



LAKE MONDURAN REVIEW JUNE 2025

INFORMATION RATING



Stocking group: Monduran Anglers and Stocking Association

Species stocked: Barramundi, Australian Bass

Stocking timeframe: 2014-2024

Fish timeframe: 2016-2025 Jan-Jun

Fisher timeframe: 2021-2025 Jan-Jun

DAF link: <https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=fred-haigh-dam>

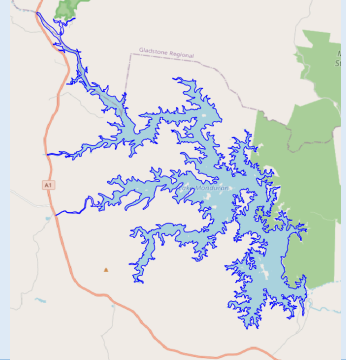
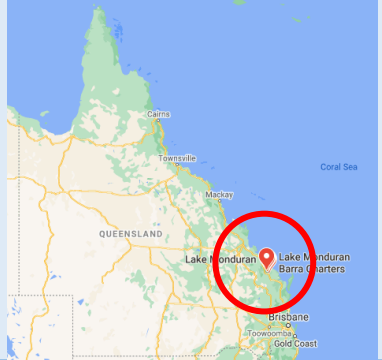
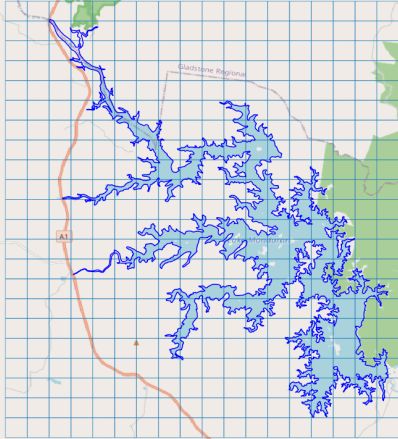
Lake Monduran has been regularly stocked with Barramundi and Australian Bass however fishing effort is largely targeted at Barramundi. From 2014-2023 there were 958,800 Barramundi and 158,600 Australian Bass fingerlings released. Very few Bass have been tagged.

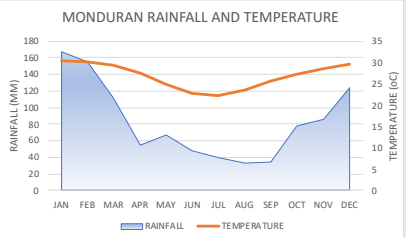

Lake Monduran is mainly fished by southern and interstate fishers as it is the first reliable Barramundi impoundment north of population centres in SEQ and NSW. Fisher activity is greatest during the warmer months with a quieter period over winter when Barramundi are harder to catch. The fishery is mostly experiential with a low harvest rate of 4% of legal Barramundi recaptured by recfishers (ex-taggers).

The lake spilled for much of 2022 which resulted in a reduction in tagging effort in the first half of year. Effort improved in the second half of the year with trophy fish over 1m being a major attractant however smaller fish between 350-450mm began to show up in the fish tagged and that continued into 2023. Since 2024 there has been just 1 fish below legal length tagged. This is partly due to live scope sounder technology that makes it easier to locate the larger Barramundi which are the preferred target, particularly for visiting fishers.

While the lake spilled in 2022 there were no recaptures of fish reported from below the dam however it was reported that fish left the lake. The lake has not spilled since then.

The recapture rate for Barramundi is around 6% which is slightly lower than the statewide rate of 7-8% and may be partly due to the size of the lake.

