Aerial Survey of Wetland Birds in Eastern Australia - October 2011 Annual Summary Report

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Results summary

1. There was significant flooding throughout eastern Australia survey area. This included widespread flooding in the Murray-Darling Basin and Lake Eyre Basins. Many large wetland systems had widespread flooding. Most key wetlands were either fully flooded or partially flooded (Fig. 1). Some additional flooding has continued to occur since completion of aerial surveys across some river systems, increasing wetland habitat available in inland areas, particularly the northern part of the Murray-Darling Basin.

2. Wetland habitat was again extensive in the Cooper Creek Catchment as well as the Diamantina and Georgina river systems. Lake Eyre was drying and supported few waterbirds. Wetlands on the lower Cooper Creek held water for the second consecutive year, with extensive flooding.

3. Throughout the Murray-Darling Basin, many of the large wetlands areas had water. This included widespread waterbird habitat on the Paroo River, including the Paroo overflow lakes, Cuttaburra channels, Macquarie Marshes, Lowbidgee wetlands and Menindee Lakes. Similarly, there were relatively large flooded areas throughout Victoria and South Australia.

4. The wetland area index fell from 2010 levels but remained above the long term average (Fig. 2).

5. There was an increase in total numbers of birds estimated, the highest overall total since 1984 (Fig. 3). Waterbirds were beginning to concentrate more in 2011 than 2010 on the major wetland areas.
Result summary continued

7. The breeding index (all species combined) was high but declined considerably compared to 2010. Most of the birds recorded breeding (98%) were non-game species (Straw-necked and Glossy ibis). Breeding species richness was also high, well above the long term average.

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Figure 1. Wetland map 2011

Key to wetlands from W-E, by band

10 Lake Moondarra, Cloncurry River, Flinders River, Campaspe R, Burdekin R
9 Georgina R, Eyre Ck, Hamilton R, Diamantina R, Lake Galilee, Styx R
8 Mumbleberry-Torquinnie Lakes, Eyre Ck, Diamantina R, Thomson R,
   Barcoo R, various small coastal wetlands
7 Goyder Lagoon, Lake Yamma Yamma, Cooper Ck, Bulloo R, Paroo R, Warrego R
6 Lake Eyre, Lake Hope, Bulloo R, Paroo R, Warrego R, Balonne R,
5 Lake Frome, Paroo O'flow, Darling R, Macquarie Marshes
4 Menindee Lakes, Talywalka Lakes, Myall Lakes
3 Murray River Lakes, Lowbidgee Swamp
2 Coorong, Cooper + Mokoan Lakes, Cooma-Monaro
1 Curdies Inlet, Jack Smith Lake
Figure 2. Total wetland area

![Wetland area index graph](image)

Figure 3. Total waterbirds

![Number of waterbirds graph](image)
Figure 4. Band totals 2011

Scales vary on graph axes
Figure 7. Breeding index (all species) 1-5

Y e a r

Breeding index


All Bands

Band 1

Band 2

Band 3

Band 4

Band 5

Scales vary on graphs
Figure 8. Breeding index 6-10

Scales vary on graphs
Figure 9. Pacific black duck 1-5

Scales vary on graphs
Figure 10. Pacific black duck 6-10

Scales vary on graphs
Figure 11. Black swan 1-5

Scales vary on graphs
Figure 12. Black swan 6-10

Scales vary on graphs
Figure 13. Australasian shoveler 1-5

Scales vary on graphs
Figure 14. Australasian shoveler 6-10
Figure 15. Chestnut teal 1-5

Scales vary on graphs
Figure 16. Grey teal 1-5

Scales vary on graphs

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Figure 17. Grey teal 6-10

Scales vary on graphs
Figure 19. Hardhead 6-10

Scales vary on graphs.
Figure 20. Freckled duck 1-5

Scales vary on graphs
Figure 21. Freckled duck 6-10

Scales vary on graphs
Figure 22. Australian shelduck 1-5

Scales vary on graphs

22
Figure 23. Australian shelduck 6-10

Scales vary on graphs
Figure 24. Pink-eared duck 1-5

Scales vary on graphs
Figure 25. Pink-eared duck 6-10

Scales vary on graphs
Figure 26. Plumed whistling-duck 1-5

Scales vary on graphs

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Figure 27. Plumed whistling-duck 6-10

Scales vary on graphs
Figure 28. Australian wood duck 1-5

Scales vary on graphs
Figure 29. Australian wood duck 6-10

Scales vary on graphs