



LAKE WIVENHOE REVIEW JUNE 2025

INFORMATION RATING



Stocking group: Somerset and Wivenhoe Fish Stocking Association

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

Stocking timeframe: 2012-2018
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=wivenhoe-dam Stocking Group Facebook link: https://www.facebook.com/SomersetWivenhoeFishStocking/

Lake Wivenhoe is mostly a local fishery with 86% of recaptures made by locals living less than 60km from the lake. Remaining recapture fishers mostly live less than 100km, coming mainly from south of the lake from Ipswich to Toowoomba and to a lesser extent from Brisbane and the Gold Coast. The fishery is mostly experiential with a harvest rate of 17% of legal fish by recfishers other than taggers.

As there is a 6-knot limit on the lake most activity is close to boat ramps in the bottom part of the lake. Fishing activity occurs throughout the year with a peak from Apr-Oct with a drop in Jul. Fishing on weekends is preferred by both taggers and those recapturing fish.

The spilling of Lake Wivenhoe in 2022 resulted in lower tagging effort there with few recaptures. However, since then the tag rate has risen substantially with an average of over 11 fish tagged per day. This has resulted in a shift of some effort from Lake Somerset where the tag rate is has been lower.

Following the spilling of the lake in 2022 there have been 36 recaptures of fish in the Brisbane River from below the dam wall to below the Mt Crosby Weir and in the lower reach of the Brisbane River.

There were water releases from the lake from mid-Dec 2024 through to Mar-Apr this year however there has not been a significant increase in effort below the dam with only 2 additional recaptures in the river not far below the dam. Just one fish has been recaptured below the dam that was tagged in the lake after the 2022 spill.



