

primefact

Fishing for Murray Crayfish in NSW

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Recreational and Indigenous Fisheries and Fisheries Compliance

Murray Crayfish, *Euastacus armatus*, are found in the Murray and Murrumbidgee rivers and many of their tributaries. They are sometimes called freshwater crays or lobsters.

Murray Crayfish breed once a year at the end of autumn. After fertilisation, the eggs or ova (berries) incubate under the tail of the female for 4-6 months. The hatched juveniles remain another 3-4 weeks, moulting twice and coming to resemble the adult body proportions, before leaving the mother.

Crayfish carrying eggs or young are protected and must be returned to the water. It is illegal to scrape off the eggs - this is one of the most common offences and is easily detected by a fisheries officer.

Crayfish do not grow continuously, but in stages at each moult. They grow slowly, reaching maturity at 6-7 years of age. The Murray Crayfish is the second largest freshwater crayfish in the world; exceeded only by the Tasmanian giant freshwater crayfish. The maximum documented size of Murray Crayfish is 174 mm occipital carapace length (OCL) and 2.5 kg.

Murray Crayfish are opportunistic feeders. They feed mainly on decaying aquatic plant matter, but also eat dead fish and other animals.

Murray Crayfish have suffered considerable declines in range and distribution since European settlement. They were once widespread throughout the Murray and Murrumbidgee catchments, but are now considered rare in the lowland reaches of the Murray and Murrumbidgee Rivers and are rare or absent west of Mildura. It is thought that a range of environmental factors such as black water flooding events, land use practices and broad scale river regulation have contributed to the reduction of the species. While recreational fishing does not appear to have been a primary cause of the species decline, it is important that recreational fishing is managed to assist the species recovery.

This pressure on the stocks has meant that regulations are necessary to protect them and ensure that everyone can get a fair share of the catch. The regulations include size and bag limits, closed waters and a ban on taking berried females.

Figure 1: A Murray Crayfish (photo Prue McGuffie)

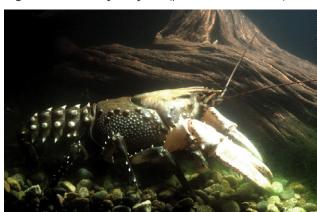


Table 1: Fishing rules for Murray Crayfish

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Minimum size	10 cm OCL		
Maximum size	12 cm OCL		
Bag Limit	2 per day per person, 4 in possession. All crayfish under 10 cm and over 12 cm must be returned immediately to the water		
Berried females	Must be returned immediately to the water		
Closed waters	See over under the section titled "Closures"		
Open season	June to August inclusive. The taking of Murray Crayfish is prohibited at all other times.		
Mutilation	Removing claws, head and/or tail in, on or adjacent to waters is prohibited.		

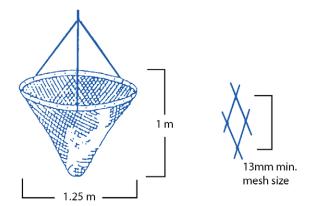
Gear

The only legal methods of catching Murray Crayfish are with hoop or lift nets (see Figure 2) or attended lines. Up to 5 hoop nets per person may be used and up to 2 attended lines per person may be used. Yabby traps cannot be used to take Murray Crayfish.

The dimensions for hoop nets are as follows:

- greatest diameter or diagonal not exceeding 1.25 metres
- not more than 2 hoops, rings or frames attached to the net, but not attached to each other by any rigid frame
- drop of net (inclusive of hoops, rings or frames) not more than 1 metre
- mesh not less than 13 mm.
- must have attached a 100 mm buoy above the water with the letters 'HN' and the user's name and address, 15mm in height and clearly visible
- no rope between the net and buoy to be floating on the surface of the water

Figure 2: Illustration of a legal hoop/lift net.



Open season

Crayfish can be taken during the months of June, July and August in the following waters only:

- a. Murrumbidgee River and its tributaries excluding Old Mans Creek from the Hume Highway road bridge at Gundagai downstream to a line 100m upstream of the weir face of Berembed Weir near Ganmain
- b. Murray River and its tributaries from a line 130m below the weir face at Hume Weir near Albury downstream to the Newell Highway road bridge at Tocumwal.

An open season acknowledges the community's desire for the fishery to continue while also providing protection at other times when crayfish are normally inactive under natural conditions. Lowered water temperatures downstream of major impoundments have lengthened the period of activity for Murray Crayfish, making them susceptible to capture.

Figure 3: Side and top profiles indicating how to measure a Murray Crayfish (e.g. from the rear of the eye socket to the centre middle of the rear of the carapace).

