Department of Sustainability and Environment

Plains Grassy Wetland

Endangered in the Goulburn Broken Catchment

97% of Plains Grassy Wetlands have been cleared. 92% of that remains is on private land.



Figure 1. A healthy example of Plains Grassy Wetland.



Figure 2. A healthy example of Plains Grassy Wetland.



Figure 3. A healthy example of Plains Grassy Wetland in summer.



Photo: Martin White

hoto: Sue Berwick

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Description

These shallow seasonal wetlands occur on discrete, shallow depressions or in a mosaic with other wetlands such as Red Gum Wetlands. The heavy clay soils are periodically wet for a number of months and are dry throughout summer. They often occur amongst Plains Woodlands and Plains Grassy Woodlands.

The grassland structure of these wetlands can grade into sedgelands or herblands. The herbs and grasses flourish in the seasonally inundated conditions with very few true aquatic species.

Grass species include Common Swamp Wallaby-grass, Brown-back Wallaby-grass, Rigid Panic and Forbe Poa. Herbs include Billy Buttons, Rough Raspwort, Hairy Willowherb, River Bluebell, and Swamp Daisy. Aquatics include Common Nardoo, Pacific Azolla, Common Spike-sedge and various Milfoil species. Rushes and sedges include Rush Sedge, Yellow Rush and Toad Rush.

Species To Look Out For

Flora: Stiff Groundsel (Ee), Cane Grass (v), Water Starwort (v) and Ridged Water-Milfoil (Vv).

Fauna: Brolga (v), Australasian Bittern (e), Great Egret (v), Musk Duck (v), Nankeen Night Heron (n).



Figure 4. Brolga Photo: DSE/McCann

Figure 5. Australasian Bittern Photo: DSE/Peter Menkhorst

Figure 6. Musk Duck Photo: DSE/McCann



Figures 7-10. Common Swamp Wallaby-grass, Rigid Panic, Billy-button, Common Nardoo

Photos 7 and 8, 9: Mary Titcumb, 10: Sally Timmins.

Why Plains Grassy Wetlands are Threatened

More than 97% of Plains Grassy Wetlands in the Goulburn Broken Catchment have disappeared since European settlement (247ha remain). Over 92% of what remains is on private land (230ha). Many of the plants and animals that rely on this habitat are now also threatened, and some are extinct. Therefore, the support of private landholders is essential for the ongoing conservation of Plains Grassy Wetlands.

Current threats include, **poor timing of stock grazing and overgrazing** (causing loss of native species through selective grazing and trampling, hinders native plant regeneration, disturbs the soil and increases nutrient levels), **tree planting in naturally treeless wetlands** (causing loss of important breeding habitat for many water birds, eg. Brolga, and alters the hydrology, and vegetation structure, hence threatening the entire system), **loss of ground habitat** (through dredging, land-filling, draining, unsustainable harvesting of Drumsticks or Billybuttons, and overgrazing), **weed invasion from adjacent areas**, soil disturbance, stock feed and stock faeces, **increased nutrients** (favours weeds and causes excessive plant growth which restricts water movement and reduces dissolved oxygen), **changes to natural flooding, temperature and flow regimes** changes floodplain functions, **difficulty in identifying wetlands** often results in inappropriate management.

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Management Tips

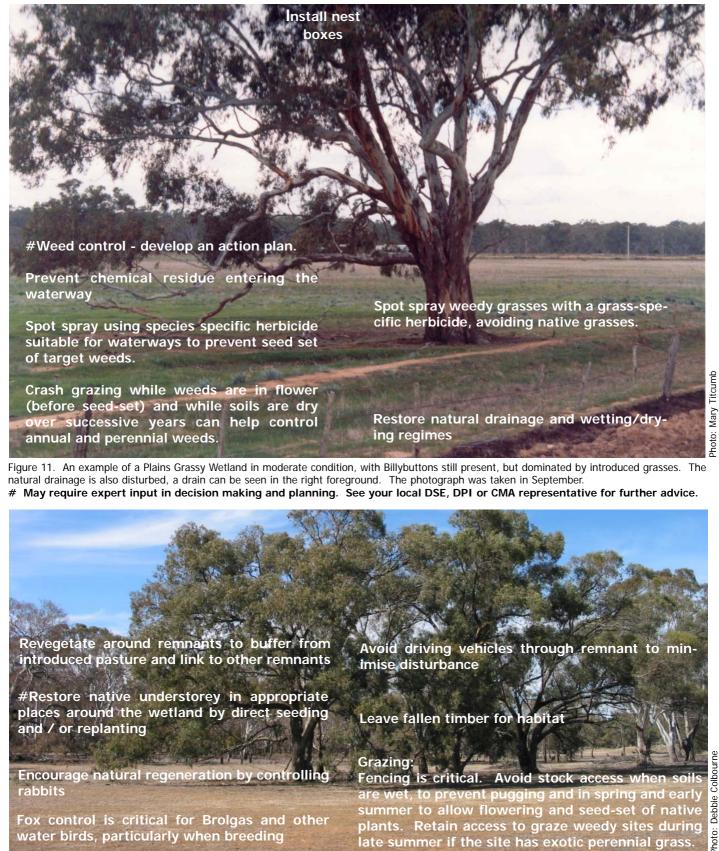
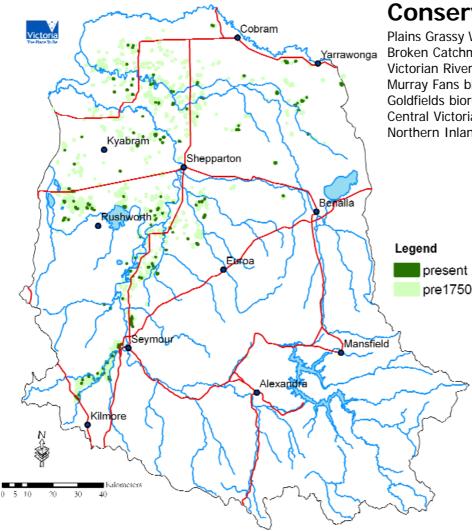


Figure 12. An example of Plains Grassy Wetland in December. # May require expert input in decision making and planning. See your local DSE, DPI or CMA representative for further advice.



Conservation Status

Plains Grassy Wetland is Endangered in the GoulburnBroken CatchmentVictorian Riverina bioregion :EndangeredMurray Fans bioregion:EndangeredGoldfields bioregion :EndangeredCentral Victorian Uplands bioregion :EndangeredNorthern Inland Slopes bioregion :Endangered

Figure 13. A representation of the pre-1750 and present day distribution of Plains Grassy Wetland and its mosaics and complexes in the Goulburn Broken Catchment. The boundaries of the vegetation have been exaggerated to allow for the small scale of the map. The map was produced from Base Data from DSE Corporate Library. The State of Victoria does not warrant the accuracy or completeness of information on this map. Any person using or relying upon such information does so on the basis that the State of Victoria shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information.

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For further information about this publication, contact:

Department of Sustainability and Environment or Goulburn Broken Catchment Management Authority

Benalla (03) 5761 1611

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