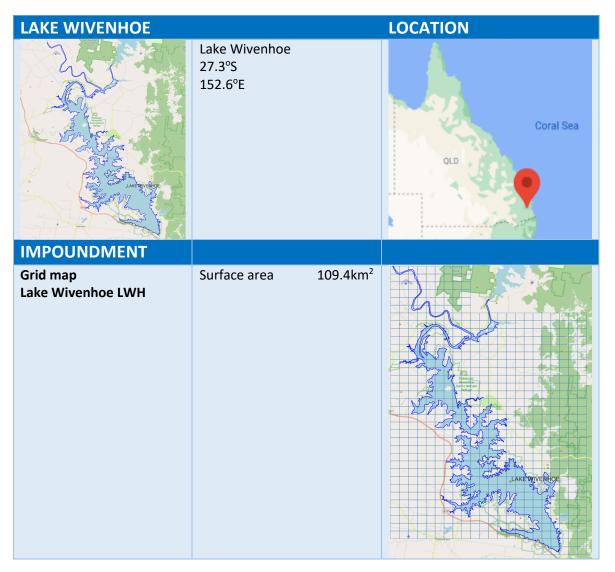


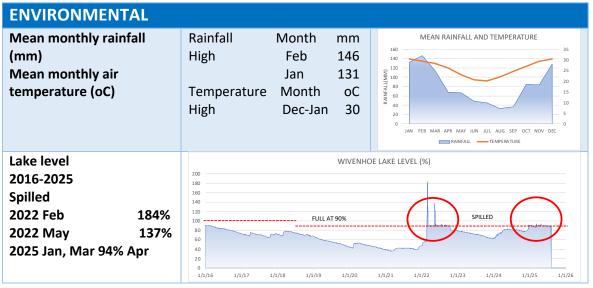




Product of Infofish Australia

Supported by Suntag and FFSAQ

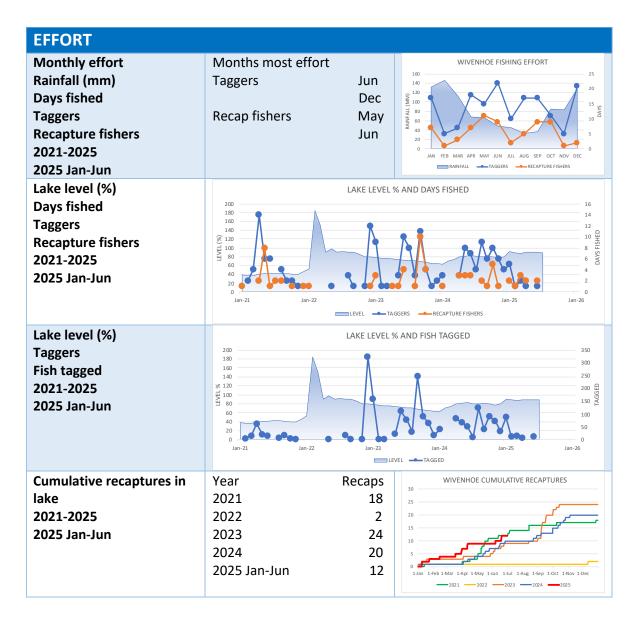




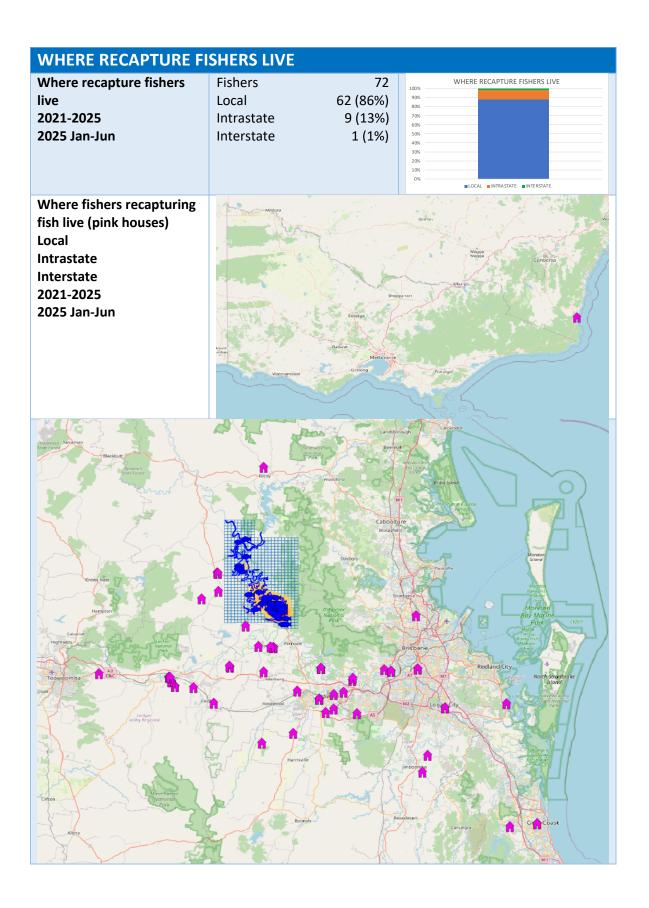
FISHERS DATA RELIABILITY Reliability level Sample size (days fished) MODERATE MODERATE Tag days (blue arrow) Confidence 80% 80% 90% 90% 95% 99% Error 20% 10% **Recaptures (orange arrow) Confidence %** Error % 2021-2025 **TYPE OF FISHERY** Seasonality 231 Days WIVENHOE FISHING SEASONALITY Months most effort Mean monthly rainfall (mm) temperature (oC) Fishers combined Jun Days fished combined May **Taggers Recapture fishers** JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 2021-2025 Harvest or experiential Bass legal fish kept rate WIVENHOE TYPE OF FISHERY Legal fish 52 fishery Kept 9 (17%) Release rate of recaptured **legal Bass** Released 43 (83%) 2021-2025 HARVEST EXPERIENTIAL 2025 Jan-Jun Local or visitor fishery Recapture fishers 72 WIVENHOE TYPE OF FISHER Where recapture fishers Local 62 (86%) live Visitor 10 (14%) 2021-2025 2025 Jan-Jun VISITOR LOCAL ■ LOCAL ■ INTRASTATE ■ INTERSTATE **Gender of recapture** GENDER OF RECAPTURE FISHERS Recaptures 55 51 (93%) fishers (ex-taggers) Male 2021-2025 Female 4 (7%) 2025 Jan-Jun MALE FFMAI F