LAKE MONDURAN		LOCATION
	Lake Monduran 24.82°S 151.8°E	
LAKE		
Grid map Lake Monduran LMK	Surface area 53.4km ²	

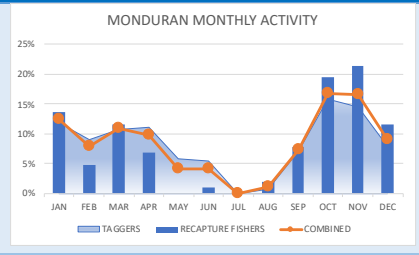
ENVIRONMENTAL																	
Mean monthly rainfall (mm) Mean monthly air temperature (oC)	<table border="1"> <thead> <tr> <th>Rainfall</th> <th>Month</th> <th>mm</th> </tr> </thead> <tbody> <tr> <td>Max</td> <td>Jan</td> <td>167</td> </tr> <tr> <td></td> <td>Feb</td> <td>155</td> </tr> <tr> <th>Temp</th> <th>Month</th> <th>oC</th> </tr> <tr> <td>Max</td> <td>Dec-Feb</td> <td>31</td> </tr> </tbody> </table>	Rainfall	Month	mm	Max	Jan	167		Feb	155	Temp	Month	oC	Max	Dec-Feb	31	
Rainfall	Month	mm															
Max	Jan	167															
	Feb	155															
Temp	Month	oC															
Max	Dec-Feb	31															
Lake level 2016-2025 Spilled 2017 2022 Jul-Nov																	

FISHERS		ACTUAL	GRAPH or MAP
DATA RELIABILITY			
Sample size (days fished)	Reliability level	LOW	MODERATE
Tag days (blue arrow)	Samples	10	41
Recaptures (orange arrow)	Confidence	80%	80%
Confidence %	Error	20%	10%
Error %			
2021-2025			
TYPE OF FISHERY			
Fishing conditions	Best Barramundi fishing		
Mean monthly rainfall (mm)	Jan-Apr		
Mean monthly temperature (oC)	Sep-Dec		
Rainfall	Most days fished	Month	
Temperature	Fishers combined	Oct	
Days fished		Nov	
Taggers and recapture fishers combined	Barramundi legal fish kept rate		
2021-2025	Legal fish	99	
2025 Jan-Jun	Kept	4 (4%)	
Harvest or experiential fishery	Released	95 (96%)	
Release rate of recaptured legal Barramundi	Local	12 (12%)	
2021-2025	Visitor	90 (88%)	
2025 Jan-Jun	Recapture fishers		
Local or visitor fishery	Fishers	97	
Where recapture fishers live	Female	1 (1%)	
2021-2025	Male	96 (99%)	
2025 Jan-Jun	Gender of recapture fishers (ex-taggers)		
2021-2025			
2025 Jan-Jun			

ACTIVITY

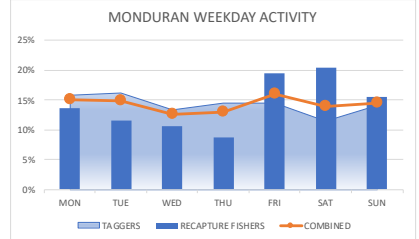
Monthly activity
Days fished
Taggers (254)
Recapture fishers (103)
2021-2025
2025 Jan-Jun

