



LAKE MAROON REVIEW JUNE 2025

INFORMATION RATING



Stocking group: Maroon-Moogerah Fish Management Association

Species stocked: Australian Bass, Golden Perch, Silver Perch, Mary River Cod

Stocking timeframe: 2014-2023 Fish timeframe: 2016-2025 Fisher timeframe: 2021-2025

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

Lake Maroon boat ramp was closed from 20/2/2025 – 20/6/2025 due to civil works to improve dam amenities.

Lake Maroon has been regularly stocked with Australian Bass, Golden Perch, Silver Perch and Mary River Cod. While Bass and Golden Perch have been stocked in high numbers the ratio of fish tagged is 62 Bass to 2 Golden Perch for every 10,000 fingerlings stocked.

Based on recaptures Lake Maroon is mostly fished by locals and those living within 100km coming from Ipswich, Brisbane, Gold Coast and the Scenic Rim and is mostly an experiential fishery with a low-moderate harvest level.

It is fished year-round with a slight drop in activity over winter. It is fished throughout the week with greatest activity over the weekend with 54% of recaptures occurring on weekends. However taggers prefer the weekdays with 72% of fish tagged then. Avoiding the busier times on the weekends could be influencing this.

The tag rate for Bass remained consistently high from 2016-2023 at an average of 8-10 fish/day however fell to 5.5 in 2024. Reports from fishers supported the fall in catch rate. As the lake was closed for a large part of the first half of this year there have not been enough days fished to provide a reliable tag rate. However the fall in catch rates has resulted in some tagger effort shifting to other lakes such as Wivenhoe and Moogerah where the catch rates are higher.

Despite Lake Maroon reaching 118% in Mar 2025, it doesn't spill like other lakes. No fish have been recorded as being caught outside the lake over the entire period of tagging.

The longest time out for a Bass after tagging is mostly around 13 years however 1 fish was recaptured after 19.4 years.