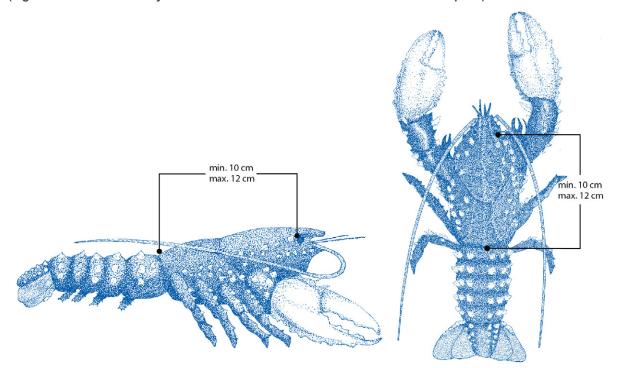
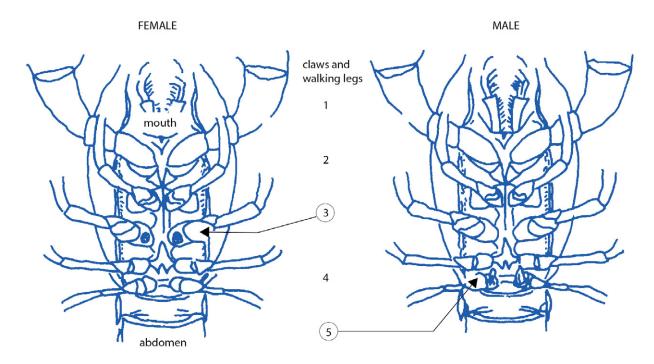


Figure 4: Underside of male and female showing reproductive openings.

The male (right) has projecting papillae at the bases of the 5th walking legs (counting from the large claws). The female has oval openings at the bases of the 3rd walking legs.



Closures

Murray Crayfish cannot be taken from any waters in NSW by any method between September and May inclusive. Additionally, the taking of berried females and the removal of heads, tails or claws of Murray Crayfish in, on or adjacent to waters, is prohibited. Murray Crayfish or berried females (carrying eggs) must be returned immediately to the water without harm (Figure 6).

Figure 5: Map of NSW showing Murray Crayfish fishing areas.



Figure 6: Berried female crayfish must be returned immediately to the water without harm.



The closed season provides protection for crayfish during their normal period of inactivity. The closure which restricts fishing to specified waters of the Murrumbidgee and Murray Rivers (as shown in Figure 5) is designed to prevent any further pressure on remaining Murray Crayfish populations. The closure will enable fishing and non fishing areas to be compared and will help to determine whether any improvements or declines in the population are due to fishing or other environmental factors.

Measuring your Murray Crayfish

Your catch of Murray Crayfish must be measured immediately after capture. NSW Department of Primary Industries (NSW DPI) has available free of cost Murray Crayfish measuring devices, which

can be used to assist in measuring Murray Crayfish caught, to ensure they are of legal size. Measuring devices can be obtained from the NSW DPI offices listed in Table 2. Carrying a measuring device in your boat when fishing for Murray Crayfish is recommended.

Conservation

Murray Crayfish may leave the water for a period of time during flooding and blackwater events. At such times, all NSW laws relating to taking of Murray Crayfish continue to apply. Please do not interfere with crayfish during these periods. Murray Crayfish will return to the water when water quality improves. Penalties for illegal fishing apply.

Fishers are encouraged to take only what they need for immediate consumption and to consider returning excess crayfish to help with the conservation of the species.

Illegal fishing

Report illegal fishing to your local fisheries office or Fishers Watch Phoneline on 1800 043 536.

NSW recreational fishing fee

When fishing, or in possession of fishing gear in, on or adjacent to any NSW waters, including the Murray River, you are required by law to pay the NSW recreational fishing fee and have the receipt for current payment in your immediate possession.

Call 1300 369 365 for payment of the recreational fishing fee. Rules apply for other species and other restrictions may apply.

For further information, contact your local NSW DPI fisheries office, phone 1300 550 474 or refer to the website www.fisheries.nsw.gov.au.

Table 2: NSW Department of Primary Industries Fisheries Offices located in south western NSW

Area	Address	Phone	Mobile
Hume	3/556 Macauley Street, Albury	02 6042 4228	0419 185 548
Far West	Agricultural Research and Advisory Station, Dareton	03 5019 8408	0427 429 579
Riverina	449 Charlotte Street, Deniliquin	03 5881 9928	0427 897 145
South West Slopes	64 Fitzroy Street, Tumut	02 6947 9028	0408 484 299

It is suggested that you phone prior to visiting an office as Fisheries Officers may be in the field. For updates go to www.dpi.nsw.gov.au/primefacts

Disclaimer: The information contained in this publication is based on knowledge and understanding at the time of writing (August 2013). However, because of advances in knowledge, users are reminded of the need to ensure that information upon which they rely is up to date and to check currency of the information with the appropriate officer of the Department of Primary Industries or the user's independent adviser. Published by the NSW Department of Primary Industries.

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