



LAKE BAROON REVIEW JUNE 2025

INFORMATION RATING



Stocking group: Ewen Maddock Fish Management Inc

Species: Australian Bass, Mary River Cod, Eeltail Catfish (not stocked)

Stocking timeframe: 2014-2022 Fish timeframe: 2016-2025 Jan-Jun Fisher timeframe: 2021-2025 Jan-Jun

DPI link: https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=baroon-pocket-dam
https://www.facebook.com/p/Ewen-Maddock-Fish-
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Management-Inc-100064402463065/

Lake Baroon has been regularly stocked with Australian Bass and Mary River Cod. From 2014-2022 there were 133,120 Bass and 13,450 Mary River Cod stocked. There have been 133 Bass tagged for each 10,000 fingerlings stocked.

Fishing in the lake is limited to use of electric motors however due to the small size of the lake this does not limit the areas of the lake fished. Fishing in the lake occurs year-round however there was more activity in the first half by taggers and those recapturing fish.

The fishery is mostly experiential with a low harvest rate of 6% for legal Bass being kept by those recapturing fish (ex-taggers) and is mostly a local fishery with fishers from the Sunshine Coast and Brisbane. Fishing effort was boosted last year with the lake being included in the Fish 'n' SIPS competition with one of the competition fish being caught by a young local fisher.

There were insufficient days fished by taggers to provide an annual tag rate from 2016-2019. The overall tag rate from 2015-2024 was 10.8 fish/day however that is influenced by some taggers using bait fishing resulting in large numbers of fish (over 20/day) being tagged. That also contributed to a tag rate of 12.1 fish/day this year.

The lake spilled on several occasions during 2022 making fishing conditions difficult which restricted tagging. The spilling resulted in fish leaving the lake and along with the fishing conditions this resulted in a reduction in recaptures. Last year the lake was closed to boating and fishing for around a month from mid-Mar to mid-Apr due to spilling. However, fishing conditions remained good with increased tagging activity and recaptures. The lake spilled again in Dec last year and from Jan-May this year.

Since the spilling of the lake in 2022 fish have been 19 recaptured all the way down the Mary River as far as Maryborough and even in Tinana Creek with the furthest movement being 272km. Fish leaving the lake were mostly larger over 400mm and this has resulted in fewer fish over 400mm being tagged in the lake since then.

