



## LAKE CALLIDE REVIEW 2025

### INFORMATION RATING



Stocking group: Callide Valley Native Fish Stocking Association  
 Species stocked: Barramundi, Golden Perch, Southern Saratoga, Sleepy Cod, Silver Perch  
 Stocking timeframe: 2012-2024  
 Fish timeframe: 2016-2025  
 Fisher timeframe: 2021-2025  
 DPI link: <https://www.qld.gov.au/recreation/activities/boating-fishing/rec-fishing/dams/stocked-impoundment-permits/locations/callide>  
 CVNFA link: <http://www.cvnfsa.org.au/stocking.html>  
 CVNFA Facebook: <https://www.facebook.com/cvnfsa/>

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LAKE CALLIDE LOCATION

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TYPE OF FISHERY

FISHER ACTIVITY

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FISHER TRAVEL

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KEY SPECIES

BARRAMUNDI

GOLDEN PERCH



## LAKE CALLIDE OVERVIEW

### Highlights for 2025

- There has been a low level of tagging in Lake Callide focused on Barramundi.
- This year there were 37 Barramundi tagged of which 35 were trophy fish over 1m so that should provide some useful data on large tagged fish.

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 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. Lake Callide can get to temperatures as low as 14°C making it susceptible to fish kills. 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>

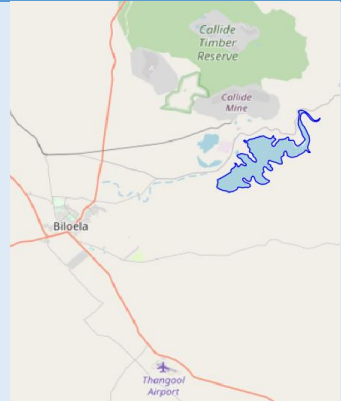

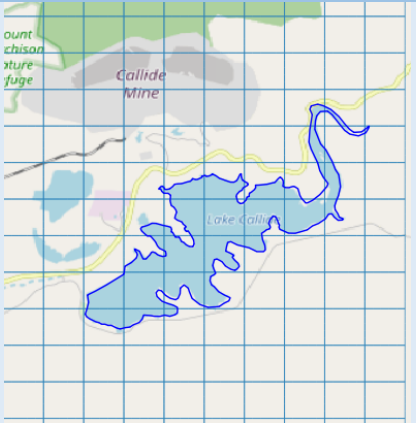
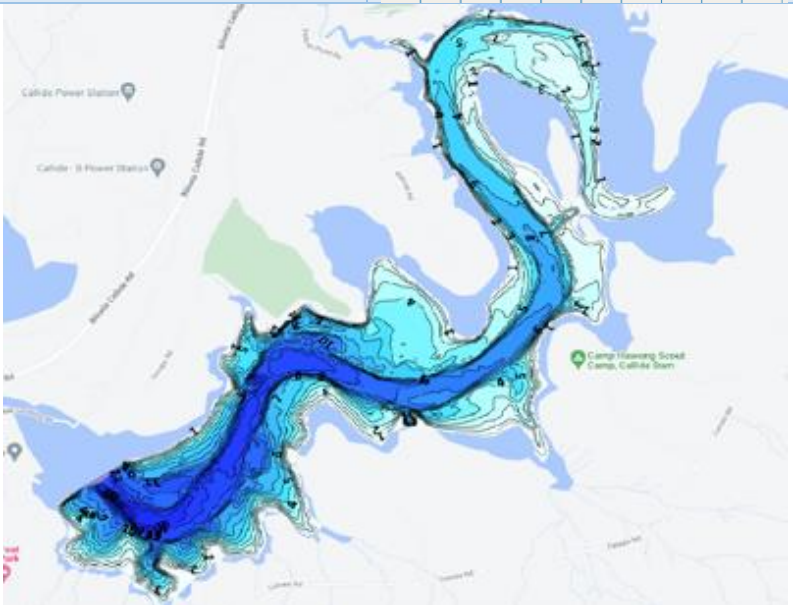
A further fish kill occurred in Sep 2022, and it was estimated that there were over 1,000 dead Barramundi, mostly large fish from 800-1200mm. However, this was only a partial kill and there may have other causes as the water temperature was not low enough to be the cause.