	Month	%
Taggers	Oct	16%
	Nov	15%
Recaps	Jan	12%
	Nov	21%
	Oct	19%
	Jan	14%

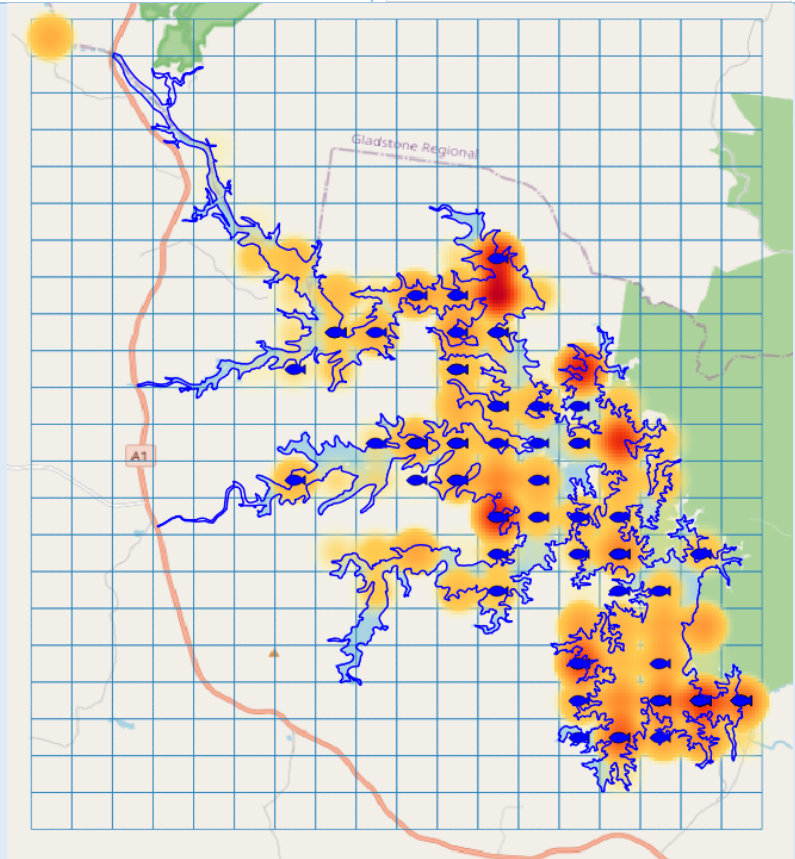


Weekday activity
Days fished
Taggers (225)
Recapture fishers (103)
2021-2025
2025 Jan-Jun

	Day	%
Taggers	Weekend	26%
	Weekdays	74%
Recaps	Weekend	36%
	Weekdays	64%

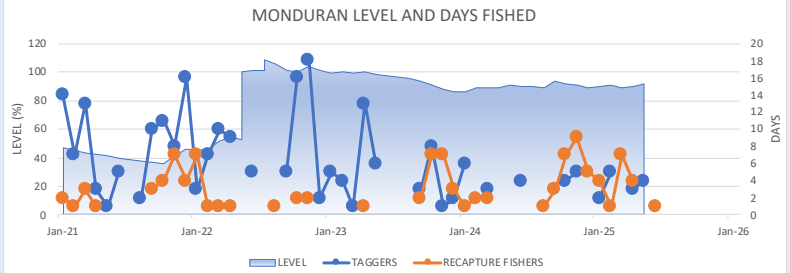


Location activity
Tagged fish (697)
(red-orange heatmap)
Recaptures (109)
(blue fish)
2021-2025
2025 Jan-Jun