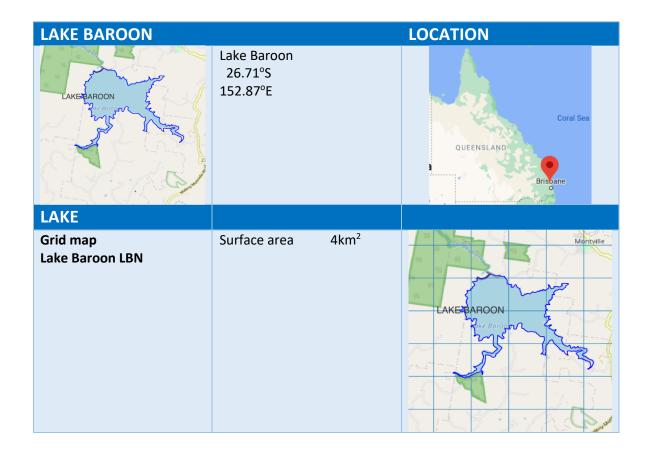


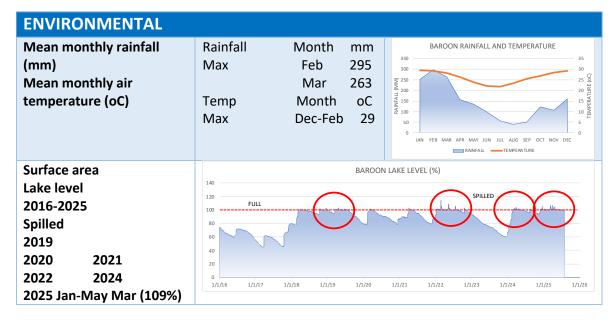






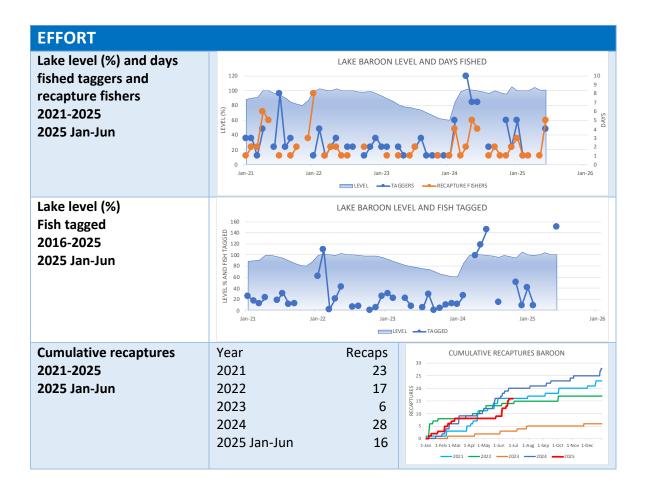




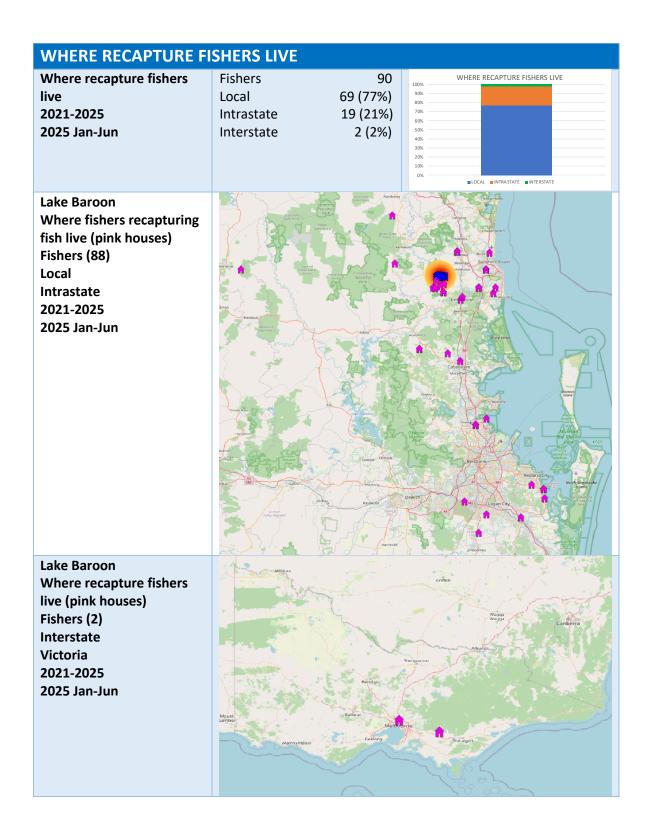


FISHERS DATA RELIABILITY Reliability level Sample size (days fished) MODERATE MODERATE Tag days (blue arrow) Confidence 80% 80% 90% 90% 95% 99% Error 20% Recaptures (orange arrow) **Confidence %** Error % 2021-2025 **TYPE OF FISHERY** 180 Seasonality Days BAROON FISHING SEASONALITY Mean rainfall (mm) and Months most effort ₩ 250 200 temperature (oC) Fishers combined Apr Days fished combined Jun **Taggers** Jan Note: Lake was closed in **Recapture fishers** 2021-2025 Mar-Apr 2024 2025 Jan-Jun Bass legal fish kept rate Harvest or experiential TYPE OF FISHERY fishery Legal fish 78 Release rate of recaptured Kept 5 (6%) Released **legal Bass** 73 (94%) EXPERIENTIAL 2021-2025 HARVEST 2025 Jan-Jun Local or visitor fishery Recapture fishers TYPE OF FISHER 90 69 (77%) Where recapture fishers Local live Visitor 21 (23%) 2021-2025 2025 Jan-Jun VISITOR LOCAL ■LOCAL ■INTRASTATE ■INTERSTATE **Recapture fishers** Recaptures 84 GENDER OF RECAPTURE FISHERS 77 (92%) Gender (ex-taggers) Male 2021-2025 Female 7 (8%) 2025 Jan-Jun MALE FEMALE

ACTIVITY				
Monthly activity Taggers (113) Recapture fishers (67) Days fished 2021-2025 2025 Jan-Jun Monthly activity Recaptures 2023-2025 2025 Jan-Jun	Taggers Recaps Baroon was 18/3/2024- No recaptu		% 16% 13% 15% 15%	BAROON DAYS FISHED BY MONTH 18% 16% 16% 16% 16% 16% 16% 16% 16% 16% 16
Weekday activity Days fished Taggers (113) Recapture fishers (67) 2021-2025 2025 Jan-Jun	Taggers Recaps	Day Weekend Weekdays Weekend Weekdays	% 53% 47% 54% 46%	BAROON DAYS FISHED BY WEEKDAY 40% 30% 25% 20% 10% MON TUE WED THU FRI SAT SUN TYAGGERS PRECAPTURE FSHERS COMBINED
Location activity Tagged (red-orange heatmap) Recaptured (blue fish) 2021-2025 2025 Jan-Jun	Tagged Recaptured	3	1265 90	Sabilla atte discontinuo sono in constituti discontinuo di constituti di