ACTIVITY				
Monthly activity Days fished Taggers (165) Recapture fishers (66) 2021-2025 2025 Jan-Jun	Taggers Recaps	Month May Jun May Jun	% 14% 14% 20% 15%	WIVENHOE DAYS FISHED BY MONTH 18% 16% 12% 10% 10% 10% 10% 10% 10% 10% 10% 10% 10
Monthly activity Recaptures 2023-2025 2025 Jan-Jun				WIVENHOE MONTHLY RECAPTURES 10 9 8 10 10 10 10 10 10 10 10 10 10 10 10 10
Weekday activity Days fished) Taggers (165) Recapture fishers (66) 2021-2025 2025 Jan-Jun	Taggers Recaps	Day Weekend Weekdays Weekend Weekdays	% 35% 65% 47% 53%	WIVENHOE WEEKDAY FISHED 30% 25% 20% 15% 10% MON TUE WED THU FRI SAT SUN

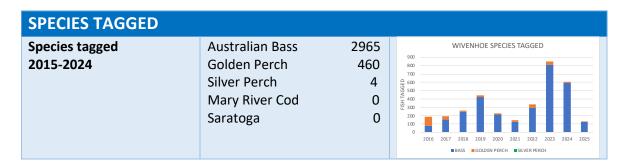
Activity by location
Taggers (red-orange heat
map)
Recapture fishers (blue
fish)
2021-2025
2025 Jan-Jun



TRAVEL			
Cumulative distance (km) home to recapture location 2021-2025 2025 Jan-Jun Proxy travel distance (km) home to recapture location Local Intrastate 2021-2025 2025 Jan-Jun	Year 2020 2021 2022 2023 2024 2025 Jan-Jun Year Interstate (1) Not included	Km 547 728 52 942 664 368 2023 1084	WIVENHOE CUMULATIVE DISTANCE (KM) 1000 100 100 100 100 100 100 100 100
Proxy average travel distance (km) home to recapture location 2021-2025 2025 Jan-Jun	Trips Average distance (km Local Intrastate Interstate	72) 33 81 1084	RECAPTURE FISHER'S AVERAGE TRAVEL DISTANCE (KM) 1000 800 600 400 200 0 LOCAL INTRASTATE INTERSTATE
Proxy travel distance (km) home to recapture location Local Intrastate Interstate 2021-2025 2025 Jan-Jun	Trips Ran Local Intrastate Interstate* *not show on graph	72 ge (km) 8-59 60-109 1084	WIVENHOE PROXY TRAVEL DISTANCE (KM) 200 180 160 140 120 100 80 60 40 20 100 100 100 100 100 100 100 100 100



FISH AUSTRALIAN BASS	ACTUAL GOLDEN PERCH	GRAPH or MAP SILVER PERCH
AUSTRALIAN BASS	GOLDEN PERCH	SILVER PERCH
MARY RIVER COD	SOUTHERN SARATOGA	
STOCKING		
Fingerlings stocked by species 2012-2018	Bass 743,463 Golden Perch 396,755 Silver Perch 136,412 Mary River Cod 2,660	WIVENHOE FISH STOCKED 2012-2018 800000 700000 600000 400000 200000 100000 0 AUSTRALIAN BASS GOLDEN PERCH SILVER PERCH MARY RIVER COD
Fingerlings stocked by year 2012-2018 (stocked fish numbers after 2018 not available)		WIVENHOE FISH STOCKED 250000 200000 20000 2012 2013 2014 2015 2016 2017 2018 AMARY RIVER COD



BASS ACTUAL GRAPH or MAP

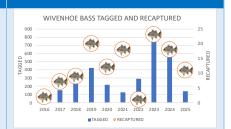
DATA RELIABILITY

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%

TAGGED AND TAG RATE

Bass tagged and	Tagged	Recaptured
recaptured	3079	121
2016-2025	Recapture rate	
2025 Jan-Jun	3.9%	
	Tagged 2025 Jai	n-Jun 125



Catch and effort taggers	High	Low	Now
Fish tagged	Catch		
Days fished	2019	2016	2025
2016-2025	441	78	125
2025 Jan-Jun	Days		
	2023	2022	2025
	56	18	10
Catch rate	High	Low	Now
Fish/day	2024	2016	2025
2016-2025	16.6	2.8	12.5
2025 Jan-Jun			
	10 year a	average	10.7