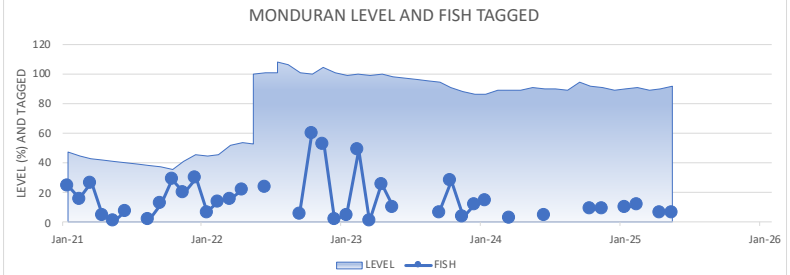


EFFORT

Lake level (%)
 Days fished
 Taggers
 Recapture fishers
 2021-2025
 2025 Jan-Jun

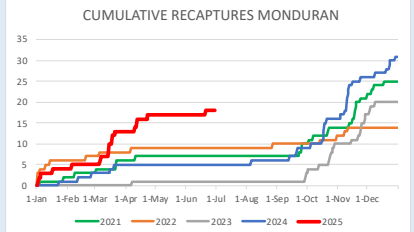


Lake level (%)
 Fish tagged
 2021-2025
 2025 Jan-Jun

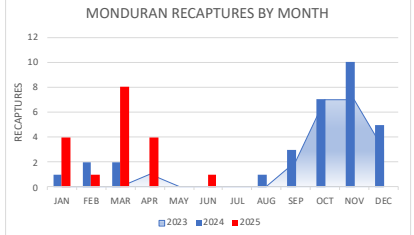


Cumulative recaptures
 2021-2025
 2025 Jan-Jun

Year	Recaptures
2021	25
2022	14
2023	20
2024	31
2025 Jan-Jun	16



Recaptures by month
 2023-2025
 2025 Jan-Jun



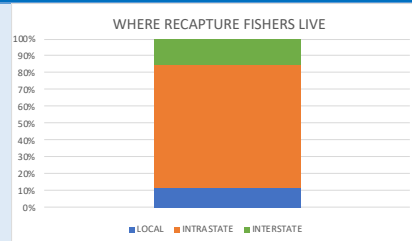
TRAVEL

<p>Cumulative proxy travel distance (km) home to recapture location 2021-2025 2025 Jan-Jun</p>	<table border="1"> <thead> <tr> <th>Year</th> <th>Distance (km)</th> </tr> </thead> <tbody> <tr> <td>2021</td> <td>6526</td> </tr> <tr> <td>2022</td> <td>2967</td> </tr> <tr> <td>2023</td> <td>7913</td> </tr> <tr> <td>2024</td> <td>10063</td> </tr> <tr> <td>2025 Jan-Jun</td> <td>11133</td> </tr> </tbody> </table>	Year	Distance (km)	2021	6526	2022	2967	2023	7913	2024	10063	2025 Jan-Jun	11133	
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<p>Proxy travel distance (km) home to recapture location Bars show distance range 2021-2025 2025 Jan-Jun</p>	<table border="1"> <thead> <tr> <th>Trips</th> <th>102</th> </tr> <tr> <th>Range (km)</th> <th></th> </tr> <tr> <td>Local</td> <td>24-58</td> </tr> <tr> <td>Intrastate</td> <td>60-1063</td> </tr> <tr> <td>Interstate</td> <td>386-3613</td> </tr> </thead></table>	Trips	102	Range (km)		Local	24-58	Intrastate	60-1063	Interstate	386-3613			
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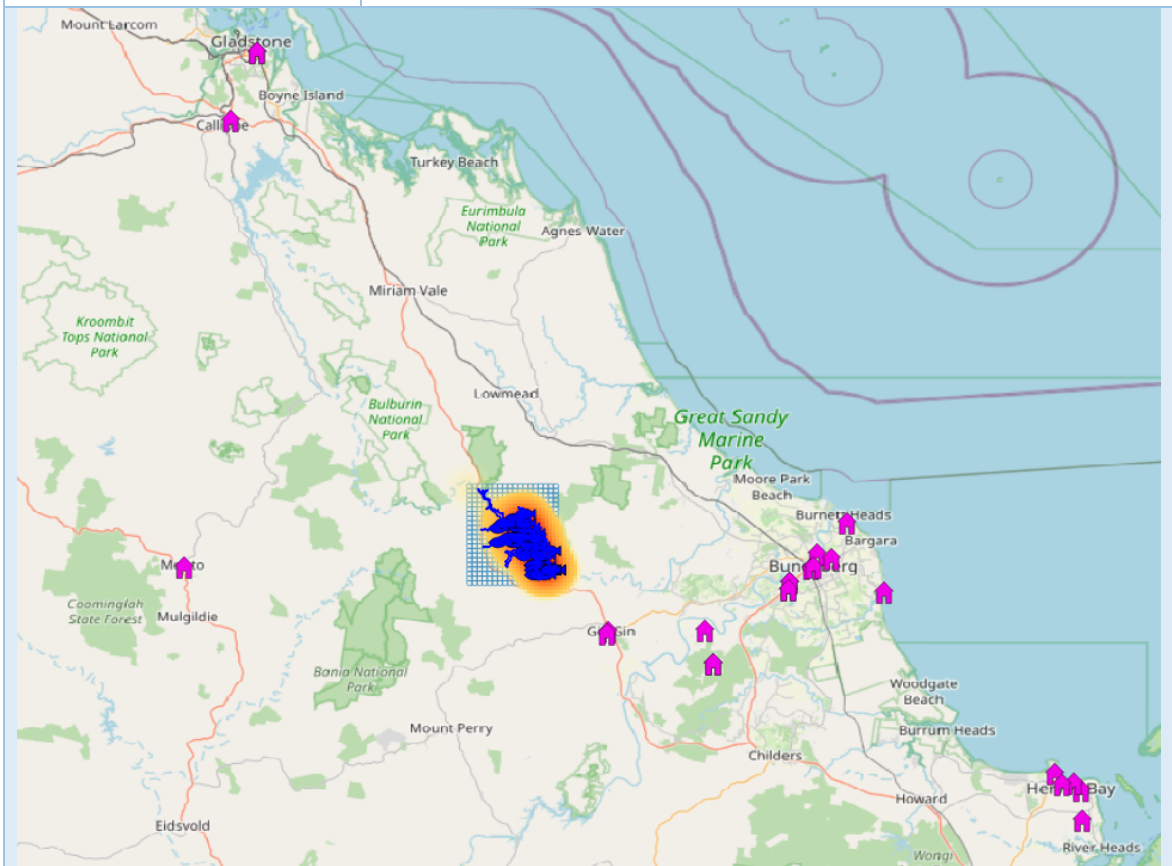
WHERE RECAPTURE FISHERS LIVE