The lake is mostly an experiential fishery as all large Barramundi that were recaptured were released again. However, there is likely a level of harvest of mid-sized Barramundi.

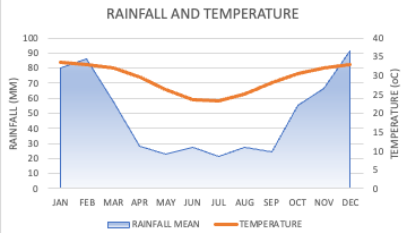
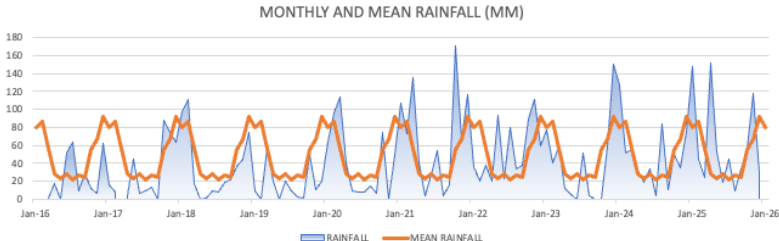
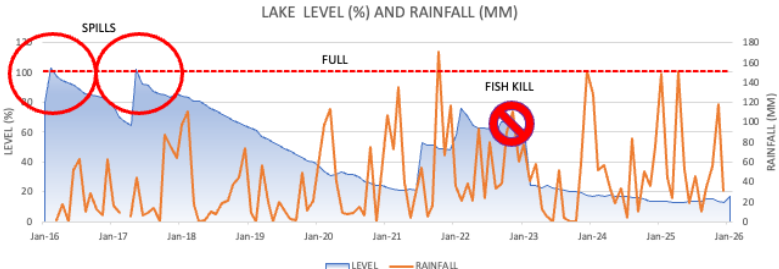

Fish tagged in 2021-2022 up to Sep 2022 were mostly large fish of a similar size to those in the fish kill. No Barramundi were tagged in 2023 and 2024 however there were 37 fish tagged this year. There were also 11 recaptures taking the recapture rate to 10.5% which is comparable with other stocked lakes.

Lake Callide was included in the Fish and SIPS fish competition in 2023 and 2024 and there have been 3 recaptures of competition fish since.

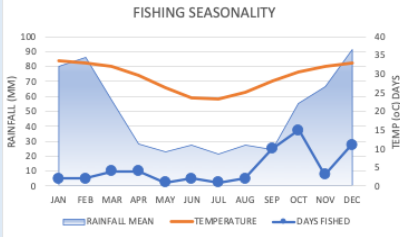
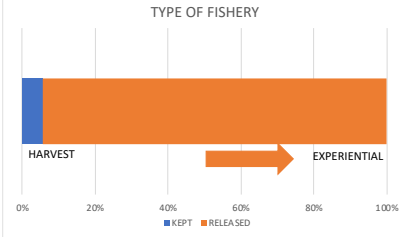
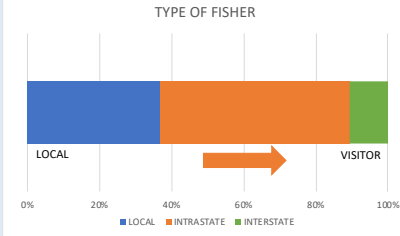
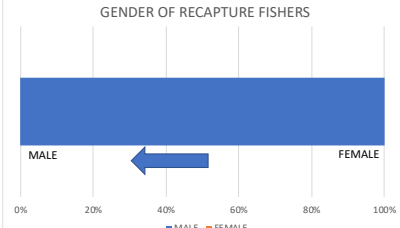


LAKE CALLIDE LOCATION		
	<p>Lake Callide</p> <p>24.36°S</p> <p>150.36°E</p>	
LAKE		
<p>Lake Callide</p> <p>Grid map</p> <p>Lake Callide LCD</p>	<p>Surface area 11.6km<sup>2</sup> at Full Surface Level</p>	
Bathymetry		

