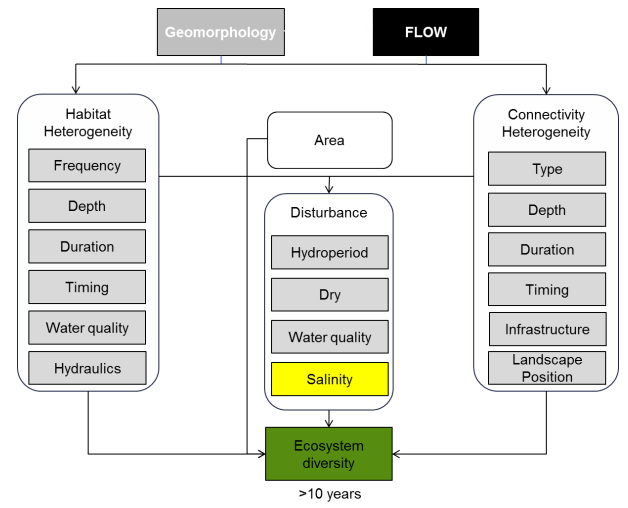


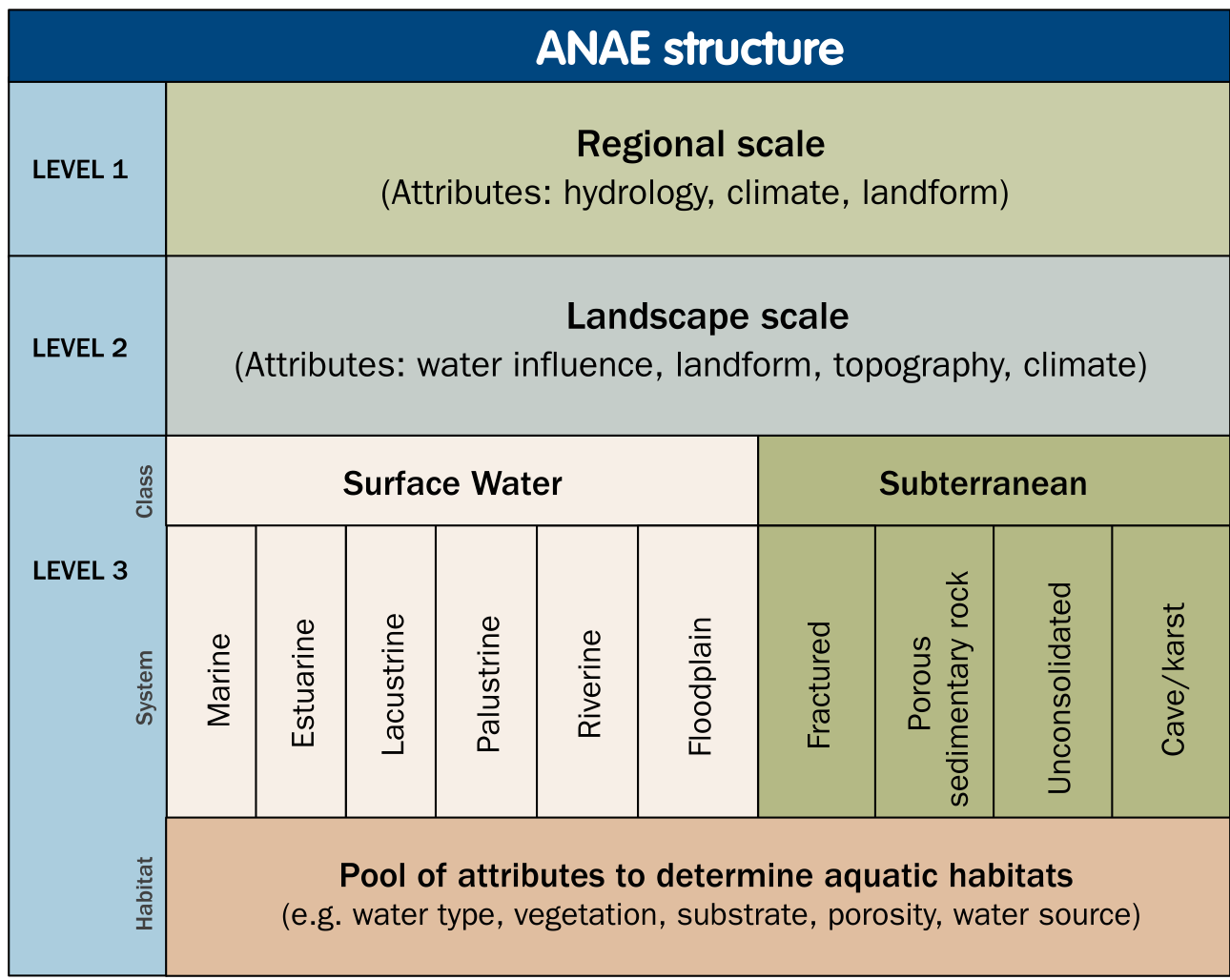
Figure . Cause-and-effect diagram depicting the influence of flow on landscape ecosystem diversity (from MDFRC 2013).

# Method

For the purpose of defining ecosystem diversity we use the interim Australian National Aquatic Ecosystem (ANAE) Classification Framework to identify distinct ecosystem types and their location in the Basin. The ANAE framework was prepared by the Australian Government Aquatic Ecosystems Task Group (AETG) to provide a consistent ecosystem type classification that can inform cross-jurisdictional adaptive management of aquatic ecosystems (AETG 2012). It uses three levels of attribute data to classify ecosystem types (Figure 2). Level 1 attributes include national and regional data related to national climate, landform and hydrological patterns. Level 2 attributes are similar to Level 1 attributes but applied at sub-catchment scales. Level 3 attributes are applied to individual aquatic ecosystems. The ANAE classification was applied to the best available jurisdictional mapping for Basin wetlands, floodplains and rivers by Brooks *et al.* (2014) to produce the interim Murray-Darling Basin Aquatic Ecosystem Classification data set (hereafter referred to as the Basin ANAE classification). This data set provides the LTIM project with a baseline map that quantifies the distribution and extent of different aquatic ecosystem types, providing a relevant and contemporary means for defining ecosystem diversity in the Basin.

Overlaying a map of the Commonwealth environmental water that was delivered in the Basin can then identify which ecosystem types received Commonwealth environmental water to answer the following short-term (1-year) and long-term (5-year) Basin-scale evaluation question:

1. What did Commonwealth environmental water contribute to ecosystem diversity?

 Figure . Structure and levels of the Interim Australian National Aquatic Ecosystem Classification Framework (AETG 2012).

## Data

Data inputs to the evaluation of ecosystem diversity include:

* The Basin ANAE data set (Brooks et al. 2014) (Figure 3). A significant update of the classification in the Basin is currently underway to improve confidence and consistency in the ANAE mapping and classification (Annex A). There will be significant changes to the numbers and extent of wetlands in areas of NSW that received Commonwealth environmental water in 2016–17 (e.g. the Central Murray Forests, Macquarie Marshes, Lowbidgee and Gwydir Wetlands). This evaluation of the 2015–16 contribution of Commonwealth environmental water to ecosystem diversity in the Basin and that of last year (2014–15) are therefore interim assessments that will be updated in 2018 using the revised classification. Substantive comparison between years is deferred to that time.
* Commonwealth environmental water Inundation 2015–16 — a spatial representation of watering extent for Commonwealth environmental water delivered in the 2015–16 (Stewardson & Guarino 2017) (Figure 4). Improvements in the mapping of inundation extent this year led to the inclusion of the Coorong and Lakes Alexandria and Albert and the longitudinal extent of influence of Commonwealth environmental water in river channels.
* LTIM valleys — a spatial layer developed for the LTIM project evaluation that subdivides the Basin into the major river valleys (Figure 5). These boundaries were derived from the Sustainable Rivers Audit (SRA) catchment boundaries with a modification to separate the Edward-Wakool Catchment from the Central Murray. The boundaries were adjusted slightly for this current evaluation in comparison to last year to improve the assignment of wetlands near valley boundaries to the watersheds in which managers and Commonwealth environmental water accounting allocate them. Mostly this effects the Central Murray area with a widening along the Murray River corridor to encompass fringing wetlands and the Gunbower and Barmah forests, and southern expansion of the Murrumbidgee valley to include Yanco Creek within the Murrumbidgee (the previous boundary roughly followed the creek line placing parts of Yanco Creek in the Murrumbidgee and other parts in the Central Murray). Areas inundated in 2014–15 were not in these affected areas so the evaluation of ecosystems inundated in 2014–15 and 2015–16 are comparable despite the boundary change.

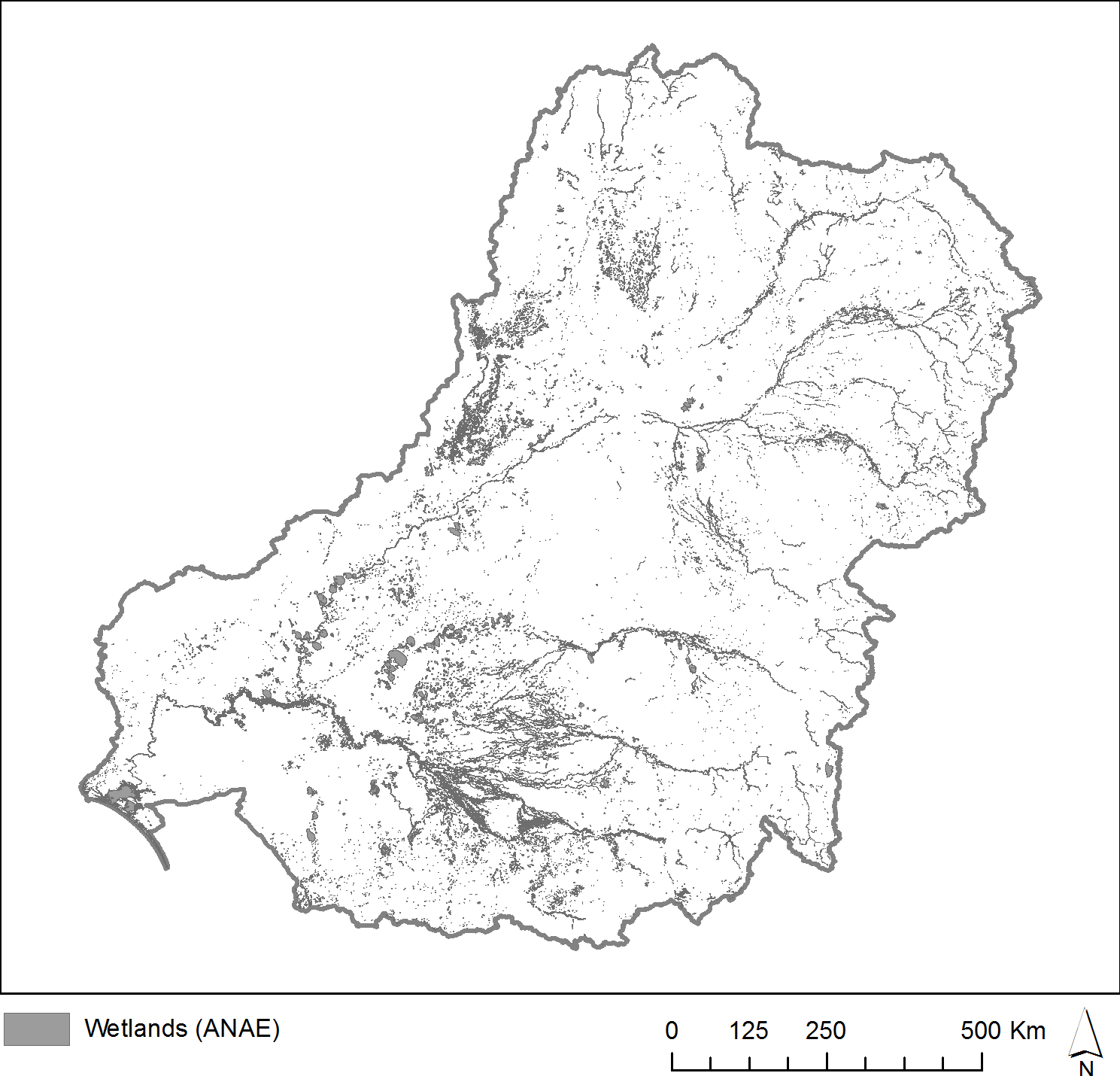


Figure . The Basin ANAE wetlands.

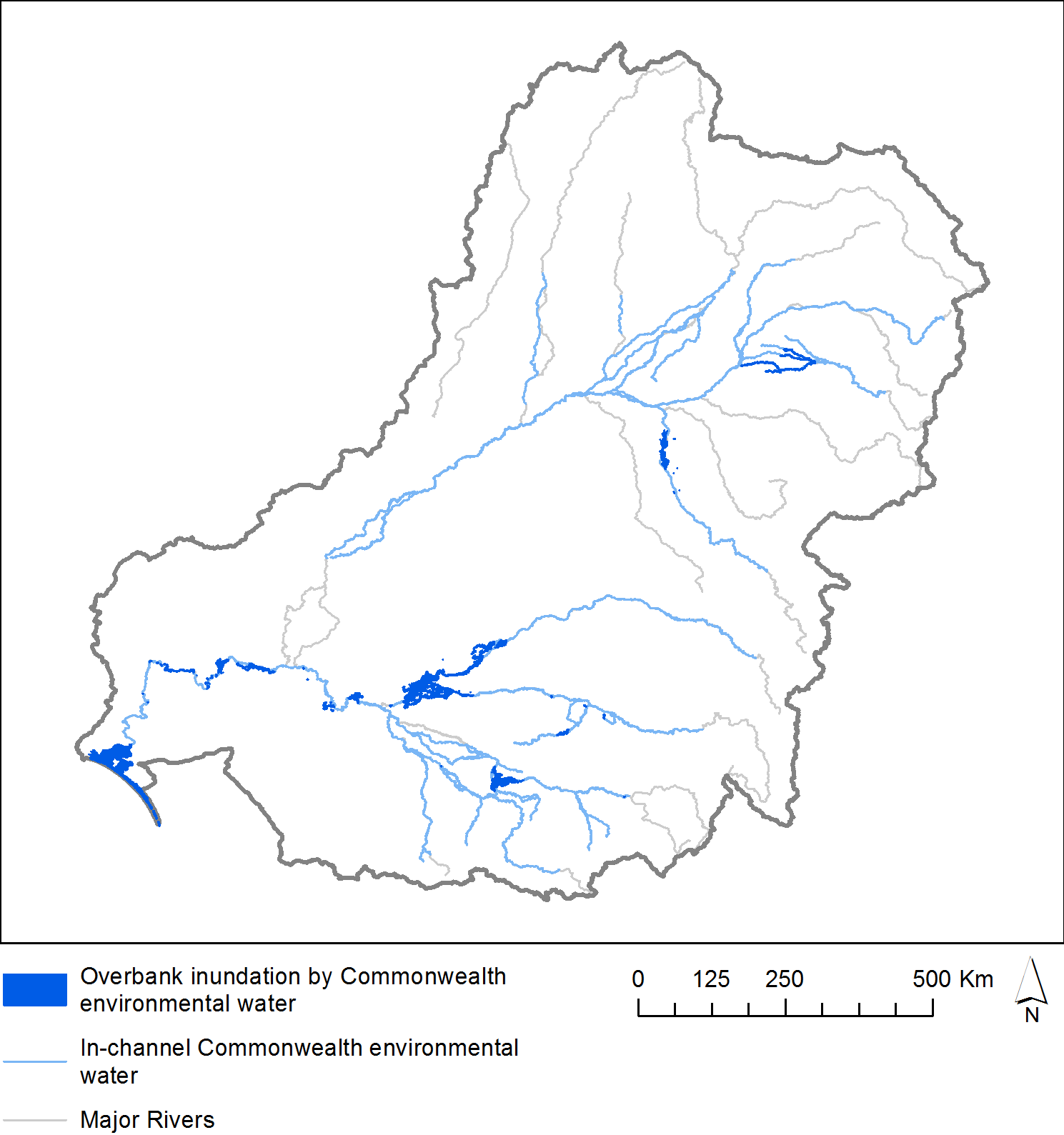


Figure . Inundation by Commonwealth environmental water 2015–16.

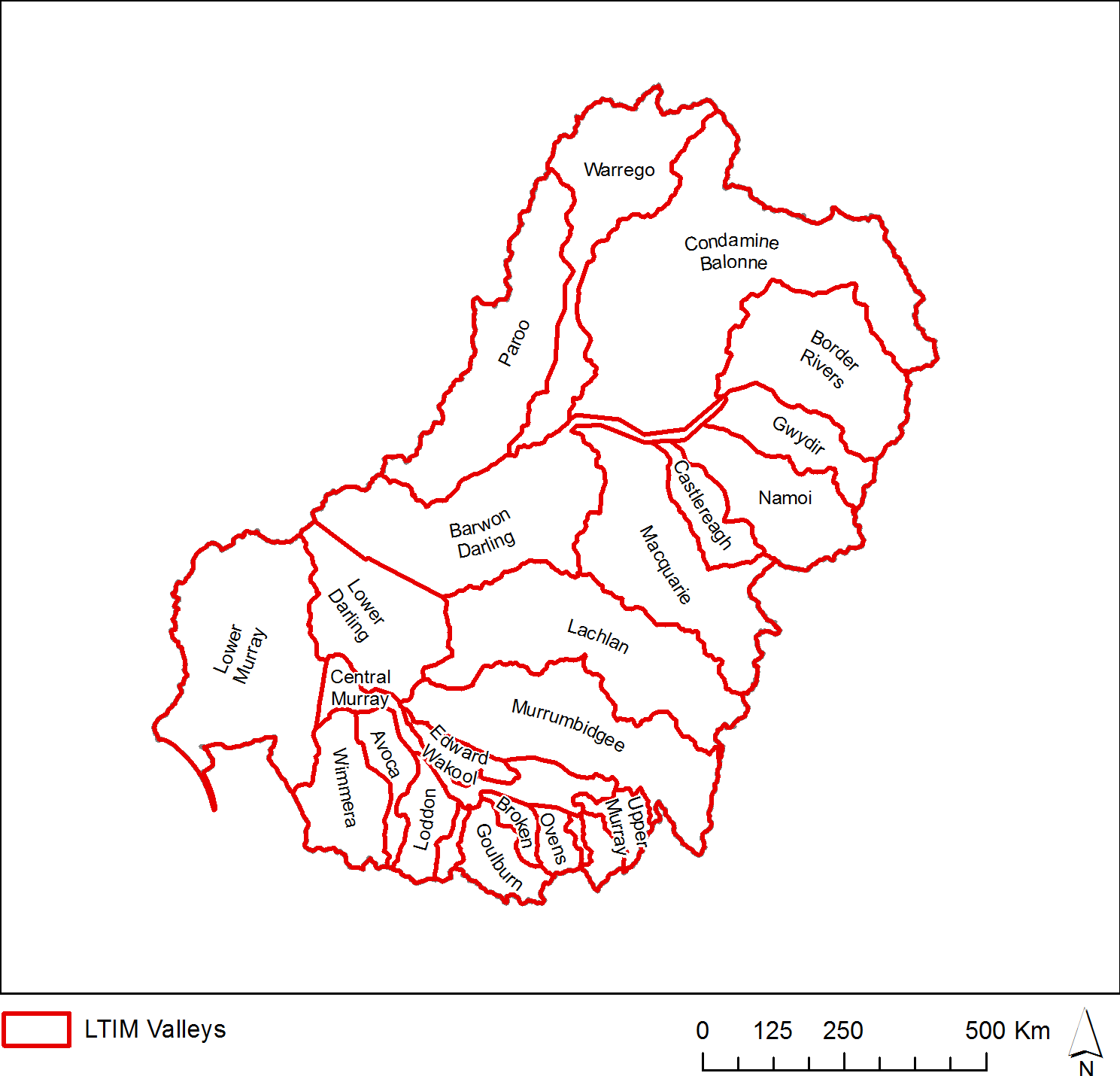


Figure . Valley boundaries within the Murray–Darling Basin used in this evaluation.

As for the previous year, two different approaches were used to quantify the area of different ecosystem types that received Commonwealth environmental water:

1. Area inundated by Commonwealth environmental water = the sum of only the inundated areas of each wetland type, excluding the areas of wetlands that were not inundated.
2. Area influenced by Commonwealth environmental water = the sum of the all wetland areas that received water even if the inundation mapping showed that only a portion of the wetland was inundated.

The area *inundated* by Commonwealth environmental water is a ‘literal’ definition that represents the minimum contribution of Commonwealth environmental water in the landscape. The area *influenced* by Commonwealth environmental water acknowledges that aquatic ecosystems are complex interconnected systems and delivering water to part of a wetland contributes benefits to the entire wetland system. For example, filling a wetland depression may raise local water tables and benefit fringing vegetation, or provide feeding habitat for waterbirds that roost elsewhere in the wetland vegetation that was not inundated.