Where recapture fishers live
2021-2025
2025 Jan-Jun

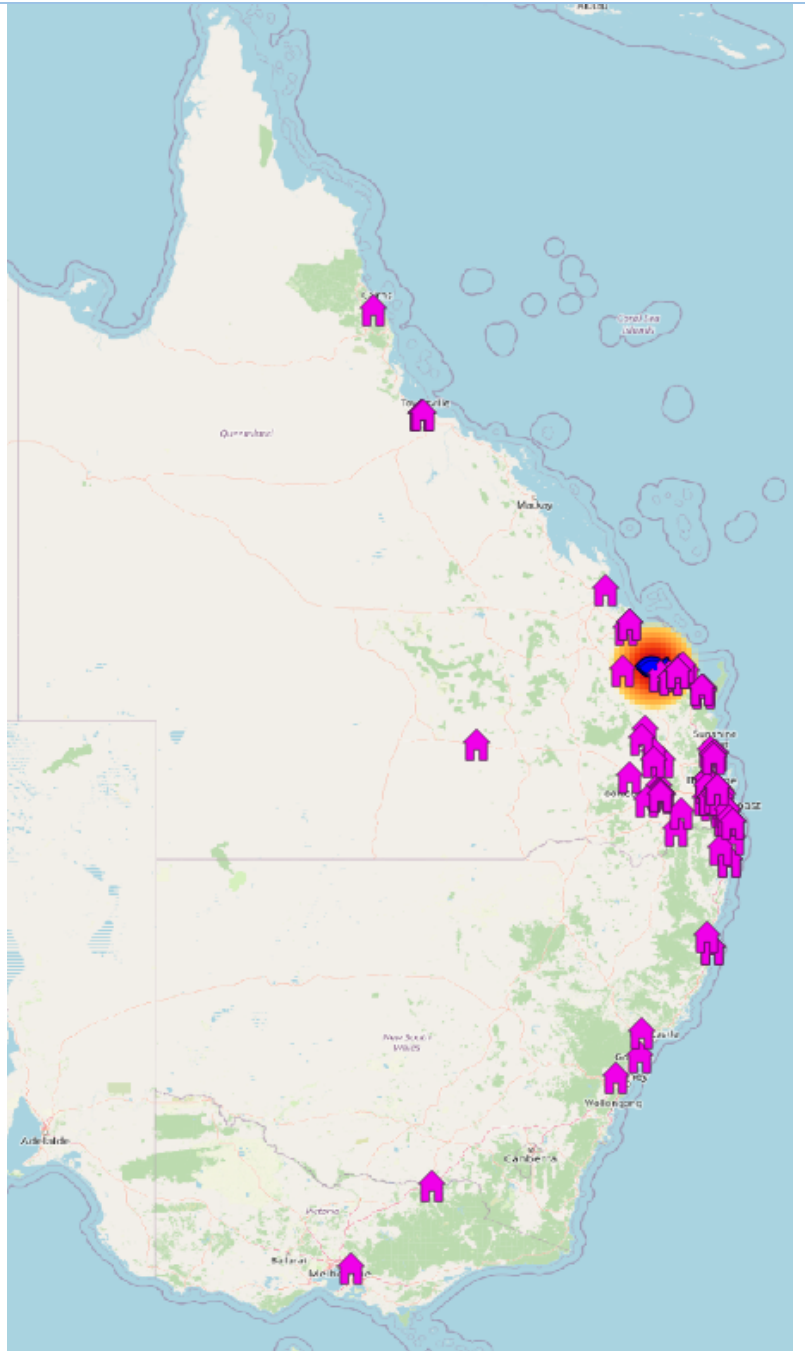
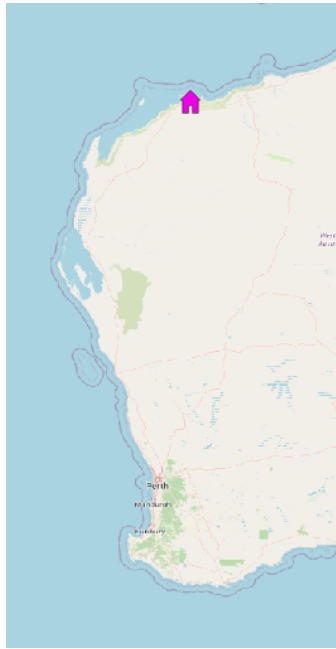
Fishers	102
Local	12 (11%)
Intrastate	74 (73%)
Interstate	16 (16%)



