



LAKE MOOGERAH REVIEW 2025

INFORMATION RATING



Stocking group: Maroon-Moogerah Fish Management Association

Species stocked: Australian Bass, Golden Perch, Silver Perch

Stocking timeframe: 2014-2023

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/moogerah>

Scroll through the dashboard to cover all subjects or for information on a specific subject go to:

LAKE MOOGERAH OVERVIEW

LAKE MOOGERAH LOCATION

ENVIRONMENTAL CONDITIONS

TYPE OF FISHERY

FISHER ACTIVITY

FISHER EFFORT

FISHER TRAVEL

WHERE RECAPTURE FISHERS LIVE

FISH STOCKING

FISH TAGGED

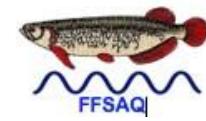
BASS

GOLDEN PERCH

SILVER PERCH



Product of Infofish Australia



Supported by Suntag and FFSAQ

LAKE MOOGERAH OVERVIEW

Highlights for 2025

- The tag rate of Bass in Moogerah remains high at 15.0 fish/day and taggers have preferred to fish there rather than other lakes where the catch rates are lower.
- Recaptures are at their highest level at 120 for the year and the recapture rate of 13.3% over the past decade suggesting the increase in activity goes beyond taggers.
- A harvest rate of legal recaptured Bass of 17% by recfishers other than taggers suggests that this is mostly an experiential fishery.

Lake Moogerah is fished all year-round with a peak in Jan and in Sep-Oct. It is mainly an experiential fishery with a low harvest rate of 17% of legal Bass by recapture fishers (ex-taggers) in the last 5 years. Given the high catch rates and feedback from fishers there is a tendency for non-taggers to release tagged fish if they see the tag.

Recaptures occur on an almost 50-50 basis on weekends and weekdays. However, taggers prefer the weekdays with 76% of fish tagged then. Avoiding the busier times on the weekends could be influencing this.

Fishers recapturing fish are a mix of local and visitors mostly living less than 100km from the lake coming from Ipswich, Brisbane, and the Scenic Rim.

The tag rate for Bass has averaged 12.9 fish/day and is 15.0 this year, however that figure has been influenced by some taggers using bait and catching large numbers of fish per day, although there have been big catch days by those using lures as well. The high tag rate has seen an increase in tagging effort while there has been a corresponding decline in tagging effort in Lake Maroon where the catch rate is much lower.

Since the 2022 spill there have been 16 recaptures below the dam. Of these 14 were recaptured in the first few kms below the dam wall while 2 fish have been recaptured in the Bremer River at Ipswich. The dam has spilled again in Dec 2024 through to Apr 2025.

The longest time out for a Bass after tagging is mostly around 12 years however 1 fish was recaptured after 26 years. This was a fish tagged in 1994 and recaptured in 2020 in Tingalpa Creek and is the longest time between tagging and recapture for a freshwater fish anywhere.

LAKE MOOGERAH LOCATION

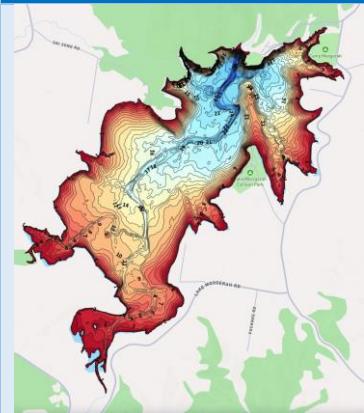


Lake Moogerah
28.05°S
152.54°E

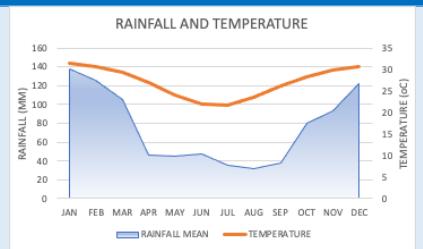
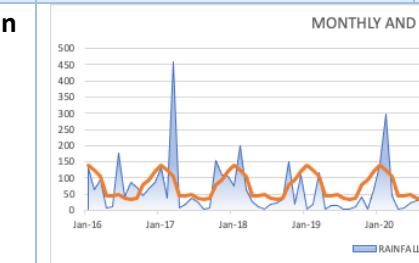
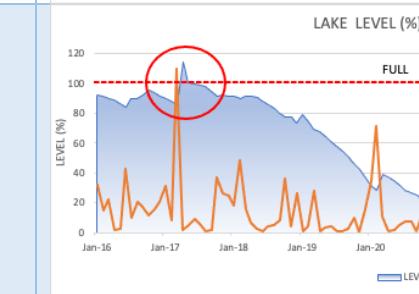


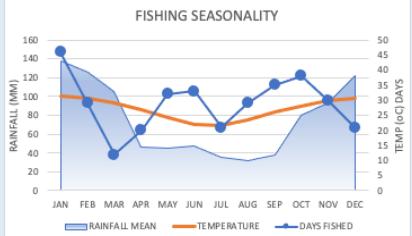
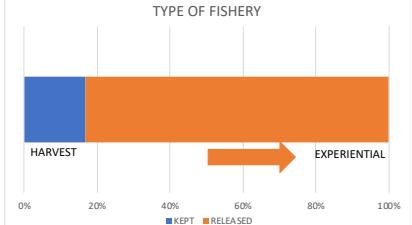
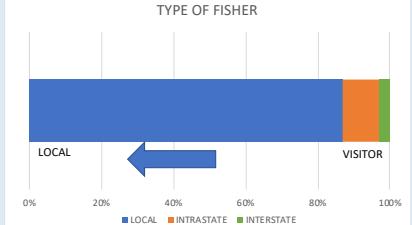
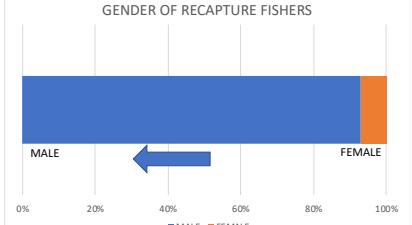
LAKE