For wetlands, the total area *influenced* by Commonwealth environmental water is the appropriate measure of the contribution of Commonwealth environmental water to ecosystem diversity.

For floodplains, the area *inundated* by Commonwealth environmental water is used to measure the contribution of Commonwealth environmental water to ecosystem diversity. This more conservative measure is used for floodplains because: 1) there is low confidence in the MDBAv2 data set used by the Basin ANAE to map floodplain ecosystems (see discussion in Brooks *et al.* 2014); and 2) the mapping includes some very large floodplain areas mapped as single ecosystems that span thousands of square kilometres that would unduly distort the apparent contribution of Commonwealth environmental water.

GIS methodologies for calculating these areas are provided in Section 2.2.

The spatial representation of watering extent for Commonwealth environmental water delivered in 2015–16 includes all watering actions that resulted in inundation beyond the river channel (Stewardson & Guarino 2017). River reaches that received in-channel pulses, freshes and passing flows are also identified (Figure 4), but the mapping is not of sufficient resolution to identify inundation of river banks and fringing habitats along the channels.

Observations of increased inundation in the Coorong, Lake Alexandrina, Lake Albert and the Murray Mouth from Commonwealth environmental water were not made during 2015–16 but inundation extent was modelled from the hydrograph and detailed elevation models and bathymetry.

## GIS Workflows

All spatial layers are based on the 1994 Geocentric Datum of Australia (GDA94). Areas in this report are in hectares and have been calculated in the Australia Albers Equal Area Conic projection to report accurate area measurements across the Basin.

*Area of wetlands inundated by Commonwealth environmental water*

GIS Workflow:

1. Intersect:
   1. The Basin ANAE Wetlands;
   2. Inundation15/16; and
   3. LTIM Valleys
2. Calculate polygon area in hectares using equal area GDA94 Australian Albers projection.
3. Sum the area of each ANAE wetland type per valley.

*Area of wetlands influenced by Commonwealth environmental water (Commonwealth environmental water overlaps any portion of the wetland polygon)*

GIS Workflow:

1. Select by location all wetland polygons that intersect with the Inundation 15/16.
2. Intersect the selected wetlands with the catchment boundaries.
3. Calculate polygon area in hectares using equal area GDA94 Australian Albers projection.
4. Sum the area of each ANAE wetland type per valley.

*Area of floodplains inundated by Commonwealth environmental water (inundated area only within the ANAE floodplain)*

GIS Workflow:

1. Intersect:
   1. The Basin ANAE Floodplains (MDBAv2)
   2. Inundation 15/16
   3. LTIM Valleys
2. Calculate polygon areas in hectares using equal area GDA94 Australian Albers projection.
3. Calculate summary statistics to sum areas of each ANAE floodplain type per valley.

*Length of waterways influenced by Commonwealth environmental water*

River length measurement is highly dependent on the resolution of the mapping with higher resolution mapping capturing more twists and turns in the river that increase the measured river length along the flow path between two points. The Basin ANAE waterway mapping compiles state data that varies in resolution from 1:25 000 to 1:100 000.

GIS Workflow:

1. Intersect:
   1. The Basin ANAE Waterways
   2. Inundation 15/16 (waterways)
   3. LTIM Valleys
2. Calculate the river length inundated for each ecosystem type in kilometres using equal area GDA94 Australian Albers projection.
3. Calculate summary statistics to sum the length of each river ecosystem type per valley.

# Ecosystem Diversity Basin-scale evaluation

## Highlights

**In the 2015–16 water year:**

* More than 200,000 ha of wetlands and floodplains and 20,000km of river were inundated by Commonwealth environmental water.
* Wetland and floodplains in four LTIM Selected Areas received Commonwealth environmental water with substantial areas also inundated in the Macquarie and Central Murray valleys
* A high diversity of ecosystem types received Commonwealth environmental water with 64% of the different wetland ecosystem types present in the Basin and 89% of floodplain ecosystem types being represented in the areas inundated by Commonwealth environmental water. For 10 ecosystem types, substantial areas (> 25% of their individual footprints in the basin) were inundated; these include, permanent and temporary lakes, permanent saline lakes, permanent and temporary tall marshes and intermittent river red gum floodplain swamps. Much of the lake area and many of the marshes are associated with Lakes Alexandrina and Albert and their fringing wetlands.
* Approximately 40% of the wetland and floodplain areas that received Commonwealth environmental water were classed as temporary or intermittent ecosystem types. These areas can be hot-spots for diversity if they support different suites of species in the dry and wet phases.
* Commonwealth environmental water contributed to all of the estuarine ecosystem types in 2015–16 as flows passed through to the Murray Mouth and Coorong. This is likely also true in 2014–15 although these areas were not included in the evaluation for that year.

**Comparing 2015-16 to 2014-15 there was:**

* Decreased inundation of intermittent river cooba swamp and permanent floodplain grass marshes in the Macquarie Marshes.
* Increased inundation of intermittent river red gum floodplain swamp in Barmah Forest.
* Increased inundation of permanent saline wetlands, temporary swamps, permanent streams and temporary streams associated with anabranches and connected billabongs between the South Australian border downstream to Morgan an also in the Central Murray associated with the Barmah Forest.
* Decreased inundation of permanent floodplain grass marshes and permanent floodplain wetland associated with the Macquarie Marshes and Mulcra Island (Lower Murray) in 2015–16.
* Decreased inundation of temporary sedge/grass/forb floodplain marsh in 2015–16, because Commonwealth environmental water from the Warrego River was not used to water the Western Floodplain in 2015–16 as was done in 2014–15.
* Increase in the amount of permanent floodplain lakes and temporary tall emergent marsh temporary saline swamp and permanent salt marsh associated with marginal areas of the Lakes Alexandrina and Alberta and Coorong. This is an artefact of these areas not being included in the 2014–15 evaluation.

## Basin-scale evaluation 2015–16

This evaluation does not consider the details of individual watering events, and is ignorant of the specific timing and duration of Commonwealth environmental water in different areas of the landscape. The inundation map (Figure 4) collapses the maximum wetted extent of all watering actions during 2015–16 that included Commonwealth environmental water. The area inundated in each valley, and the length of river channels influenced by Commonwealth environmental water is presented in Table 1.

The contribution of Commonwealth environmental water to maintaining ecosystem diversity at the Basin-scale is contained in Table 2 (wetlands), Table 3 (floodplains), Table 4 (estuarine ecosystems) and Table 5 (river channels). Results are sorted by the area influenced or inundated by Commonwealth environmental water from most to least.

**Table 1.** Area of each LTIM catchment inundated by Commonwealth environmental water (excluding in-channel flows) in 2015–16, including both floodplain and wetland ecosystem types.

|  |  |  |  |
| --- | --- | --- | --- |
| Catchment name | Selected Area | Wetland and Floodplain Area inundated (ha) | Length of waterways influenced (km) |
| Avoca |  | – | – |
| Barwon Darling |  | – | 3458 |
| Border Rivers |  | – | 1836 |
| Broken |  | – | 276 |
| Campaspe |  | – | 175 |
| Castlereagh |  | – | – |
| Central Murray |  | 16 172 | 2508 |
| Condamine Balonne |  | – | 2335 |
| Edward–Wakool | Edward–Wakool river system | – | 1049 |
| Goulburn | Goulburn River | – | 537 |
| Gwydir | Gwydir river system | 2 322 | 1127 |
| Kiewa |  | – | – |
| Lachlan | Lachlan river system | 20 912 | 1597 |
| Loddon |  | – | 560 |
| Lower Darling |  | – | – |
| Lower Murray | Lower Murray River\* | 130 791 | 991 |
| Macquarie |  | 9 902 | 829 |
| Mitta Mitta |  | – | – |
| Murrumbidgee | Murrumbidgee river system | 22 316 | 1875 |
| Namoi |  | – | – |
| Ovens |  | – | 544 |
| Paroo |  | – | – |
| Upper Murray |  | – | – |
| Warrego | Junction of the Warrego and Darling rivers | – | 493 |
| Wimmera |  | – | – |
| **Total area inundated (excluding channels)** | | **202 415** | **20 190** | |

\* includes the Coorong, Lakes Alexandrina and Albert and the Murray Mouth.

Commonwealth environmental watering actions contributed to the inundation of a wide range of ecosystem types within the Basin that included approximately 64% of the different wetland types and 89% of the different floodplain types, and all (100%) of the river channel and estuarine ecosystem types.

A more detailed breakdown by valley is provided in Annex B (wetlands and estuarine ecosystems), Annex C (floodplains) and Annex D (river channels).

Table . Contribution of Commonwealth environmental water to ecosystem diversity of wetlands at the basin-scale. Ecosystem types are sorted by the area influenced by Commonwealth environmental water.

| Australian National Aquatic Ecosystem (ANAE) wetland type | Total  area (ha) | Inundated\* | | Influenced\* | |
| --- | --- | --- | --- | --- | --- |
| Area (ha) | % of total | Area (ha) | % of total |
| Lp2.1: Permanent floodplain lakes | 137 406 | 84 637 | 61.6 | 84 964 | 61.8 |
| Pt1.1.1: Intermittent River red gum floodplain swamp | 63 396 | 8 541 | 13.5 | 27 357 | 43.2 |
| Pp4.1: Permanent floodplain wetland | 42 004 | 6 938 | 16.5 | 21 525 | 51.2 |
| Rp1.4: Permanent lowland rivers and streams | 74 534 | 5 199 | 7.0 | 14 326 | 19.2 |
| Pt2.1.2: Temporary tall emergent marsh | 18 381 | 7 368 | 40.1 | 7 470 | 40.6 |
| Pt4.1: Temporary floodplain wetland | 122 885 | 855 | 0.7 | 7 066 | 5.8 |
| Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 51 081 | 4 645 | 9.1 | 6 510 | 12.7 |
| Pp2.1.1: Permanent floodplain tall emergent marshes | 7 809 | 2 625 | 33.6 | 4 276 | 54.8 |
| Pt3.1.2: Clay pans | 51 074 | 901 | 1.8 | 3 265 | 6.4 |
| Lt2.1: Temporary floodplain lakes | 198 459 | 1 128 | 0.6 | 2 597 | 1.3 |
| Lst2.1: Temporary saline floodplain lakes | 10 636 | 1 253 | 11.8 | 2 338 | 22.0 |
| Pt3.1.1: Floodplain clay pans | 49 329 | 1 831 | 3.7 | 2 267 | 4.6 |
| Psp4: Permanent saline wetland | 3 965 | 1 862 | 47.0 | 2 221 | 56.0 |
| Pst1.1: Temporary saline swamp | 17 020 | 1 824 | 10.7 | 2 119 | 12.5 |
| Lt1.1: Temporary lakes | 306 351 | 865 | 0.3 | 2 082 | 0.7 |
| Lsp1.1: Permanent saline lakes | 8 225 | 327 | 4.0 | 2 079 | 25.3 |
| Rt1.4: Temporary lowland rivers and streams | 223 362 | 782 | 0.4 | 1 925 | 0.9 |
| Pt1.2.1: Intermittent Black box floodplain swamp | 33 916 | 498 | 1.5 | 1 299 | 3.8 |
| Pst4: Temporary saline wetland | 11 912 | 303 | 2.5 | 973 | 8.2 |
| Pt1: Temporary swamps | 3 766 | 608 | 16.1 | 706 | 18.7 |
| Pt2.2.2: Temporary sedge/grass/forb marsh | 30 527 | 563 | 1.8 | 655 | 2.1 |
| Pst2.2: Temporary salt marsh | 8 575 | 76 | 0.9 | 412 | 4.8 |
| Rp1: Permanent Streams | 1 428 | 297 | 20.8 | 406 | 28.4 |
| Pt1.6.1: Temporary woodland floodplain swamp | 179 804 | 253 | 0.1 | 395 | 0.2 |
| Lp1.1: Permanent lakes | 47 669 | 130 | 0.3 | 334 | 0.7 |
| Pt2.1.1: Temporary tall emergent floodplain marsh | 50 687 | 121 | 0.2 | 180 | 0.4 |
| Pt2.3.1: Floodplain freshwater meadow | 11 138 | 126 | 1.1 | 166 | 1.5 |
| Pst3.2: Salt pans and salt flats | 13 186 | 39 | 0.3 | 163 | 1.2 |
| Rt1.3: Temporary low energy streams | 712 | 9 | 1.3 | 163 | 22.9 |
| Rt1: Temporary Streams | 294 | 70 | 23.8 | 99 | 33.7 |
| Pt4.2: Temporary wetland | 130 760 | 52 | <0.1 | 92 | 0.1 |
| Pt1.2.2: Intermittent Black box swamp | 16 470 | 54 | 0.3 | 88 | 0.5 |
| Rt1.2: Temporary transitional zone streams | 5 957 | 10 | 0.2 | 33 | 0.6 |
| Pp2.1.2: Permanent tall emergent marshes | 134 | 31 | 23.1 | 31 | 23.1 |
| Rp1.3: Permanent low energy streams | 286 | 25 | 8.7 | 26 | 9.1 |
| Pp2.3.1: Permanent floodplain grass marshes | 431 | 10 | 2.3 | 25 | 5.8 |
| Pp4.2: Permanent wetland | 22 388 | 18 | 0.1 | 18 | 0.1 |
| Pt1.7.1: Intermittent Lignum floodplain swamp | 27 356 | 4 | <0.1 | 11 | <0.1 |
| Pp2.3.2: Permanent grass marshes | 183 | 7 | 3.8 | 7 | 3.8 |
| Lst1.1: Temporary saline lakes | 12 759 | 2 | <0.1 | 4 | <0.1 |
| Pt1.3.1: Intermittent Coolibah floodplain swamp | 5 173 | <1 | <0.1 | 3 | 0.1 |
| Pt1.7.2: Intermittent Lignum swamps | 17 967 | 1 | <0.1 | 3 | <0.1 |
| Psp2.1: Permanent salt marsh | 3 | <1 | <0.1 | 2 | 66.7 |
| Rp1.2: Permanent transitional zone streams | 3 652 | <1 | <0.1 | <1 | <0.1 |
| Lp1.2: Permanent lakes with aquatic beds | 1 197 | 0 | 0 | 0 | – |
| Lp2.2: Permanent floodplain lakes with aquatic beds | 1 868 | 0 | 0 | 0 | – |
| Lsp1.2: Permanent saline lakes with aquatic beds | 18 | 0 | 0 | 0 | – |
| Lsp2.1: Permanent saline floodplain lakes | 13 178 | 0 | 0 | 0 | – |
| Lst1.2: Temporary saline lakes with aquatic beds | 1 905 | 0 | 0 | 0 | – |
| Lst2.2: Temporary saline floodplain lakes with aquatic beds | 391 | 0 | 0 | 0 | – |
| Lt1.2: Temporary lakes with aquatic beds | 804 | 0 | 0 | 0 | – |
| Lt2.2: Temporary floodplain lakes with aquatic beds | 2 520 | 0 | 0 | 0 | – |
| Pp1.1.2: Permanent paperbark swamps | 1 | 0 | 0 | 0 | – |
| Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 2 275 | 0 | 0 | 0 | – |
| Pp2.2.2: Permanent sedge/grass/forb marshes | 2 564 | 0 | 0 | 0 | – |
| Pp2.4.1: Permanent floodplain forb marshes | 157 | 0 | 0 | 0 | – |
| Pp2.4.2: Permanent forb marshes | 32 | 0 | 0 | 0 | – |
| Pp3: Peat bogs and fen marshes | 173 | 0 | 0 | 0 | – |
| Pps5: Permanent springs | 130 | 0 | 0 | 0 | – |
| Psp1.1: Saline paperbark swamp | 137 | 0 | 0 | 0 | – |
| Psp3.1: Permanent seagrass marshes | 16 328 | 0 | 0 | 0 | – |
| Pt1.1.2: Intermittent River red gum swamps | 8 480 | 0 | 0 | 0 | – |
| Pt1.3.2: Intermittent Coolibah swamp | 1 019 | 0 | 0 | 0 | – |
| Pt1.4.1: Intermittent River Cooba floodplain swamp | 3 | 0 | 0 | 0 | – |
| Pt1.4.2: Intermittent River Cooba swamp | 104 | 0 | 0 | 0 | – |
| Pt1.5.1: Temporary paperbark floodplain swamp | 32 | 0 | 0 | 0 | – |
| Pt1.5.2: Temporary paperbark swamp | 89 | 0 | 0 | 0 | – |
| Pt1.6.2: Temporary woodland swamp | 44 406 | 0 | 0 | 0 | – |
| Pt2.3.2: Freshwater meadow | 14 780 | 0 | 0 | 0 | – |
| Pu1: Unspecified wetland | 1 768 | 0 | 0 | 0 | – |
| Rp1.1: Permanent high energy streams | 9 662 | 0 | 0 | 0 | – |
| Rt1.1: Temporary high energy streams | 13 853 | 0 | 0 | 0 | – |
| Ru1: Unspecified river (landform unknown) | 3 | 0 | 0 | 0 | – |

\* Area inundated/influenced by Commonwealth environmental water: see Section 2.1 for definitions.

Table . Contribution of Commonwealth environmental water to ecosystem diversity of floodplains at the Basin-scale, sorted by the area inundated.

| Australian National Aquatic Ecosystem (ANAE) floodplain type | Total  area (ha) | Inundated  area (ha) | % of total |
| --- | --- | --- | --- |
| F2.2: Lignum shrubland floodplain | 200 821 | 6 155 | 3.1 |
| F1.2: River red gum forest floodplain | 268 820 | 5 432 | 2.0 |
| F1.4: River red gum woodland floodplain | 225 106 | 4 438 | 2.0 |
| F1.10: Coolibah woodland and forest floodplain | 1 762 948 | 559 | <0.1 |
| F2.4: Shrubland floodplain | 341 713 | 327 | 0.1 |
| F1.8: Black box woodland floodplain | 242 434 | 117 | <0.1 |
| F1.9: Upland coolibah woodland and forest floodplain | 2 765 | 110 | 4.0 |
| F1.12: Woodland floodplain | 521 659 | 33 | <0.1 |
| F1.7: Upland black box woodland floodplain | 1 375 | 33 | 2.4 |
| F2.1: Upland lignum shrubland floodplain | 482 | 9 | 1.9 |
| F2.3: Upland shrubland floodplain | 1 500 | 9 | 0.6 |
| F1.1: Upland river red gum forest floodplain | 767 | 5 | 0.7 |
| F3.2: Sedge/forb/grassland floodplain | 1 140 832 | 5 | <0.1 |
| F1.3: Upland River red gum woodland floodplain | 2 511 | 4 | 0.2 |
| F4: Floodplain with unspecified vegetation | 433 042 | 4 | <0.1 |
| F1.6: Black box forest floodplain | 192 212 | 3 | <0.1 |
| F3.1: Upland sedge/forb/grassland floodplain | 2 412 | 2 | 0.1 |
| F1.11: River cooba woodland floodplain | 150 | 0 | – |
| F1.5: Upland black box forest floodplain | 112 | 0 | – |

Table . Contribution of Commonwealth environmental water to ecosystem diversity of estuarine areas in the Basin sorted by the area influenced by Commonwealth environmental water.

| Australian National Aquatic Ecosystem (ANAE) wetland type | Total  area (ha) | Inundated\* | | Influenced\* | |
| --- | --- | --- | --- | --- | --- |
| Area (ha) | % of total | Area (ha) | % of total |
| Ewd1.3.2: Coastal lagoon | 20 923 | 20 793 | 99.4 | 20 923 | 100.0 |
| Etd1.3.3: Tide dominated estuary | 2 189 | 2 188 | 100.0 | 2 189 | 100.0 |
| Etd1.2.1: Tide dominated saltmarsh | 350 | 334 | 95.4 | 350 | 100.0 |
| Ewd1.2.3: Intertidal saltmarsh | 166 | 29 | 17.5 | 166 | 100.0 |
| Ewd1.2.4: Intertidal mudflats and sand bars | 131 | 124 | 94.7 | 131 | 100.0 |
| Etd1.2.2: Tide dominated mudflats and sandbars | 64 | 64 | 100.0 | 64 | 100.0 |
| Etd1.2.3: Tide dominated forests | 19 | 19 | 100.0 | 19 | 100.0 |
| Etd1.1.1: Tide dominated rocky shoreline | 7 | 7 | 100.0 | 7 | 100.0 |

Table . Contribution of Commonwealth environmental water to ecosystem diversity within river channels of the Basin sorted by the area influenced by Commonwealth environmental water.

| Australian National Aquatic Ecosystem (ANAE) waterway type | Length (km) |
| --- | --- |
|
| Rp1.4: Permanent lowland rivers and streams | 14 069 |
| Rt1.4: Temporary lowland rivers and streams | 4 082 |
| Rp1.1: Permanent high energy streams | 928 |
| Rp1.2: Permanent transitional zone streams | 654 |
| Rp1.3: Permanent low energy streams | 212 |
| Rt1.1: Temporary high energy streams | 160 |
| Rt1.3: Temporary low energy streams | 43 |
| Rt1.2: Temporary transitional zone streams | 42 |

## Cumulative Basin-scale evaluation (2014–16)

Commonwealth environmental water contributed to inundation of the Gwydir wetlands, Macquarie Marshes and Lower Murrumbidgee (Lowbidgee) in both 2014–15 and 2015–16 water years. In 2014–15 these three valleys alone comprised 90% of the area inundated, although the real figure would be lower if hydrology to assess inundation of the Coorong and Lower Lakes had been available in 2014–15. In 2015–16 substantial areas along the Murray River between Morgan and the S.A Border, Barmah Forest and the Lachlan River also received Commonwealth environmental water and the Coorong, Lakes Alexandrine and Albert and the Murray Mouth were added.