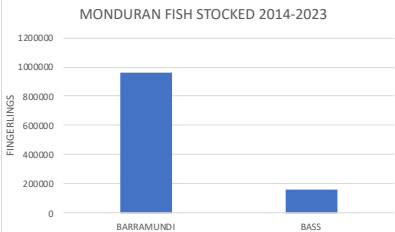
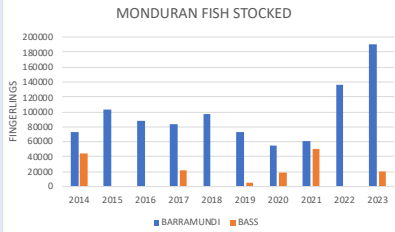
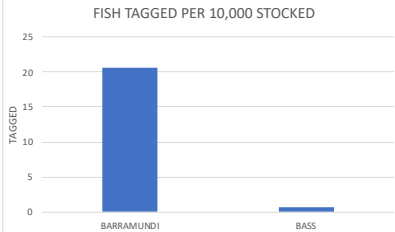
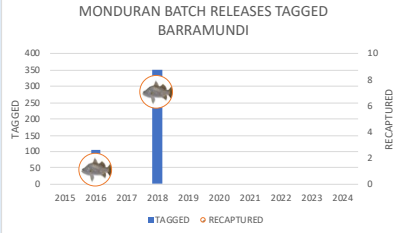


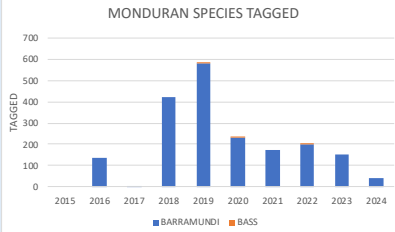
Where recapture fishers live (pink houses)
Local
Intrastate (part)
2021-2025
2025 Jan-Jun



