

Damage to farms minimal under Basin plan

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Professor Richard Kingsford. Credit: Grant Turner

For the first time, scientists at UNSW have investigated the likely impact of planned environmental flows on farmlands and nature reserves around the Murray-Darling Basin.

The new study suggests that damage from the flows proposed under the Basin Plan, which are designed to mimic natural flooding processes and improve ecological health, will be minimal to farming and other land use areas in the Basin.

"We found that, even with widespread flooding, most of the areas affected are floodplain areas, which are primarily used for [grazing](#) livestock," said lead author Professor Richard Kingsford, Director of the

Australian Rivers, Wetlands and Landscapes Centre at UNSW.

"Usually these landholders welcome floods as they rejuvenate floodplains and provide increased benefits to livestock."

Using satellite imagery, the researchers examined the maximum flooding and floodplain area in the [Murray Darling Basin](#), including 62,164 km² of wetland, which covered 5.87 per cent of the land area of the entire Basin. These wetlands included all rivers, lakes, [swamps](#) and floodplain areas that were inundated fully during a ten-year period (1984-1993).

According to Professor Kingsford: "These figures, representing maximum estimates of impact, clearly show that environmental flows are unlikely to have widespread impacts on agriculture across the Murray-Darling Basin. In fact, it is important to acknowledge that environmental flows are critically important to agriculture, providing good water quality, healthy rivers and benefits for grazing communities".

Key Findings:

- Only 4.77% of wetland area encroached on irrigation areas; only 5.44% occurred in [protected areas](#).
- Most of the flooded area in the Basin consisted of a range of other land uses (89.79%).
- More than half of this other land use (52.64%) was categorised for grazing, either in woodland or naturalised pasture; remaining land was not categorised or urban.
- These grazing categories were the main land use in more than 50% of wetlands in 17 of the 25 catchments of the Basin.
- When all wetlands on agricultural land were included (i.e. agricultural cropping, grazing, unallocated agricultural land), flooded land was predominantly in grazing areas (84.28%) in the

Basin.

- Of the 25 river catchments in the Murray-Darling [Basin](#), percentage areas of [wetlands](#) in irrigation areas were generally low: eight catchments had none; three had less than 1 per cent; seven had less than 5 per cent; and 5% had 5-20%.

Provided by University of New South Wales

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