The comparison presented in Table 6 should be viewed as indicative only as there are some differences in the way inundation extents were mapped in each year to date. The 2014–15 inundation likely over-estimates the extent of Commonwealth environmental water in the Macquarie Marshes, Gwydir wetlands and Lowbidgee due to poor discrimination of Commonwealth environmental water from other water in satellite imagery. Improvements to the data assembly process increased the accuracy and confidence in the inundation mapping in 2015–16 and the comparison can be revisited if those improvements can be applied retrospectively to the 2014–15 data. Estuarine areas were excluded as they were not included in the 2014–15 evaluation.

The evaluation compares the area of each ecosystem type influenced by Commonwealth environmental water (i.e. the whole wetland area if part of the wetland was inundated). Commonwealth environmental water has influenced more than 5% of the area of 21 wetland ecosystem types (=28.8% of the wetland ecosystem types present in the basin) in at least one year of the last two with a further 28 wetland ecosystem types (38.3%) having only small areas inundated that influenced between 0 and 1% of their basin area in at least one year. Twenty four wetland types (=32.9% of the wetland ecosystem types present in the basin) have not had Commonwealth environmental water delivered to them within the two years of LTIM. Some of these areas may be included in areas targeted for watering by or other state-based delivery partners but it is currently beyond the scope of this evaluation to evaluate Commonwealth environmental water in the context of all other environmental water.

Comparing 2015–16 to 2014–15 there was:

* Decreased inundation of intermittent river cooba swamp and permanent floodplain grass marshes in the Macquarie Marshes.
* Increased inundation of intermittent river red gum floodplain swamp in Barmah Forest.
* Increased inundation of permanent saline wetlands, temporary swamps, permanent streams and temporary streams associated with anabranches and connected billabongs between the South Australian border downstream to Morgan an also in the Central Murray associated with the Barmah Forest.
* Decreased inundation of permanent floodplain grass marshes and permanent floodplain wetland associated with the Macquarie Marshes and Mulcra Island (Lower Murray) in 2015–16.
* Decreased inundation of temporary sedge/grass/forb floodplain marsh in 2015–16, because Commonwealth environmental water from the Warrego River was not used to water the Western Floodplain in 2015–16 as was done in 2014–15.
* Increase in the amount of permanent floodplain lakes and temporary tall emergent marsh temporary saline swamp and permanent salt marsh associated with marginal areas of the Lakes Alexandrina and Alberta and Coorong. This is an artefact of these areas not being included in the 2014–15 evaluation.

Table . Comparison of the contribution of Commonwealth environmental water to ecosystem diversity of wetlands in the first two years of the LTIM project sorted by the magnitude of the difference between the two years. Ecosystem types with more than 5% of their total Basin area inundated in at least one year are shaded blue. Ecosystem types that have not received Commonwealth environmental water in the two years of LTIM to date are shaded red.

| Australian National Aquatic Ecosystem (ANAE) wetland type | Total  area (ha) | % area influenced 2015–16 | % area influenced 2014–16 | Difference (%) |
| --- | --- | --- | --- | --- |
| Pt1.4.2: Intermittent River Cooba swamp | 104 | 0 | 97.1 | -97.1 |
| Psp2.1: Permanent salt marsh | 3 | 66.7 | 0 | 66.7 |
| Lp2.1: Permanent floodplain lakes | 137406 | 61.8 | 0.5 | 61.3 |
| Psp4: Permanent saline wetland | 3965 | 56 | 4 | 52 |
| Pp2.3.1: Permanent floodplain grass marshes | 431 | 5.8 | 50.3 | -44.5 |
| Pt2.1.2: Temporary tall emergent marsh | 18381 | 40.6 | 0 | 40.6 |
| Rt1: Temporary Streams | 294 | 33.7 | 1.7 | 32 |
| Rp1: Permanent Streams | 1428 | 28.4 | 0 | 28.4 |
| Pt1.1.1: Intermittent River red gum floodplain swamp | 63396 | 43.2 | 15.8 | 27.4 |
| Lsp1.1: Permanent saline lakes | 8225 | 25.3 | 0 | 25.3 |
| Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 51081 | 12.7 | 35.6 | -22.9 |
| Rt1.3: Temporary low energy upland streams | 712 | 22.9 | 0 | 22.9 |
| Rp1.4: Permanent lowland streams | 74534 | 19.2 | 5.2 | 14 |
| Pt1: Temporary swamps | 3766 | 18.7 | 7.4 | 11.3 |
| Pst1.1: Temporary saline swamp | 17020 | 12.5 | 3.2 | 9.3 |
| Pp2.1.1: Permanent floodplain tall emergent marshes | 7809 | 54.8 | 45.6 | 9.2 |
| Lst2.1: Temporary saline floodplain lakes | 10636 | 22 | 13 | 9 |
| Pst4: Temporary saline wetland | 11912 | 8.2 | 0.9 | 7.3 |
| Pp4.1: Permanent floodplain wetland | 42004 | 51.2 | 44.4 | 6.8 |
| Pst2.2: Temporary salt marsh | 8575 | 4.8 | 0 | 4.8 |
| Pt4.1: Temporary floodplain wetland | 122885 | 5.8 | 1.3 | 4.5 |
| Pt3.1.2: Clay pans | 51074 | 6.4 | 4.1 | 2.3 |
| Pp2.4.1: Permanent floodplain forb marshes | 157 | 1.9 | 0 | 1.9 |
| Pt1.7.2: Intermittent Lignum swamps | 17967 | <0.1 | 1.8 | -1.8 |
| Pt2.2.2: Temporary sedge/grass/forb marsh | 30527 | 2.1 | 0.3 | 1.8 |
| Pt2.3.1: Floodplain freshwater meadow | 11138 | 1.5 | 2.9 | -1.4 |
| Pt3.1.1: Floodplain clay pans | 49329 | 4.6 | 3.2 | 1.4 |
| Pst3.2: Salt pans and salt flats | 13186 | 1.2 | 0 | 1.2 |
| Lt2.1: Temporary floodplain lakes | 198459 | 1.3 | 0.3 | 1 |
| Pt1.1.2: Intermittent River red gum swamps | 8480 | 0.1 | 1.1 | -1 |
| Pt1.3.2: Intermittent Coolibah swamp | 1019 | 0 | 0.9 | -0.9 |
| Pt1.7.1: Intermittent Lignum floodplain swamp | 27356 | <0.1 | 0.7 | -0.7 |
| Rp1.3: Permanent low energy upland streams | 286 | 9.1 | 8.4 | 0.7 |
| Rt1.2: Temporary transitional zone streams | 5957 | 0.6 | 0 | 0.6 |
| Pt1.2.2: Intermittent Black box swamp | 16470 | 0.5 | <0.1 | 0.5 |
| Lp1.1: Permanent lakes | 47669 | 0.7 | 0.3 | 0.4 |
| Pt2.1.1: Temporary tall emergent floodplain marsh | 50687 | 0.4 | 0.1 | 0.3 |
| Pt1.2.1: Intermittent Black box floodplain swamp | 33916 | 3.8 | 3.5 | 0.3 |
| Pp2.2.2: Permanent sedge/grass/forb marshes | 2564 | 0 | 0.2 | -0.2 |
| Pt1.6.1: Temporary woodland floodplain swamp | 179804 | 0.2 | <0.1 | 0.2 |
| Lt1.1: Temporary lakes | 306351 | 0.7 | 0.5 | 0.2 |
| Pp4.2: Permanent wetland | 22388 | 0.1 | 0.2 | -0.1 |
| Pt4.2: Temporary wetland | 130760 | 0.1 | 0 | 0.1 |
| Lst1.1: Temporary saline lakes | 12759 | <0.1 | <0.1 | 0 |
| Pp2.1.2: Permanent tall emergent marshes | 134 | 23.1 | 23.1 | 0 |
| Pp2.3.2: Permanent grass marshes | 183 | 3.8 | 3.8 | 0 |
| Pt1.3.1: Intermittent Coolibah floodplain swamp | 5173 | 0.1 | 0.1 | 0 |
| Pt1.6.2: Temporary woodland swamp | 44406 | 0 | <0.1 | 0 |
| Rt1.4: Temporary lowland streams | 223362 | 0.9 | 0.9 | 0 |
| Lp1.2: Permanent lakes with aquatic beds | 1197 | 0 | 0 | 0 |
| Lp2.2: Permanent floodplain lakes with aquatic beds | 1868 | 0 | 0 | 0 |
| Lsp1.2: Permanent saline lakes with aquatic beds | 18 | 0 | 0 | 0 |
| Lsp2.1: Permanent saline floodplain lakes | 13178 | 0 | 0 | 0 |
| Lst1.2: Temporary saline lakes with aquatic beds | 1905 | 0 | 0 | 0 |
| Lst2.2: Temporary saline floodplain lakes with aquatic beds | 391 | 0 | 0 | 0 |
| Lt1.2: Temporary lakes with aquatic beds | 804 | 0 | 0 | 0 |
| Lt2.2: Temporary floodplain lakes with aquatic beds | 2520 | 0 | 0 | 0 |
| Pp1.1.2: Permanent paperbark swamps | 1 | 0 | 0 | 0 |
| Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 2275 | 0 | 0 | 0 |
| Pp2.4.2: Permanent forb marshes | 32 | 0 | 0 | 0 |
| Pp3: Peat bogs and fen marshes | 173 | 0 | 0 | 0 |
| Pps5: Permanent springs | 130 | 0 | 0 | 0 |
| Psp1.1: Saline paperbark swamp | 137 | 0 | 0 | 0 |
| Psp3.1: Permanent seagrass marshes | 16328 | 0 | 0 | 0 |
| Pt1.4.1: Intermittent River Cooba floodplain swamp | 3 | 0 | 0 | 0 |
| Pt1.5.1: Temporary paperbark floodplain swamp | 32 | 0 | 0 | 0 |
| Pt1.5.2: Temporary paperbark swamp | 89 | 0 | 0 | 0 |
| Pt2.3.2: Freshwater meadow | 14780 | 0 | 0 | 0 |
| Pu1: Unspecified wetland | 1768 | 0 | 0 | 0 |
| Rp1.1: Permanent high energy upland streams | 9662 | 0 | 0 | 0 |
| Rp1.2: Permanent transitional zone streams | 3652 | 0 | 0 | 0 |
| Rt1.1: Temporary high energy upland streams | 13853 | 0 | 0 | 0 |
| Ru1: Unspecified river (landform unknown) | 3 | 0 | 0 | 0 |

## Adaptive management

There are a number of avenues by which the Ecosystem Diversity evaluation can foster improvements in Commonwealth environmental water management and evaluation. Namely:

1. Improving confidence in the evaluation of the contribution of Commonwealth environmental water to Ecosystem Diversity within LTIM. This second year evaluation is already benefiting from greatly improved knowledge and mapping of the spatial extent of Commonwealth environmental water in the Basin. The anticipated improvements to the Basin ANAE mapping and classification will further improve the accuracy and comparability for determining the ecosystem types, particularly in areas of NSW that are a focus for Commonwealth environmental water delivery (e.g. the Lowbidgee, Macquarie Marshes, Gwydir wetlands and Central Murray Forests).
2. Improving understanding of the landscape context at monitoring sites to inform extrapolation of observed outcomes to unmonitored sites. Understanding how biotic and functional responses vary among ecosystem types that are monitored within Selected Areas will permit extrapolation of Selected Area and Basin matter outcomes to watering events in the same ecosystem types located in other areas of the Basin.
3. Developing watering objectives and expected outcomes for different ecosystem types. Understanding how key ecosystem types influence Basin biodiversity, resilience, ecosystem function and ecosystem services paves the way towards delivering Commonwealth environmental water for ecosystem objectives that move beyond counting ecosystem watering targets. For example, shaping flow regimes to preserve patterns of spatio-temporal variability along a river, or delivering water at critical times to maintain life forms or processes *because* they characterise ecosystem types that are to be preserved or improved. Managing to prevent or promote ecosystem turnover to new types may require long-term management frameworks with institutional memory and conviction to stay the course over decadal time scales. The Commonwealth currently does not have 1-year or 5-year expected outcomes for ecosystem diversity but it is hoped that within the LTIM project we can develop thinking towards an appropriate approach to develop draft ecosystem objectives. Current planning that links ecosystem types to water availability scenarios, e.g. directing water to maintain permanent water systems in dry years, and augmenting over-bank flows to the floodplain in wet years may be a good starting point that is already implicitly considering ecosystem diversity, albeit often without explicit ecosystem objectives.
4. Reducing the risks of implementing inappropriate watering regimes. Too much water, too frequently or consistently missing particular ecosystems types are all scenarios that are potentially deleterious to Basin biodiversity. Improving understanding of watering requirements at the ecosystem level should complement and enhance existing understanding that often focuses on the requirement s of focal species or communities. Through LTIM, we are assembling a library of basin wide watering frequencies from Commonwealth environmental water. Ecosystems types (and locations) that are consistently not watered, or watered with too much regularity, can then be identified and an informed assessment of risks can then take place to determine if there is a need and capability to adjust management planning to ensure Basin Plan objectives are met.

# Contribution to achievement of Basin Plan objectives

The Ecosystem Diversity component of the Basin evaluation contributes to the Basin Plan objective for Biodiversity under Section 8.05 of the Basin Plan and contributes indirectly to additional Basin Plan objectives by informing the evaluation of the Vegetation and Generic Diversity matters within the LTIM project (Capon and Campbell 2016, 2017, Hale 2016, 2017).

As for the previous year, the Commonwealth does not yet have 1-year or 5-year expected outcomes for ecosystem diversity (Table 7) and water is not currently delivered with direct understanding of the contribution of Commonwealth environmental watering to ecosystem diversity at the Basin-scale. However, this evaluation provides a foundation from which expected outcomes for ecosystem diversity may be developed in the future. Improvements to the Basin ANAE mapping and classification that are currently under way will alter the view of the contribution of Commonwealth environmental water to ecosystem diversity in the coming year. Once complete, the new classification will be retrospectively applied to LTIM project inundation data to provide for consistent multi-year comparison to facilitate the development of appropriate, achievable 1–5-year expected outcomes for ecosystem diversity.

Table . Commonwealth Environmental Outcomes framework for ecosystem diversity.

| **Basin Plan objectives** | **Basin outcomes** | **5–year expected outcomes** | **1–year expected outcomes** |
| --- | --- | --- | --- |
| Biodiversity  (Basin Plan S. 8.05) | Ecosystem diversity | None identified | None identified |

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# Annex A. Updating the Basin ANAE classification

Confidence in the accuracy of mapping and the Basin ANAE classification was examined in the previous LTIM ecosystem diversity evaluation (Brooks 2016a) and in the development of the classification (Brooks et al. 2014). Confidence in the mapping and classification varies throughout the Basin with the highest confidence in Queensland and Victoria, and the lowest confidence in New South Wales (NSW) (Brooks et al. 2014) (Figure A1). In South Australia ANAE ecosystem types were manually ascribed to wetlands and riverine reaches along full length of the Murray River to improve confidence and alignment of the classification to ecosystem types used by SA wetland managers above that produced by the ANAE classification methodology. Some additional limitations of the ANAE classification in South Australia that influence the findings in this report are noted in Miles and Eckert (2013) and include farms dams classified as natural wetland ecosystems, temporary wetlands to the south east of the south lagoon of the Coorong being classified as permanent, and wetland boundaries adjacent to the Lake Alexandrina that encompass multiple ecosystem types. These errors are mainly associated with wetland types around Lake Alexandrina and the Coorong (Miles *pers. comm.* 2017) but similar examples can be found in all states in areas where fundamental hydrological data and vegetation mapping are limited.

There was generally good agreement between the ecosystem types identified by the Basin ANAE classification when ground-truthed at sampling sites by LTIM Selected Area teams (Brooks 2016a). Most discrepancies were related to inaccuracies in the mapping of wetland boundaries rather than fundamental disagreement with the ANAE classification itself. The poorest representation of ecosystem types by the ANAE classification was in the Lachlan river system, Gwydir river system and Junction of the Warrego and Darling rivers Selected Areas (Brooks 2016a).

A significant update of the Basin ANAE classification is currently underway and scheduled to be completed mid-2017. The update is incorporating new data sets to increase confidence in the ANAE classification throughout the Basin with significant advances to the wetland and vegetation mapping in NSW in particular that will improve cross-jurisdictional consistency at the Basin-scale (Brooks 2016b). There will be significant changes to the number and extent of wetlands in areas of NSW that have been a recent focus for Commonwealth environmental water delivery in 2014-15 and again in 2015-16, namely: the Central Murray forests, the Macquarie Marshes, Lachlan River and to a lesser extent the Lowbidgee. This evaluation of the 2015-16 contribution of Commonwealth environmental water to ecosystem diversity in the Basin and that of last year (2014-15) are therefore interim assessments that will be updated in 2018 using the revised ANAE classification.

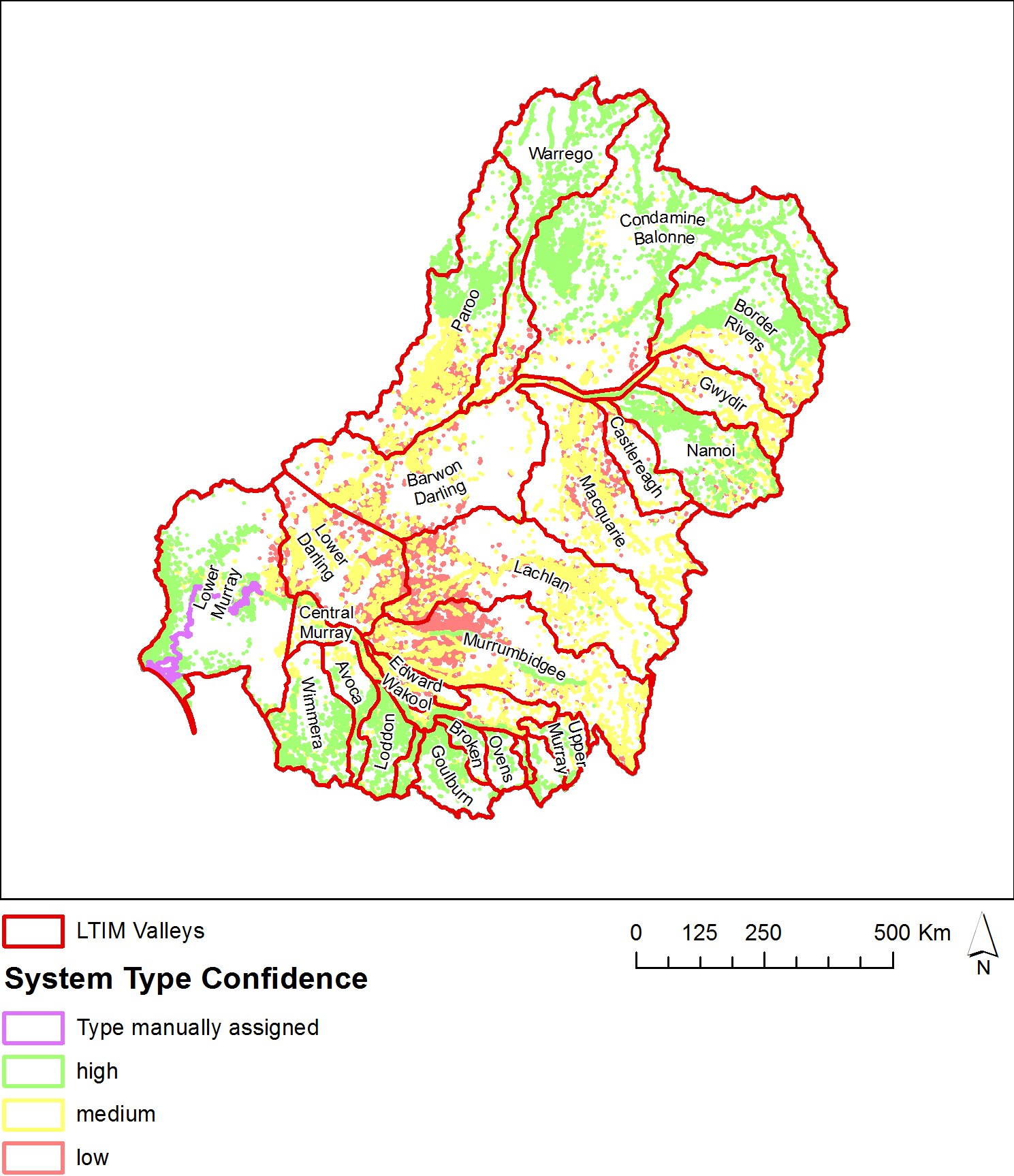


Figure A1. The Basin ANAE classification confidence in the System Type attribute for wetland feature mapping (Brooks *et al.* 2014).

