

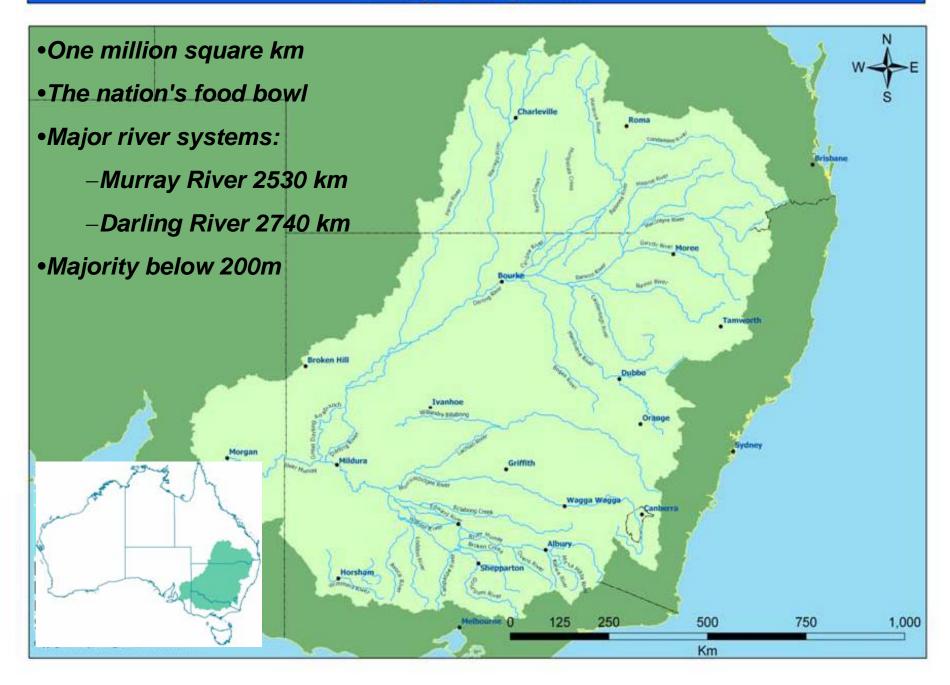




Native Fish Strategy in the Murray – Darling Basin

An Overview Peter Jackson

Murray-Darling Basin





Fish Fauna

- Forty-five natives
- Twelve alien or translocated.
- Alien fish up to 70% (numbers) and 90% (biomass) in some rivers.
- Carp most abundant and widespread.
- > 50% are Threatened
- 10% pre-European





Murray cod

Maccullochella peelii peelii)

©Largestfreshwater fishin Australia

©Localised depletion.





Golden perch

Macquaria ambigua)

©Listed as
Vulnerable in
NSW under the
FM Act 1994





Freshwater catfish Tandanus

tandanus)

- •Widespread in Qld.
- •Significant decline elsewhere





Olive perchlet or Glass fish

Abassis agassizii

- Very rare in NSW
- •Extinct in SA and Vic.





Threats – Flow regulation

- 2/3 of flow diverted.
- Median annual flow to sea is now 27% of natural.
- State of drought for > 61 years per 100 years (natural 5 per 100).
- Diversions from Barwon-Darling and tribs. 50,000ML (1960) – 1.4 Mill ML (1990-91)



Other Threats

- Habitat degradation.
- Lower water quality.
- Barriers.
- Alien Species.
- Disease
- Exploitation.
- Translocation and Stocking.



Management-Jurisdictions

- New South Wales- 56%.
- Queensland- 24%.
- Victoria-12%.
- South Australia-6.5%.
- Australian Capital territory- 0.2%.



Management-Basin Wide

- 1992- Murray Darling Basin
 Agreement (MDBMC/ MDBC/ CAC).
- 2003-Native Fish Strategy
- **2008** Murray-Darling Basin Authority.
- 2010- Draft Basin Plan for sustainable water use.



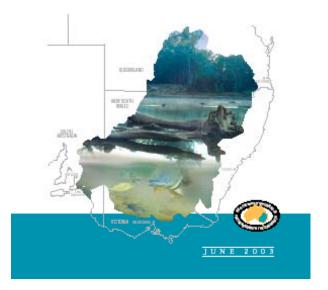
Native Fish Strategy

Community driven

- long term 50 years.
- Rehabilitate native fish communities to 60% in 50 years.
- Healthy fish populations and habitats mean healthy rivers.



Native Fish Strategy for the Murray–Darling Basin 2003–2013





Native Fish Strategy

The NFS has 6 Driving actions:

- Rehabilitate fish habitat.
- Protect fish habitat.
- Manage river structures.
- Control alien fish.
- Protect threatened species.
- Manage translocation of species.



2003–2013





Two Key Principles

- Community and partner ownership and participation are essential.
- Multiple management interventions are more likely to produce a positive and quicker result for native fish communities.