





## LAKE BELMORE REVIEW 2024

## INFORMATION RATING



Stocking group: Croydon Fishing and Boating Club Inc

Species stocked: Barramundi, Sooty Grunter

Stocking timeframe: 2012-2024 Fish timeframe: 2015-2024 Fisher timeframe: 2020-2024

DAF link: <a href="https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=lake-belmore">https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=lake-belmore</a>
Lake Belmore link: <a href="https://www.croydon.qld.gov.au/discover-croydon/things-to-do/lake-belmore">https://www.croydon.qld.gov.au/discover-croydon/things-to-do/lake-belmore</a>

Lake Belmore is the water supply for the town of Croydon on the Gulf Development Road in North Queensland. It has been intermittently stocked with Barramundi and Sooty Grunter however the stocking history prior to 2011 is unknown and stocking details after 2018 are not available. Note local size limits are 60cm for Barramundi and 28cm for Sooty Grunter.

The lake is fished by locals from Croydon but also attracts visitors from the Gulf and towards the east coast. Fishers recapturing fish from 2019-2024 came from Croydon, Karumba, Pentland, Ravenshoe and South Australia.

Fish tagged from 2018-2024 were tagged by Suntag taggers and there have been 7 (2.9%) recaptures of those fish. No fish were tagged, or recaptures reported in 2024.

Due to the small size of the lake internal movement was not recorded and no recaptures have been recorded from elsewhere.



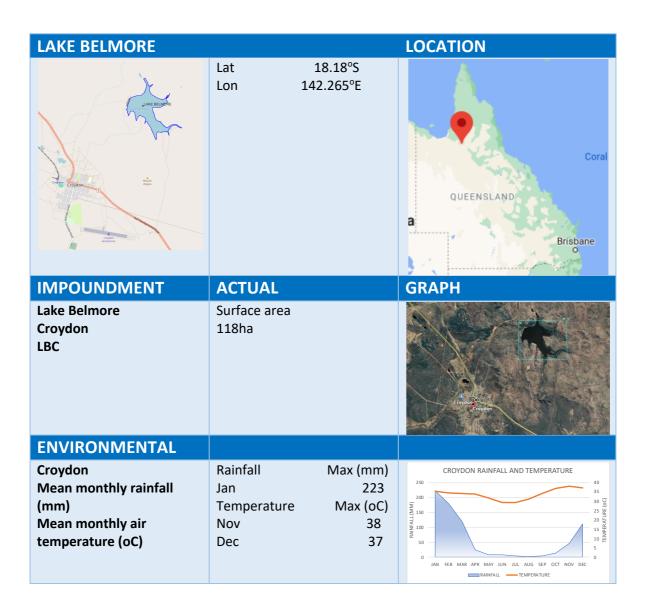






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FISH	ACTUAL	MAP or GRAPH
BARRAMUNDI	STOCKING	
Barramundi stocked 2011-2018 (no stocking records available after 2018)	Year Fingerlings 2011 1500 2012 11800 2014 6500 2018 18123 Total 37923	LAKE BELMORE BARRAMUNDI RELEASE DATES  2000 1800 1800 1800 1800 1800 1800 180
DATA RELIABILITY		6/7/09 18/11/10 1/4/12 14/8/13 27/12/14 10/5/16 22/9/17 4/2/19
Sample size (fish/year) Tagged (blue arrow) Recaptured (orange arrow) Confidence % Error % 2020-2024	Reliability level Samples 10 41 68 Confidence 80% 80% 10%	MODERATE         MODERATE         HIGH           3         271         384         664           90%         90%         95%         99%           10%         5%         5%         5%
TAGGED		
Barramundi tagged and recaptured 2015-2024	Tagged Recaptured 238 7 Recapture rate 2.9% Tagged 2024 0	LAKE BELMORE BARRAMUNDI  TAGGED AND RECAPTURED  120  100  100  100  100  100  100  10
Timeline of fish tagged 2015-2024		LAKE BELMORE TAGGED BARRAMUNDI TIMELINE  1200 1000 1000 1000 1000 1000 1000 10
LENGTHS		
Barramundi tag lengths 2015-2024	Year Average (mm) 2020 619 2021 622 2022 589 2023 648 2024 NA	LAKE BELMORE BARRAMUNDI LENGTHS (MM)  1200 1000 1000 1000 1000 1000 1000 10

## **FISHERS DATA RELIABILTY** Sample size (days fished) Reliability level Samples 271 **Recaptures (blue arrow)** Confidence 80% 80% 90% 90% 95% 99% Error 20% 10% 10% 5% 5% Tag days (orange arrow) **Confidence % Error** % 2020-2024 **TRAVEL** Travel proxy distance (km) Trips 7 TRAVEL PROXY DISTANCE (KM) home to recapture Range (km) location Local 2020-2024 167-422 Intrastate Interstate 1824 Travel proxy average Trips 7 AVERAGE TRAVEL PROXY DISTANCE (KM) 2000 1800 1600 distance (km) home to Average distance (km) recapture location Local 3 1400 2020-2024 276 Intrastate 1000 800 600 400 200 Interstate 1824 **DEMOGRAPHICS** Where recapture fishers Fishers 7 WHERE RECAPTURE FISHERS LIVE live Local 2 (29%) 2020-2024 Intrastate 4 (57%) 1 (14%) Interstate ■ LOCAL ■ INTRASTATE ■ INTERSTATE



## **DATA SOURCES**

Data used in the Lake Belmore stocked Barramundi Crystal Bowl:

- Tag records and recapture records for Lake Belmore at <a href="http://crystalbowl.infofishaustralia.com.au/">http://crystalbowl.infofishaustralia.com.au/</a>.
- Rainfall and temperature records from Station 029012 Croydon Township from <a href="http://www.bom.gov.au/climate/data">http://www.bom.gov.au/climate/data</a>.