

## LAKE KURWONGBAH REVIEW 2025

### INFORMATION RATING



Stocking group: Pine Rivers Fish Management Association

Species stocked: Australian Bass, Golden Perch, Southern Saratoga, 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=lake-kurwongbah>

PRFMA link: <https://prfma.com.au/info/fish-stocking-programs/>

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

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LAKE KURWONGBAH LOCATION

ENVIRONMENTAL CONDITIONS

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FISHER TRAVEL

WHERE RECAPTURE FISHERS LIVE

STOCKED FISH

AUSTRALIAN BASS

GOLDEN PERCH

SOUTHERN SARATOGA



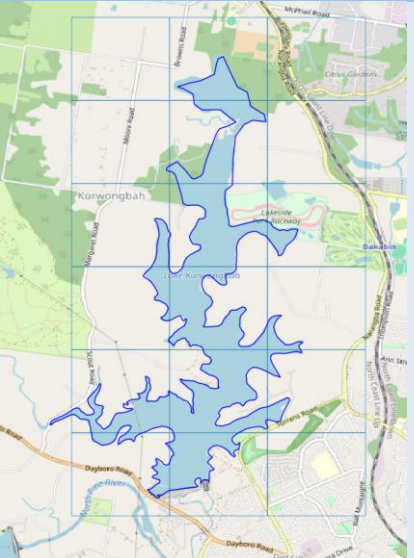
## LAKE KURWONGBAH OVERVIEW

Lake Kurwongbah is a small urban lake on Sideling Creek at Petrie. The lake is limited to paddle craft and shore-based fishers and it is popular with kayakers. Based on where recapture fishers live Kurwongbah attracts local fishers from the Brisbane area and they live within 80km of the lake. There have not been any recaptures recorded by fishers from outside that area.

Lake Kurwongbah has been regularly stocked with Australian Bass and Golden Perch. There have also been limited stocking of Mary River Cod and Southern Saratoga.

Tagging in Lake Kurwongbah has been carried out since 2011 however tagging effort was lower in 2024 and 2025 although the Bass tag rate was a high 9.5 fish/day this year.

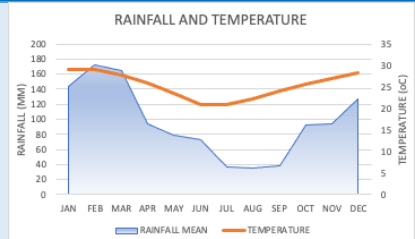
The lake has regularly spilled since 2020. Following the spill in 2022 there was a shift in fishing effort to below the dam in the North Pine River. This was largely influenced by fish spilling from Lake Samsonvale. While there were 95 recaptures of tagged fish that spilled from Samsonvale there was only 1 recapture of a fish that spilled from Kurwongbah and that was recaptured in the river not far below the dam.

LAKE KURWONGBAH LOCATION		
	<p>Lake Kurwongbah</p> <p>27.24°S</p> <p>152.96°E</p>	
LAKE		
<p><b>Grid map</b></p> <p><b>Lake Kurwongbah KUR</b></p>	<p>Surface area</p> <p>3.67km<sup>2</sup> at FSL</p>	

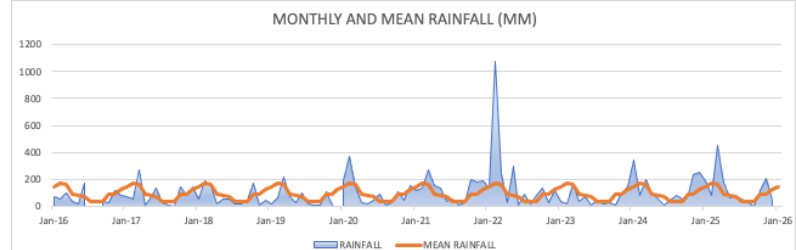
## ENVIRONMENTAL CONDITIONS

Mean monthly rainfall  
(mm)  
Mean monthly air  
temperature (oC)

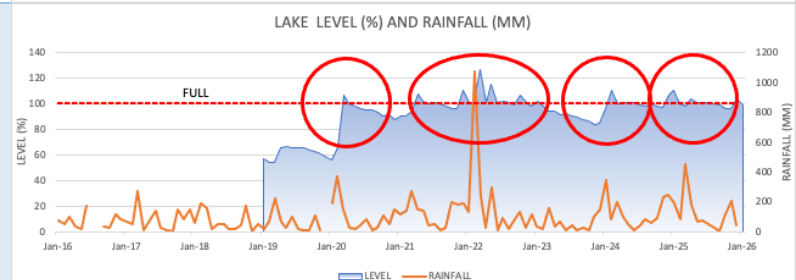
Rainfall	Month	mm
High	Feb	182
	Jan	141
Temp	Month	oC
	Dec-Feb	30