# Annex B. ANAE wetland types influenced by Commonwealth environmental water by valley

Wetland types influenced by Commonwealth environmental water are represented by the entire wetland when any portion of the wetland was recorded as having been inundated. The contribution of Commonwealth environmental water to supporting wetland ecosystem diversity within each valley is presented below in Table B1.

Table B. Area of each wetland ecosystem type and the contribution of Commonwealth environmental water to supporting wetland ecosystem diversity within each valley, sorted by the area influenced with inundation highlighted in blue (includes riverine areas that are within the inundated areas but excludes in-channel flows presented in Annex D).

| Valley name | Australian National Aquatic Ecosystem (ANAE) wetland type | Total  area (ha) | Influenced by Commonwealth environmental water | |
| --- | --- | --- | --- | --- |
| Area (ha) | % of total |
| Avoca | Psp3.1: Permanent seagrass marshes | 15 547 | 0 | – |
| Avoca | Pst3.2: Salt pans and salt flats | 7 060 | 0 | – |
| Avoca | Pt3.1.1: Floodplain clay pans | 6 956 | 0 | – |
| Avoca | Pst1.1: Temporary saline swamp | 6 106 | 0 | – |
| Avoca | Lst1.1: Temporary saline lakes | 4 595 | 0 | – |
| Avoca | Lt1.1: Temporary lakes | 4 501 | 0 | – |
| Avoca | Pp2.2.2: Permanent sedge/grass/forb marshes | 1 704 | 0 | – |
| Avoca | Lst1.2: Temporary saline lakes with aquatic beds | 1 646 | 0 | – |
| Avoca | Pt3.1.2: Clay pans | 1 047 | 0 | – |
| Avoca | Pt1.6.1: Temporary woodland floodplain swamp | 793 | 0 | – |
| Avoca | Lst2.1: Temporary saline floodplain lakes | 568 | 0 | – |
| Avoca | Lt2.1: Temporary floodplain lakes | 341 | 0 | – |
| Avoca | Pst2.2: Temporary salt marsh | 330 | 0 | – |
| Avoca | Pst4: Temporary saline wetland | 245 | 0 | – |
| Avoca | Psp4: Permanent saline wetland | 225 | 0 | – |
| Avoca | Pt4.2: Temporary wetland | 223 | 0 | – |
| Avoca | Pt1.6.2: Temporary woodland swamp | 153 | 0 | – |
| Avoca | Pt1.1.2: Intermittent River red gum swamps | 93 | 0 | – |
| Avoca | Lp1.1: Permanent lakes | 82 | 0 | – |
| Avoca | Pt2.3.1: Floodplain freshwater meadow | 68 | 0 | – |
| Avoca | Pt1.1.1: Intermittent River red gum floodplain swamp | 52 | 0 | – |
| Avoca | Pt4.1: Temporary floodplain wetland | 50 | 0 | – |
| Avoca | Lp2.1: Permanent floodplain lakes | 11 | 0 | – |
| Avoca | Pt2.3.2: Freshwater meadow | 9 | 0 | – |
| Avoca | Pp4.2: Permanent wetland | 7 | 0 | – |
| Barwon Darling | Lt1.1: Temporary lakes | 31 568 | 0 | – |
| Barwon Darling | Lt2.1: Temporary floodplain lakes | 28 294 | 0 | – |
| Barwon Darling | Lp2.1: Permanent floodplain lakes | 26 734 | 0 | – |
| Barwon Darling | Pt1.6.2: Temporary woodland swamp | 12 894 | 0 | – |
| Barwon Darling | Pt4.2: Temporary wetland | 9 644 | 0 | – |
| Barwon Darling | Rp1.4: Permanent lowland rivers and streams | 6 554 | 0 | – |
| Barwon Darling | Pt1.6.1: Temporary woodland floodplain swamp | 3 383 | 0 | – |
| Barwon Darling | Pt1.2.1: Intermittent Black box floodplain swamp | 2 249 | 0 | – |
| Barwon Darling | Pt4.1: Temporary floodplain wetland | 1 973 | 0 | – |
| Barwon Darling | Lp1.1: Permanent lakes | 1 795 | 0 | – |
| Barwon Darling | Rt1.4: Temporary lowland rivers and streams | 1 607 | 0 | – |
| Barwon Darling | Pp4.1: Permanent floodplain wetland | 992 | 0 | – |
| Barwon Darling | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 747 | 0 | – |
| Barwon Darling | Pt1.2.2: Intermittent Black box swamp | 714 | 0 | – |
| Barwon Darling | Pp4.2: Permanent wetland | 669 | 0 | – |
| Barwon Darling | Pt2.2.2: Temporary sedge/grass/forb marsh | 450 | 0 | – |
| Barwon Darling | Pt1.1.1: Intermittent River red gum floodplain swamp | 429 | 0 | – |
| Barwon Darling | Pt3.1.1: Floodplain clay pans | 132 | 0 | – |
| Barwon Darling | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 71 | 0 | – |
| Barwon Darling | Pt1.3.1: Intermittent Coolibah floodplain swamp | 60 | 0 | – |
| Barwon Darling | Pt3.1.2: Clay pans | 48 | 0 | – |
| Barwon Darling | Pt1.1.2: Intermittent River red gum swamps | 11 | 0 | – |
| Barwon Darling | Rt1.1: Temporary high energy streams | 7 | 0 | – |
| Barwon Darling | Rp1.2: Permanent transitional zone streams | 5 | 0 | – |
| Barwon Darling | Pt1.3.2: Intermittent Coolibah swamp | 3 | 0 | – |
| Barwon Darling | Pps5: Permanent springs | <1 | 0 | – |
| Barwon Darling | Ru1: Unspecified river (landform unknown) | <1 | 0 | – |
| Border Rivers | Rt1.4: Temporary lowland rivers and streams | 26 917 | 0 | – |
| Border Rivers | Rt1.1: Temporary high energy streams | 7 949 | 0 | – |
| Border Rivers | Rp1.4: Permanent lowland rivers and streams | 6 356 | 0 | – |
| Border Rivers | Pt4.1: Temporary floodplain wetland | 3 178 | 0 | – |
| Border Rivers | Rt1.2: Temporary transitional zone streams | 2 335 | 0 | – |
| Border Rivers | Pt1.6.2: Temporary woodland swamp | 1 072 | 0 | – |
| Border Rivers | Pt1.6.1: Temporary woodland floodplain swamp | 1 026 | 0 | – |
| Border Rivers | Rp1.1: Permanent high energy streams | 1 000 | 0 | – |
| Border Rivers | Lp1.1: Permanent lakes | 773 | 0 | – |
| Border Rivers | Lp2.1: Permanent floodplain lakes | 626 | 0 | – |
| Border Rivers | Pt1.1.1: Intermittent River red gum floodplain swamp | 607 | 0 | – |
| Border Rivers | Rp1.2: Permanent transitional zone streams | 575 | 0 | – |
| Border Rivers | Pp4.1: Permanent floodplain wetland | 551 | 0 | – |
| Border Rivers | Lt2.1: Temporary floodplain lakes | 518 | 0 | – |
| Border Rivers | Pt2.3.1: Floodplain freshwater meadow | 361 | 0 | – |
| Border Rivers | Pt2.3.2: Freshwater meadow | 326 | 0 | – |
| Border Rivers | Pt1.3.1: Intermittent Coolibah floodplain swamp | 323 | 0 | – |
| Border Rivers | Pt4.2: Temporary wetland | 317 | 0 | – |
| Border Rivers | Lt1.1: Temporary lakes | 303 | 0 | – |
| Border Rivers | Lp2.2: Permanent floodplain lakes with aquatic beds | 255 | 0 | – |
| Border Rivers | Pp4.2: Permanent wetland | 116 | 0 | – |
| Border Rivers | Pt2.1.2: Temporary tall emergent marsh | 96 | 0 | – |
| Border Rivers | Pt3.1.1: Floodplain clay pans | 93 | 0 | – |
| Border Rivers | Rt1.3: Temporary low energy streams | 78 | 0 | – |
| Border Rivers | Pt3.1.2: Clay pans | 76 | 0 | – |
| Border Rivers | Lt2.2: Temporary floodplain lakes with aquatic beds | 45 | 0 | – |
| Border Rivers | Pp2.3.1: Permanent floodplain grass marshes | 26 | 0 | – |
| Border Rivers | Pt1.2.2: Intermittent Black box swamp | 9 | 0 | – |
| Border Rivers | Rp1.3: Permanent low energy streams | 9 | 0 | – |
| Border Rivers | Pt1.1.2: Intermittent River red gum swamps | 9 | 0 | – |
| Border Rivers | Pp2.2.2: Permanent sedge/grass/forb marshes | 5 | 0 | – |
| Border Rivers | Pt1.2.1: Intermittent Black box floodplain swamp | 4 | 0 | – |
| Border Rivers | Ru1: Unspecified river (landform unknown) | 2 | 0 | – |
| Border Rivers | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 | 0 | – |
| Border Rivers | Pt1.3.2: Intermittent Coolibah swamp | 1 | 0 | – |
| Border Rivers | Pps5: Permanent springs | <1 | 0 | – |
| Broken | Pt3.1.2: Clay pans | 1 604 | 0 | – |
| Broken | Pt1.1.1: Intermittent River red gum floodplain swamp | 1 200 | 0 | – |
| Broken | Pt3.1.1: Floodplain clay pans | 832 | 0 | – |
| Broken | Pt1.1.2: Intermittent River red gum swamps | 579 | 0 | – |
| Broken | Pt1.6.1: Temporary woodland floodplain swamp | 294 | 0 | – |
| Broken | Pt2.3.1: Floodplain freshwater meadow | 203 | 0 | – |
| Broken | Pst4: Temporary saline wetland | 185 | 0 | – |
| Broken | Lt1.1: Temporary lakes | 171 | 0 | – |
| Broken | Pt1.6.2: Temporary woodland swamp | 160 | 0 | – |
| Broken | Pt1.2.2: Intermittent Black box swamp | 104 | 0 | – |
| Broken | Pt2.1.1: Temporary tall emergent floodplain marsh | 79 | 0 | – |
| Broken | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 77 | 0 | – |
| Broken | Lt2.1: Temporary floodplain lakes | 70 | 0 | – |
| Broken | Pt2.3.2: Freshwater meadow | 68 | 0 | – |
| Broken | Pst3.2: Salt pans and salt flats | 60 | 0 | – |
| Broken | Pt2.1.2: Temporary tall emergent marsh | 60 | 0 | – |
| Broken | Lp1.1: Permanent lakes | 46 | 0 | – |
| Broken | Lp2.1: Permanent floodplain lakes | 16 | 0 | – |
| Broken | Pst1.1: Temporary saline swamp | 16 | 0 | – |
| Broken | Pp4.2: Permanent wetland | 3 | 0 | – |
| Broken | Pt1.2.1: Intermittent Black box floodplain swamp | 2 | 0 | – |
| Broken | Pp4.1: Permanent floodplain wetland | 1 | 0 | – |
| Broken | Pps5: Permanent springs | <1 | 0 | – |
| Campaspe | Pt3.1.2: Clay pans | 1 705 | 0 | – |
| Campaspe | Pt1.1.2: Intermittent River red gum swamps | 388 | 0 | – |
| Campaspe | Pt1.6.2: Temporary woodland swamp | 143 | 0 | – |
| Campaspe | Lt1.1: Temporary lakes | 85 | 0 | – |
| Campaspe | Pt2.1.2: Temporary tall emergent marsh | 38 | 0 | – |
| Campaspe | Pt2.3.2: Freshwater meadow | 33 | 0 | – |
| Campaspe | Lp1.1: Permanent lakes | 22 | 0 | – |
| Campaspe | Pp2.4.2: Permanent forb marshes | 3 | 0 | – |
| Campaspe | Pps5: Permanent springs | 1 | 0 | – |
| Castlereagh | Rt1.4: Temporary lowland rivers and streams | 557 | 0 | – |
| Castlereagh | Rp1.4: Permanent lowland rivers and streams | 488 | 0 | – |
| Castlereagh | Lt1.1: Temporary lakes | 279 | 0 | – |
| Castlereagh | Lt2.1: Temporary floodplain lakes | 177 | 0 | – |
| Castlereagh | Pt4.2: Temporary wetland | 51 | 0 | – |
| Castlereagh | Pt1.6.2: Temporary woodland swamp | 35 | 0 | – |
| Castlereagh | Rp1.2: Permanent transitional zone streams | 32 | 0 | – |
| Castlereagh | Pt3.1.2: Clay pans | 30 | 0 | – |
| Castlereagh | Pt1.2.2: Intermittent Black box swamp | 25 | 0 | – |
| Castlereagh | Rp1.3: Permanent low energy streams | 17 | 0 | – |
| Castlereagh | Pp4.2: Permanent wetland | 16 | 0 | – |
| Castlereagh | Pt2.1.1: Temporary tall emergent floodplain marsh | 13 | 0 | – |
| Castlereagh | Rt1.2: Temporary transitional zone streams | 12 | 0 | – |
| Castlereagh | Rp1.1: Permanent high energy streams | 11 | 0 | – |
| Castlereagh | Lp1.1: Permanent lakes | 5 | 0 | – |
| Castlereagh | Pt1.1.2: Intermittent River red gum swamps | 1 | 0 | – |
| Castlereagh | Rt1.1: Temporary high energy streams | 1 | 0 | – |
| Castlereagh | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 | 0 | – |
| Castlereagh | Pt1.2.1: Intermittent Black box floodplain swamp | 1 | 0 | – |
| Castlereagh | Pps5: Permanent springs | 1 | 0 | – |
| Central Murray | Pt1.1.1: Intermittent River red gum floodplain swamp | 36 559 | 22 047 | 60.3 |
| Central Murray | Pp4.1: Permanent floodplain wetland | 7 331 | 2 401 | 32.8 |
| Central Murray | Lt2.1: Temporary floodplain lakes | 4 684 | 1 852 | 39.5 |
| Central Murray | Lst2.1: Temporary saline floodplain lakes | 1 630 | 1 513 | 92.8 |
| Central Murray | Rp1.4: Permanent lowland rivers and streams | 12 011 | 1 080 | 9.0 |
| Central Murray | Lt1.1: Temporary lakes | 13 767 | 1 053 | 7.6 |
| Central Murray | Psp4: Permanent saline wetland | 1 008 | 916 | 90.9 |
| Central Murray | Rt1.4: Temporary lowland rivers and streams | 10 267 | 716 | 7.0 |
| Central Murray | Pp2.1.1: Permanent floodplain tall emergent marshes | 969 | 710 | 73.3 |
| Central Murray | Lp2.1: Permanent floodplain lakes | 1 744 | 395 | 22.6 |
| Central Murray | Pt1.6.1: Temporary woodland floodplain swamp | 918 | 393 | 42.8 |
| Central Murray | Pst1.1: Temporary saline swamp | 1 102 | 267 | 24.2 |
| Central Murray | Pst4: Temporary saline wetland | 1 252 | 237 | 18.9 |
| Central Murray | Pt1.2.1: Intermittent Black box floodplain swamp | 3 049 | 236 | 7.7 |
| Central Murray | Rt1.3: Temporary low energy streams | 249 | 163 | 65.5 |
| Central Murray | Pt2.3.1: Floodplain freshwater meadow | 526 | 84 | 16.0 |
| Central Murray | Pt4.1: Temporary floodplain wetland | 807 | 63 | 7.8 |
| Central Murray | Pt3.1.2: Clay pans | 3 641 | 35 | 1.0 |
| Central Murray | Pt3.1.1: Floodplain clay pans | 6 608 | 32 | 0.5 |
| Central Murray | Rt1.2: Temporary transitional zone streams | 60 | 27 | 45.0 |
| Central Murray | Lp1.1: Permanent lakes | 1 542 | 19 | 1.2 |
| Central Murray | Pt1.1.2: Intermittent River red gum swamps | 717 | 5 | 0.7 |
| Central Murray | Lst1.1: Temporary saline lakes | 1 797 | 4 | 0.2 |
| Central Murray | Pp2.4.1: Permanent floodplain forb marshes | 132 | 3 | 2.3 |
| Central Murray | Pp2.3.1: Permanent floodplain grass marshes | 41 | 2 | 4.9 |
| Central Murray | Rp1.3: Permanent low energy streams | 19 | 2 | 10.5 |
| Central Murray | Pp4.2: Permanent wetland | 3 199 | 0 | – |
| Central Murray | Pt1.7.2: Intermittent Lignum swamps | 1 373 | 0 | – |
| Central Murray | Pt1.7.1: Intermittent Lignum floodplain swamp | 1 018 | 0 | – |
| Central Murray | Pt1.6.2: Temporary woodland swamp | 561 | 0 | – |
| Central Murray | Pt2.1.1: Temporary tall emergent floodplain marsh | 436 | 0 | – |
| Central Murray | Pt4.2: Temporary wetland | 418 | 0 | – |
| Central Murray | Pt2.3.2: Freshwater meadow | 403 | 0 | – |
| Central Murray | Pt1.2.2: Intermittent Black box swamp | 401 | 0 | – |
| Central Murray | Pst3.2: Salt pans and salt flats | 361 | 0 | – |
| Central Murray | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 247 | 0 | – |
| Central Murray | Pt2.2.2: Temporary sedge/grass/forb marsh | 232 | 0 | – |
| Central Murray | Lsp2.1: Permanent saline floodplain lakes | 188 | 0 | – |
| Central Murray | Rp1.1: Permanent high energy streams | 104 | 0 | – |
| Central Murray | Pp2.2.2: Permanent sedge/grass/forb marshes | 89 | 0 | – |