**Where recapture fishers
live all (pink houses)**
Local
Intrastate
Interstate
(inset WA)
2021-2025
2025 Jan-Jun



FISH			
BARRAMUNDI		AUSTRALIAN BASS	
			
STOCKING			
Fingerlings stocked 2014-2023	Barramundi Bass	Fingerlings 958,800 158,600	
Fingerlings stocked 2014-2023	2023 Barramundi 2020 Bass	Most 190,000 50,000	
Fish tagged 2016-2025 2025 Jan-Jun Per 10,000 fish stocked 2014-2023	Tagged/10,000 fingerlings Barramundi Bass	21 1	
Batch releases of tagged Barramundi 2016-2018	Tagged 2016 104 2018 350	Av length 180mm 180mm	Recap 1(1.0%) 7(2.0%)
			

SPECIES TAGGED			
Species tagged 2016-2025 2025 Jan-Jun	Barramundi Bass	Tagged 1980 10	

BARRAMUNDI



DATA RELIABILITY

Sample size (days fished)
Fish tagged (blue arrow)
Recaptures (orange arrow)
Confidence %
Error %
2021-2025

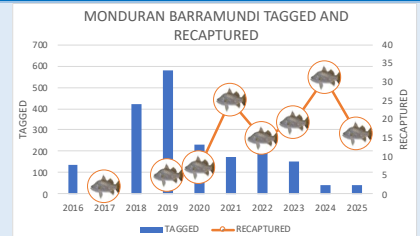
Reliability level	LOW	MODERATE	MODERATE	HIGH
Samples	10	41	68	271
Confidence	80%	80%	90%	95%
Error	20%	10%	10%	5%



TAGGED AND TAG RATE

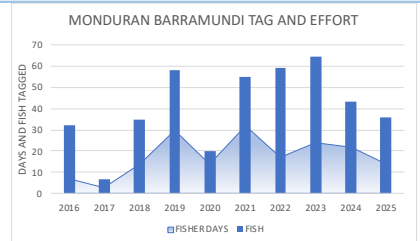
Barramundi
Tagged
Recaptured
2016-2025
2025 Jan-Jun

Tagged 1985
Recaptured 120
Recapture rate 6.1%
Tagged 2025 Jan-Jun 36



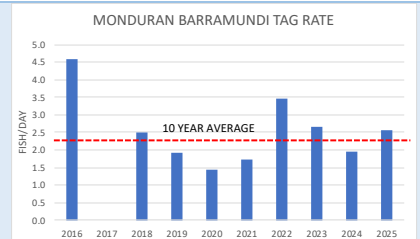
Tag and effort taggers
(ex-charter)
number of fish
tag days
2016-2025
2025 Jan-Jun

	High	Low	Now
Tagged	2022	2017	2025
Days	59	7	36
2021	2017	2025	
	32	3	14



Tag rate
Fish/fisher day
(ex-charter)
2016-2025
2025 Jan-Jun

	High	Low	Now
Tag rate	2016	2020	2025
	4.6	1.4	2.6
10 year average			2.3



LENGTHS

Tag lengths (mm) Bars show length range Dots show outliers 2016-2025 2025 Jan-Jun	<table border="1"> <thead> <tr> <th>High</th> <th>Low</th> <th>Now</th> </tr> </thead> <tbody> <tr> <td colspan="3">Average length</td> </tr> <tr> <td>2024</td> <td>2019</td> <td>2025</td> </tr> <tr> <td>857</td> <td>580</td> <td>900</td> </tr> <tr> <td colspan="3">Max</td> </tr> <tr> <td>2022</td> <td>2018</td> <td>2025</td> </tr> <tr> <td>1170</td> <td>800</td> <td>1130</td> </tr> </tbody> </table>	High	Low	Now	Average length			2024	2019	2025	857	580	900	Max			2022	2018	2025	1170	800	1130	
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Tag lengths percentage Undersize <580mm Legal 580-999mm Trophy 1000+mm 2016-2025 2025 Jan-Jun	<table border="1"> <thead> <tr> <th>High</th> <th>Low</th> <th>Now</th> </tr> </thead> <tbody> <tr> <td colspan="3">Legal-trophy</td> </tr> <tr> <td>2018</td> <td>2016</td> <td>2025</td> </tr> <tr> <td>94%</td> <td>36%</td> <td>58%</td> </tr> <tr> <td colspan="3">Trophy</td> </tr> <tr> <td>2022</td> <td>18-20</td> <td>2025</td> </tr> <tr> <td>13%</td> <td>0%</td> <td>39%</td> </tr> </tbody> </table>	High	Low	Now	Legal-trophy			2018	2016	2025	94%	36%	58%	Trophy			2022	18-20	2025	13%	0%	39%	
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Recapture lengths Undersize <580mm Legal 580-999mm Trophy 1000+mm 2021-2025 2025 Jan-Jun																							