Grid map
Lake Moogerah LMH
Surface area
8.3km²
Bathymetry



ENVIRONMENTAL CONDITIONS

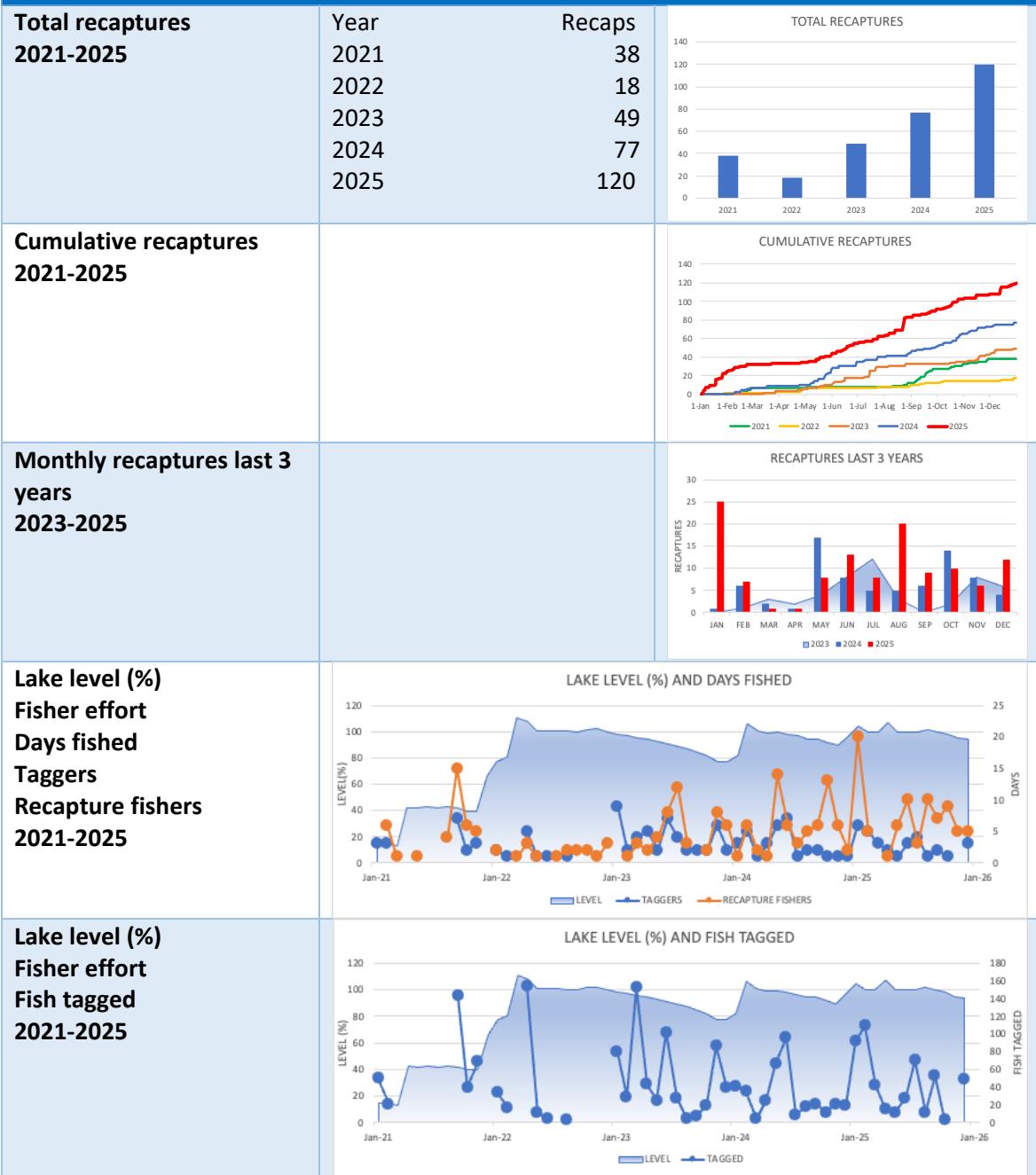
Mean monthly rainfall (mm) Mean monthly air temperature (°C)	Rainfall Max Jan 138 Temp Month oC Max Dec-Feb 31	 <p>RAINFALL AND TEMPERATURE</p> <p>This dual-axis line graph shows monthly rainfall and temperature from January 2016 to December 2025. The left y-axis represents rainfall in mm (0 to 160), and the right y-axis represents temperature in °C (0 to 35). The blue line represents mean rainfall, and the orange line represents mean temperature. The temperature shows a clear seasonal pattern with a peak in summer and a minimum in winter. Rainfall is generally higher in the winter months, with a notable peak in January 2017.</p>
Monthly rainfall and mean 2016-2025	 <p>MONTHLY AND MEAN RAINFALL (MM)</p> <p>This line graph displays monthly rainfall (blue line) and mean rainfall (orange line) from January 2016 to January 2026. The x-axis shows months from Jan-16 to Jan-26. The y-axis ranges from 0 to 500 mm. The mean rainfall line is relatively stable around 100 mm, while the monthly rainfall line shows significant seasonal variation, with major peaks in January 2017 (approx. 450 mm) and January 2024 (approx. 350 mm).</p>	
Lake level (%) Monthly rainfall (mm) 2016-2025 Recent spills 2024 Jan Feb Mar (max 106%) 2024 Dec (105%) 2025 Jan-Apr (max 118%)	 <p>LAKE LEVEL (%) AND RAINFALL (MM)</p> <p>This dual-axis line graph shows lake level (blue line) and rainfall (orange line) from January 2016 to January 2026. The x-axis shows months from Jan-16 to Jan-26. The left y-axis represents lake level in % (0 to 120), and the right y-axis represents rainfall in mm (0 to 500). A horizontal dashed red line at 100% indicates the 'FULL' capacity level. The lake level (blue line) generally stays below the full level, with a notable peak reaching nearly 100% in January 2025. The rainfall (orange line) shows significant peaks, particularly in 2017, 2022, and 2025, which correspond to the 'SPILLS' marked on the graph.</p>	