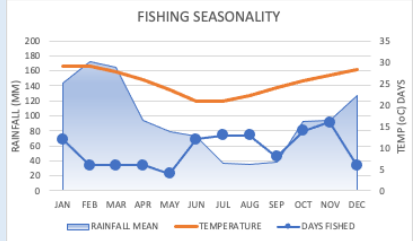
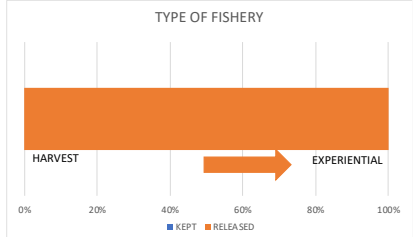
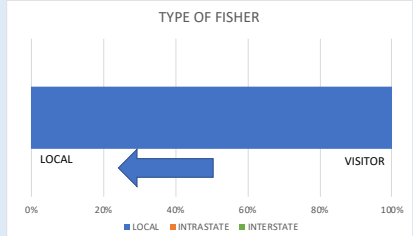
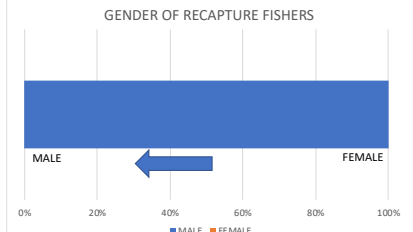


Monthly rainfall (mm) and  
mean monthly rainfall  
2016-2025



Lake capacity (%)  
2019-2025  
Spilled  
2020  
2021 Dec  
2022 Jan-Aug  
2024 Jan-Apr, Aug, Nov  
2025 Jan, Apr