FATE

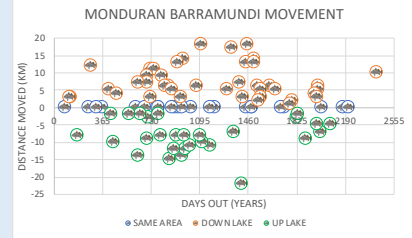
Barramundi recaptures Legal fish by recfishers (ex-taggers) Legal length 580-1200mm 2016-2025 2025 Jan-Jun	<table border="1"> <tbody> <tr> <td>Recaptures</td> <td>111</td> </tr> <tr> <td>Kept</td> <td>5 (5%)</td> </tr> <tr> <td>Released</td> <td>106 (95%)</td> </tr> </tbody> </table>	Recaptures	111	Kept	5 (5%)	Released	106 (95%)	
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GROWTH

Barramundi growth at the end of each year fish tagged <580mm 2016-2025 2025 Jan-Jun	<table border="1"> <tbody> <tr> <td>Recaptures</td> <td>42</td> </tr> <tr> <td>Growth</td> <td>mm</td> </tr> <tr> <td>Year 1</td> <td>269</td> </tr> <tr> <td>Year 2</td> <td>376</td> </tr> <tr> <td>Year 3</td> <td>438</td> </tr> <tr> <td>Longest time out (years)</td> <td>6.0</td> </tr> </tbody> </table>	Recaptures	42	Growth	mm	Year 1	269	Year 2	376	Year 3	438	Longest time out (years)	6.0	
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Growth	mm													
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MOVEMENT

Barramundi movements in lake (km) for fish tagged 2016-2025 2025 Jan-Jun



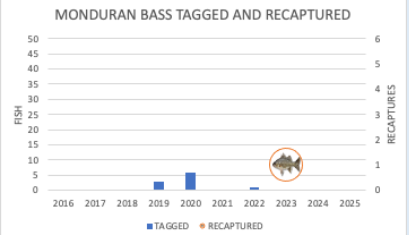
BASS



TAGGED

Bass
Tagged
Recaptured
2016-2025
2025 Jan-Jun

Tagged 10
 Recaptured 1
 Recapture rate 10%
 Tagged 2025 Jan-Jun 0



Data sources

Data used in the Lake Monduran Crystal Bowl are:

- Tag records and recapture records for the lake at <http://crystalbowl.infofishaustralia.com.au/>.
- Dam level data from Sunwater <https://www.sunwater.com.au/water-data/historical-dam-capacity/>.
- Stocked fish records from Monduran Anglers and Stocking Association.
- Rainfall and temperature records from Station 039128 Bundaberg Aero from <http://www.bom.gov.au/climate/data>.

Basis for analysis

- Catch rates calculated as number of fish tagged/fisher/day for T20 fishers (taggers) with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate.
- Undersized Barramundi are <580mm, legal fish are >=580 and <1000mm and trophy fish are >=1000mm.
- Growth calculated using logarithmic curve from recaptures where fish were out for 90 days or more and had positive growth.
- Locations based on Infofish grid map LMK for the impoundment and other grid maps where fish were recaptured outside the impoundment.
- Distance moved was the shortest distance by water between the tag and recapture location measured in Google Earth.
- 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.