TYPE OF FISHERY																																
DATA RELIABILITY																																
Sample size (days fished) Tag days (blue arrow) Recaptures (orange arrow) Confidence % Error % 2021-2025		<table border="1"> <thead> <tr> <th>Reliability level</th> <th>LOW</th> <th>MODERATE</th> <th>MODERATE</th> <th>HIGH</th> </tr> </thead> <tbody> <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> </tbody> </table> 					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%
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%																										
Seasonality Mean rainfall (mm) temperature (oC) Days fished combined Taggers Recapture fishers 2021-2025		Fisher days	346																													
Months most effort Jan Oct Sep																																
Harvest or experiential fishery Legal fish Release rate of recaptured legal Bass 2021-2025		Bass legal fish kept rate	227																													
Kept Released		Kept	38 (17%)																													
2021-2025		Released	189 (83%)																													
Local or visitor fishery Where recapture fishers live 2021-2025		Recapture fishers	302																													
Local Visitor		Local	262 (87%)																													
2021-2025		Visitor	40 (13%)																													
Gender of recapture fisher (ex-taggers) 2021-2025		Fishers	234																													
Male Female		Male	217 (93%)																													
2021-2025		Female	17 (7%)																													

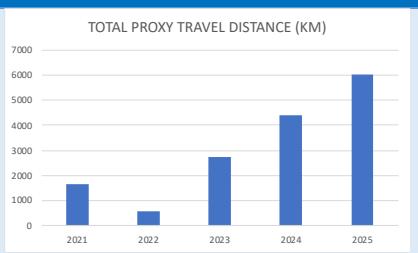
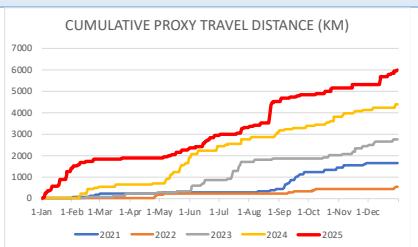
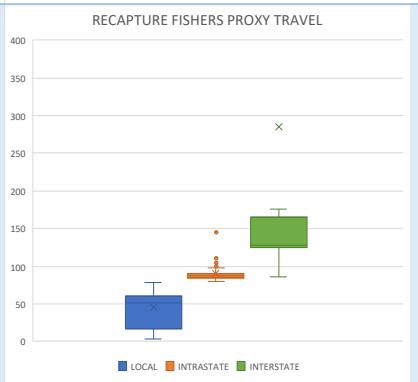
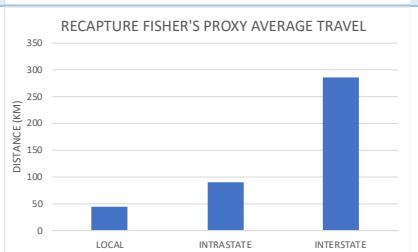
FISHER ACTIVITY