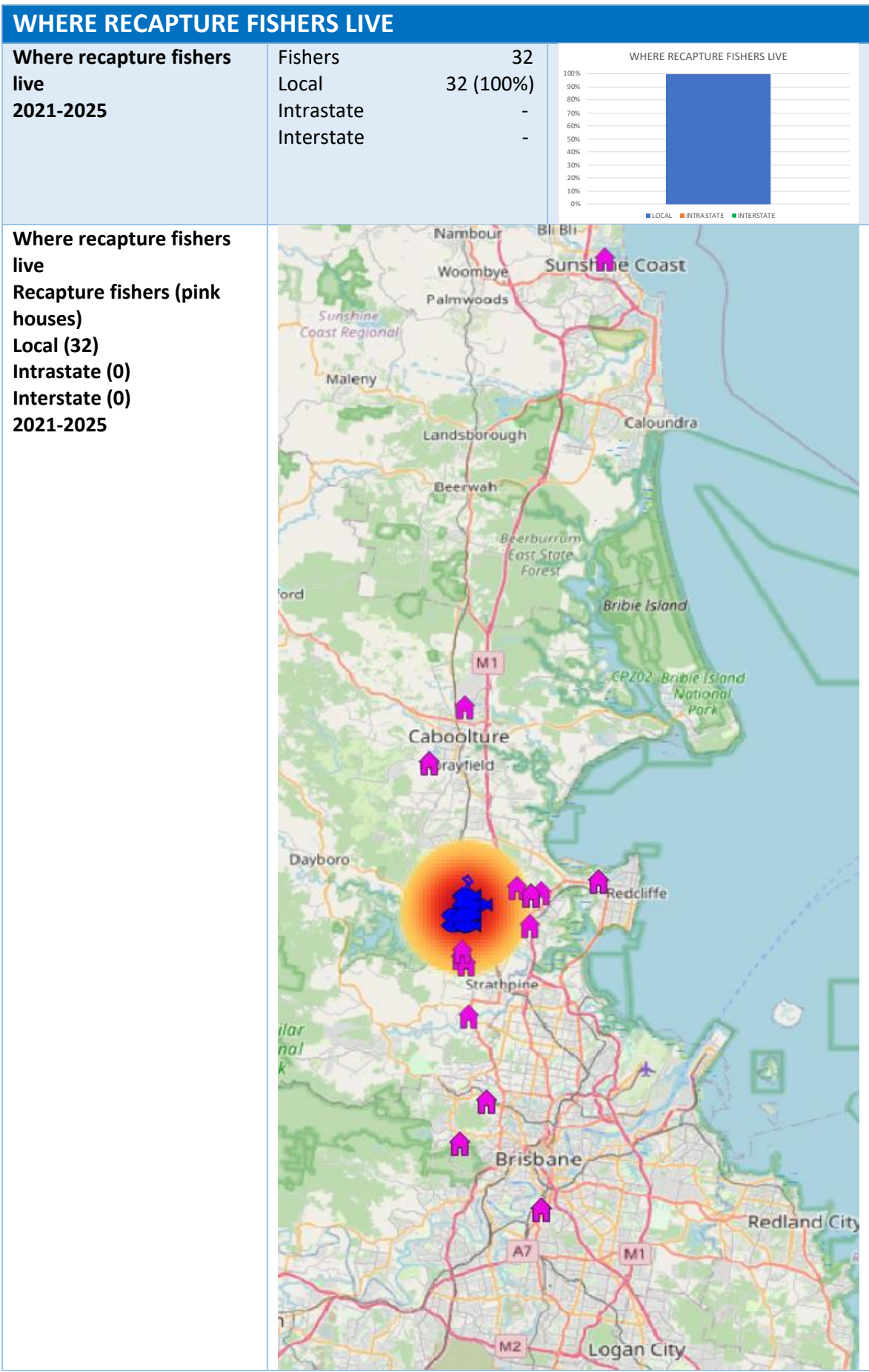
TYPE OF FISHERY																																						
DATA RELIABILITY																																						
Sample size (days fished) Tag days (blue arrow) Recaptures (orange arrow) Confidence % Error % 2021-2025	<table><tr><td>Reliability level</td><td colspan="2">LOW</td><td colspan="2">MODERATE</td><td colspan="2">MODERATE</td><td colspan="2">HIGH</td></tr><tr><td>Samples</td><td>10</td><td>41</td><td>68</td><td>271</td><td>384</td><td>664</td><td></td><td></td></tr><tr><td>Confidence</td><td colspan="2">80%</td><td colspan="2">80%</td><td colspan="2">90%</td><td colspan="2">95%</td></tr><tr><td>Error</td><td colspan="2">20%</td><td colspan="2">10%</td><td colspan="2">10%</td><td colspan="2">5%</td></tr></table> <div><div></div><div></div></div>		Reliability level	LOW		MODERATE		MODERATE		HIGH		Samples	10	41	68	271	384	664			Confidence	80%		80%		90%		95%		Error	20%		10%		10%		5%	
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Seasonality Mean monthly rainfall (mm) Days fished combined Taggers Recapture fishers 2021-2025	Months most effort  Most days  Nov Oct																																					
Harvest or experiential fishery Release rate of recaptured legal Bass 2021-2025	Legal Bass kept rate Legal fish 24 Kept 0 (0%) Released 24(100%)																																					
Local or visitor fishery Where recapture fishers live 2021-2025	Recapture fishers 32 Local 32 (100%) Visitor 0 (0%)																																					
Gender of recapture fishers (ex-taggers) 2021-2025	Fishers 28 Male 28 Female 0																																					





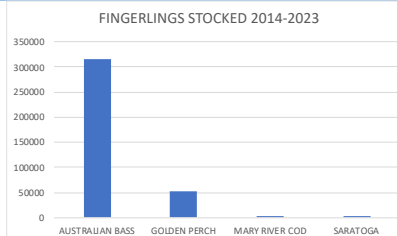
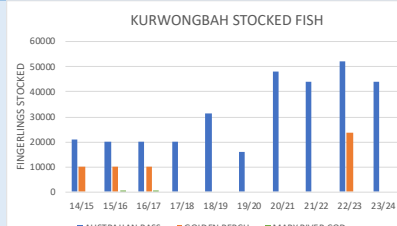
FISHER ACTIVITY				
<b>Monthly activity</b> Days fished combined Taggers (82) Recapture fishers (34) 2021-2025	Most	Month	%	
		Nov	14%	
		Oct	12%	
<b>Weekday activity</b> Days fished Taggers (82) Recapture fishers (34) 2021-2025	Fished	Day	%	
		Weekend	40%	
		Weekdays	60%	
<b>Location activity</b> Tagged (red-orange heatmap) Recaptures (blue dots) 2021-2025	Tagged		580	
	Recaptured		35	

FISHER EFFORT			
Lake level (%) Days fished Taggers Recapture fishers 2021-2025	<div>LAKE LEVEL (%) AND DAYS FISHED</div>		
Lake level (%) Fish tagged Taggers 2021-2025	<div>LAKE LEVEL (%) AND FISH TAGGED</div>		
Cumulative recaptures 2021-2025	Year 2021 2022 2023 2024 2025	Recaps 6 1 14 4 10	<div>CUMULATIVE RECAPTURES</div>
Recaptures last 3 years 2023-2025			<div>RECAPTURES LAST 3 YEARS</div>