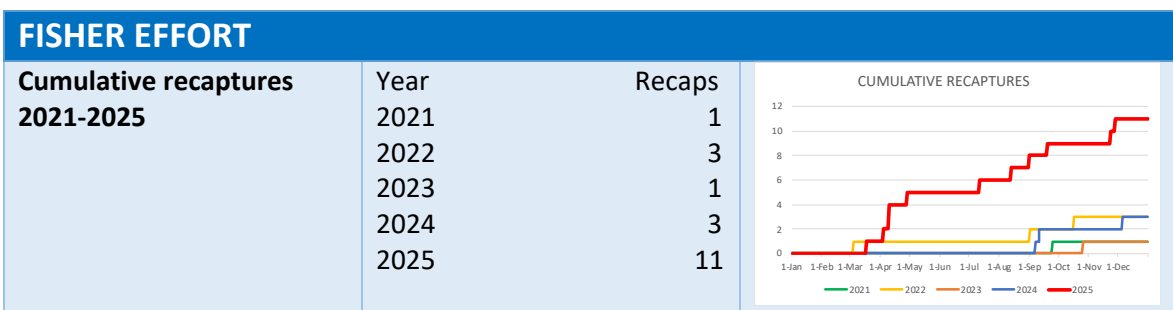
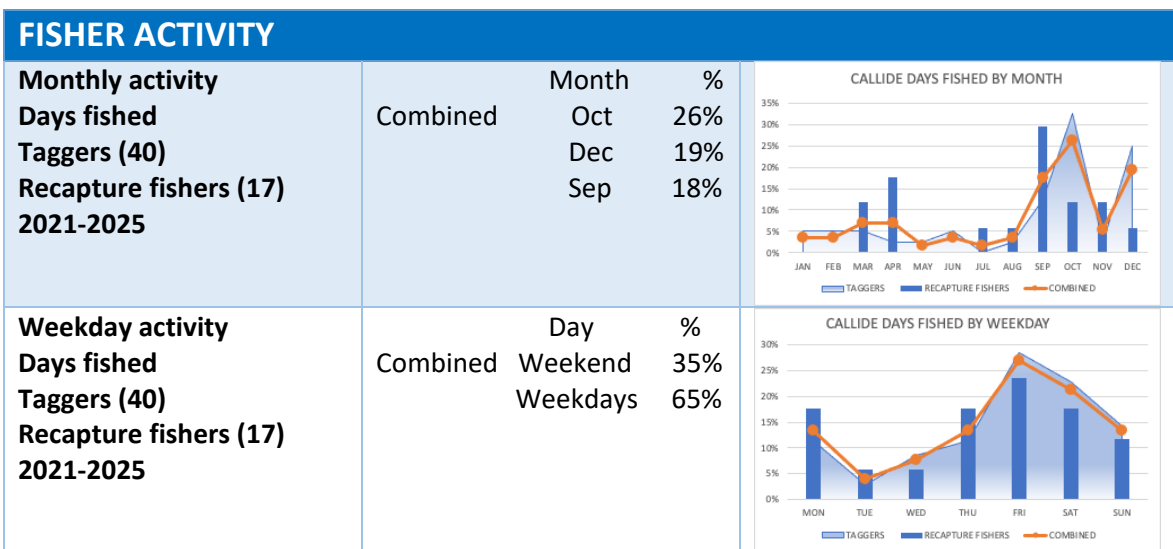


ENVIRONMENTAL CONDITIONS			
<b>Mean monthly rainfall (mm)</b>  <b>Mean monthly air temperature (oC)</b>	Rainfall	Month	mm
	Max	Dec	92
		Feb	87
	Temp	Month	oC
	Max	Jan	34
		Feb	33
		Dec	33
			
<b>Monthly rainfall (mm) and monthly mean 2016-2025</b>			
<b>Lake level 2016-2025</b> <b>Spilled 2016</b> <b>2017</b>			
<b>Fish kill Sep 2022</b> <b>Estimated &gt;1,000 fish</b> <b>Size range 800-1200mm</b>			