TRAVEL			
Cumulative distance (km) home to recapture location Local Intrastate 2021-2025 2025 Jan-Jun Distance (km) home to recapture location by year	Year 2021 2022 2023 2024 2025 Jan-Jun	Km 793 615 198 772	BAROON CUMULATIVE DISTANCE 900 800 700 600 600 900 1 jan 1 feb 1 Mar 1 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 1 Mov 1 Dec 2021 2022 2023 2024 2025 PROXY TRAVEL DISTANCE 2020-2024 (KM)
Local Intrastate 2021-2025 2025 Jan-Jun			180 160 140 120 100 80 60 40 20 100 20 20 20 2021 2022 2023 2024 2025
Distance (km) home to recapture location Local Intrastate Interstate 2021-2025 2025 Jan-Jun	Trips Local Intrastate Interstate	90 Range (km) 2-33 68-114 1412-1431	HOME TO REAPTURE LOCATION (KM) 200 180 160 140 220 200 80 80 80 80 80 80 80 80 80 80 80 80 8
Average distance (km) home to recapture location 2021-2025 2025 Jan-Jun	Trips Average distance Local Intrastate Interstate	82 e (km) 16 82 1422	HOME TO RECAPTURE LOCATION AVERAGE DISTANCE (KM) 90 80 70 60 40 30 10 LOCAL NITRASTATE



FISH		
AUSTRALIAN BASS	MARY RIVER COD	EELTAIL CATFISH
STOCKING		
Fingerlings stocked 2013-2023	Bass 133,120 Mary River Cod 13,450 Eeltail Catfish native not stocked	FISH STOCKED 2014-2022 140000 120000 100000 0 84 80000 40000 20000 0 AUSTRALIAN BASS MARYRIVER COD
Fingerlings stocked each year 2014-2022		BAROON STOCKED FISH 50000 45000 00 300000 00 30
SPECIES TAGGED		
Fish tagged 2016-2025 per 10,000 fish stocked 2014-2022	Australian Bass 133 Mary River Cod 0 (not able to be tagged)	FISH TAGGED PER 10,000 FISH STOCKED 140 120 100 100 40 20 AUSTRALIAN BASS MARY RIVER COD
Species tagged 2016-2025 2025 Jan-Jun	Australian Bass 1664 Eeltail Catfish 26	BAROON SPECIES TAGGED 600 500 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

AUSTRALIAN BASS



DATA RELIABILITY

Sample size (fish/year)
Tag days (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%	999	6
Error	20%	10%	10%	5%	5%	59	6
	1		1				

TAGGED AND TAG RATE

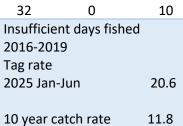
Tag rate

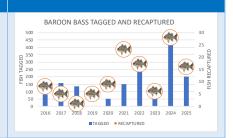
Fish/day

2016-2025

2025 Jan-Jun

Tagged Recapture		
1664		118
Recaptur	e rate	
7.1%		
Tagged 2025 Jan-Jun		
206		
High	Low	Now
Tagged		
2015	2019	2025
306	0	206
Days		
2015	2019	2025
32	0	10
	1664 Recaptur 7.1% Tagged 2: 206 High Tagged 2015 306 Days 2015	1664 Recapture rate 7.1% Tagged 2025 Jan-J 206 High Low Tagged 2015 2019 306 0 Days 2015 2019





