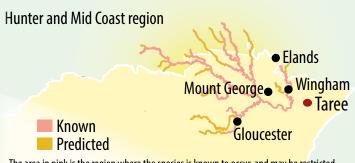


# Manning River Helmeted Turtle

{Myuchelys purvisi}

Found only in the mid and upper reaches of the Manning River, the distribution of the Manning River Helmeted Turtle is being intensely researched across the Manning catchment. The research suggests it's found in a limited number of locations and seems to prefer waterways in relatively undisturbed areas. Key threats inlcude foxes preying on nests and hybridisation with the Macquarie turtle (Emydura macquarii). The age this species reaches is uncertain however closely related species can reach 30-40 years old.

One of the oldest living turtles, this ancient species has been in existence for around 55 million years

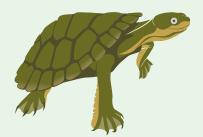


The area in pink is the region where the species is known to occur, and may be restricted to certain areas. The information presented in this map is only indicative and may contain errors and omissions.



# Are Manning River Helmeted Turtles found near you?

Recent surveys for the Manning River Helmeted Turtle found the species in the northern and western parts of the Manning valley, including along the Barnard, Barrington, Cooplacurripa, Manning, Mummel, Nowendoc, Rowleys Rivers and Bobin, Dingo and Myall Creeks. It has only been found in the Gloucester River at Faulkland and Bundook.



## Why is this species important?

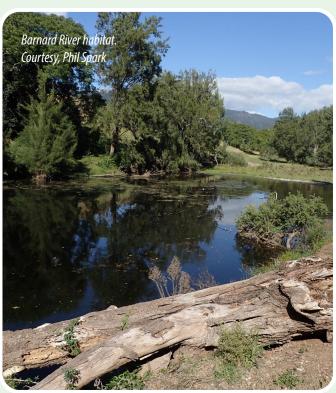
Freshwater turtles are omnivores and top predators in their habitats. They play a critical role in maintaining the diversity of life in waterways. Manning River Helmeted Turtles help control aquatic vegetation, serve as scavengers and assist in maintaining healthy streams and rivers and are indicator species of aquatic ecosystem health.



## Habitat and Biology

Manning River Helmeted Turtle prefer relatively clear streams that are between 2 – 3 metres in depth. It prefers rocky rivers where in-stream boulders are common, as well as logs and underwater caverns with some deep pools.

Manning River Helmeted Turtles mainly feed during the day time on large insects, fruit and water plants. They breed during February to April and lay up to 23 eggs in a single clutch per year. Nests are laid a few weeks after the first good rains in spring. Nests are about 30cm in diameter and are made in sandy gravel beds close to water, often on the inside of river bends. Average growth rates of juveniles were found to be only 2mm over a very dry 19 month period (2019 - 2020) suggesting the species is affected by low rainfall and is probably overall slow growing. During winter, they are probably inactive and hibernate in deep pools. Unlike other turtles which will readily travel over land, it's likely that the Manning River Helmeted Turtle does not undertake these journeys and is restricted to water environments.



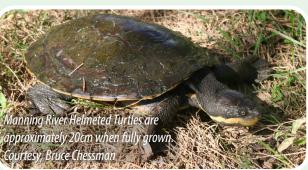
## **Threats**

The most persistent threat is posed by foxes and pigs. Recent evidence suggests that foxes in particular are raiding nests as well as killing females while they are laying eggs. There is also a risk of rapid population decline due to viral infection as happened to the closely-related Bellinger River Turtle in March 2015. Some land management practices has led to decline in habitat quality for the Manning River Helmeted Turtle.