TYPE OF FISHERY																														
DATA RELIABILITY																														
Sample size (days fished) Days (blue arrow) Confidence % Error % 2021-2025	<table><tr><td>Reliability level</td><td>LOW</td><td colspan="2">MODERATE</td><td>MODERATE</td><td colspan="2">HIGH</td></tr><tr><td>Samples</td><td>10</td><td>41</td><td>68</td><td>271</td><td>384</td><td>664</td></tr><tr><td>Confidence</td><td>80%</td><td>80%</td><td>90%</td><td>90%</td><td>95%</td><td>99%</td></tr><tr><td>Error</td><td>20%</td><td>10%</td><td>10%</td><td>5%</td><td>5%</td><td>5%</td></tr></table> <div><div></div><div></div></div>	Reliability level	LOW	MODERATE		MODERATE	HIGH		Samples	10	41	68	271	384	664	Confidence	80%	80%	90%	90%	95%	99%	Error	20%	10%	10%	5%	5%	5%	
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Months fished Temperature Monthly days fished (taggers and recapture fishers combined) 2021-2025	Days fished 51 (low numbers)  Month Oct Sep																													
Harvest or experiential fishery Release rate of recaptured legal Barramundi 2021-2025	Barramundi legal fish kept rate Legal fish 18 Kept 1 (6%) Released 17 (94%)																													
Local or visitor fishery Where recapture fishers live 2021-2025	Recapture fishers 19 Local 7 (37%) Visitor 12 (63%)																													
Gender of recapture fishers 2021-2025	Fishers 18 Female 0 (0%) Male 18 (100%)																													