BAROON BASS TAG AND EFFORT



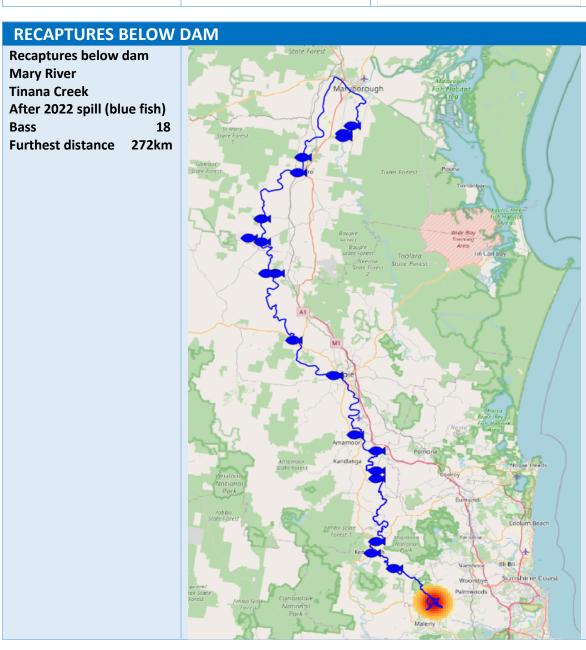
2016 2017 2018 2019 2020

LENGTHS				
Average length (mm)	High	Low	Now	BAROON BASS LENGTHS (MM)
Bars show length range	Average len	gth		TROPHY
Dots show outliers	2017	2023	2025	300
2016-2025	389	314	319	LEGAL LEGAL
2025 Jan-Jun	Largest			100
	2021	2023	2025	2016 2017 2018 2019 2020
	535	425	450	2021 2022 2023 2024 2025
Fish length percentage (%)	High	Low	Now	BAROON BASS LENGTHS
Undersize <300mm	Legal			100% 90% 80%
Legal 300-499mm	2016	2017	2025	70%
Trophy 500+mm	99%	65%	78%	50%
2016-2025	Trophy			30%
2025 Jan-Jun	2015	2023	2025	0% 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024
	5%	0%	0%	■UNDERSIZE ■LEGAL ■TROPHY
Length of fish recaptured		Lake	Below	BASS RECAPTURES AFTER 2022 SPILL (MM)
in lake and below dam	Recaptures	22	18	450
2022-2024	Average	398	422	350
	Min	320	370	250
	Max	470	470	150
				50 0
				■ LAKE ■ BELOW

FATE			
Legal Bass recaptures kept	Recaptures	103	RECAPTURED LEGAL BASS FATE
and released by recfishers	Kept	11 (11%)	90%
(ex-taggers)	Released	92 (89%)	70%
Legal length 300mm			50%
2016-2025			30%
2025 Jan-Jun			10%
			■ XEPT ■ RELEASED

GROWTH			
Bass growth at the end of	Recaptures	28	BAROON BASS GROWTH
each year	Annual growth (mm)		180
based on recaptures of	Year 1	70	160 (a) 140 (b) 120
tagged fish <300mm	Year 2	113	H 100
2016-2025	Year 3	138	
2025 Jan-Jun	Year 4	156	y = 61.47ln(x) - 292.25
	Year 5	181	0 365 730 1095 1460 1825 2190 DAYS OUT (YEARS)

Movement of tagged fish Recaptured 2016-2025 2025 Jan-Jun	Recaptures Same area Down lake Up lake Below lake	114 40 (35%) 38 (33%) 17 (15%) 19 (17%)	BAROON BASS MOVEMENT 40% 35% 30% 25% 20% 10% 536 536 0 SAMEAREA DOWNLAKE UPLAKE BELOWLANE
Movement of tagged fish in lake Recaptured 2016-2025 2025 Jan-Jun			BAROON BASS MOVEMENT S OF THE STREET OF TH



Pacc			Section 1
Bass	Tagged	1664	dalilla Littis Chii
Tagged fish (red-orange	Recaptures	118	tional ark
heat map)			Montville
Recaptures (blue fish)			
2021-2025			
2025 Jan-Jun			Yana ka 🐼
			THE CONTRACTOR

TAGGED Fish tagged

TAGGED		
Fish tagged 2016-2025 2025 Jan-Jun	Tagged 26 Recaptured 0	BAROON CATFISH TAGGED AND RECAPTURED 25 20 20 39 15 20 20 20 20 20 20 20 20 20 2
Location of tagged fish 2016-2025 2025 Jan-Jun	Tagged 26	andalilia Usaco and an analysis of the state

MARY RIVER COD		
CAUGHT		
All measures 2016-2025 2025 Jan-Jun	Fish recorded 0 Mary River Cod are not able to be tagged in Lake Baroon	

Data sources

Data used in the Lake Baroon 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 Ewen Maddock Fish Management Inc.
- Rainfall and temperature records for Station 040695 Palmwoods from http://www.bom.gov.au/climate/data.

Basis for analysis

- Data reliability based on the sample size over the past 5 years for days fished by taggers, by fishers recapturing fish and fish tagged and recaptured.
- Catch rates calculated as number of fish tagged/day for taggers with a minimum of 12 fisher days to provide a reliable catch rate.
- For Bass 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 LBN 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.