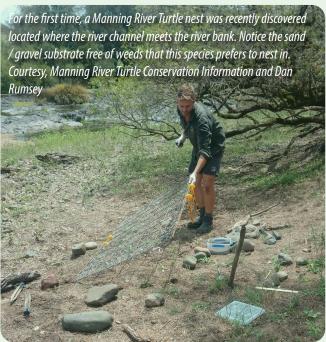
#### Threats include:

- Changes in waterway vegetation and disturbance caused by grazing livestock.
- Increased levels of sediment and nutrient associated with agriculture flowing into waterways.
- High weed densities smothering gravel banks where nesting takes place.
- Removal of in-stream habitat such as logs.
- Illegal turtle and egg collection.
- Hybridisation with introduced Macquarie Turtle (*Emydura macquarii*).
- Fragmentation of the population.
- Water extraction which may cause some waterways to stop flowing.
- Reduction in river levels and flood events due to the effects of climate change.
- Widespread and intense bushfire causing declines in water quality and loss of waterway vegetation.









## Identification

This species is a medium sized (~20cm), short-necked turtle. It has not been found away from rivers and creeks like the Eastern Snake-necked Turtle (*Chelodina longicollis*). The underneath of the shell is mid to dark brown, distinguishing it from Macquarie Turtle (*Emydura macquarii*) which has a much lighter shell underneath. It is the only other short-necked turtle found in the Manning Valley. There is a distinct yellow stripe along the jaw and neck line as well as on the sides and underside of the tail. Distinctly, there are two short barbels (whisker-like protrusions) from the base of the lower jaw. The crown of the head has a cap or helmet of hard skin. The head of adults (generally when top of the shell >10cm) is pointed when viewed from above with the nose prominent, particularly in males. In adults, the tail of males is longer than females.



## MRT17821L

## You can help the Manning River Helmeted Turtle.



 Protect sensitive waterway areas by excluding livestock with fencing and providing off-stream livestock watering points.



Remove weeds along gravel banks where these species prefer to build nests.



Undertake coordinated control of feral animals such as foxes and pigs.



4. **Don't allow domestic dogs** to roam or dig up turtle nests.



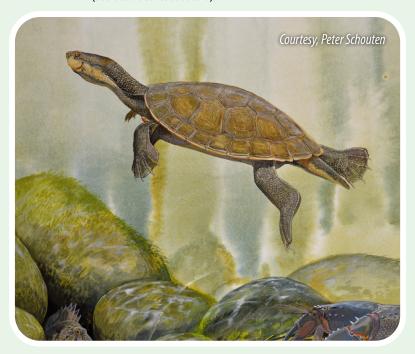
5. Install nest guards around known nest sites to exclude foxes and pigs while allowing hatchlings to emerge safely – 90mm chicken wire can be used effectively.



**6. Support local efforts to maintain and improve** natural waterways by joining a local community group such as Landcare.



**7. Report sightings to** Department of Planning, Industry and Environment - Biodiversity and Conservation Division, Andrew Steed (see beside contact details).



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## For more information contact

#### **Hunter Local Land Services:**

P: 1300 795 299

E: admin.hunter@lls.nsw.gov.au W: www.lls.nsw.gov.au/regions/hunter

# Department of Planning and Environment – Biodiversity and Conservation Division:

P: 1300 361 967

E: in fo@environment.nsw.gov.au

W: www.environment.nsw.gov.au

Andrew Steed

P: 0497 097 834 or 6659 8276

E: andrew.steed@environment.nsw.gov.au

### **Mid Coast to Tops Landcare Connections**

Regional Coordinator- Jessica Leck,

M: 0487 477 603

E: mc2t.regionalcoord@gmail.com

Karuah & Great Lakes - Joel Dunn

M: 0401 932 533

E: joel.dunn@glcr.org.au

*Manning Landcare Inc* - Lyn Booth

M: 0427 530 681

E: lyn.manninglandcare@gmail.com

Manning Coastcare - Helen Kemp

M: 0401 606 463

E: helen.manningcoastcare@gmail.com

W: www.midcoast2tops.org.au

#### **MidCoast Council**

P: 02 7955 7777

E: council@midcoast.nsw.gov.au

W: www.midcoast.nsw.gov.auu

#### **Manning River Turtle Group**

E: hello@manningriverturtle.org

W: www.manningriverturtle.org

F: www.facebook.com/ManningRiverTurtleGroup/

Instagram: @manning\_river\_turtle\_group

#### **Atlas of Living Australia**

W: www.ala.org.au







A current breeding program is in place for this turtle, supported through crowd funding campaign with AussieArk.