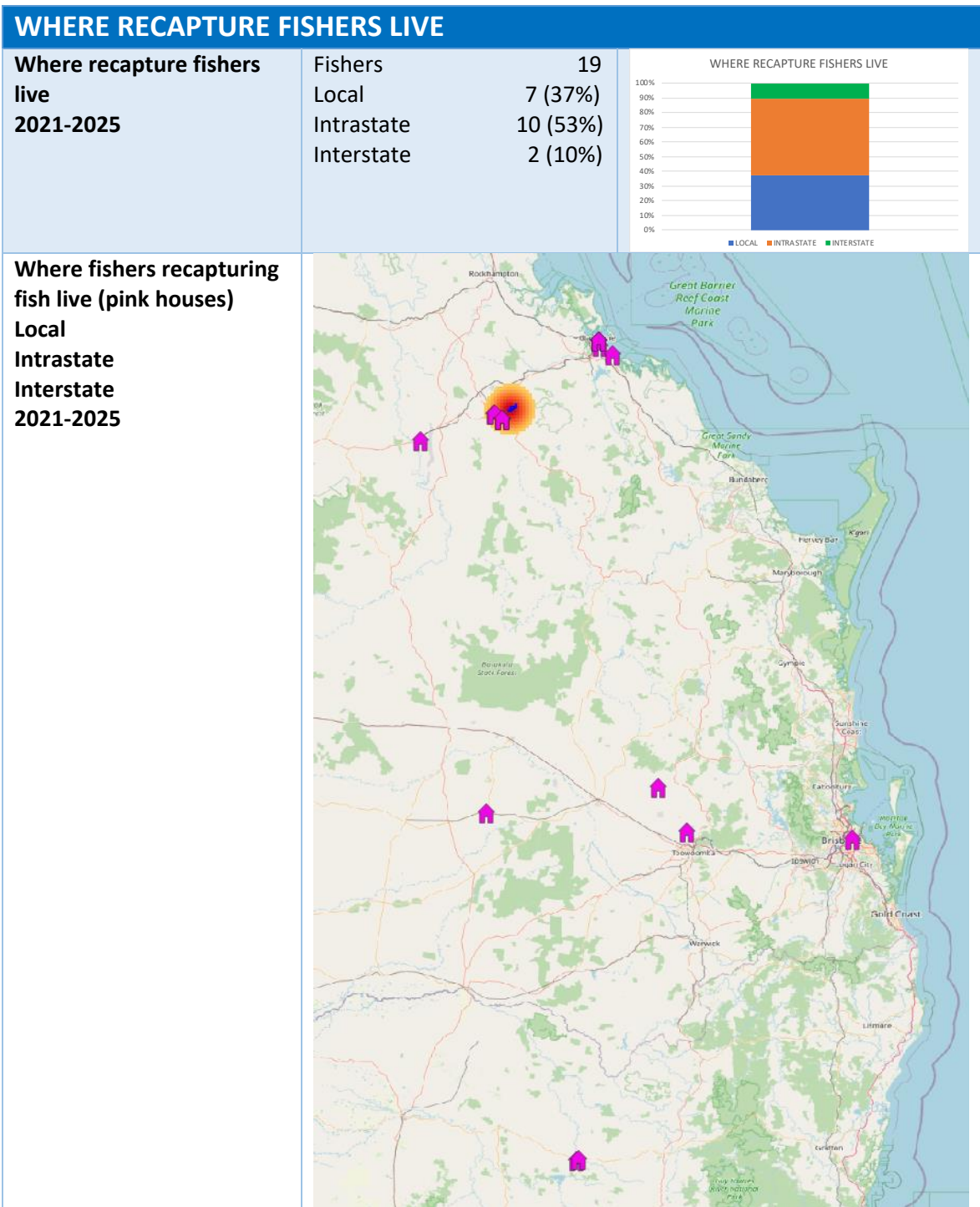









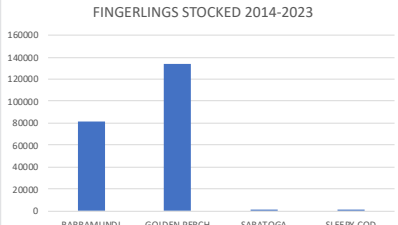
FISHER TRAVEL			
Cumulative proxy travel distance (km) home to recapture location 2021-2025			<p>CUMULATIVE PROXY TRAVEL DISTANCE (KM)</p>
Total proxy travel distance (km) home to recapture location 2021-2025	Year 2021 2022 2023 2024 2025	Kms 13 1348 71 179 1667	<p>TOTAL PROXT TRAVEL DISTANCE (KM)</p>
Proxy average travel distance (km) home to recapture location 2021-2025	Trips Local Intrastate Interstate	19 19 194 601	<p>RECAPTURE FISHER'S PROXY AVERAGE TRAVEL</p>
Proxy travel distance (km) home to recapture location 2021-2025	Trips Local Intrastate Interstate	19 Range (km) 9-71 85-423 600-602	<p>RECAPTURE FISHERS PROXY TRAVEL</p>

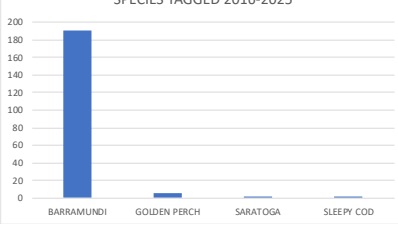





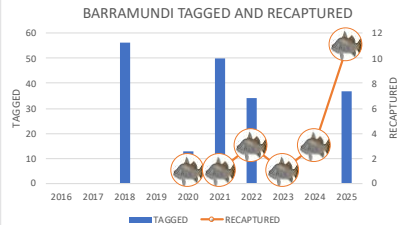


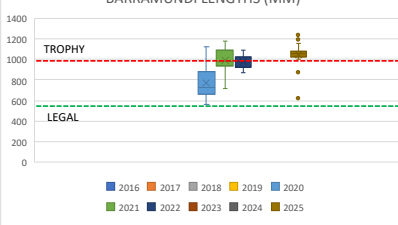
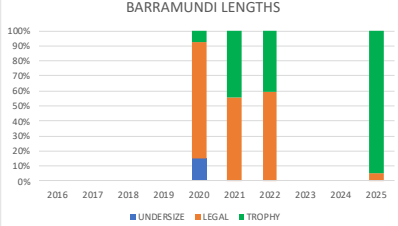
KEY SPECIES		
BARRAMUNDI	GOLDEN PERCH	SARATOGA
		
SLEEPY COD		
<b>Sleepy Cod</b> <i>Oxyeleotris lineolata</i>		

STOCKING		
<b>Barramundi fingerlings stocked from SIPS -2020</b>		
	Barramundi	Fingerlings 170,768
	Golden Perch	320,290
	Saratoga	301
	Sleepy Cod	1,268
		