| Central Murray | Rp1.2: Permanent transitional zone streams | 75 | 0 | – |
| Central Murray | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 68 | 0 | – |
| Central Murray | Pt2.1.2: Temporary tall emergent marsh | 52 | 0 | – |
| Central Murray | Rt1.1: Temporary high energy streams | 51 | 0 | – |
| Central Murray | Lsp1.1: Permanent saline lakes | 46 | 0 | – |
| Central Murray | Pp2.1.2: Permanent tall emergent marshes | 42 | 0 | – |
| Central Murray | Lt2.2: Temporary floodplain lakes with aquatic beds | 18 | 0 | – |
| Central Murray | Pp2.3.2: Permanent grass marshes | 1 | 0 | – |
| Condamine Balonne | Rt1.4: Temporary lowland rivers and streams | 83 638 | 0 | – |
| Condamine Balonne | Pt2.1.1: Temporary tall emergent floodplain marsh | 35 572 | 0 | – |
| Condamine Balonne | Pt4.1: Temporary floodplain wetland | 30 720 | 0 | – |
| Condamine Balonne | Pt1.7.1: Intermittent Lignum floodplain swamp | 11 797 | 0 | – |
| Condamine Balonne | Lt1.1: Temporary lakes | 10 712 | 0 | – |
| Condamine Balonne | Lt2.1: Temporary floodplain lakes | 8 606 | 0 | – |
| Condamine Balonne | Pt1.6.1: Temporary woodland floodplain swamp | 6 462 | 0 | – |
| Condamine Balonne | Pt1.2.1: Intermittent Black box floodplain swamp | 4 683 | 0 | – |
| Condamine Balonne | Pt4.2: Temporary wetland | 4 428 | 0 | – |
| Condamine Balonne | Rt1.1: Temporary high energy streams | 4 120 | 0 | – |
| Condamine Balonne | Pt2.1.2: Temporary tall emergent marsh | 4 108 | 0 | – |
| Condamine Balonne | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 2 923 | 0 | – |
| Condamine Balonne | Pt1.6.2: Temporary woodland swamp | 2 550 | 0 | – |
| Condamine Balonne | Pp2.1.1: Permanent floodplain tall emergent marshes | 2 550 | 0 | – |
| Condamine Balonne | Pp4.1: Permanent floodplain wetland | 2 361 | 0 | – |
| Condamine Balonne | Pt3.1.1: Floodplain clay pans | 2 349 | 0 | – |
| Condamine Balonne | Rt1.2: Temporary transitional zone streams | 1 996 | 0 | – |
| Condamine Balonne | Rp1.4: Permanent lowland rivers and streams | 1 902 | 0 | – |
| Condamine Balonne | Lt2.2: Temporary floodplain lakes with aquatic beds | 1 726 | 0 | – |
| Condamine Balonne | Lp2.2: Permanent floodplain lakes with aquatic beds | 1 452 | 0 | – |
| Condamine Balonne | Lst2.1: Temporary saline floodplain lakes | 1 322 | 0 | – |
| Condamine Balonne | Pp4.2: Permanent wetland | 1 285 | 0 | – |
| Condamine Balonne | Lp1.1: Permanent lakes | 1 234 | 0 | – |
| Condamine Balonne | Lp2.1: Permanent floodplain lakes | 876 | 0 | – |
| Condamine Balonne | Pt1.1.2: Intermittent River red gum swamps | 528 | 0 | – |
| Condamine Balonne | Pt1.1.1: Intermittent River red gum floodplain swamp | 503 | 0 | – |
| Condamine Balonne | Pt1.3.1: Intermittent Coolibah floodplain swamp | 363 | 0 | – |
| Condamine Balonne | Lp1.2: Permanent lakes with aquatic beds | 363 | 0 | – |
| Condamine Balonne | Lst1.1: Temporary saline lakes | 303 | 0 | – |
| Condamine Balonne | Pt1.3.2: Intermittent Coolibah swamp | 268 | 0 | – |
| Condamine Balonne | Pt2.2.2: Temporary sedge/grass/forb marsh | 242 | 0 | – |
| Condamine Balonne | Pt2.3.1: Floodplain freshwater meadow | 192 | 0 | – |
| Condamine Balonne | Rt1.3: Temporary low energy streams | 145 | 0 | – |
| Condamine Balonne | Pt2.3.2: Freshwater meadow | 100 | 0 | – |
| Condamine Balonne | Rp1.2: Permanent transitional zone streams | 65 | 0 | – |
| Condamine Balonne | Rp1.1: Permanent high energy streams | 54 | 0 | – |
| Condamine Balonne | Pt3.1.2: Clay pans | 45 | 0 | – |
| Condamine Balonne | Pp2.1.2: Permanent tall emergent marshes | 41 | 0 | – |
| Condamine Balonne | Pp2.3.1: Permanent floodplain grass marshes | 25 | 0 | – |
| Condamine Balonne | Rp1.3: Permanent low energy streams | 21 | 0 | – |
| Condamine Balonne | Pt1.7.2: Intermittent Lignum swamps | 7 | 0 | – |
| Condamine Balonne | Pt1.5.2: Temporary paperbark swamp | 6 | 0 | – |
| Condamine Balonne | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 6 | 0 | – |
| Condamine Balonne | Pps5: Permanent springs | 6 | 0 | – |
| Condamine Balonne | Lsp1.1: Permanent saline lakes | 3 | 0 | – |
| Condamine Balonne | Pp2.2.2: Permanent sedge/grass/forb marshes | 1 | 0 | – |
| Condamine Balonne | Pt1.2.2: Intermittent Black box swamp | 1 | 0 | – |
| Condamine Balonne | Ru1: Unspecified river (landform unknown) | <1 | 0 | – |
| Edward Wakool | Rt1.4: Temporary lowland rivers and streams | 6 878 | 0 | – |
| Edward Wakool | Rp1.4: Permanent lowland rivers and streams | 3 040 | 0 | – |
| Edward Wakool | Pt3.1.1: Floodplain clay pans | 2 399 | 0 | – |
| Edward Wakool | Pt3.1.2: Clay pans | 1 217 | 0 | – |
| Edward Wakool | Pt1.1.1: Intermittent River red gum floodplain swamp | 1 114 | 0 | – |
| Edward Wakool | Pt1.2.1: Intermittent Black box floodplain swamp | 1 101 | 0 | – |
| Edward Wakool | Lt1.1: Temporary lakes | 764 | 0 | – |
| Edward Wakool | Pp4.1: Permanent floodplain wetland | 678 | 0 | – |
| Edward Wakool | Pt1.2.2: Intermittent Black box swamp | 555 | 0 | – |
| Edward Wakool | Pt2.2.2: Temporary sedge/grass/forb marsh | 264 | 0 | – |
| Edward Wakool | Pt1.6.1: Temporary woodland floodplain swamp | 218 | 0 | – |
| Edward Wakool | Pt1.6.2: Temporary woodland swamp | 212 | 0 | – |
| Edward Wakool | Lt2.1: Temporary floodplain lakes | 208 | 0 | – |
| Edward Wakool | Pt1.1.2: Intermittent River red gum swamps | 194 | 0 | – |
| Edward Wakool | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 193 | 0 | – |
| Edward Wakool | Pt4.2: Temporary wetland | 172 | 0 | – |
| Edward Wakool | Pt4.1: Temporary floodplain wetland | 114 | 0 | – |
| Edward Wakool | Pp4.2: Permanent wetland | 98 | 0 | – |
| Edward Wakool | Pt1.7.1: Intermittent Lignum floodplain swamp | 85 | 0 | – |
| Edward Wakool | Pt1.7.2: Intermittent Lignum swamps | 78 | 0 | – |
| Edward Wakool | Pt2.3.2: Freshwater meadow | 76 | 0 | – |
| Edward Wakool | Pt2.3.1: Floodplain freshwater meadow | 68 | 0 | – |
| Edward Wakool | Pt2.1.1: Temporary tall emergent floodplain marsh | 43 | 0 | – |
| Edward Wakool | Lp1.1: Permanent lakes | 37 | 0 | – |
| Edward Wakool | Pp2.3.1: Permanent floodplain grass marshes | 7 | 0 | – |
| Edward Wakool | Pp2.3.2: Permanent grass marshes | 6 | 0 | – |
| Edward Wakool | Psp4: Permanent saline wetland | 6 | 0 | – |
| Edward Wakool | Pst1.1: Temporary saline swamp | 5 | 0 | – |
| Edward Wakool | Lp2.1: Permanent floodplain lakes | 4 | 0 | – |
| Edward Wakool | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 4 | 0 | – |
| Edward Wakool | Pp2.2.2: Permanent sedge/grass/forb marshes | 3 | 0 | – |
| Edward Wakool | Rt1.3: Temporary low energy streams | 2 | 0 | – |
| Goulburn | Pt3.1.2: Clay pans | 4 179 | 0 | – |
| Goulburn | Pt3.1.1: Floodplain clay pans | 3 886 | 0 | – |
| Goulburn | Pt1.1.1: Intermittent River red gum floodplain swamp | 3 715 | 0 | – |
| Goulburn | Pt1.1.2: Intermittent River red gum swamps | 1 297 | 0 | – |
| Goulburn | Lsp2.1: Permanent saline floodplain lakes | 1 272 | 0 | – |
| Goulburn | Lt1.1: Temporary lakes | 1 042 | 0 | – |
| Goulburn | Pst4: Temporary saline wetland | 968 | 0 | – |
| Goulburn | Lp1.1: Permanent lakes | 945 | 0 | – |
| Goulburn | Lt2.1: Temporary floodplain lakes | 799 | 0 | – |
| Goulburn | Pt1.6.2: Temporary woodland swamp | 701 | 0 | – |
| Goulburn | Lt1.2: Temporary lakes with aquatic beds | 579 | 0 | – |
| Goulburn | Pt2.1.1: Temporary tall emergent floodplain marsh | 496 | 0 | – |
| Goulburn | Pt2.3.1: Floodplain freshwater meadow | 366 | 0 | – |
| Goulburn | Pt2.1.2: Temporary tall emergent marsh | 215 | 0 | – |
| Goulburn | Lp2.1: Permanent floodplain lakes | 184 | 0 | – |
| Goulburn | Lt2.2: Temporary floodplain lakes with aquatic beds | 165 | 0 | – |
| Goulburn | Pt1.6.1: Temporary woodland floodplain swamp | 155 | 0 | – |
| Goulburn | Pt2.2.2: Temporary sedge/grass/forb marsh | 153 | 0 | – |
| Goulburn | Pt2.3.2: Freshwater meadow | 117 | 0 | – |
| Goulburn | Pt1.2.2: Intermittent Black box swamp | 117 | 0 | – |
| Goulburn | Pp4.2: Permanent wetland | 91 | 0 | – |
| Goulburn | Lst2.1: Temporary saline floodplain lakes | 67 | 0 | – |
| Goulburn | Pt4.2: Temporary wetland | 50 | 0 | – |
| Goulburn | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 31 | 0 | – |
| Goulburn | Pp2.1.1: Permanent floodplain tall emergent marshes | 29 | 0 | – |
| Goulburn | Pst3.2: Salt pans and salt flats | 16 | 0 | – |
| Goulburn | Pp2.1.2: Permanent tall emergent marshes | 8 | 0 | – |
| Goulburn | Pt1.2.1: Intermittent Black box floodplain swamp | 6 | 0 | – |
| Goulburn | Rt1.2: Temporary transitional zone streams | 6 | 0 | – |
| Goulburn | Rt1.1: Temporary high energy streams | 2 | 0 | – |
| Goulburn | Pp4.1: Permanent floodplain wetland | 1 | 0 | – |
| Goulburn | Pps5: Permanent springs | <1 | 0 | – |
| Gwydir | Rp1.4: Permanent lowland rivers and streams | 1 434 | 577 | 40.2 |
| Gwydir | Rt1.4: Temporary lowland rivers and streams | 632 | 188 | 29.7 |
| Gwydir | Pt2.1.1: Temporary tall emergent floodplain marsh | 42 | 42 | 100.0 |
| Gwydir | Rp1.3: Permanent low energy streams | 19 | 19 | 100.0 |
| Gwydir | Lt2.1: Temporary floodplain lakes | 108 | 15 | 13.9 |
| Gwydir | Pt1.3.1: Intermittent Coolibah floodplain swamp | 12 | 3 | 25.0 |
| Gwydir | Pt1.6.1: Temporary woodland floodplain swamp | 10 | 2 | 20.0 |
| Gwydir | Pt1.1.1: Intermittent River red gum floodplain swamp | 3 | 1 | 33.3 |
| Gwydir | Rp1.2: Permanent transitional zone streams | 853 | 0 | – |
| Gwydir | Rp1.1: Permanent high energy streams | 636 | 0 | – |
| Gwydir | Lt1.1: Temporary lakes | 609 | 0 | – |
| Gwydir | Pt4.2: Temporary wetland | 445 | 0 | – |
| Gwydir | Pp4.2: Permanent wetland | 224 | 0 | – |
| Gwydir | Pt3.1.2: Clay pans | 180 | 0 | – |
| Gwydir | Pt1.6.2: Temporary woodland swamp | 157 | 0 | – |
| Gwydir | Lp1.1: Permanent lakes | 51 | 0 | – |
| Gwydir | Pt1.3.2: Intermittent Coolibah swamp | 28 | 0 | – |
| Gwydir | Pt2.2.2: Temporary sedge/grass/forb marsh | 13 | 0 | – |
| Gwydir | Pp4.1: Permanent floodplain wetland | 10 | 0 | – |
| Gwydir | Pt3.1.1: Floodplain clay pans | 10 | 0 | – |
| Gwydir | Pp2.2.2: Permanent sedge/grass/forb marshes | 8 | 0 | – |
| Gwydir | Pt1.4.2: Intermittent River Cooba swamp | 4 | 0 | – |
| Gwydir | Pt1.1.2: Intermittent River red gum swamps | 3 | 0 | – |
| Gwydir | Pp1.1.2: Permanent paperbark swamps | 1 | 0 | – |
| Gwydir | Rt1.3: Temporary low energy streams | 1 | 0 | – |
| Gwydir | Pt4.1: Temporary floodplain wetland | 1 | 0 | – |
| Gwydir | Rt1.2: Temporary transitional zone streams | 1 | 0 | – |
| Gwydir | Pps5: Permanent springs | <1 | 0 | – |
| Kiewa | Pt4.2: Temporary wetland | 553 | 0 | – |
| Kiewa | Pt3.1.2: Clay pans | 261 | 0 | – |
| Kiewa | Pt2.2.2: Temporary sedge/grass/forb marsh | 185 | 0 | – |
| Kiewa | Lp1.1: Permanent lakes | 44 | 0 | – |
| Kiewa | Pt1.6.2: Temporary woodland swamp | 42 | 0 | – |
| Kiewa | Pt1.1.2: Intermittent River red gum swamps | 14 | 0 | – |
| Kiewa | Lt1.1: Temporary lakes | 8 | 0 | – |
| Kiewa | Rp1.1: Permanent high energy streams | 2 | 0 | – |
| Kiewa | Pp4.2: Permanent wetland | 2 | 0 | – |
| Kiewa | Pp2.1.2: Permanent tall emergent marshes | 1 | 0 | – |
| Kiewa | Pps5: Permanent springs | <1 | 0 | – |
| Lachlan | Pp2.1.1: Permanent floodplain tall emergent marshes | 3 440 | 3 440 | 100.0 |
| Lachlan | Lt2.1: Temporary floodplain lakes | 21 190 | 667 | 3.1 |
| Lachlan | Pt1.1.1: Intermittent River red gum floodplain swamp | 1 615 | 547 | 33.9 |
| Lachlan | Lp2.1: Permanent floodplain lakes | 702 | 534 | 76.1 |
| Lachlan | Rp1.4: Permanent lowland rivers and streams | 6 019 | 472 | 7.8 |
| Lachlan | Pt1.2.1: Intermittent Black box floodplain swamp | 7 299 | 279 | 3.8 |
| Lachlan | Lp1.1: Permanent lakes | 5 441 | 178 | 3.3 |
| Lachlan | Pt4.1: Temporary floodplain wetland | 8 716 | 121 | 1.4 |
| Lachlan | Pt2.1.1: Temporary tall emergent floodplain marsh | 115 | 100 | 87.0 |
| Lachlan | Pt1.2.2: Intermittent Black box swamp | 7 610 | 88 | 1.2 |
| Lachlan | Pt4.2: Temporary wetland | 13 276 | 48 | 0.4 |
| Lachlan | Pp4.1: Permanent floodplain wetland | 652 | 39 | 6.0 |
| Lachlan | Pt2.1.2: Temporary tall emergent marsh | 14 | 14 | 100.0 |
| Lachlan | Pt3.1.2: Clay pans | 2 106 | 13 | 0.6 |
| Lachlan | Pp2.1.2: Permanent tall emergent marshes | 9 | 9 | 100.0 |
| Lachlan | Rt1.4: Temporary lowland rivers and streams | 9 804 | 3 | <0.1 |
| Lachlan | Pt1.7.2: Intermittent Lignum swamps | 15 791 | 0 | – |
| Lachlan | Lt1.1: Temporary lakes | 12 854 | 0 | – |
| Lachlan | Pt3.1.1: Floodplain clay pans | 12 818 | 0 | – |
| Lachlan | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 7 093 | 0 | – |
| Lachlan | Pt1.7.1: Intermittent Lignum floodplain swamp | 6 428 | 0 | – |
| Lachlan | Pt2.3.1: Floodplain freshwater meadow | 2 959 | 0 | – |
| Lachlan | Pt2.3.2: Freshwater meadow | 2 259 | 0 | – |
| Lachlan | Pt1.6.2: Temporary woodland swamp | 2 219 | 0 | – |
| Lachlan | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 1 719 | 0 | – |
| Lachlan | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 097 | 0 | – |
| Lachlan | Pt1.6.1: Temporary woodland floodplain swamp | 1 089 | 0 | – |
| Lachlan | Rp1.1: Permanent high energy streams | 1 021 | 0 | – |
| Lachlan | Pt1.1.2: Intermittent River red gum swamps | 583 | 0 | – |
| Lachlan | Pp4.2: Permanent wetland | 338 | 0 | – |
| Lachlan | Rt1.3: Temporary low energy streams | 196 | 0 | – |