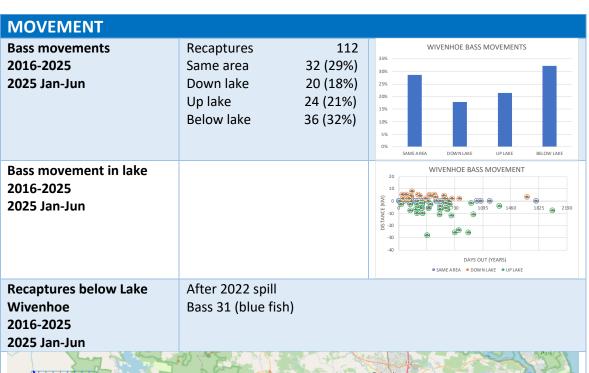


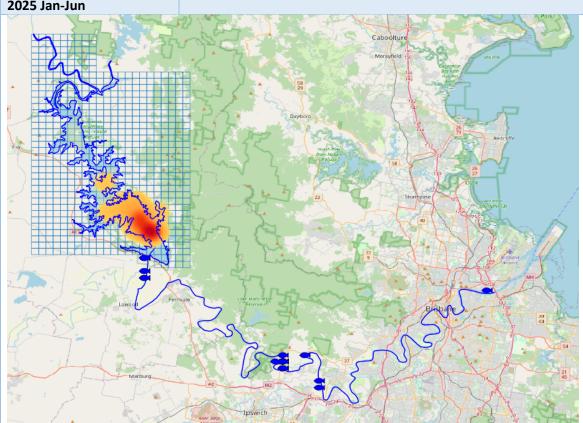


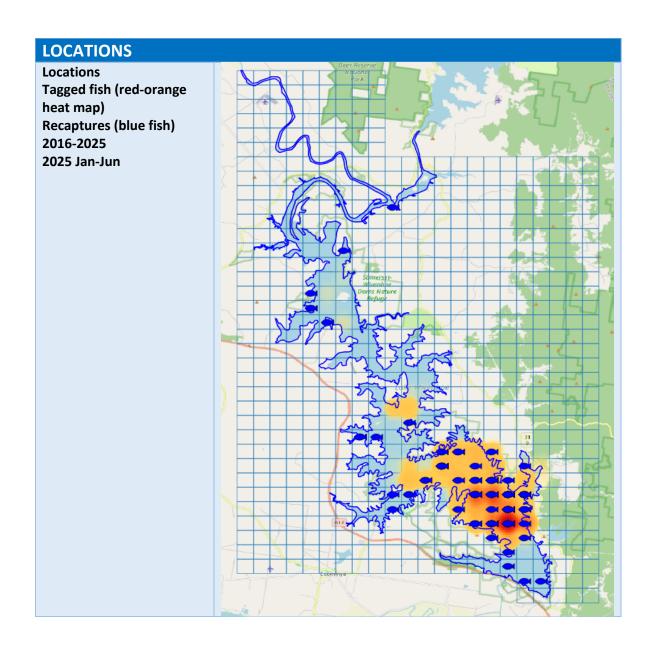
LENGTHS				
Average length (mm)	High	Low	Now	WIVENHOE BASS LENGTHS (MM)
Bars show length range	Average	length		TROPHY • • • • • • • • • • • • • • • • • • •
Dots show outliers	2015	2020	2024	400
2016-2025	413	303	320	200 LEGAL
2025 Jan-Jun	Largest			100
	2016	2020	2024	2016 2017 2018 2019 2020
	560	510	430	2021 2022 2023 2024 2025
Fish length percentage (%)	High	Low	Now	WIVENHOE BASS LENGTHS
Undersize <300mm	Legal-tro	ophy		100% 90%
Legal 300-499mm	2015	2020	2024	70%
Trophy 500+mm	97%	39%	70%	50% 40%
2016-2025	Trophy			30% 20% 10%
2025 Jan-Jun	2019	2023	2024	0% 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
	10%	0.3%	1%	■UNDERSIZE ■LEGAL ■TROPHY

FATE			
Legal Bass recaptures kept and released by recfishers (ex-taggers) Legal length 300mm 2016-2025 2025 Jan-Jun	Recaptures Kept Released	97 12 (12%) 85 (88%)	WIVENHOE LEGAL BASS FATE 100% 90% 90% 70% 60% 50% 40% 30% 20% 10%

GROWTH			
Bass growth	Recaptures	30	WIVENHOE BASS GROWTH
based on fish tagged	Annual growth (mm)		200
2016-2025	Year 1	68	
2025 Jan-Jun	Year 2	104	WW 150
	Year 3	125	50
	Year 4	140	y = 51.901ln(x) - 238.48
	Year 5	151	0 365 730 1095 1460 1825 2190 DAYS OUT (YEARS)