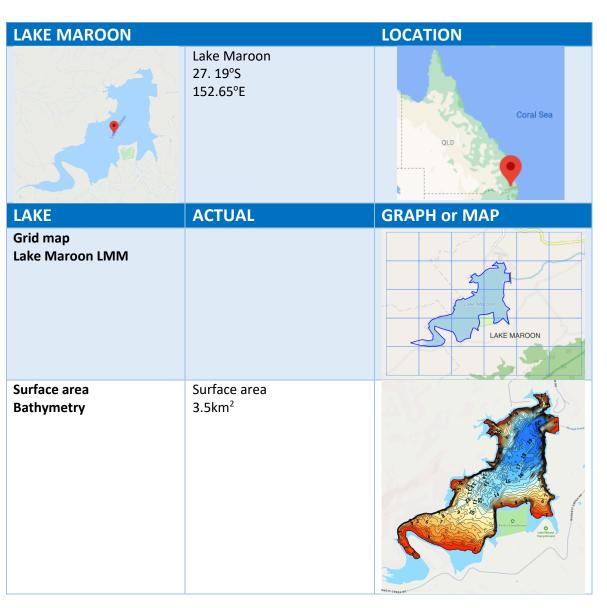


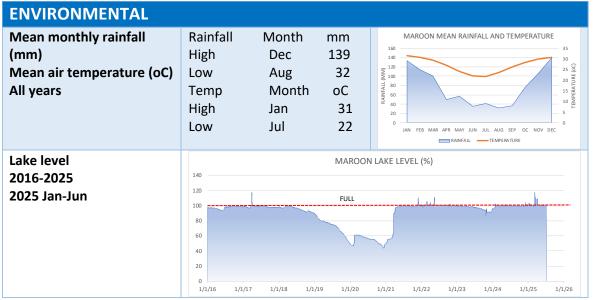




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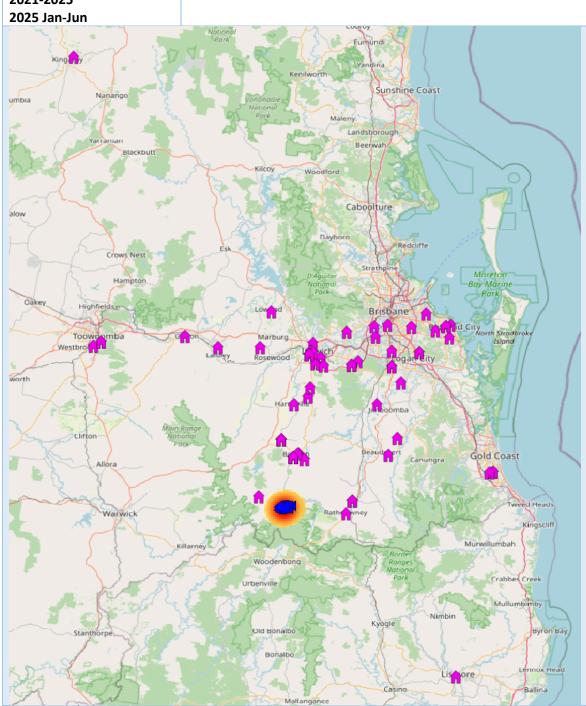
FISHERS	ACTUAL	GRAPH or MAP
DATA RELIABILITY		
Sample size (days fished) Tag days (blue arrow) Recaptures (orange arrow) Confidence % Error % 2021-2025	Reliability level LOW Samples 10 41 6 Confidence 80% 80% Error 20% 10%	MODERATE MODERATE 384 664 90% 90% 95% 99% 10% 5% 5% 5%
TYPE OF FISHERY		
Seasonality Mean rainfall (mm) and temperature (oC) Days combined (224) Taggers Recapture fishers 2021-2025	Months most fished Fishers combined Nov Oct Feb	MAROON FISHING SEASONALITY 160 140 120 140 15 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC RAINFALL TEMPERATURE DAYS FISHED
Harvest or experiential Harvest rate of recaptured legal Bass by recfishers (ex-taggers) 2021-2025 2025 Jan-Jun	Bass legal fish harvest rate Legal fish 69 Kept 11 (16%) Released 58 (84%)	TYPE OF FISHER HARVEST 0% 20% 40% 60% 80% 100% ■ KEPT ■ RELEASED
Local or visitor fishery Where recapture fishers live 2021-2025 2025 Jan-Jun	Recapture fishers Local 38 (46%) Visitors 45 (54%)	TYPE OF FISHER VISITOR O% 20% 40% 60% 80% 100% BLOCAL INTRASTATE INTERSTATE
Recapture fishers by gender (ex-taggers) 2021-2025 2025 Jan-Jun	Recaptures 74 Male 72 (97%) Female 2 (3%)	GENDER OF RECAPTURE FISHERS MALE FEMALE O% 20% 40% 60% 80% 100%

ACTIVITY			
Monthly activity Days fished Taggers (105) Recapture fishers (81) 2021-2025 2025 Jan-Jun	Month Taggers Apr Feb Jan Recap fishers Oct May	% 14% 13% 12% 17% 10%	MAROON ACTIVITY BY MONTH 20% 18% 12% 10% 14% 22% 10% 1AN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC TAGGERS RECAPTURE FISHERS COMBINED
Monthly activity Recaptures 2023-2025 2025 Jan-Jun	Maroon was closed from 20/2/2025-20/6/2025 No recaptures	n	MAROON RECAPTURES 10 9 8 7 CLOSED JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 10 10 10 10 10 10 10 10 10 1
Weekday activity Days fished Taggers (105) Recapture fishers (81) 2021-2025 2025 Jan-Jun	Taggers Weekend Weekdays Recaps Weekend Weekdays	% 28% 72% 46% 54%	MAROON ACTIVITY BY WEEKDAY 25% 20% 15% 10% MON TUE WED THU FRI SAT SUN TAGGERS RECAPTURE FISHERS COMBINED
Location activity Tagged (red-orange heat map) Recaptures (blue fish) 2021-2025 2025 Jan-Jun	Tagged Recaptured	892 85	99



TRAVEL			
Cumulative proxy travel distance (km) home to recapture location 2021-2025 Jan-Jun	Year 2021 2022 2023 2024 2025 Jan-Jun	Km 642 1095 1760 714 226	MAROON CUMULATIVE DISTANCE (KM) 1800 1600 1600 1600 1600 1600 1600 160
Distance (km) home to recapture location by year 2021-2025 2025 Jan-Jun			DISTANCE HOME TO RECAPTURE LOCATION (KM) 500 450 450 250 200 150 100 50 201 2021 2022 2023 2024 2025
Distance (km) home to recapture location Local Intrastate Interstate 2021-2025 2025 Jan-Jun	Trips Rang Local Intrastate Interstate	83 ge (km) 11-55 60-200 93	HOME TO RECAPTURE LOCATION (KM 200 180 160 140 120 80 80 60 40 20 LOCAL MINTRASTATE MINTERSTATE
Average distance (km) Home to recapture location Local Intrastate Interstate 2021-2025 2025 Jan-Jun	Trips Average distance (km Local Intrastate Interstate	83) 26 78 93	HOME TO RECAPTURE LOCATION AVERAGE DISTANCE (KM) 90 80 70 60 40 30 20 10 LOCAL INTRASTATE INTERSTATE