| Lachlan | Rp1.2: Permanent transitional zone streams | 191 | 0 | – |
| Lachlan | Pp2.2.2: Permanent sedge/grass/forb marshes | 100 | 0 | – |
| Lachlan | Rt1.2: Temporary transitional zone streams | 70 | 0 | – |
| Lachlan | Rp1.3: Permanent low energy streams | 62 | 0 | – |
| Lachlan | Pp2.3.2: Permanent grass marshes | 21 | 0 | – |
| Lachlan | Pps5: Permanent springs | 7 | 0 | – |
| Loddon | Pst1.1: Temporary saline swamp | 5 949 | 0 | – |
| Loddon | Pst3.2: Salt pans and salt flats | 4 546 | 0 | – |
| Loddon | Pt3.1.2: Clay pans | 4 334 | 0 | – |
| Loddon | Lp1.1: Permanent lakes | 3 894 | 0 | – |
| Loddon | Pst4: Temporary saline wetland | 3 786 | 0 | – |
| Loddon | Lsp1.1: Permanent saline lakes | 3 206 | 0 | – |
| Loddon | Lst1.1: Temporary saline lakes | 2 044 | 0 | – |
| Loddon | Lt1.1: Temporary lakes | 1 887 | 0 | – |
| Loddon | Pt2.3.1: Floodplain freshwater meadow | 1 632 | 0 | – |
| Loddon | Pt2.3.2: Freshwater meadow | 1 162 | 0 | – |
| Loddon | Pt1.6.2: Temporary woodland swamp | 922 | 0 | – |
| Loddon | Pt3.1.1: Floodplain clay pans | 903 | 0 | – |
| Loddon | Lt2.1: Temporary floodplain lakes | 892 | 0 | – |
| Loddon | Pt2.2.2: Temporary sedge/grass/forb marsh | 728 | 0 | – |
| Loddon | Lst2.1: Temporary saline floodplain lakes | 329 | 0 | – |
| Loddon | Pt1.1.2: Intermittent River red gum swamps | 288 | 0 | – |
| Loddon | Pt1.6.1: Temporary woodland floodplain swamp | 275 | 0 | – |
| Loddon | Pt1.1.1: Intermittent River red gum floodplain swamp | 261 | 0 | – |
| Loddon | Lst1.2: Temporary saline lakes with aquatic beds | 181 | 0 | – |
| Loddon | Rt1.4: Temporary lowland rivers and streams | 131 | 0 | – |
| Loddon | Pt4.2: Temporary wetland | 112 | 0 | – |
| Loddon | Pt1.7.2: Intermittent Lignum swamps | 67 | 0 | – |
| Loddon | Pt1.2.2: Intermittent Black box swamp | 65 | 0 | – |
| Loddon | Pt2.1.1: Temporary tall emergent floodplain marsh | 54 | 0 | – |
| Loddon | Lt2.2: Temporary floodplain lakes with aquatic beds | 52 | 0 | – |
| Loddon | Lp2.1: Permanent floodplain lakes | 49 | 0 | – |
| Loddon | Pt4.1: Temporary floodplain wetland | 40 | 0 | – |
| Loddon | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 35 | 0 | – |
| Loddon | Rp1.4: Permanent lowland rivers and streams | 18 | 0 | – |
| Loddon | Lp1.2: Permanent lakes with aquatic beds | 17 | 0 | – |
| Loddon | Lt1.2: Temporary lakes with aquatic beds | 9 | 0 | – |
| Loddon | Pp2.4.2: Permanent forb marshes | 9 | 0 | – |
| Loddon | Pp4.2: Permanent wetland | 8 | 0 | – |
| Loddon | Pp2.2.2: Permanent sedge/grass/forb marshes | 7 | 0 | – |
| Loddon | Pps5: Permanent springs | 4 | 0 | – |
| Lower Darling | Lt1.1: Temporary lakes | 122 402 | 0 | – |
| Lower Darling | Pt4.2: Temporary wetland | 69 056 | 0 | – |
| Lower Darling | Lt2.1: Temporary floodplain lakes | 64 936 | 0 | – |
| Lower Darling | Pt4.1: Temporary floodplain wetland | 34 578 | 0 | – |
| Lower Darling | Lp2.1: Permanent floodplain lakes | 9 389 | 0 | – |
| Lower Darling | Pt2.3.2: Freshwater meadow | 7 130 | 0 | – |
| Lower Darling | Pt1.6.2: Temporary woodland swamp | 4 311 | 0 | – |
| Lower Darling | Rp1.4: Permanent lowland rivers and streams | 2 841 | 0 | – |
| Lower Darling | Pt3.1.2: Clay pans | 1 380 | 0 | – |
| Lower Darling | Rt1.4: Temporary lowland rivers and streams | 1 180 | 0 | – |
| Lower Darling | Pt1.2.2: Intermittent Black box swamp | 1 145 | 0 | – |
| Lower Darling | Pp4.2: Permanent wetland | 1 099 | 0 | – |
| Lower Darling | Pt1.2.1: Intermittent Black box floodplain swamp | 809 | 0 | – |
| Lower Darling | Pt1.1.1: Intermittent River red gum floodplain swamp | 803 | 0 | – |
| Lower Darling | Pt2.2.2: Temporary sedge/grass/forb marsh | 598 | 0 | – |
| Lower Darling | Lst1.1: Temporary saline lakes | 509 | 0 | – |
| Lower Darling | Pt2.3.1: Floodplain freshwater meadow | 314 | 0 | – |
| Lower Darling | Lp1.1: Permanent lakes | 296 | 0 | – |
| Lower Darling | Pt1.6.1: Temporary woodland floodplain swamp | 107 | 0 | – |
| Lower Darling | Pp4.1: Permanent floodplain wetland | 96 | 0 | – |
| Lower Darling | Pt1.1.2: Intermittent River red gum swamps | 76 | 0 | – |
| Lower Darling | Pt3.1.1: Floodplain clay pans | 75 | 0 | – |
| Lower Darling | Pp2.3.2: Permanent grass marshes | 26 | 0 | – |
| Lower Darling | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 15 | 0 | – |
| Lower Darling | Rp1.1: Permanent high energy streams | 8 | 0 | – |
| Lower Darling | Rp1.2: Permanent transitional zone streams | 2 | 0 | – |
| Lower Murray | Lp2.1: Permanent floodplain lakes | 93 064 | 83 401 | 89.6 |
| Lower Murray | Ewd1.3.2: Coastal lagoon | 20 923 | 20 923 | 100.0 |
| Lower Murray | Pt2.1.2: Temporary tall emergent marsh | 7 463 | 7 456 | 99.9 |
| Lower Murray | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 6 468 | 6 422 | 99.3 |
| Lower Murray | Pt4.1: Temporary floodplain wetland | 5 753 | 4 287 | 74.5 |
| Lower Murray | Etd1.3.3: Tide dominated estuary | 2 189 | 2 189 | 100.0 |
| Lower Murray | Lsp1.1: Permanent saline lakes | 2 674 | 2 079 | 77.7 |
| Lower Murray | Pst1.1: Temporary saline swamp | 2 276 | 1 851 | 81.3 |
| Lower Murray | Rp1.4: Permanent lowland rivers and streams | 13 297 | 1 621 | 12.2 |
| Lower Murray | Psp4: Permanent saline wetland | 1 995 | 1 305 | 65.4 |
| Lower Murray | Pp4.1: Permanent floodplain wetland | 4 085 | 910 | 22.3 |
| Lower Murray | Pt3.1.1: Floodplain clay pans | 2 080 | 879 | 42.3 |
| Lower Murray | Lst2.1: Temporary saline floodplain lakes | 825 | 825 | 100.0 |
| Lower Murray | Pst4: Temporary saline wetland | 1 285 | 736 | 57.3 |
| Lower Murray | Pt1: Temporary swamps | 3 766 | 706 | 18.7 |
| Lower Murray | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 162 | 655 | 56.4 |
| Lower Murray | Pst2.2: Temporary salt marsh | 427 | 412 | 96.5 |
| Lower Murray | Rp1: Permanent Streams | 1 428 | 406 | 28.4 |
| Lower Murray | Rt1.4: Temporary lowland rivers and streams | 1 045 | 377 | 36.1 |
| Lower Murray | Etd1.2.1: Tide dominated saltmarsh | 350 | 350 | 100.0 |
| Lower Murray | Ewd1.2.3: Intertidal saltmarsh | 166 | 166 | 100.0 |
| Lower Murray | Pst3.2: Salt pans and salt flats | 719 | 163 | 22.7 |
| Lower Murray | Ewd1.2.4: Intertidal mudflats and sand bars | 131 | 131 | 100.0 |
| Lower Murray | Rt1: Temporary Streams | 294 | 99 | 33.7 |
| Lower Murray | Etd1.2.2: Tide dominated mudflats and sandbars | 64 | 64 | 100.0 |
| Lower Murray | Pt2.3.1: Floodplain freshwater meadow | 971 | 50 | 5.1 |
| Lower Murray | Pt4.2: Temporary wetland | 2 269 | 44 | 1.9 |
| Lower Murray | Pt2.1.1: Temporary tall emergent floodplain marsh | 49 | 38 | 77.6 |
| Lower Murray | Pt1.2.1: Intermittent Black box floodplain swamp | 363 | 34 | 9.4 |
| Lower Murray | Lt1.1: Temporary lakes | 21 091 | 25 | 0.1 |
| Lower Murray | Pt1.1.1: Intermittent River red gum floodplain swamp | 431 | 22 | 5.1 |
| Lower Murray | Pp2.3.1: Permanent floodplain grass marshes | 89 | 22 | 24.7 |
| Lower Murray | Lp1.1: Permanent lakes | 11 082 | 20 | 0.2 |
| Lower Murray | Etd1.2.3: Tide dominated forests | 19 | 19 | 100.0 |
| Lower Murray | Pt3.1.2: Clay pans | 4 940 | 16 | 0.3 |
| Lower Murray | Pt1.7.1: Intermittent Lignum floodplain swamp | 2 474 | 11 | 0.4 |
| Lower Murray | Pp2.1.1: Permanent floodplain tall emergent marshes | 9 | 9 | 100.0 |
| Lower Murray | Rt1.2: Temporary transitional zone streams | 14 | 7 | 50.0 |
| Lower Murray | Etd1.1.1: Tide dominated rocky shoreline | 7 | 7 | 100.0 |
| Lower Murray | Lt2.1: Temporary floodplain lakes | 9 111 | 5 | 0.1 |
| Lower Murray | Pp4.2: Permanent wetland | 104 | 3 | 2.9 |
| Lower Murray | Pt1.7.2: Intermittent Lignum swamps | 13 | 3 | 23.1 |
| Lower Murray | Psp2.1: Permanent salt marsh | 3 | 2 | 66.7 |
| Lower Murray | Pu1: Unspecified wetland | 1 768 | 0 | – |
| Lower Murray | Lst1.1: Temporary saline lakes | 1 526 | 0 | – |
| Lower Murray | Pt1.6.2: Temporary woodland swamp | 829 | 0 | – |
| Lower Murray | Psp1.1: Saline paperbark swamp | 132 | 0 | – |
| Lower Murray | Rp1.2: Permanent transitional zone streams | 99 | 0 | – |
| Lower Murray | Pt1.5.2: Temporary paperbark swamp | 83 | 0 | – |
| Lower Murray | Pt1.1.2: Intermittent River red gum swamps | 77 | 0 | – |
| Lower Murray | Pt1.6.1: Temporary woodland floodplain swamp | 77 | 0 | – |
| Lower Murray | Pp2.2.2: Permanent sedge/grass/forb marshes | 45 | 0 | – |
| Lower Murray | Rp1.1: Permanent high energy streams | 40 | 0 | – |
| Lower Murray | Pt1.5.1: Temporary paperbark floodplain swamp | 32 | 0 | – |
| Lower Murray | Pt1.2.2: Intermittent Black box swamp | 27 | 0 | – |
| Lower Murray | Pp2.4.1: Permanent floodplain forb marshes | 23 | 0 | – |
| Lower Murray | Rp1.3: Permanent low energy streams | 15 | 0 | – |
| Lower Murray | Rt1.1: Temporary high energy streams | 10 | 0 | – |
| Lower Murray | Pt2.3.2: Freshwater meadow | 9 | 0 | – |
| Lower Murray | Rt1.3: Temporary low energy streams | 3 | 0 | – |
| Lower Murray | Pps5: Permanent springs | 2 | 0 | – |
| Macquarie | Pp4.1: Permanent floodplain wetland | 18 093 | 17 404 | 96.2 |
| Macquarie | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 816 | 88 | 10.8 |
| Macquarie | Pt3.1.2: Clay pans | 1 528 | 45 | 2.9 |
| Macquarie | Rp1.4: Permanent lowland rivers and streams | 7 058 | 44 | 0.6 |
| Macquarie | Pt2.3.1: Floodplain freshwater meadow | 52 | 32 | 61.5 |
| Macquarie | Pp2.1.2: Permanent tall emergent marshes | 22 | 22 | 100.0 |
| Macquarie | Pp4.2: Permanent wetland | 595 | 16 | 2.7 |
| Macquarie | Pt3.1.1: Floodplain clay pans | 580 | 10 | 1.7 |
| Macquarie | Pp2.3.2: Permanent grass marshes | 7 | 7 | 100.0 |
| Macquarie | Lt1.1: Temporary lakes | 8 290 | 0 | – |
| Macquarie | Pt1.1.1: Intermittent River red gum floodplain swamp | 5 316 | 0 | – |
| Macquarie | Rt1.4: Temporary lowland rivers and streams | 2 935 | 0 | – |
| Macquarie | Pt1.6.2: Temporary woodland swamp | 2 031 | 0 | – |
| Macquarie | Rp1.1: Permanent high energy streams | 1 817 | 0 | – |
| Macquarie | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 711 | 0 | – |
| Macquarie | Pt1.2.1: Intermittent Black box floodplain swamp | 1 635 | 0 | – |
| Macquarie | Pt1.3.1: Intermittent Coolibah floodplain swamp | 1 434 | 0 | – |
| Macquarie | Pt4.1: Temporary floodplain wetland | 1 114 | 0 | – |
| Macquarie | Lt2.1: Temporary floodplain lakes | 968 | 0 | – |
| Macquarie | Lp1.1: Permanent lakes | 720 | 0 | – |
| Macquarie | Rp1.2: Permanent transitional zone streams | 458 | 0 | – |
| Macquarie | Pt1.6.1: Temporary woodland floodplain swamp | 437 | 0 | – |
| Macquarie | Pt4.2: Temporary wetland | 378 | 0 | – |
| Macquarie | Pt1.1.2: Intermittent River red gum swamps | 349 | 0 | – |
| Macquarie | Pt1.2.2: Intermittent Black box swamp | 263 | 0 | – |
| Macquarie | Pp2.3.1: Permanent floodplain grass marshes | 208 | 0 | – |
| Macquarie | Pt1.4.2: Intermittent River Cooba swamp | 101 | 0 | – |
| Macquarie | Lp2.1: Permanent floodplain lakes | 49 | 0 | – |
| Macquarie | Pp2.2.2: Permanent sedge/grass/forb marshes | 18 | 0 | – |
| Macquarie | Pps5: Permanent springs | 15 | 0 | – |
| Macquarie | Rp1.3: Permanent low energy streams | 4 | 0 | – |
| Macquarie | Pt1.4.1: Intermittent River Cooba floodplain swamp | 3 | 0 | – |
| Macquarie | Rt1.3: Temporary low energy streams | 1 | 0 | – |
| Macquarie | Rt1.1: Temporary high energy streams | <1 | 0 | – |
| Macquarie | Ru1: Unspecified river (landform unknown) | <1 | 0 | – |
| Mitta Mitta | Rp1.1: Permanent high energy streams | 1 451 | 0 | – |
| Mitta Mitta | Pt4.2: Temporary wetland | 790 | 0 | – |
| Mitta Mitta | Pt1.6.2: Temporary woodland swamp | 635 | 0 | – |
| Mitta Mitta | Pst4: Temporary saline wetland | 622 | 0 | – |
| Mitta Mitta | Pt2.2.2: Temporary sedge/grass/forb marsh | 361 | 0 | – |
| Mitta Mitta | Pp4.2: Permanent wetland | 282 | 0 | – |
| Mitta Mitta | Pt3.1.2: Clay pans | 253 | 0 | – |
| Mitta Mitta | Lt1.1: Temporary lakes | 198 | 0 | – |
| Mitta Mitta | Lp1.1: Permanent lakes | 33 | 0 | – |
| Mitta Mitta | Rp1.4: Permanent lowland rivers and streams | 10 | 0 | – |
| Mitta Mitta | Pp2.2.2: Permanent sedge/grass/forb marshes | 1 | 0 | – |
| Murrumbidgee | Pt1.1.1: Intermittent River red gum floodplain swamp | 7 518 | 4 740 | 63.0 |
| Murrumbidgee | Pt3.1.2: Clay pans | 10 579 | 3 155 | 29.8 |
| Murrumbidgee | Pt4.1: Temporary floodplain wetland | 8 269 | 2 595 | 31.4 |
| Murrumbidgee | Pt3.1.1: Floodplain clay pans | 7 319 | 1 346 | 18.4 |
| Murrumbidgee | Lt1.1: Temporary lakes | 28 901 | 1 004 | 3.5 |
| Murrumbidgee | Rp1.4: Permanent lowland rivers and streams | 10 569 | 793 | 7.5 |
| Murrumbidgee | Pp4.1: Permanent floodplain wetland | 2 747 | 770 | 28.0 |
| Murrumbidgee | Pt1.2.1: Intermittent Black box floodplain swamp | 3 841 | 750 | 19.5 |
| Murrumbidgee | Rt1.4: Temporary lowland rivers and streams | 13 576 | 641 | 4.7 |
| Murrumbidgee | Lp2.1: Permanent floodplain lakes | 787 | 634 | 80.6 |
| Murrumbidgee | Lp1.1: Permanent lakes | 493 | 117 | 23.7 |
| Murrumbidgee | Pp2.1.1: Permanent floodplain tall emergent marshes | 134 | 117 | 87.3 |
| Murrumbidgee | Lt2.1: Temporary floodplain lakes | 1 744 | 58 | 3.3 |
| Murrumbidgee | Rp1.3: Permanent low energy streams | 108 | 5 | 4.6 |
| Murrumbidgee | Pt2.2.2: Temporary sedge/grass/forb marsh | 20 786 | 0 | – |
| Murrumbidgee | Pt4.2: Temporary wetland | 14 859 | 0 | – |
| Murrumbidgee | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 4 975 | 0 | – |