GOLDEN PERCH ACTUAL GRAPH or MAP

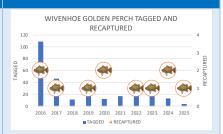
DATA RELIABILITY

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

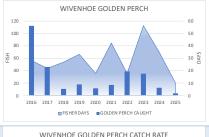
Reliability level	LOW		MODERATE	MODERATE		HIGH	ı
Samples	10	41	68	271	384	664	ı
Confidence	80%	80%	90%	90%	95%	99%	ı
Error	20%	10%	10%	5%	5%	5%	l
1							

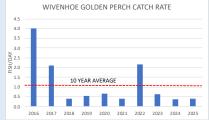
TAGGED AND TAG RATE

Golden Perch tagged and	Tagged	Recaptured
recaptured	304	11
2016-2025	Recapture rate	
2025 Jan-Jun	3.6%	
	Tagged 2025 Jan	n-Jun 4

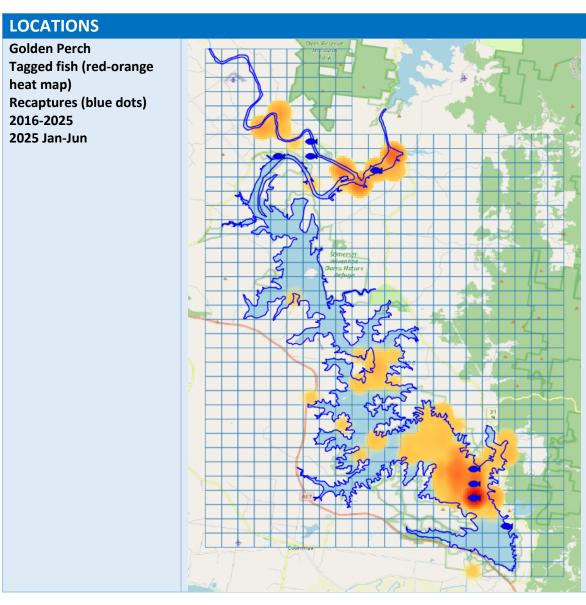


	. 455	-023 Jan Jan	•
Catch and effort taggers	High	Low	Now
Fish tagged	Catch		
Days fished	2016	2018	2025
2016-2025	112	11	4
2025 Jan-Jun	Days		
	2023	2022	2025
	56	18	10
Catch rate	High	Low	Now
Fish/day	2016	2024	2025
2016-2025	4.0	0.4	0.4
2025 Jan-Jun			
	10 year	average	1.1





LENGTHS				
Average length (mm)	High	Low	Now	WIVENHOE GOLDEN PERCH (MM)
Bars show length range	Average length			TROPHY TO THE TROPHY
Dots show outliers	2021	2017	2025	400
2016-2025	479	439	NA	LEGAL
2025 Jan-Jun	Largest			100
	2015	2019	2025	2016 2017 2018 2019 2020
	610	490	NA	■ 2021 ■ 2022 ■ 2023 ■ 2024 ■ 2025
Fish length percentage (%)	High	Low	Now	WIVENHOE GOLDEN PERCH LENGTHS
Undersize <300mm	Legal-trophy			100% 90%
Legal 300-499mm	2019	2021	2025	70% 60%
Trophy 500+mm	100%	82%	NA	50%
2016-2025	Trophy			30% 20% 10%
2025 Jan-Jun	2021	2015	2025	0% 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025
	18%	3%	NA	■UNDERSIZE ■LEGAL ■TROPHY



SILVER PERCH



TAGGED

Silver Perch tagged and recaptured 2016-2025 2025 Jan-Jun

Tagged Recaptured
0 0
Recapture rate
0%
No fish tagged after 2015



MARY RIVER COD



TAGGED

Mary River Cod tagged or recorded 2016-2025 2025 Jan-Jun No fish recorded Can be tagged from 2023



Data sources

Data used in the Lake Wivenhoe 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 https://www.data.qld.gov.au/dataset/queensland-freshwater-fish-stocking-records/.
- Rainfall and temperature data from station 040189 Somerset Dam 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 over the past 5 years.
- Catch rates calculated as number of fish tagged/days fished taggers with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate.
- Recapture rates relate to fish tagged in a particular year.
- 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 LWH 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.