WHERE RECAPTURE FISHERS LIVE Where recapture fishers Recapture fishers 83 WHERE RECAPTURE FISHERS LIVE Local 38 (46%) 2021-2025 Intrastate 44 (53%) 2025 Jan-Jun Interstate 1 (1%) ■LOCAL ■INTRASTATE ■INTERSTATE Lake Maroon Recapture fishers (83) Where recapture fishers live 2021-2025 2025 Jan-Jun



STOCKING			
AUSTRALIAN BASS	GOLDEN PERCH		SILVER PERCH
Fingerlings stocked	Finger	_	FINGERLINGS STOCKED 2014-2023
2014-2023	Golden Perch 183 Silver Perch 2!	9,182 3,063 5,529	250000
Fingerlings stocked each year 2014-2023	Able to be tagged from 2016-2025		MAROON STOCKED FISH 70000 90 90 90 10000 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 MAUSTRALIAN BASS © GOLDEN PERCH SISLVER PERCH
Fish tagged 2016-2025 per 10,000 fish stocked 2014-2023	Tagged/10,000 finger Bass Golden Perch Silver Perch	lings 62 2 1	FISH TAGGED PER 10,000 STOCKED 70.0 60.0 50.0 40.0 20.0 10.0 BASS GOLDEN PERCH SILVER PERCH
Species tagged 2016-2025 2025 Jan-Jun	Bass Golden Perch Silver Perch	gged 1539 40 2 1581	MAROON SPECIES TAGGED 350 300 250 250 2010 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

AUSTRALIAN BASS



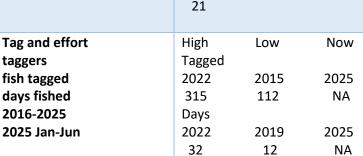
DATA RELIABILITY

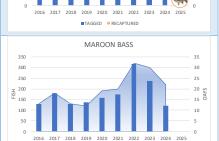
Sample size (fish/year)
Tagged (blue arrow)
Recaptures (orange arrow)
Confidence %
Error %
2021-2025

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%
			1			

TAGGED AND TAG RATE

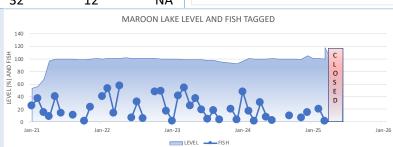
Bass tagged and	Tagged	Recaptured		
recaptured	1539	167		
2016-2025	Recapture rate			
2025 Jan-Jun	10.9%			
	Tagged 2025 Jan-Jun			
	24			



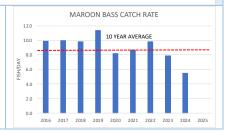


MAROON BASS TAGGED AND RECAPTURED

Tag and effort
taggers
fish tagged
lake level
2016-2025
2025 Jan-Jun



Tag rate	High	Low	Now
Fish/day	2019	2024	2025
2016-2025	11.4	5.5	NA
2025 Jan-Jun			
	10 year	average	8.8
		_	

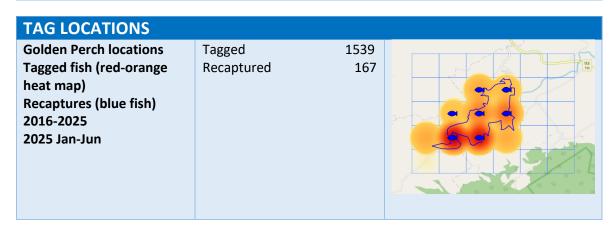


LENGTHS				
Average length (mm)	High	Low	Now	MAROON BASS LENGTHS (MM)
Bars show length range	Average	length		TROPHY
Dots show outliers	2022	2018	2025	400
2016-2025	338	296	304	200 LEGAL
2025 Jan-Jun	Largest			100
	2021	2018	2025	2016 2017 2018 2019 2020
	555	395	360	2021 2022 2023 2024 2025
Fish length percentage (%)	High	Low	Now	MAROON BASS LENGTHS
Undersize <300mm	Legal			100% 90%
Legal 300-499mm	2022	2018	2025	70%
Trophy 500+mm	90%	52%	60%	50% 40%
2016-2025	Trophy			20% 10%
2025 Jan-Jun	2021	2023	2025	0% 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
	1%	0%	0%	■UNDERSIZE ■LEGAL ■TROPHY