| Murrumbidgee | Pp4.2: Permanent wetland | 4 037 | 0 | – |
| Murrumbidgee | Pt1.2.2: Intermittent Black box swamp | 3 777 | 0 | – |
| Murrumbidgee | Rp1.1: Permanent high energy streams | 2 480 | 0 | – |
| Murrumbidgee | Pt2.3.2: Freshwater meadow | 2 012 | 0 | – |
| Murrumbidgee | Pt2.3.1: Floodplain freshwater meadow | 1 265 | 0 | – |
| Murrumbidgee | Pt1.7.1: Intermittent Lignum floodplain swamp | 1 244 | 0 | – |
| Murrumbidgee | Pt1.6.2: Temporary woodland swamp | 832 | 0 | – |
| Murrumbidgee | Rp1.2: Permanent transitional zone streams | 713 | 0 | – |
| Murrumbidgee | Pt1.6.1: Temporary woodland floodplain swamp | 408 | 0 | – |
| Murrumbidgee | Pp2.2.2: Permanent sedge/grass/forb marshes | 302 | 0 | – |
| Murrumbidgee | Pt1.7.2: Intermittent Lignum swamps | 220 | 0 | – |
| Murrumbidgee | Pp3: Peat bogs and fen marshes | 173 | 0 | – |
| Murrumbidgee | Pt1.1.2: Intermittent River red gum swamps | 167 | 0 | – |
| Murrumbidgee | Pt2.1.1: Temporary tall emergent floodplain marsh | 154 | 0 | – |
| Murrumbidgee | Pp2.3.2: Permanent grass marshes | 122 | 0 | – |
| Murrumbidgee | Pp2.3.1: Permanent floodplain grass marshes | 36 | 0 | – |
| Murrumbidgee | Pps5: Permanent springs | 19 | 0 | – |
| Murrumbidgee | Pt2.1.2: Temporary tall emergent marsh | 8 | 0 | – |
| Murrumbidgee | Rt1.1: Temporary high energy streams | 6 | 0 | – |
| Murrumbidgee | Rt1.2: Temporary transitional zone streams | 5 | 0 | – |
| Murrumbidgee | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 1 | 0 | – |
| Murrumbidgee | Ru1: Unspecified river (landform unknown) | <1 | 0 | – |
| Namoi | Pp4.2: Permanent wetland | 9 314 | 0 | – |
| Namoi | Pt3.1.2: Clay pans | 5 181 | 0 | – |
| Namoi | Lp1.1: Permanent lakes | 4 208 | 0 | – |
| Namoi | Pt4.2: Temporary wetland | 3 454 | 0 | – |
| Namoi | Lt1.1: Temporary lakes | 3 398 | 0 | – |
| Namoi | Pt1.6.2: Temporary woodland swamp | 3 202 | 0 | – |
| Namoi | Rp1.4: Permanent lowland rivers and streams | 2 121 | 0 | – |
| Namoi | Pp4.1: Permanent floodplain wetland | 1 648 | 0 | – |
| Namoi | Pt1.2.2: Intermittent Black box swamp | 1 161 | 0 | – |
| Namoi | Rt1.4: Temporary lowland rivers and streams | 889 | 0 | – |
| Namoi | Pt1.1.1: Intermittent River red gum floodplain swamp | 850 | 0 | – |
| Namoi | Rp1.1: Permanent high energy streams | 788 | 0 | – |
| Namoi | Pt1.1.2: Intermittent River red gum swamps | 773 | 0 | – |
| Namoi | Pt2.2.2: Temporary sedge/grass/forb marsh | 610 | 0 | – |
| Namoi | Pt1.3.2: Intermittent Coolibah swamp | 602 | 0 | – |
| Namoi | Pt1.2.1: Intermittent Black box floodplain swamp | 541 | 0 | – |
| Namoi | Rp1.2: Permanent transitional zone streams | 478 | 0 | – |
| Namoi | Pp2.2.2: Permanent sedge/grass/forb marshes | 273 | 0 | – |
| Namoi | Pt1.6.1: Temporary woodland floodplain swamp | 239 | 0 | – |
| Namoi | Pt3.1.1: Floodplain clay pans | 234 | 0 | – |
| Namoi | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 42 | 0 | – |
| Namoi | Pt1.7.2: Intermittent Lignum swamps | 16 | 0 | – |
| Namoi | Pt4.1: Temporary floodplain wetland | 14 | 0 | – |
| Namoi | Rp1.3: Permanent low energy streams | 11 | 0 | – |
| Namoi | Rt1.2: Temporary transitional zone streams | 7 | 0 | – |
| Namoi | Rt1.3: Temporary low energy streams | 3 | 0 | – |
| Namoi | Rt1.1: Temporary high energy streams | 2 | 0 | – |
| Namoi | Pps5: Permanent springs | 1 | 0 | – |
| Namoi | Ru1: Unspecified river (landform unknown) | <1 | 0 | – |
| Ovens | Pt3.1.2: Clay pans | 1 026 | 0 | – |
| Ovens | Pt3.1.1: Floodplain clay pans | 594 | 0 | – |
| Ovens | Pt2.3.1: Floodplain freshwater meadow | 510 | 0 | – |
| Ovens | Pt2.3.2: Freshwater meadow | 422 | 0 | – |
| Ovens | Pt1.1.1: Intermittent River red gum floodplain swamp | 368 | 0 | – |
| Ovens | Pt1.6.2: Temporary woodland swamp | 365 | 0 | – |
| Ovens | Pt1.6.1: Temporary woodland floodplain swamp | 309 | 0 | – |
| Ovens | Lt2.1: Temporary floodplain lakes | 162 | 0 | – |
| Ovens | Lp2.1: Permanent floodplain lakes | 150 | 0 | – |
| Ovens | Pt4.1: Temporary floodplain wetland | 106 | 0 | – |
| Ovens | Pt4.2: Temporary wetland | 88 | 0 | – |
| Ovens | Pt1.1.2: Intermittent River red gum swamps | 83 | 0 | – |
| Ovens | Pt2.2.2: Temporary sedge/grass/forb marsh | 64 | 0 | – |
| Ovens | Lt1.1: Temporary lakes | 62 | 0 | – |
| Ovens | Lp1.1: Permanent lakes | 42 | 0 | – |
| Ovens | Pp2.1.1: Permanent floodplain tall emergent marshes | 23 | 0 | – |
| Ovens | Pp4.1: Permanent floodplain wetland | 22 | 0 | – |
| Ovens | Lt2.2: Temporary floodplain lakes with aquatic beds | 15 | 0 | – |
| Ovens | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 6 | 0 | – |
| Ovens | Pp4.2: Permanent wetland | 4 | 0 | – |
| Ovens | Pp2.2.2: Permanent sedge/grass/forb marshes | 3 | 0 | – |
| Ovens | Pt2.1.1: Temporary tall emergent floodplain marsh | 3 | 0 | – |
| Ovens | Pt2.1.2: Temporary tall emergent marsh | 2 | 0 | – |
| Ovens | Pps5: Permanent springs | <1 | 0 | – |
| Paroo | Pt1.6.1: Temporary woodland floodplain swamp | 159 323 | 0 | – |
| Paroo | Lt2.1: Temporary floodplain lakes | 49 587 | 0 | – |
| Paroo | Pt4.1: Temporary floodplain wetland | 25 305 | 0 | – |
| Paroo | Lt1.1: Temporary lakes | 11 877 | 0 | – |
| Paroo | Lsp2.1: Permanent saline floodplain lakes | 11 718 | 0 | – |
| Paroo | Pt2.1.1: Temporary tall emergent floodplain marsh | 10 433 | 0 | – |
| Paroo | Rt1.4: Temporary lowland rivers and streams | 9 883 | 0 | – |
| Paroo | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 8 259 | 0 | – |
| Paroo | Pt1.2.1: Intermittent Black box floodplain swamp | 8 117 | 0 | – |
| Paroo | Lp1.1: Permanent lakes | 8 030 | 0 | – |
| Paroo | Pt1.6.2: Temporary woodland swamp | 6 977 | 0 | – |
| Paroo | Pt4.2: Temporary wetland | 6 518 | 0 | – |
| Paroo | Pt1.7.1: Intermittent Lignum floodplain swamp | 3 428 | 0 | – |
| Paroo | Pt2.1.2: Temporary tall emergent marsh | 2 608 | 0 | – |
| Paroo | Pst2.2: Temporary salt marsh | 2 511 | 0 | – |
| Paroo | Lp2.1: Permanent floodplain lakes | 2 439 | 0 | – |
| Paroo | Pt1.3.1: Intermittent Coolibah floodplain swamp | 1 888 | 0 | – |
| Paroo | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 661 | 0 | – |
| Paroo | Pp2.1.1: Permanent floodplain tall emergent marshes | 654 | 0 | – |
| Paroo | Pt1.2.2: Intermittent Black box swamp | 466 | 0 | – |
| Paroo | Pp4.2: Permanent wetland | 461 | 0 | – |
| Paroo | Pp2.2.1: Permanent floodplain sedge/grass/forb marshes | 407 | 0 | – |
| Paroo | Lst1.1: Temporary saline lakes | 357 | 0 | – |
| Paroo | Rt1.1: Temporary high energy streams | 311 | 0 | – |
| Paroo | Rt1.2: Temporary transitional zone streams | 257 | 0 | – |
| Paroo | Pp4.1: Permanent floodplain wetland | 194 | 0 | – |
| Paroo | Rp1.4: Permanent lowland rivers and streams | 174 | 0 | – |
| Paroo | Pt2.3.1: Floodplain freshwater meadow | 81 | 0 | – |
| Paroo | Pt1.1.2: Intermittent River red gum swamps | 68 | 0 | – |
| Paroo | Pst4: Temporary saline wetland | 62 | 0 | – |
| Paroo | Pt1.3.2: Intermittent Coolibah swamp | 44 | 0 | – |
| Paroo | Pt1.1.1: Intermittent River red gum floodplain swamp | 38 | 0 | – |
| Paroo | Pt3.1.2: Clay pans | 31 | 0 | – |
| Paroo | Pt2.3.2: Freshwater meadow | 25 | 0 | – |
| Paroo | Lst2.1: Temporary saline floodplain lakes | 18 | 0 | – |
| Paroo | Lsp1.1: Permanent saline lakes | 16 | 0 | – |
| Paroo | Pp2.1.2: Permanent tall emergent marshes | 11 | 0 | – |
| Paroo | Pps5: Permanent springs | 9 | 0 | – |
| Upper Murray | Pt3.1.2: Clay pans | 847 | 0 | – |
| Upper Murray | Rt1.4: Temporary lowland rivers and streams | 495 | 0 | – |
| Upper Murray | Rt1.1: Temporary high energy streams | 366 | 0 | – |
| Upper Murray | Lt1.1: Temporary lakes | 289 | 0 | – |
| Upper Murray | Pp4.2: Permanent wetland | 273 | 0 | – |
| Upper Murray | Pt1.1.2: Intermittent River red gum swamps | 253 | 0 | – |
| Upper Murray | Pt1.6.2: Temporary woodland swamp | 251 | 0 | – |
| Upper Murray | Rp1.1: Permanent high energy streams | 250 | 0 | – |
| Upper Murray | Rt1.2: Temporary transitional zone streams | 208 | 0 | – |
| Upper Murray | Pt3.1.1: Floodplain clay pans | 177 | 0 | – |
| Upper Murray | Pt2.2.2: Temporary sedge/grass/forb marsh | 129 | 0 | – |
| Upper Murray | Lp1.1: Permanent lakes | 101 | 0 | – |
| Upper Murray | Rp1.2: Permanent transitional zone streams | 83 | 0 | – |
| Upper Murray | Pt4.2: Temporary wetland | 67 | 0 | – |
| Upper Murray | Pps5: Permanent springs | 63 | 0 | – |
| Upper Murray | Rp1.4: Permanent lowland rivers and streams | 51 | 0 | – |
| Upper Murray | Lp2.1: Permanent floodplain lakes | 7 | 0 | – |
| Upper Murray | Rp1.3: Permanent low energy streams | 2 | 0 | – |
| Upper Murray | Pp3: Peat bogs and fen marshes | <1 | 0 | – |
| Upper Murray | Rt1.3: Temporary low energy streams | <1 | 0 | – |
| Warrego | Rt1.4: Temporary lowland rivers and streams | 52 538 | 0 | – |
| Warrego | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 19 148 | 0 | – |
| Warrego | Pt1.6.1: Temporary woodland floodplain swamp | 3 575 | 0 | – |
| Warrego | Pt2.1.1: Temporary tall emergent floodplain marsh | 3 141 | 0 | – |
| Warrego | Lp1.1: Permanent lakes | 2 916 | 0 | – |
| Warrego | Pp4.1: Permanent floodplain wetland | 2 460 | 0 | – |
| Warrego | Pt4.2: Temporary wetland | 2 125 | 0 | – |
| Warrego | Lt2.1: Temporary floodplain lakes | 2 073 | 0 | – |
| Warrego | Pt4.1: Temporary floodplain wetland | 2 068 | 0 | – |
| Warrego | Pt2.1.2: Temporary tall emergent marsh | 1 567 | 0 | – |
| Warrego | Pt1.3.1: Intermittent Coolibah floodplain swamp | 1 092 | 0 | – |
| Warrego | Rt1.1: Temporary high energy streams | 1 017 | 0 | – |
| Warrego | Rt1.2: Temporary transitional zone streams | 984 | 0 | – |
| Warrego | Lt1.1: Temporary lakes | 913 | 0 | – |
| Warrego | Pt1.6.2: Temporary woodland swamp | 820 | 0 | – |
| Warrego | Pt3.1.1: Floodplain clay pans | 708 | 0 | – |
| Warrego | Rp1.4: Permanent lowland rivers and streams | 586 | 0 | – |
| Warrego | Lp2.1: Permanent floodplain lakes | 416 | 0 | – |
| Warrego | Pt1.3.2: Intermittent Coolibah swamp | 73 | 0 | – |
| Warrego | Rt1.3: Temporary low energy streams | 34 | 0 | – |
| Warrego | Rp1.2: Permanent transitional zone streams | 23 | 0 | – |
| Warrego | Pp4.2: Permanent wetland | 18 | 0 | – |
| Warrego | Pt1.1.1: Intermittent River red gum floodplain swamp | 9 | 0 | – |
| Warrego | Pt1.1.2: Intermittent River red gum swamps | 2 | 0 | – |
| Warrego | Pps5: Permanent springs | 2 | 0 | – |
| Warrego | Pst1.1: Temporary saline swamp | 2 | 0 | – |
| Warrego | Pt2.2.2: Temporary sedge/grass/forb marsh | 1 | 0 | – |
| Warrego | Ru1: Unspecified river (landform unknown) | 1 | 0 | – |
| Wimmera | Lt1.1: Temporary lakes | 26 884 | 0 | – |
| Wimmera | Lst2.1: Temporary saline floodplain lakes | 5 877 | 0 | – |
| Wimmera | Pt3.1.2: Clay pans | 4 811 | 0 | – |
| Wimmera | Lt2.1: Temporary floodplain lakes | 3 951 | 0 | – |
| Wimmera | Pst4: Temporary saline wetland | 2 922 | 0 | – |
| Wimmera | Pt1.6.2: Temporary woodland swamp | 2 198 | 0 | – |
| Wimmera | Pt1.1.1: Intermittent River red gum floodplain swamp | 1 999 | 0 | – |
| Wimmera | Pt1.1.2: Intermittent River red gum swamps | 1 927 | 0 | – |
| Wimmera | Pt2.3.1: Floodplain freshwater meadow | 1 571 | 0 | – |
| Wimmera | Pst1.1: Temporary saline swamp | 1 563 | 0 | – |
| Wimmera | Lst1.1: Temporary saline lakes | 1 505 | 0 | – |
| Wimmera | Lp1.2: Permanent lakes with aquatic beds | 817 | 0 | – |
| Wimmera | Psp3.1: Permanent seagrass marshes | 780 | 0 | – |
| Wimmera | Psp4: Permanent saline wetland | 732 | 0 | – |
| Wimmera | Pt1.6.1: Temporary woodland floodplain swamp | 694 | 0 | – |
| Wimmera | Pt2.3.2: Freshwater meadow | 619 | 0 | – |
| Wimmera | Pt3.1.1: Floodplain clay pans | 577 | 0 | – |
| Wimmera | Pt4.2: Temporary wetland | 500 | 0 | – |
| Wimmera | Lt2.2: Temporary floodplain lakes with aquatic beds | 498 | 0 | – |
| Wimmera | Pst2.2: Temporary salt marsh | 435 | 0 | – |
| Wimmera | Pst3.2: Salt pans and salt flats | 423 | 0 | – |
| Wimmera | Lst2.2: Temporary saline floodplain lakes with aquatic beds | 391 | 0 | – |
| Wimmera | Lp1.1: Permanent lakes | 276 | 0 | – |
| Wimmera | Pt1.2.1: Intermittent Black box floodplain swamp | 218 | 0 | – |
| Wimmera | Lt1.2: Temporary lakes with aquatic beds | 216 | 0 | – |
| Wimmera | Lp2.2: Permanent floodplain lakes with aquatic beds | 161 | 0 | – |
| Wimmera | Lp2.1: Permanent floodplain lakes | 158 | 0 | – |
| Wimmera | Pp4.2: Permanent wetland | 97 | 0 | – |
| Wimmera | Lst1.2: Temporary saline lakes with aquatic beds | 77 | 0 | – |
| Wimmera | Pt2.2.2: Temporary sedge/grass/forb marsh | 70 | 0 | – |
| Wimmera | Pp4.1: Permanent floodplain wetland | 69 | 0 | – |
| Wimmera | Pt2.1.2: Temporary tall emergent marsh | 64 | 0 | – |
| Wimmera | Pt2.1.1: Temporary tall emergent floodplain marsh | 55 | 0 | – |
| Wimmera | Pt1.7.1: Intermittent Lignum floodplain swamp | 47 | 0 | – |
| Wimmera | Pt1.2.2: Intermittent Black box swamp | 31 | 0 | – |
| Wimmera | Pp2.4.2: Permanent forb marshes | 21 | 0 | – |
| Wimmera | Lsp1.1: Permanent saline lakes | 20 | 0 | – |
| Wimmera | Lsp1.2: Permanent saline lakes with aquatic beds | 18 | 0 | – |
| Wimmera | Pt4.1: Temporary floodplain wetland | 8 | 0 | – |
| Wimmera | Pt2.2.1: Temporary sedge/grass/forb floodplain marsh | 6 | 0 | – |
| Wimmera | Psp1.1: Saline paperbark swamp | 5 | 0 | – |
| Wimmera | Pp2.4.1: Permanent floodplain forb marshes | 3 | 0 | – |