Monthly activity Days fished combined Taggers (140) Recapture fishers (209) 2021-2025	Combined Combined	Month	%	<p>MOOGERAH DAYS FISHED BY MONTH</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Taggers (%)</th> <th>Recapture Fishers (%)</th> <th>Combined (%)</th> </tr> </thead> <tbody> <tr><td>JAN</td><td>16</td><td>12</td><td>16</td></tr> <tr><td>FEB</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>MAR</td><td>4</td><td>2</td><td>4</td></tr> <tr><td>APR</td><td>2</td><td>6</td><td>2</td></tr> <tr><td>MAY</td><td>12</td><td>8</td><td>12</td></tr> <tr><td>JUN</td><td>10</td><td>8</td><td>10</td></tr> <tr><td>JUL</td><td>6</td><td>5</td><td>6</td></tr> <tr><td>AUG</td><td>8</td><td>7</td><td>8</td></tr> <tr><td>SEP</td><td>10</td><td>8</td><td>10</td></tr> <tr><td>OCT</td><td>13</td><td>7</td><td>13</td></tr> <tr><td>NOV</td><td>8</td><td>7</td><td>8</td></tr> <tr><td>DEC</td><td>6</td><td>7</td><td>6</td></tr> </tbody> </table>	Month	Taggers (%)	Recapture Fishers (%)	Combined (%)	JAN	16	12	16	FEB	8	8	8	MAR	4	2	4	APR	2	6	2	MAY	12	8	12	JUN	10	8	10	JUL	6	5	6	AUG	8	7	8	SEP	10	8	10	OCT	13	7	13	NOV	8	7	8	DEC	6	7	6
Month	Taggers (%)	Recapture Fishers (%)	Combined (%)																																																					
JAN	16	12	16																																																					
FEB	8	8	8																																																					
MAR	4	2	4																																																					
APR	2	6	2																																																					
MAY	12	8	12																																																					
JUN	10	8	10																																																					
JUL	6	5	6																																																					
AUG	8	7	8																																																					
SEP	10	8	10																																																					
OCT	13	7	13																																																					
NOV	8	7	8																																																					
DEC	6	7	6																																																					
Day	%																																																							
Weekend	38%																																																							
Weekdays	62%																																																							
Weekday activity Days fished combined Taggers (140) Recapture fishers (209) 2021-2025	Combined Combined	Day	%	<p>MOOGERAH DAYS FISHED BY WEEKDAY</p> <table border="1"> <thead> <tr> <th>Day</th> <th>Taggers (%)</th> <th>Recapture Fishers (%)</th> <th>Combined (%)</th> </tr> </thead> <tbody> <tr><td>MON</td><td>6</td><td>2</td><td>6</td></tr> <tr><td>TUE</td><td>12</td><td>15</td><td>12</td></tr> <tr><td>WED</td><td>10</td><td>10</td><td>10</td></tr> <tr><td>THU</td><td>8</td><td>11</td><td>8</td></tr> <tr><td>FRI</td><td>12</td><td>16</td><td>12</td></tr> <tr><td>SAT</td><td>20</td><td>22</td><td>20</td></tr> <tr><td>SUN</td><td>22</td><td>18</td><td>22</td></tr> </tbody> </table>	Day	Taggers (%)	Recapture Fishers (%)	Combined (%)	MON	6	2	6	TUE	12	15	12	WED	10	10	10	THU	8	11	8	FRI	12	16	12	SAT	20	22	20	SUN	22	18	22																				
Day	Taggers (%)	Recapture Fishers (%)	Combined (%)																																																					
MON	6	2	6																																																					
TUE	12	15	12																																																					
WED	10	10	10																																																					
THU	8	11	8																																																					
FRI	12	16	12																																																					
SAT	20	22	20																																																					
SUN	22	18	22																																																					
Day	%																																																							
Day	%																																																							
Day	%																																																							
Location activity Tagged fish (red-orange heat map) Recaptures (blue fish) 2021-2025	Tagged Recaptured	2030		<p>MOOGERAH</p> <p>Little Moogerah, Moogerah, Mt. Alford</p>																																																				
		306																																																						
		2030																																																						
		306																																																						

FISHER EFFORT



FISHER TRAVEL

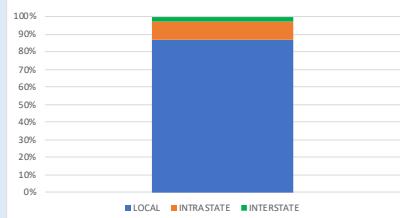
Total distance (km) home to recapture location 2021-2025	Year 2021 2022 2023 2024 2025	Km 1659 567 2755 4375 6008	
Distance (km) home to recapture Local Intrastate 2021-2025	Cumulative distance (km) home to recapture location 2021-2025		
Distance (km) home to recapture location Local Intrastate Interstate 2021-2025	Trips Range (km) Local 4-79 Intrastate 80-145 Interstate 86-1388* *not shown on graph	302	
Average distance (km) home to recapture location Local Intrastate Interstate 2021-2025	Trips Average distance (km) Local 45 Intrastate 90 Interstate 286	302	

