



LAKE CALLIDE REVIEW 2024

INFORMATION RATING



Stocking group: Callide Valley Native Fish Stocking Association

Species stocked: Barramundi, Golden Perch, Southern Saratoga, Sleepy Cod

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

DPI link: https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=callide-dam

CVNFSA link: http://www.cvnfsa.org.au/stocking.html
CVNFSA Facebook: https://www.facebook.com/cvnfsa/

The data reliability for Lake Callide is low and should be treated with caution. However, there are still some useful indicators on the status of fish and its use by fishers.

While Lake Callide has been stocked with Barramundi it is susceptible to fish kills over winter when water temperatures drop to low levels below 14°C. In the winter of 2007, with the water level at 8% the temperature dropped to 10°C, resulting in a total fish kill of Barramundi. See https://infofishaustralia.com.au/wp-content/uploads/2016/11/Fish-Kill-report-2007.pdf

A further fish kill occurred in Sep 2022, and it was estimated that there were over 1,000 dead Barramundi, mostly large fish from 800-1200mm. However, this was only a partial kill and there may have other causes as the water temperature was not low enough to be the cause.

Fish tagged in 2021-2022 up to Sep 2022 were mostly large fish of a similar size to those in the fish kill. No Barramundi were tagged in 2023 and 2024 however there have been several recaptures of fish tagged earlier.

Lake Callide is included in the Fish and SIPS fish competition in 2023 and 2024 and there has been the recapture of 1 competition fish.

While the data on fishers is low it suggests that Lake Callide is popular with visiting fishers, likely attracted by the high proportion of trophy Barramundi. There is a lull in fisher activity over winter with low water temperatures that make Barramundi much harder to catch. The lake is mostly an experiential fishery as all large Barramundi that were recaptured were released again.