# Annex C. ANAE floodplain types inundated by Commonwealth environmental water by valley

For floodplains, the area inundated by out-of-channel delivery of Commonwealth environmental water is presented in Table C1.

Table C. Area of each floodplain ecosystem type and the contribution of Commonwealth environmental water to supporting floodplain ecosystem diversity within each valley, sorted by the area inundated with inundation highlighted in blue.

| Valley name | Australian National Aquatic Ecosystem (ANAE) floodplain type | Total  area (ha) | Inundated by Commonwealth environmental water | |
| --- | --- | --- | --- | --- |
| Area (ha) | % of total |
| Avoca | F4: Floodplain with unspecified vegetation | 6 896 | 0 | – |
| Avoca | F1.8: Black box woodland floodplain | 3 947 | 0 | – |
| Avoca | F1.12: Woodland floodplain | 2 571 | 0 | – |
| Avoca | F1.6: Black box forest floodplain | 1 625 | 0 | – |
| Avoca | F2.4: Shrubland floodplain | 130 | 0 | – |
| Avoca | F3.1: Upland sedge/forb/grassland floodplain | 38 | 0 | – |
| Avoca | F2.2: Lignum shrubland floodplain | 22 | 0 | – |
| Avoca | F3.2: Sedge/forb/grassland floodplain | 6 | 0 | – |
| Avoca | F2.3: Upland shrubland floodplain | 5 | 0 | – |
| Barwon Darling | F3.2: Sedge/forb/grassland floodplain | 240 395 | 0 | – |
| Barwon Darling | F1.10: Coolibah woodland and forest floodplain | 93 465 | 0 | – |
| Barwon Darling | F1.6: Black box forest floodplain | 54 878 | 0 | – |
| Barwon Darling | F2.4: Shrubland floodplain | 37 069 | 0 | – |
| Barwon Darling | F4: Floodplain with unspecified vegetation | 20 951 | 0 | – |
| Barwon Darling | F1.8: Black box woodland floodplain | 10 977 | 0 | – |
| Barwon Darling | F1.12: Woodland floodplain | 5 923 | 0 | – |
| Barwon Darling | F1.2: River red gum forest floodplain | 3 889 | 0 | – |
| Barwon Darling | F1.4: River red gum woodland floodplain | 48 | 0 | – |
| Barwon Darling | F2.3: Upland shrubland floodplain | 37 | 0 | – |
| Barwon Darling | F1.5: Upland black box forest floodplain | 12 | 0 | – |
| Barwon Darling | F1.7: Upland black box woodland floodplain | 11 | 0 | – |
| Border Rivers | F1.12: Woodland floodplain | 55 700 | 0 | – |
| Border Rivers | F1.2: River red gum forest floodplain | 21 268 | 0 | – |
| Border Rivers | F4: Floodplain with unspecified vegetation | 15 059 | 0 | – |
| Border Rivers | F1.10: Coolibah woodland and forest floodplain | 5 657 | 0 | – |
| Border Rivers | F3.2: Sedge/forb/grassland floodplain | 4 014 | 0 | – |
| Border Rivers | F1.8: Black box woodland floodplain | 3 307 | 0 | – |
| Border Rivers | F2.4: Shrubland floodplain | 250 | 0 | – |
| Broken | F1.12: Woodland floodplain | 3 792 | 0 | – |
| Broken | F4: Floodplain with unspecified vegetation | 2 122 | 0 | – |
| Broken | F1.4: River red gum woodland floodplain | 1 633 | 0 | – |
| Broken | F1.8: Black box woodland floodplain | 1 272 | 0 | – |
| Broken | F3.2: Sedge/forb/grassland floodplain | 144 | 0 | – |
| Broken | F3.1: Upland sedge/forb/grassland floodplain | 45 | 0 | – |
| Broken | F1.2: River red gum forest floodplain | 14 | 0 | – |
| Broken | F2.2: Lignum shrubland floodplain | 9 | 0 | – |
| Broken | F1.3: Upland River red gum woodland floodplain | 8 | 0 | – |
| Campaspe | F4: Floodplain with unspecified vegetation | 4 | 0 | – |
| Campaspe | F1.12: Woodland floodplain | 3 | 0 | – |
| Castlereagh | F1.8: Black box woodland floodplain | 15 331 | 0 | – |
| Castlereagh | F1.12: Woodland floodplain | 427 | 0 | – |
| Castlereagh | F1.10: Coolibah woodland and forest floodplain | 418 | 0 | – |
| Castlereagh | F2.4: Shrubland floodplain | 156 | 0 | – |
| Castlereagh | F1.2: River red gum forest floodplain | 66 | 0 | – |
| Castlereagh | F4: Floodplain with unspecified vegetation | 50 | 0 | – |
| Central Murray | F1.2: River red gum forest floodplain | 93 402 | 5 432 | 5.8 |
| Central Murray | F1.4: River red gum woodland floodplain | 113 670 | 4 438 | 3.9 |
| Central Murray | F1.8: Black box woodland floodplain | 40 047 | 117 | 0.3 |
| Central Murray | F3.2: Sedge/forb/grassland floodplain | 2 006 | 5 | 0.2 |
| Central Murray | F4: Floodplain with unspecified vegetation | 34 112 | 4 | <0.1 |
| Central Murray | F1.3: Upland River red gum woodland floodplain | 27 | 4 | 14.8 |
| Central Murray | F1.6: Black box forest floodplain | 3 885 | 3 | 0.1 |
| Central Murray | F3.1: Upland sedge/forb/grassland floodplain | 2 | 2 | 100.0 |
| Central Murray | F2.2: Lignum shrubland floodplain | 3 210 | 0 | – |
| Central Murray | F1.12: Woodland floodplain | 2 203 | 0 | – |
| Central Murray | F2.4: Shrubland floodplain | 1 105 | 0 | – |
| Central Murray | F1.1: Upland river red gum forest floodplain | 64 | 0 | – |
| Central Murray | F2.3: Upland shrubland floodplain | 47 | 0 | – |
| Central Murray | F1.7: Upland black box woodland floodplain | 16 | 0 | – |
| Condamine Balonne | F1.10: Coolibah woodland and forest floodplain | 709 056 | 0 | – |
| Condamine Balonne | F3.2: Sedge/forb/grassland floodplain | 291 601 | 0 | – |
| Condamine Balonne | F4: Floodplain with unspecified vegetation | 189 245 | 0 | – |
| Condamine Balonne | F1.12: Woodland floodplain | 80 812 | 0 | – |
| Condamine Balonne | F2.4: Shrubland floodplain | 23 608 | 0 | – |
| Condamine Balonne | F1.8: Black box woodland floodplain | 9 427 | 0 | – |
| Condamine Balonne | F2.2: Lignum shrubland floodplain | 2 087 | 0 | – |
| Condamine Balonne | F1.2: River red gum forest floodplain | 1 669 | 0 | – |
| Condamine Balonne | F3.1: Upland sedge/forb/grassland floodplain | 460 | 0 | – |
| Condamine Balonne | F1.4: River red gum woodland floodplain | 283 | 0 | – |
| Condamine Balonne | F2.3: Upland shrubland floodplain | 168 | 0 | – |
| Condamine Balonne | F1.9: Upland coolibah woodland and forest floodplain | 23 | 0 | – |
| Condamine Balonne | F1.1: Upland river red gum forest floodplain | 1 | 0 | – |
| Edward Wakool | F1.8: Black box woodland floodplain | 56 406 | 0 | – |
| Edward Wakool | F1.4: River red gum woodland floodplain | 37 923 | 0 | – |
| Edward Wakool | F3.2: Sedge/forb/grassland floodplain | 17 171 | 0 | – |
| Edward Wakool | F1.2: River red gum forest floodplain | 7 726 | 0 | – |
| Edward Wakool | F4: Floodplain with unspecified vegetation | 6 819 | 0 | – |
| Edward Wakool | F1.12: Woodland floodplain | 5 923 | 0 | – |
| Edward Wakool | F1.6: Black box forest floodplain | 328 | 0 | – |
| Edward Wakool | F2.4: Shrubland floodplain | 258 | 0 | – |
| Edward Wakool | F2.2: Lignum shrubland floodplain | 177 | 0 | – |
| Edward Wakool | F1.1: Upland river red gum forest floodplain | 9 | 0 | – |
| Edward Wakool | F1.3: Upland River red gum woodland floodplain | 1 | 0 | – |
| Goulburn | F4: Floodplain with unspecified vegetation | 11 834 | 0 | – |
| Goulburn | F1.4: River red gum woodland floodplain | 9 296 | 0 | – |
| Goulburn | F1.2: River red gum forest floodplain | 4 712 | 0 | – |
| Goulburn | F1.12: Woodland floodplain | 2 208 | 0 | – |
| Goulburn | F1.3: Upland River red gum woodland floodplain | 1 249 | 0 | – |
| Goulburn | F3.2: Sedge/forb/grassland floodplain | 671 | 0 | – |
| Goulburn | F1.8: Black box woodland floodplain | 178 | 0 | – |
| Goulburn | F2.2: Lignum shrubland floodplain | 63 | 0 | – |
| Goulburn | F3.1: Upland sedge/forb/grassland floodplain | 11 | 0 | – |
| Gwydir | F4: Floodplain with unspecified vegetation | 31 963 | 1 119 | 3.5 |
| Gwydir | F1.10: Coolibah woodland and forest floodplain | 9 337 | 559 | 6.0 |
| Gwydir | F3.2: Sedge/forb/grassland floodplain | 5 735 | 249 | 4.3 |
| Gwydir | F1.9: Upland coolibah woodland and forest floodplain | 2 690 | 110 | 4.1 |
| Gwydir | F1.12: Woodland floodplain | 5 072 | 33 | 0.7 |
| Gwydir | F1.4: River red gum woodland floodplain | 127 | 25 | 19.7 |
| Gwydir | F1.2: River red gum forest floodplain | 1 023 | 21 | 2.1 |
| Gwydir | F1.1: Upland river red gum forest floodplain | 28 | 5 | 17.9 |
| Gwydir | F1.8: Black box woodland floodplain | 38 | 1 | 2.6 |
| Gwydir | F2.4: Shrubland floodplain | 221 | 0 | – |
| Gwydir | F1.11: River cooba woodland floodplain | 143 | 0 | – |
| Gwydir | F3.1: Upland sedge/forb/grassland floodplain | 36 | 0 | – |
| Kiewa | F4: Floodplain with unspecified vegetation | 13 | 0 | – |
| Kiewa | F1.12: Woodland floodplain | 2 | 0 | – |
| Lachlan | F1.2: River red gum forest floodplain | 26 769 | 6 596 | 24.6 |
| Lachlan | F2.2: Lignum shrubland floodplain | 156 027 | 6 155 | 3.9 |
| Lachlan | F1.8: Black box woodland floodplain | 50 431 | 2 227 | 4.4 |
| Lachlan | F1.4: River red gum woodland floodplain | 15 357 | 1 955 | 12.7 |
| Lachlan | F2.4: Shrubland floodplain | 19 626 | 327 | 1.7 |
| Lachlan | F3.2: Sedge/forb/grassland floodplain | 44 792 | 260 | 0.6 |
| Lachlan | F4: Floodplain with unspecified vegetation | 56 921 | 0 | – |
| Lachlan | F1.6: Black box forest floodplain | 22 022 | 0 | – |
| Lachlan | F1.12: Woodland floodplain | 2 398 | 0 | – |
| Lachlan | F1.7: Upland black box woodland floodplain | 797 | 0 | – |
| Lachlan | F1.1: Upland river red gum forest floodplain | 289 | 0 | – |
| Lachlan | F3.1: Upland sedge/forb/grassland floodplain | 141 | 0 | – |
| Lachlan | F1.5: Upland black box forest floodplain | 43 | 0 | – |
| Lachlan | F1.3: Upland River red gum woodland floodplain | 28 | 0 | – |
| Lachlan | F2.1: Upland lignum shrubland floodplain | 27 | 0 | – |
| Lachlan | F2.3: Upland shrubland floodplain | 18 | 0 | – |
| Loddon | F4: Floodplain with unspecified vegetation | 20 792 | 0 | – |
| Loddon | F1.8: Black box woodland floodplain | 6 267 | 0 | – |
| Loddon | F3.2: Sedge/forb/grassland floodplain | 3 149 | 0 | – |
| Loddon | F1.12: Woodland floodplain | 1 261 | 0 | – |
| Loddon | F2.2: Lignum shrubland floodplain | 850 | 0 | – |
| Loddon | F1.4: River red gum woodland floodplain | 347 | 0 | – |
| Loddon | F1.2: River red gum forest floodplain | 25 | 0 | – |
| Loddon | F3.1: Upland sedge/forb/grassland floodplain | 15 | 0 | – |
| Loddon | F1.6: Black box forest floodplain | 14 | 0 | – |
| Loddon | F2.4: Shrubland floodplain | 13 | 0 | – |
| Lower Darling | F1.6: Black box forest floodplain | 88 806 | 0 | – |
| Lower Darling | F1.2: River red gum forest floodplain | 13 902 | 0 | – |
| Lower Darling | F2.4: Shrubland floodplain | 10 585 | 0 | – |
| Lower Darling | F1.8: Black box woodland floodplain | 4 145 | 0 | – |
| Lower Darling | F1.12: Woodland floodplain | 1 318 | 0 | – |
| Lower Darling | F2.2: Lignum shrubland floodplain | 599 | 0 | – |
| Lower Darling | F4: Floodplain with unspecified vegetation | 306 | 0 | – |
| Lower Darling | F2.3: Upland shrubland floodplain | 139 | 0 | – |
| Lower Darling | F3.2: Sedge/forb/grassland floodplain | 114 | 0 | – |
| Lower Darling | F1.5: Upland black box forest floodplain | 39 | 0 | – |
| Lower Darling | F1.1: Upland river red gum forest floodplain | 32 | 0 | – |
| Lower Darling | F3.1: Upland sedge/forb/grassland floodplain | 5 | 0 | – |
| Lower Murray | F2.4: Shrubland floodplain | 83 534 | 1 450 | 1.7 |
| Lower Murray | F1.8: Black box woodland floodplain | 11 573 | 741 | 6.4 |
| Lower Murray | F2.2: Lignum shrubland floodplain | 37 217 | 733 | 2.0 |
| Lower Murray | F4: Floodplain with unspecified vegetation | 6 500 | 552 | 8.5 |
| Lower Murray | F1.4: River red gum woodland floodplain | 11 648 | 336 | 2.9 |
| Lower Murray | F1.2: River red gum forest floodplain | 8 767 | 241 | 2.7 |
| Lower Murray | F3.2: Sedge/forb/grassland floodplain | 2 814 | 86 | 3.1 |
| Lower Murray | F1.3: Upland River red gum woodland floodplain | 938 | 37 | 3.9 |
| Lower Murray | F1.7: Upland black box woodland floodplain | 495 | 33 | 6.7 |
| Lower Murray | F1.1: Upland river red gum forest floodplain | 65 | 11 | 16.9 |
| Lower Murray | F3.1: Upland sedge/forb/grassland floodplain | 1 205 | 9 | 0.7 |
| Lower Murray | F2.3: Upland shrubland floodplain | 798 | 9 | 1.1 |
| Lower Murray | F2.1: Upland lignum shrubland floodplain | 460 | 9 | 2.0 |
| Lower Murray | F1.12: Woodland floodplain | 7 559 | 6 | 0.1 |
| Lower Murray | F1.6: Black box forest floodplain | 5 942 | 0 | – |
| Macquarie | F3.2: Sedge/forb/grassland floodplain | 169 235 | 4 536 | 2.7 |
| Macquarie | F2.4: Shrubland floodplain | 26 868 | 29 | 0.1 |
| Macquarie | F1.10: Coolibah woodland and forest floodplain | 125 341 | 0 | – |
| Macquarie | F1.2: River red gum forest floodplain | 24 051 | 0 | – |
| Macquarie | F4: Floodplain with unspecified vegetation | 6 027 | 0 | – |
| Macquarie | F1.8: Black box woodland floodplain | 5 414 | 0 | – |
| Macquarie | F1.12: Woodland floodplain | 4 913 | 0 | – |
| Macquarie | F1.4: River red gum woodland floodplain | 3 086 | 0 | – |
| Macquarie | F1.6: Black box forest floodplain | 635 | 0 | – |
| Macquarie | F1.11: River cooba woodland floodplain | 10 | 0 | – |
| Macquarie | F1.1: Upland river red gum forest floodplain | 4 | 0 | – |
| Macquarie | F1.7: Upland black box woodland floodplain | <1 | 0 | – |
| Mitta Mitta | F4: Floodplain with unspecified vegetation | 67 | 0 | – |
| Mitta Mitta | F3.1: Upland sedge/forb/grassland floodplain | 19 | 0 | – |
| Murrumbidgee | F2.4: Shrubland floodplain | 84 100 | 8 154 | 9.7 |
| Murrumbidgee | F1.2: River red gum forest floodplain | 58 050 | 7 219 | 12.4 |
| Murrumbidgee | F1.8: Black box woodland floodplain | 15 677 | 1 474 | 9.4 |
| Murrumbidgee | F1.4: River red gum woodland floodplain | 15 480 | 883 | 5.7 |
| Murrumbidgee | F3.2: Sedge/forb/grassland floodplain | 13 644 | 88 | 0.6 |
| Murrumbidgee | F4: Floodplain with unspecified vegetation | 21 024 | 16 | 0.1 |
| Murrumbidgee | F1.12: Woodland floodplain | 8 025 | 15 | 0.2 |
| Murrumbidgee | F1.1: Upland river red gum forest floodplain | 277 | 2 | 0.7 |
| Murrumbidgee | F2.2: Lignum shrubland floodplain | 958 | 0 | – |
| Murrumbidgee | F3.1: Upland sedge/forb/grassland floodplain | 29 | 0 | – |
| Murrumbidgee | F1.6: Black box forest floodplain | 25 | 0 | – |
| Murrumbidgee | F1.3: Upland River red gum woodland floodplain | 5 | 0 | – |
| Murrumbidgee | F2.3: Upland shrubland floodplain | 3 | 0 | – |
| Namoi | F1.12: Woodland floodplain | 23 594 | 0 | – |
| Namoi | F1.8: Black box woodland floodplain | 6 943 | 0 | – |
| Namoi | F4: Floodplain with unspecified vegetation | 4 923 | 0 | – |
| Namoi | F1.2: River red gum forest floodplain | 3 911 | 0 | – |
| Namoi | F2.4: Shrubland floodplain | 159 | 0 | – |
| Namoi | F1.10: Coolibah woodland and forest floodplain | 3 | 0 | – |
| Ovens | F1.4: River red gum woodland floodplain | 8 540 | 0 | – |
| Ovens | F1.2: River red gum forest floodplain | 2 140 | 0 | – |
| Ovens | F1.12: Woodland floodplain | 565 | 0 | – |
| Ovens | F4: Floodplain with unspecified vegetation | 508 | 0 | – |
| Ovens | F3.2: Sedge/forb/grassland floodplain | 442 | 0 | – |
| Ovens | F3.1: Upland sedge/forb/grassland floodplain | 68 | 0 | – |
| Ovens | F1.1: Upland river red gum forest floodplain | 4 | 0 | – |
| Paroo | F3.2: Sedge/forb/grassland floodplain | 330 407 | 0 | – |
| Paroo | F1.12: Woodland floodplain | 290 746 | 0 | – |
| Paroo | F1.10: Coolibah woodland and forest floodplain | 80 456 | 0 | – |
| Paroo | F2.4: Shrubland floodplain | 55 870 | 0 | – |
| Paroo | F1.6: Black box forest floodplain | 16 974 | 0 | – |
| Paroo | F1.8: Black box woodland floodplain | 1 490 | 0 | – |
| Paroo | F2.2: Lignum shrubland floodplain | 435 | 0 | – |
| Paroo | F1.4: River red gum woodland floodplain | 201 | 0 | – |
| Paroo | F4: Floodplain with unspecified vegetation | 144 | 0 | – |
| Paroo | F2.3: Upland shrubland floodplain | 90 | 0 | – |
| Paroo | F1.9: Upland coolibah woodland and forest floodplain | 43 | 0 | – |
| Paroo | F3.1: Upland sedge/forb/grassland floodplain | 28 | 0 | – |
| Paroo | F1.5: Upland black box forest floodplain | 19 | 0 | – |
| Paroo | F1.3: Upland River red gum woodland floodplain | <1 | 0 | – |
| Upper Murray | F4: Floodplain with unspecified vegetation | 131 | 0 | – |
| Warrego | F1.10: Coolibah woodland and forest floodplain | 781 155 | 0 | – |
| Warrego | F3.2: Sedge/forb/grassland floodplain | 36 883 | 0 | – |
| Warrego | F1.12: Woodland floodplain | 25 313 | 0 | – |
| Warrego | F1.4: River red gum woodland floodplain | 5 175 | 0 | – |
| Warrego | F2.4: Shrubland floodplain | 3 394 | 0 | – |
| Warrego | F2.2: Lignum shrubland floodplain | 1 404 | 0 | – |
| Warrego | F4: Floodplain with unspecified vegetation | 522 | 0 | – |
| Warrego | F1.8: Black box woodland floodplain | 441 | 0 | – |
| Warrego | F3.1: Upland sedge/forb/grassland floodplain | 154 | 0 | – |
| Warrego | F1.3: Upland River red gum woodland floodplain | 93 | 0 | – |
| Warrego | F1.9: Upland coolibah woodland and forest floodplain | 75 | 0 | – |
| Warrego | F2.3: Upland shrubland floodplain | 49 | 0 | – |
| Wimmera | F1.4: River red gum woodland floodplain | 3 084 | 0 | – |
| Wimmera | F4: Floodplain with unspecified vegetation | 3 061 | 0 | – |
| Wimmera | F1.12: Woodland floodplain | 2 992 | 0 | – |
| Wimmera | F1.8: Black box woodland floodplain | 1 600 | 0 | – |
| Wimmera | F3.2: Sedge/forb/grassland floodplain | 802 | 0 | – |
| Wimmera | F3.1: Upland sedge/forb/grassland floodplain | 184 | 0 | – |
| Wimmera | F2.3: Upland shrubland floodplain | 165 | 0 | – |
| Wimmera | F1.3: Upland River red gum woodland floodplain | 164 | 0 | – |
| Wimmera | F2.4: Shrubland floodplain | 109 | 0 | – |
| Wimmera | F1.7: Upland black box woodland floodplain | 69 | 0 | – |
| Wimmera | F2.2: Lignum shrubland floodplain | 68 | 0 | – |
| Wimmera | F1.6: Black box forest floodplain | 58 | 0 | – |

# Annex D. ANAE river channel types influenced by Commonwealth environmental water by valley

The length of river and stream channels of differing ANAE type influenced by the delivery of Commonwealth environmental water is presented in Table D1 as an in indicator of the contribution of Commonwealth environmental water towards ecosystem diversity within each valley. River length measurement is highly dependent on the resolution of the mapping with higher resolution mapping capturing more twists and turns in the river that increase the measured river length along the flow path between two points. The Basin ANAE waterway mapping compiles state data that varies in resolution from 1:70 000 to 1:100 000.

Commonwealth environmental water is typically delivered from storages into lowland rivers. In hilly landscapes and where rivers cut through gorges the ANAE classification often identifies individual river sections as high energy streams. These transition into low energy lowland rivers as the valleys widen and flatten further downstream. The different ANAE types recorded in Table D1 are mostly different ecosystem types identified on the same major river within each valley rather than separate watercourses.

Table D. Length of river and stream ecosystem types influenced by the delivery of Commonwealth environmental water as represented by the Basin ANAE waterways data set in each valley

|  |  |  |
| --- | --- | --- |
| Valley name | Australian National Aquatic Ecosystem (ANAE) waterway type | Length (km) |
| Avoca | – | – |
| Barwon Darling | Rp1.4: Permanent lowland rivers and streams | 2 950 |
| Barwon Darling | Rt1.4: Temporary lowland rivers and streams | 508 |
| Border Rivers | Rp1.4: Permanent lowland rivers and streams | 987 |
| Border Rivers | Rt1.4: Temporary lowland rivers and streams | 639 |
| Border Rivers | Rt1.1: Temporary high energy streams | 88 |
| Border Rivers | Rp1.2: Permanent transitional zone streams | 79 |
| Border Rivers | Rp1.1: Permanent high energy streams | 29 |
| Border Rivers | Rt1.2: Temporary transitional zone streams | 14 |
| Broken | Rt1.4: Temporary lowland rivers and streams | 276 |
| Campaspe | Rp1.4: Permanent lowland rivers and streams | 98 |
| Campaspe | Rp1.2: Permanent transitional zone streams | 28 |
| Campaspe | Rp1.3: Permanent low energy streams | 19 |
| Campaspe | Rt1.4: Temporary lowland rivers and streams | 17 |
| Campaspe | Rp1.1: Permanent high energy streams | 8 |
| Campaspe | Rt1.2: Temporary transitional zone streams | 3 |
| Campaspe | Rt1.3: Temporary low energy streams | 2 |
| Castlereagh | – | – |
| Central Murray | Rp1.4: Permanent lowland rivers and streams | 2 176 |
| Central Murray | Rt1.4: Temporary lowland rivers and streams | 223 |
| Central Murray | Rp1.3: Permanent low energy streams | 53 |
| Central Murray | Rp1.2: Permanent transitional zone streams | 41 |
| Central Murray | Rp1.1: Permanent high energy streams | 9 |
| Central Murray | Rt1.1: Temporary high energy streams | 5 |
| Central Murray | Rt1.3: Temporary low energy streams | 1 |
| Condamine Balonne | Rt1.4: Temporary lowland rivers and streams | 1 400 |
| Condamine Balonne | Rp1.4: Permanent lowland rivers and streams | 935 |
| Edward Wakool | Rp1.4: Permanent lowland rivers and streams | 969 |
| Edward Wakool | Rt1.4: Temporary lowland rivers and streams | 80 |
| Goulburn | Rp1.4: Permanent lowland rivers and streams | 343 |
| Goulburn | Rp1.1: Permanent high energy streams | 106 |
| Goulburn | Rp1.2: Permanent transitional zone streams | 47 |
| Goulburn | Rt1.4: Temporary lowland rivers and streams | 26 |
| Goulburn | Rt1.1: Temporary high energy streams | 6 |
| Goulburn | Rt1.3: Temporary low energy streams | 5 |
| Goulburn | Rt1.2: Temporary transitional zone streams | 4 |
| Gwydir | Rp1.4: Permanent lowland rivers and streams | 580 |
| Gwydir | Rt1.4: Temporary lowland rivers and streams | 190 |
| Gwydir | Rp1.2: Permanent transitional zone streams | 170 |
| Gwydir | Rp1.1: Permanent high energy streams | 116 |
| Gwydir | Rp1.3: Permanent low energy streams | 44 |
| Gwydir | Rt1.3: Temporary low energy streams | 27 |
| Kiewa | – | – |
| Lachlan | Rp1.4: Permanent lowland rivers and streams | 1 294 |
| Lachlan | Rt1.4: Temporary lowland rivers and streams | 184 |
| Lachlan | Rp1.1: Permanent high energy streams | 77 |
| Lachlan | Rp1.2: Permanent transitional zone streams | 38 |
| Lachlan | Rp1.3: Permanent low energy streams | 4 |
| Loddon | Rp1.4: Permanent lowland rivers and streams | 463 |
| Loddon | Rp1.2: Permanent transitional zone streams | 52 |
| Loddon | Rt1.4: Temporary lowland rivers and streams | 40 |
| Loddon | Rt1.2: Temporary transitional zone streams | 3 |
| Loddon | Rp1.1: Permanent high energy streams | 2 |
| Lower Darling | – | – |
| Lower Murray | Rp1.4: Permanent lowland rivers and streams | 991 |
| Macquarie | Rp1.4: Permanent lowland rivers and streams | 598 |
| Macquarie | Rp1.2: Permanent transitional zone streams | 145 |
| Macquarie | Rp1.1: Permanent high energy streams | 72 |
| Macquarie | Rt1.4: Temporary lowland rivers and streams | 14 |
| Mitta Mitta | – | – |
| Murrumbidgee | Rp1.4: Permanent lowland rivers and streams | 1 590 |
| Murrumbidgee | Rt1.4: Temporary lowland rivers and streams | 121 |
| Murrumbidgee | Rp1.1: Permanent high energy streams | 104 |
| Murrumbidgee | Rp1.2: Permanent transitional zone streams | 29 |
| Murrumbidgee | Rp1.3: Permanent low energy streams | 26 |
| Murrumbidgee | Rt1.3: Temporary low energy streams | 3 |
| Murrumbidgee | Rt1.2: Temporary transitional zone streams | 2 |
| Namoi |  | – |
| Ovens | Rp1.4: Permanent lowland rivers and streams | 295 |
| Ovens | Rt1.4: Temporary lowland rivers and streams | 140 |
| Ovens | Rt1.1: Temporary high energy streams | 55 |
| Ovens | Rp1.1: Permanent high energy streams | 4 |
| Ovens | Rp1.2: Permanent transitional zone streams | 8 |
| Ovens | Rp1.3: Permanent low energy streams | 2 |
| Paroo | – | – |
| Upper Murray | – | – |
| Warrego | Rp1.4: Permanent lowland rivers and streams | 302 |
| Warrego | Rt1.4: Temporary lowland rivers and streams | 181 |
| Warrego | Rt1.2: Temporary transitional zone streams | 6 |
| Warrego | Rp1.3: Permanent low energy streams | 4 |
| Wimmera | – | – |