WHERE RECAPTURE FISHERS LIVE

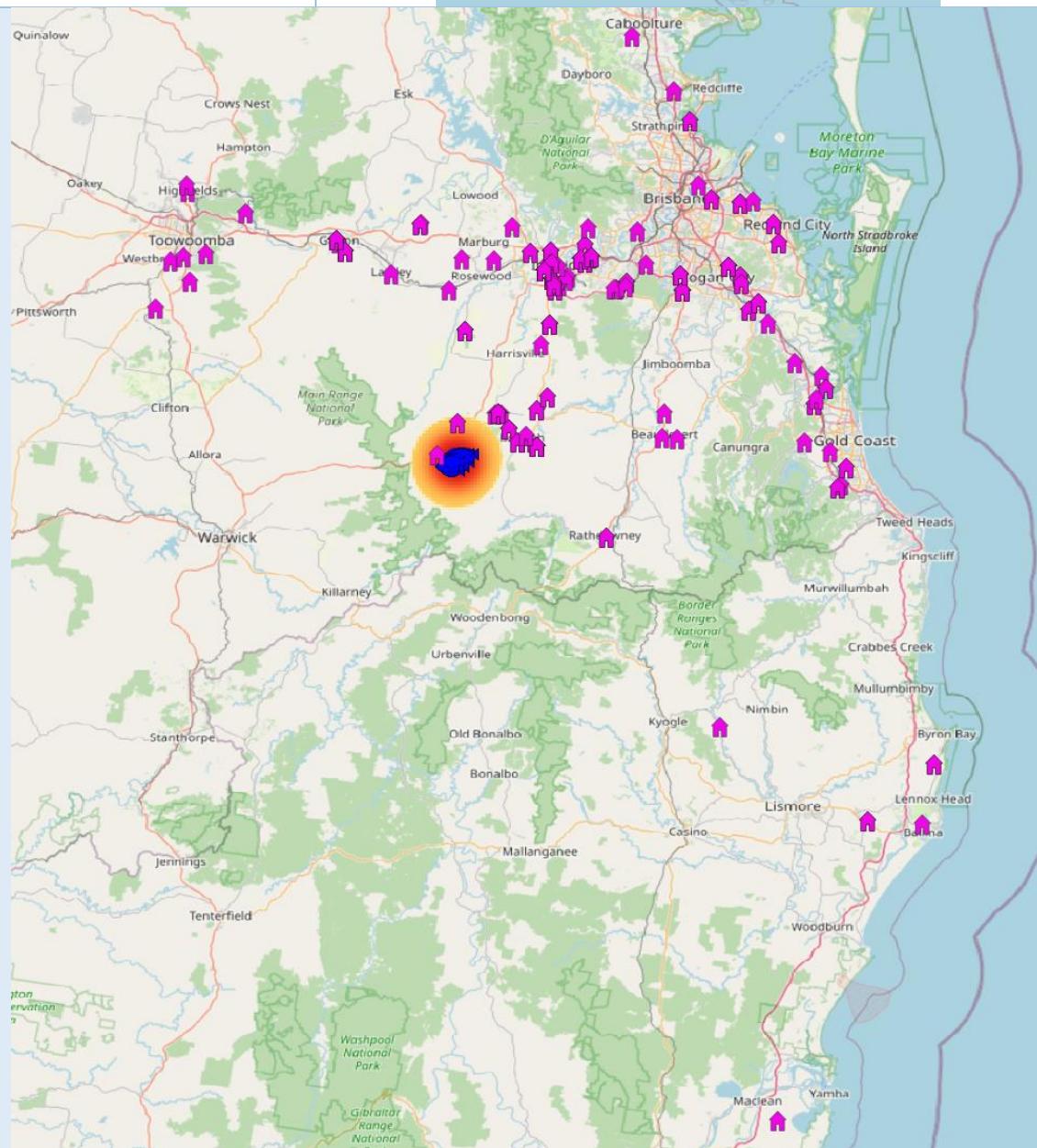
Where recapture fishers live
2021-2025

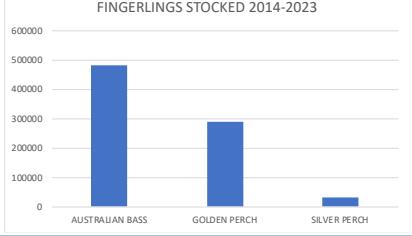
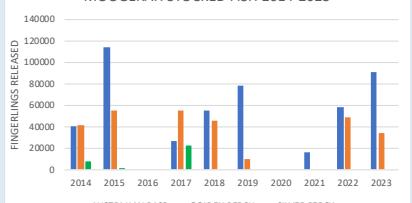
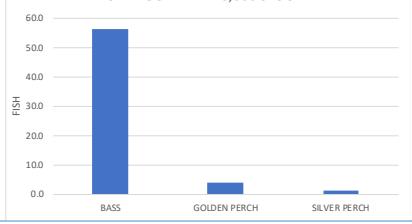
Fishers	302
Local	262 (87%)
Intrastate	32 (11%)
Interstate	8 (3%)

WHERE RECAPTURE FISHERS LIVE



Lake Moogerah
Where fishers recapturing fish live (pink houses)
Local
Intrastate
Interstate
2021-2025