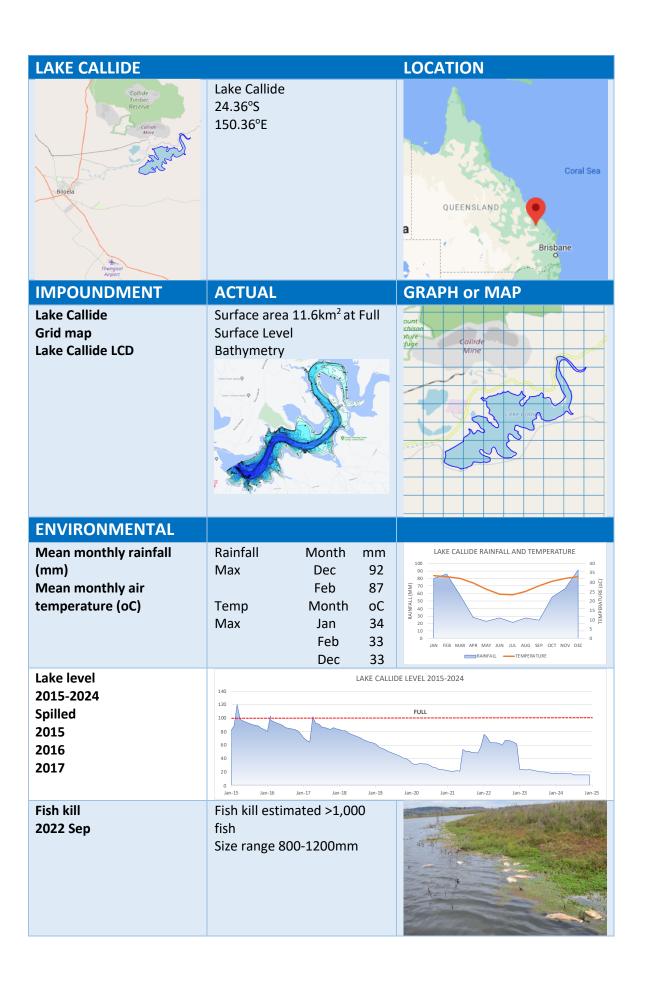






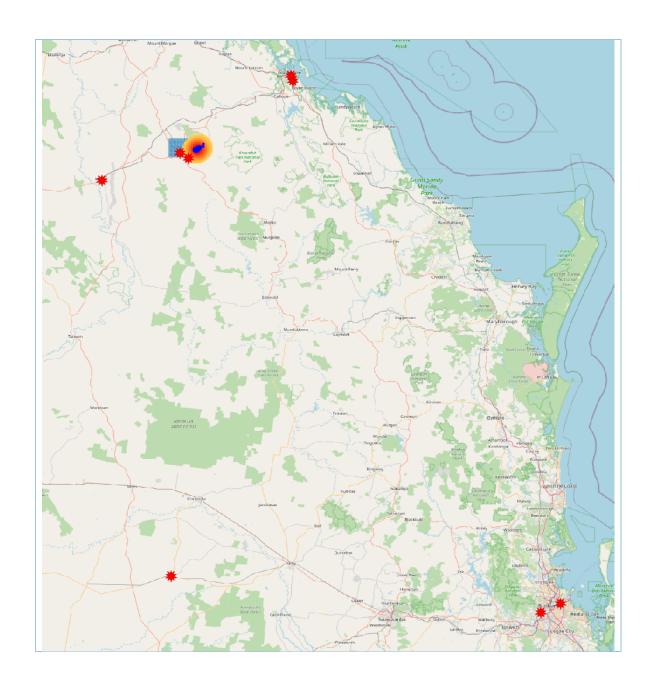
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FISHERS	ACTUAL		GRAPH or MAP	
DATA RELIABILITY				
Sample size (days fished) Days (blue arrow) Confidence % Error % 2020-2024	Reliability level LOW Samples 10 41 Confidence 80% Error 20%	80% 80% 10%	MODERATE MODERATE HIGH 271 384 664 90% 90% 95% 99% 10% 5% 5% 5%	
TYPE OF FISHERY				
Months fished Temperature Monthly days fished (taggers and recapture fishers combined) 2020-2024 Harvest or experiential	Most days fished (low numbers) Oct Sep	c ent	CALLIDE TEMPERATURE AND DAYS FISHED 25 20 20 20 25 20 25 20 25 25 20 26 25 20 27 28 25 20 20 20 20 20 20 20 20 20 20 20 20 20	
fishery Release rate of recaptured legal Barramundi 2020-2024	rate Legal fish Kept 0	7 (0%) (100%)	HARVEST	
Local or visitor fishery Where recapture fishers live 2020-2024		9 ! (22%) 7 (78%)	TYPE OF FISHER LOCAL VISITOR VISITOR VISITOR ILOCAL INTRASTATE INTERSTATE	
ACTIVITY				
Monthly activity Days fished Taggers (35) Recapture fishers (9) 2020-2024 Weekday activity	Month Taggers Oct Sep Recaps Sep Oct Day	% 46% 14% 44% 33%	CALLIDE FISHER ACTIVITY 50% 45% 40% 33% 30% 30% 20% 10% 55% 00% JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC © TAGGERS © RECAPTURE FISHERS CALLIDE WEEKDAY ACTIVITY	
Days fished Taggers (35) Recapture fishers (9) 2020-2024	Taggers Weekend Weekdays Recaps Weekend Weekdays	37% 63% 33% 67%	40% 39% 29% 20% 15% 10% MON TUE WED THU FRI SAT SUN BTAGGERS BRECAPTURE FISHERS	

FFFORT			
EFFORT			
Cumulative recaptures 2020-2024 TRAVEL	Year 2020 2021 2022 2023 2024	Recaps 1 1 3 1 3	CALLIDE CUMULATIVE RECAPTURES 4 3 2 1 1-jan 1-feb 1-Mair 1-Apr 1-May 1-jun 1-jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec 2020 2021 2022 2023 2024
Cumulative proxy travel distance (km) address to recapture location 2020-2024	Year 2020 2021 2022 2023 2024	Kms 422 13 1348 71 179	CALLIDE CUMULATIVE DISTANCE (KM) 1600 1200 1000 800 400 200 1-jan 1-feb 1-Mar 1-Apr 1-May 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Oec 2020 2021 2022 2023 2024
Proxy average travel distance (km) home to recapture 2020-2024	Trips Local Intrastate Interstate	9 11 287 -	RECAPTURE FISHER'S AVERAGE TRAVEL PROXY (KM) 350 250 200 100 LOCAL INTRASTATE INTERSTATE
Proxy travel distance (km) home to recapture location 2020-2024	Trips Local Intrastate Interstate	9 Range (km) 9-13 71-602 -	CALLIDE RECAPTURE FISHERS PROXY TRAVEL (KM) 700 600 400 200 100 100 100 100 100 1
DEMOGRAPHICS			
Gender of recapture fishers 2020-2024	Fishers Female Male	9 0 (0%) 9 (100%)	GENDER OF RECAPTURE FISHER 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% 2020-2024
Where recapture fishers live 2020-2024	Fishers Local Intrastate Interstate	9 2 (22%) 7 (78%) -	WHERE RECAPTURE FISHERS LIVE 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%
Where fishers recapturing fish live (red stars) Local Intrastate 2020-2024			



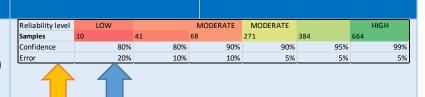
STOCKING	ACTUAL	GRAPH or MAP	
BARRAMUNDI	GOLDEN PERCH	SARATOGA	
SLEEPY COD			
Sleepy Cod Oxyeleotris lineolata			
STOCKING			
Barramundi fingerlings stocked from SIPS -2020	Fingerlings Barramundi 170,768 Golden Perch 320,290 Saratoga 301 Sleepy Cod 1,268	160000 140000 120000 100000 80000	
SPECIES TAGGED			
Species tagged 2015-2024	Tagged Barramundi 168 Golden Perch 5 Saratoga 1 Sleepy Cod 1	CALLIDE SPECIES TAGGED 180 160 140 120 100 80 60 40 20 BARRAMUNDI GOLDEN PERCH SARATOGA SLEEPY COD	