FATE			
Recfishers (ex-taggers) legal Bass kept or released Legal length 300mm 2016-2025 2025 Jan-Jun	Recaptures Kept Released	137 22 (16%) 115 (84%)	RECAPTURED LEGAL BASS FATE 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0% 2016-2025

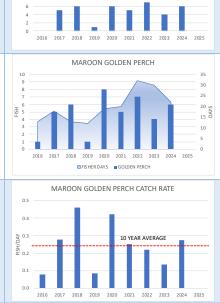
GROWTH			
Bass growth based on recaptures at end of each year at liberty 2016-2025 2025 Jan-Jun	Recaptures Annual growth (mr Year 1 Year 2 Year 3 Year 4 Year 5	55 n) 30 50 61 69 75	MAROON BASS GROWTH 180 y = 28.073ln(x) - 135.34 100 100 0 365 730 1095 1460 1825 2190 2555 2920 DAYS OUT (YEARS)
MOVEMENT Bass movements 2016-2025 2025 Jan-Jun	Recaptures Same area Down lake Up lake Outside lake	87 54 (62%) 24 (28%) 9 (10%) 0	MAROON BASS MOVEMENTS 5 4 3 8 937 10 11 11 11 11 11 11 11 11 11 11 11 11

SURVIVAL		
Bass survival based on recaptures by years out after tagging All years	Survival rate by years out Year Recaptures 1 254 5 94 10 53 13 2	MAROON RECAPTURES BY YEAR 300 250 90 10 10 10 10 10 10 10 10 10 10 10 10 10
Survival rates each year after tagging All years	Average survival each year 0.75 (75%) Range 0.66-0.81 Longest time out (years) 19.4	MAROON BASS TAG SURVIVAL 1.00 0.90 0.80 0.70 0.60 0.50 0.40 0.30 0.20 0.20 0.00



GOLDEN PERCH	ACTUAL	GRAPH or MAP

TAGGED AND TAG RA	TE			
Golden Perch tagged and recaptured 2016-2025 2025 Jan-Jun	Tagged 40 Recaptu 0% Tagged 2		captured 0	MAROON GOLDEN PERCH TAGGED 20 18 16 16 19 12 21 21 21 21 21 21 21 21 21 21 21 21
Catch and effort taggers number of fish fisher days 2016-2025 2025 Jan-Jun	High Tagged 2022 7 Days 2022 32	2016 1 2019 12	Now 2025 NA 2025 NA	MAROON GOLDEN PERCH 10 9 8 7 6 6 6 7 8 9 8 9 8 9 8 9 8 9 9 9 9
Tag rate Fish/day 2016-2025 2025 Jan-Jun	High 2018 0.5 10 year a	Low 2016 0.1 average	Now 2025 NA 0.2	MAROON GOLDEN PERCH CATCH RATE 0.5 0.4 VO 0.3 10 YEAR AVERAGE 0.1 0.0



LENGTHS			
Average length (mm)	Fish	40	MAROON GOLDEN PERCH LENGTHS (MM)
Bars show length range	Average length	429	TROPHY
Dots show outliers	Largest	560	500
2016-2025			300 LEGAL
2025 Jan-Jun			200
			0
			■ 2016-2025

TAG LOCATIONS			
Golden Perch locations Tagged fish (red-orange heat map) Recaptures (none) 2016-2025 2025 Jan-Jun	Tagged Recaptured	40 0	

SILVER PERCH	ACTUAL		GRAPH or MAP
TAGGED			
Silver Perch tagged and recaptured 2016-2025 2025 Jan-Jun	Tagged 2 Recapture rate 0%	Recaptured 0	MAROON SILVER PERCH TAGGED 10 9 8 7 6 9 5 5 10 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

Data sources

Data used in the Maroon Crystal Bowl are:

- Tag records and recapture records for the impoundment 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/.
- Rainfall data from Station 040677 Maroon Dam and temperature data from Station 040983 Beaudesert Drumley Street from http://www.bom.gov.au/.
- Bathymetric data from Infofish surveys.

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/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 fish are <300mm, legal fish are >=300 and <500mm and trophy fish are >=500mm.
- 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 LMM 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.
- Recapture fisher's residence Local <60km (1 hour travel), intrastate elsewhere Qld, interstate not Qld.