FISH STOCKING																																																														
AUSTRALIAN BASS	GOLDEN PERCH	SILVER PERCH																																																												
																																																														
STOCKING																																																														
Fingerlings stocked 2014-2023	Bass Golden Perch Silver perch	Fingerlings 481,687 290,713 31,768																																																												
Fingerlings stocked by year 2014-2023	Able to be tagged from 2016-2025																																																													
Fish tagged 2016-2025 per 10,000 fish stocked 2014-2023	Tagged/10,000 fingerlings Bass 56 Golden Perch 4 Silver Perch 1	 <p>FINGERLINGS STOCKED 2014-2023</p> <table border="1"> <thead> <tr> <th>Fish</th> <th>Number of Fingerlings</th> </tr> </thead> <tbody> <tr> <td>AUSTRALIAN BASS</td> <td>481,687</td> </tr> <tr> <td>GOLDEN PERCH</td> <td>290,713</td> </tr> <tr> <td>SILVER PERCH</td> <td>31,768</td> </tr> </tbody> </table>  <p>MOOGERAH STOCKED FISH 2014-2023</p> <table border="1"> <thead> <tr> <th>Year</th> <th>AUSTRALIAN BASS</th> <th>GOLDEN PERCH</th> <th>SILVER PERCH</th> </tr> </thead> <tbody> <tr> <td>2014</td> <td>~40,000</td> <td>~35,000</td> <td>~10,000</td> </tr> <tr> <td>2015</td> <td>~115,000</td> <td>~45,000</td> <td>~10,000</td> </tr> <tr> <td>2016</td> <td>~10,000</td> <td>~10,000</td> <td>~10,000</td> </tr> <tr> <td>2017</td> <td>~10,000</td> <td>~45,000</td> <td>~10,000</td> </tr> <tr> <td>2018</td> <td>~10,000</td> <td>~45,000</td> <td>~10,000</td> </tr> <tr> <td>2019</td> <td>~10,000</td> <td>~10,000</td> <td>~10,000</td> </tr> <tr> <td>2020</td> <td>~10,000</td> <td>~10,000</td> <td>~10,000</td> </tr> <tr> <td>2021</td> <td>~10,000</td> <td>~10,000</td> <td>~10,000</td> </tr> <tr> <td>2022</td> <td>~10,000</td> <td>~45,000</td> <td>~10,000</td> </tr> <tr> <td>2023</td> <td>~10,000</td> <td>~45,000</td> <td>~10,000</td> </tr> </tbody> </table>  <p>FISH TAGGED PER 10,000 STOCKED</p> <table border="1"> <thead> <tr> <th>Fish</th> <th>Number of Fish Tagged</th> </tr> </thead> <tbody> <tr> <td>BASS</td> <td>56</td> </tr> <tr> <td>GOLDEN PERCH</td> <td>4</td> </tr> <tr> <td>SILVER PERCH</td> <td>1</td> </tr> </tbody> </table>	Fish	Number of Fingerlings	AUSTRALIAN BASS	481,687	GOLDEN PERCH	290,713	SILVER PERCH	31,768	Year	AUSTRALIAN BASS	GOLDEN PERCH	SILVER PERCH	2014	~40,000	~35,000	~10,000	2015	~115,000	~45,000	~10,000	2016	~10,000	~10,000	~10,000	2017	~10,000	~45,000	~10,000	2018	~10,000	~45,000	~10,000	2019	~10,000	~10,000	~10,000	2020	~10,000	~10,000	~10,000	2021	~10,000	~10,000	~10,000	2022	~10,000	~45,000	~10,000	2023	~10,000	~45,000	~10,000	Fish	Number of Fish Tagged	BASS	56	GOLDEN PERCH	4	SILVER PERCH	1
Fish	Number of Fingerlings																																																													
AUSTRALIAN BASS	481,687																																																													
GOLDEN PERCH	290,713																																																													
SILVER PERCH	31,768																																																													
Year	AUSTRALIAN BASS	GOLDEN PERCH	SILVER PERCH																																																											
2014	~40,000	~35,000	~10,000																																																											
2015	~115,000	~45,000	~10,000																																																											
2016	~10,000	~10,000	~10,000																																																											
2017	~10,000	~45,000	~10,000																																																											
2018	~10,000	~45,000	~10,000																																																											
2019	~10,000	~10,000	~10,000																																																											
2020	~10,000	~10,000	~10,000																																																											
2021	~10,000	~10,000	~10,000																																																											
2022	~10,000	~45,000	~10,000																																																											
2023	~10,000	~45,000	~10,000																																																											
Fish	Number of Fish Tagged																																																													
BASS	56																																																													
GOLDEN PERCH	4																																																													
SILVER PERCH	1																																																													

FISH TAGGED

Tagged Days fished 2016-2025	High	Low	Now	
	Tagged 2023	2016	2025	
Tag rate Fish/day 2016-2025	High	Low	Now	
	Fish/day 2022	2016	2025	
Tagged Recaptured 2016-2025	High	Low	Now	
	Tagged 2023	2016	2025	
Species tagged 2016-2025	High	Low	Now	
	Species tagged 2024	2017	2025	

BASS



DATA RELIABILITY

Sample size (fish/year)

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

Tagged (blue arrow)

Recaptures (orange arrow)

Confidence %

Error %

2021-2025



TAGGED AND TAG RATE

Bass

Tagged 2719

Tagged

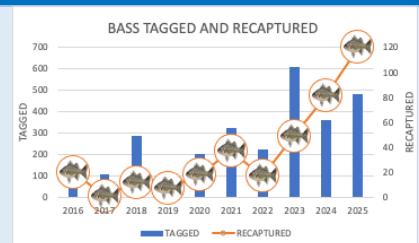
Recaptured 362

Recaptured

Recapture rate 13.3%

2016-2025

Tagged 2025 480



Tag and effort

High Tag Low Now

Taggers

2023 2016 2025

Days fished

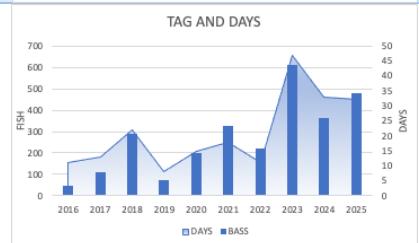
610 49 480

Fish tagged

2023 2019 2025

2016-2025

Effort 47 8 32



Tag rate

High Tag rate Low Now

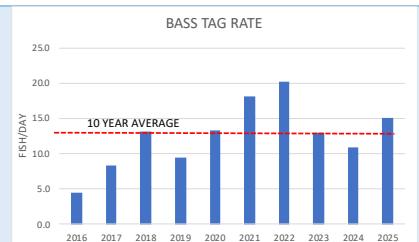
Fish/day

2022 2016 2025

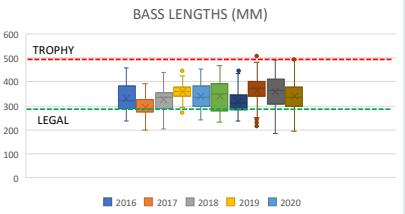
2016-2025

20.2 6.2 15.0

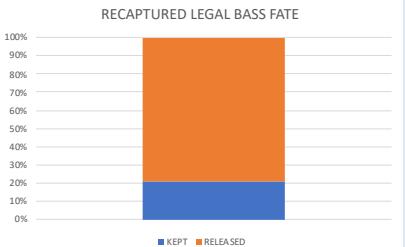
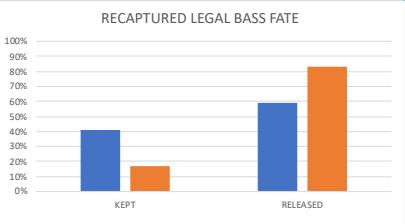
10 year average 12.9