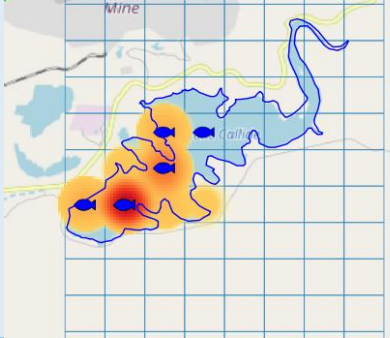
TAGGED		
<b>Fish tagged Recaptured 2016-2025</b>	High	Low
	Tagged	Now
	2018	2023
	56	0
	Recaptured	2025
<b>Species tagged 2016-2025</b>	2024	2019
	3	0
		2025
		11
		Tagged
		


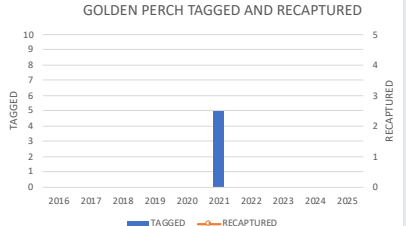



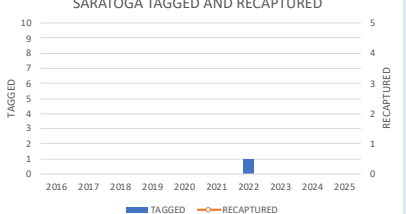
BARRAMUNDI		
		
DATA RELIABILITY		
Sample size (av fish/year)	Reliability level	LOW
Tagged (blue arrow)	Samples	10
Recaptures (orange arrow)	Confidence	80%
Confidence %	Error	20%
Error %		
2021-2025		
TAGGED		
Barramundi	Tagged	190
Tagged	Recaptured	20
Recaptured	Recapture rate	10.5%
2016-2025	Tagged 2025	37
	Recaptured 2025	11
		

LENGTHS		
Average length (mm)	High	Low
Bars show length range	Average length	Now
Dots show outliers	2021	2020
2016-2025	997	776
	Max	
	2021	2022
	1180	1090
		2025
		1240
Fish length percentage (%)	High	Low
Undersize <580mm	Legal-trophy	Now
Legal 580-1000mm	2020	2021
Trophy 1000+mm	77%	56%
2016-2025	Trophy	
	2021	2020
	44%	8%
		2025
		95%
		
		



LOCATIONS			
Barramundi locations 2016-2025	Tagged	190	
	Recaptured	20	

GOLDEN PERCH			
			
TAGGED			
Golden Perch Tagged Recaptured 2016-2025	Tagged	5	
	Recaptured Tagged 2025	0	

SARATOGA			
			
TAGGED			
Southern Saratoga Tagged Recaptured 2016-2025	Tagged	1	
	Recaptured Tagged 2025	0	



SLEEPY COD																																			
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TAGGED																																			
Sleepy Cod Tagged Recaptured 2016-2025	Tagged Recaptured Tagged 2025	1 0 0																																	
<div>SLEEPY COD TAGGED AND RECAPTURED</div> <table><thead><tr><th>Year</th><th>Tagged</th><th>Recaptured</th></tr></thead><tbody><tr><td>2016</td><td>0</td><td>0</td></tr><tr><td>2017</td><td>0</td><td>0</td></tr><tr><td>2018</td><td>0</td><td>0</td></tr><tr><td>2019</td><td>0</td><td>0</td></tr><tr><td>2020</td><td>0</td><td>0</td></tr><tr><td>2021</td><td>0</td><td>0</td></tr><tr><td>2022</td><td>0</td><td>0</td></tr><tr><td>2023</td><td>0</td><td>0</td></tr><tr><td>2024</td><td>1</td><td>0</td></tr><tr><td>2025</td><td>0</td><td>0</td></tr></tbody></table>			Year	Tagged	Recaptured	2016	0	0	2017	0	0	2018	0	0	2019	0	0	2020	0	0	2021	0	0	2022	0	0	2023	0	0	2024	1	0	2025	0	0
Year	Tagged	Recaptured																																	
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2023	0	0																																	
2024	1	0																																	
2025	0	0																																	



## 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 <80km, intrastate Qld elsewhere, interstate other than Qld.