BARRAMUNDI



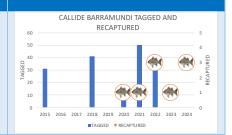
DATA RELIABILITY

Sample size (av fish/year)
Tagged (blue arrow)
Recaptures (orange arrow)
Confidence %
Error %
2020-2024



TAGGED

Barramundi Tagged Recaptured 2015-2024 Tagged Recaptured
168 9
Recapture rate
5.4%
Tagged 2024
0



LENGTHS

 Average length (mm)
 High
 Low

 Bars show length range
 Average length

 Dots show outliers
 2021
 2022

 2015-2024
 997
 776

 Max
 2021
 202

 1180
 109

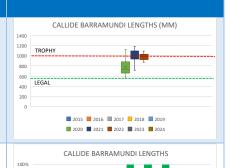
 Fish length percentage (%)
 High
 Low

 Undersize <580mm</th>
 Legal-trophy

 Legal 5800-1000mm
 2020
 202

 Trophy 1000+mm
 77%
 569

High	Low	Now	
Average length			
2021	2020	2024	
997	776	NA	
Max			
2021	2022	2024	
1180	1090	NA	
High	Low	Now	
Legal-tro	phy		
2020	2021	2024	
77%	56%	NA	
Trophy			
2021	2020	2024	
44%	8%	NA	

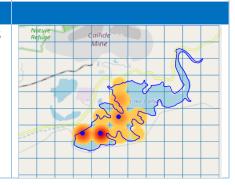


LOCATIONS

2015-2024

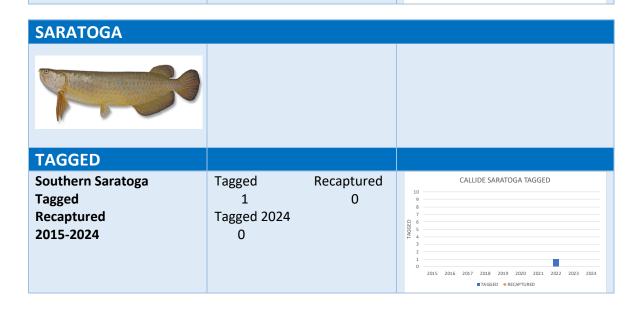
Barramundi locations 2015-2024

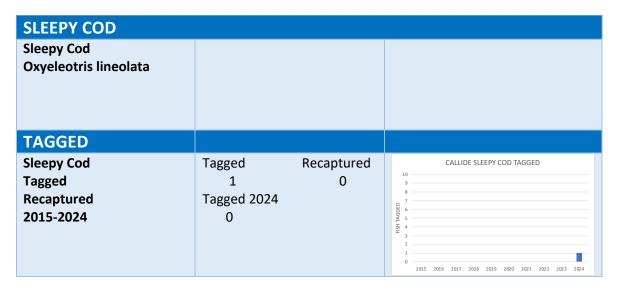
Tagged 168 Recaptured 9



2015 2016 2017 2018 2019 2020 2021 2022 2023 2024

■UNDERSIZE ■LEGAL ■TROPHY





LAKE CALLIDE FAMILY FISHING CLASSIC 2024			
Dates	26-27 October 2024		
CATCH			
Senior catch		Largest	
	Barramundi	1120	
	Golden Perch	516	
	Eeltail Catch	490	
	Sleepy Cod	400	

Data sources

Data used in the Lake Callide Crystal Bowl are:

- Tag records and recapture records for the impoundment at http://crystalbowl.infofishaustralia.com.au/.
- Dam level data from Sunwater at https://www.sunwater.com.au/water-data/historical-dam-capacity/.
- Stocked fish records and Lake Callide Family Fishing Classic competition from Callide Valley Native Fish Stocking Association.
- Rainfall records for station 039290 Biloela Valbona and temperature records for Station 039089 Thangool Airport from http://www.bom.gov.au/climate/data.

Basis for analysis

- Data reliability for fishers based on the sample size over the past 5 years for days fished by taggers and by fishers recapturing fish.
- Data reliability for fish based on average number of fish tagged and recaptured per year over the past 5 years.
- Undersized Barramundi are <580mm, legal-trophy fish are >=580 and <1000mm and trophy fish are >=1000mm. Legal fish are 580-1200mm.
- Locations based on Infofish grid map LCD for the impoundment and other grid maps where fish were recaptured outside the impoundment.
- Travel proxy distance is the distance between where the fisher lives (address, suburb, town or postcode) and the recapture location. Local <60km, intrastate Qld elsewhere, interstate other than Qld.