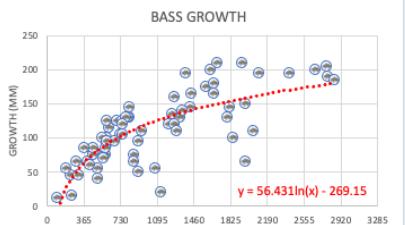
LENGTHS

Average length (mm) Bars show length range Dots show outliers 2016-2025	High	Low	Now		
	Average length				
	2023	2017	2025		
	366	292	345		
Largest 2023 510		2017	2025		
2023 510		395	500		
Fish length percentage (%) Undersize <300mm Legal 300-499mm Trophy 500+mm 2016-2025	High	Low	Now		
	Legal				
	2019	2017	2025		
	92%	40%	80%		
	Trophy 1 trophy fish only in 2023 and 2025				

FATE

Legal Bass recaptures kept and released by recfishers (ex-taggers) Legal length 300mm 2016-2025	Recaptures	273	
	Kept	57 (21%)	
Legal Bass recaptures kept and released by recfishers (ex-taggers) 2016-2020 2021-2025	Released	216 (79%)	
	2016-2020	27 (59%)	
	2021-2025	189 (83%)	

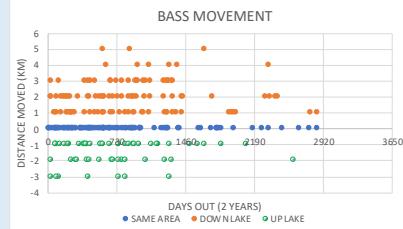
GROWTH

Bass growth Fish tagged <300mm Recaptured 2016-2025	Recaptures	69	
	Annual growth (mm)		
	Year 1	64	
	Year 2	103	
	Year 3	126	
	Year 4	142	
	Year 5	155	

SURVIVAL

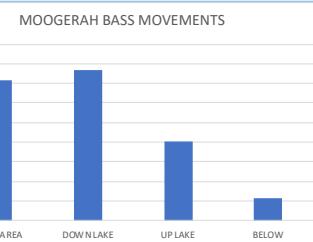
MOVEMENT

Bass movement
In lake
2016-2025



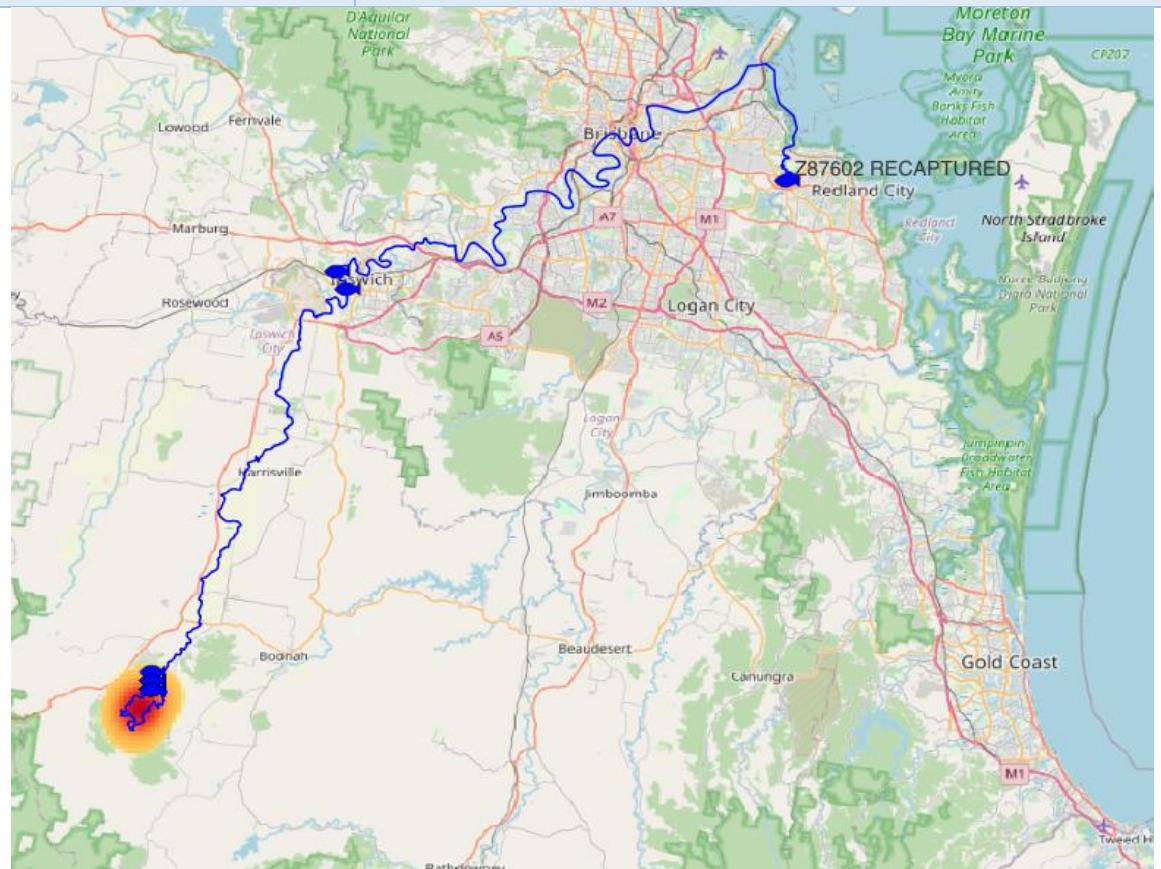
Bass movement
In lake
Below lake
2016-2025

Recaptures	286
Same area	102 (36%)
Down lake	110 (38%)
Up lake	58 (20%)
Below lake	16 (6%)

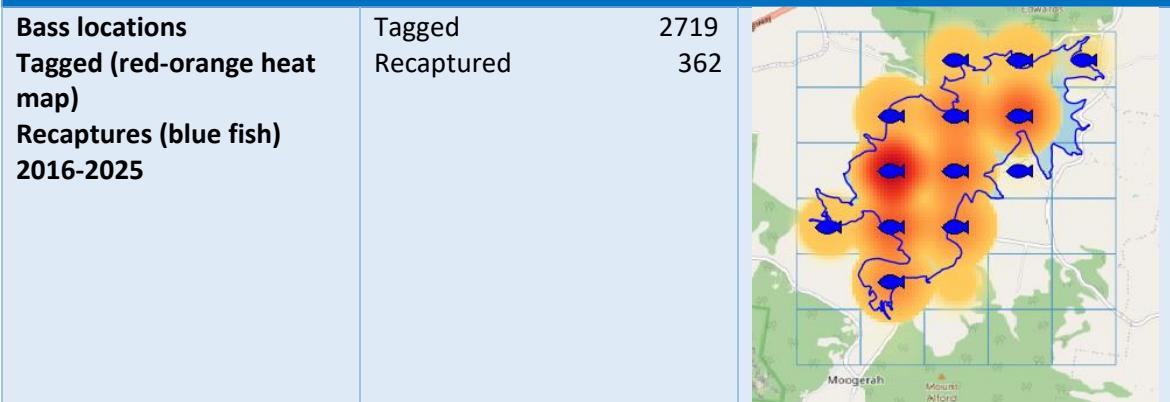


Bass recaptured
Below lake
Immediately below
Bremer River
Tingalpa Creek
2016-2025

16 Longest time out for a tagged Bass Z87602
 Tagged 29/1/1994 265mm Lake Moogerah
 13 Recaptured 9/2/2020 390mm Tingalpa Creek
 2 Time at liberty 9,507 days (26 years)
 1 Moved 190km



LOCATIONS



GOLDEN PERCH



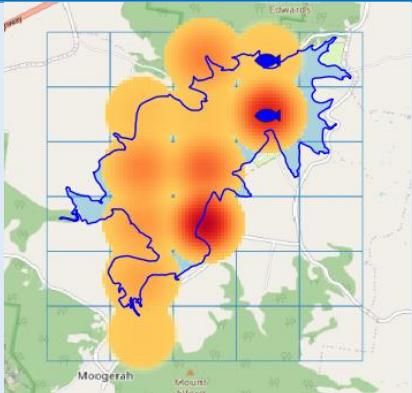
TAGGED AND TAG RATE

Golden Perch Tagged Recaptured 2016-2025	Tagged	114	
	Recaptured	2	
	Recapture rate	1.8%	
	Tagged 2025	7	
Tag and effort taggers Fish tagged Days fished 2016-2025	High	Low	
	Tagged	2020	
	2018	2025	
	56	0	
Catch rate Fish/day 2016-2025	Days	2019	
	2023	2025	
	47	8	
	10 year average	0.8	

LENGTHS

Average length (mm) Bars show length range Dots show outliers 2016-2025	Average length		
	2016	2018	
	390	389	
	Largest		
Fish length percentage (%) Undersize <300mm Legal 300-499mm Trophy 500+mm 2016-2025	2016	2018	
	100%	98%	
	Trophy		
	No trophy fish any year		

LOCATIONS

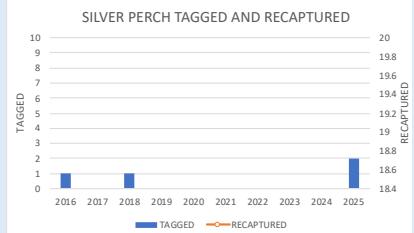
Golden Perch locations Tagged (red-orange heat map) Recaptures (blue fish) 2016-2025	Tagged Recaptures In lake Below lake	114 1 1	
---	---	---------------	--

SILVER PERCH



TAGGED

Silver Perch	Tagged	4
Tagged	Recaptured	0
Recaptured	Recapture rate	0%
2016-2025	Tagged 2025	2



Data sources

Data used in the Lake Moogerah Crystal Bowl are:

- Tag records and recapture records for the lake at <http://crystalbowl.infofishaustralia.com.au/>.
- Dam level data from SEQwater at <https://www.seqwater.com.au/historic-dam-levels>.
- Stocked fish records from Fisheries Queensland and from <https://www.data.qld.gov.au/dataset/queensland-freshwater-fish-stocking-records/>.
- Bathymetric data from Infofish surveys.
- Rainfall records from Station 040139 Mt Alford and temperature records from Station 040983 Beaudesert Drumley Street 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.
- Catch rates calculated as number of fish tagged/day for T20 fishers (taggers) with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate.
- Undersized Bass are <300mm, legal fish are ≥ 300 and <500mm and trophy fish are ≥ 500 mm.
- Growth calculated using logarithmic curve from recaptures where fish were less than 300mm when tagged, were out for 90 days or more and had positive growth.
- Locations based on Infofish grid map LMH for the impoundment and other grid maps where fish were recaptured outside the impoundment.
- Survival rates are calculated based on a model that uses the reduction in the numbers of recaptures each year after tagging.
- 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.