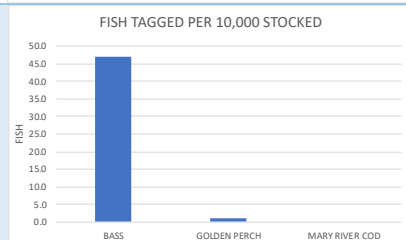
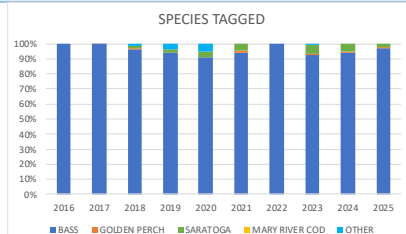
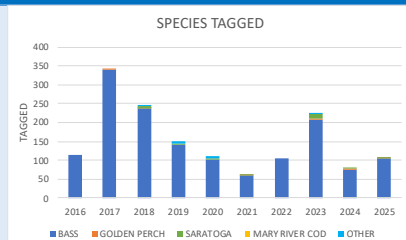
FISHER TRAVEL			
Cumulative distance (km) home to recapture location 2021-2025	Year	Km	
	2021	83	
	2022	4	
	2023	258	
	2024	69	
	2025	216	
Distance (km) home to recapture location Bars show distance range Dots show outliers 2021-2025	Trips	32	
	Range (km)		
	Local	4-32	
	Intrastate	-	
Distance (km) home to recapture location Bars show distance range Dots show outliers 2021-2025	Interstate	-	
Proxy average travel distance (km) home to recapture location 2021-2025	Trips	32	
	Average distance (km)	32	
	Local	-	
	Intrastate	-	
	Interstate	-	





STOCKED FISH																																																									
AUSTRALIAN BASS	GOLDEN PERCH	SOUTHERN SARATOGA																																																							
																																																									
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<b>Fingerlings stocked 2014/15-2023/24</b>	Australian Bass 316,300 Golden Perch 53,500 Mary River Cod 700 Southern Saratoga 182	<div>FINGERLINGS STOCKED 2014-2023</div>  <table><caption>FINGERLINGS STOCKED 2014-2023</caption><thead><tr><th>Species</th><th>2014/15</th><th>2015/16</th><th>2016/17</th><th>2017/18</th><th>2018/19</th><th>2019/20</th><th>2020/21</th><th>2021/22</th><th>2022/23</th><th>2023/24</th></tr></thead><tbody><tr><td>Australian Bass</td><td>316,300</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Golden Perch</td><td>0</td><td>0</td><td>0</td><td>53,500</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Mary River Cod</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr><tr><td>Saratoga</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr></tbody></table>	Species	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	Australian Bass	316,300	0	0	0	0	0	0	0	0	0	Golden Perch	0	0	0	53,500	0	0	0	0	0	0	Mary River Cod	0	0	0	0	0	0	0	0	0	0	Saratoga	0	0	0	0	0	0	0	0	0	0
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<b>Fingerlings stocked by year 2014/15-2023/24</b>		<div>KURWONGBAH STOCKED FISH</div>  <table><caption>KURWONGBAH STOCKED FISH</caption><thead><tr><th>Year</th><th>Australian Bass</th><th>Golden Perch</th><th>Mary River Cod</th></tr></thead><tbody><tr><td>14/15</td><td>20000</td><td>10000</td><td>0</td></tr><tr><td>15/16</td><td>20000</td><td>10000</td><td>0</td></tr><tr><td>16/17</td><td>20000</td><td>10000</td><td>0</td></tr><tr><td>17/18</td><td>20000</td><td>10000</td><td>0</td></tr><tr><td>18/19</td><td>30000</td><td>10000</td><td>0</td></tr><tr><td>19/20</td><td>15000</td><td>10000</td><td>0</td></tr><tr><td>20/21</td><td>45000</td><td>10000</td><td>0</td></tr><tr><td>21/22</td><td>45000</td><td>10000</td><td>0</td></tr><tr><td>22/23</td><td>50000</td><td>20000</td><td>0</td></tr><tr><td>23/24</td><td>45000</td><td>10000</td><td>0</td></tr></tbody></table>	Year	Australian Bass	Golden Perch	Mary River Cod	14/15	20000	10000	0	15/16	20000	10000	0	16/17	20000	10000	0	17/18	20000	10000	0	18/19	30000	10000	0	19/20	15000	10000	0	20/21	45000	10000	0	21/22	45000	10000	0	22/23	50000	20000	0	23/24	45000	10000	0											
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23/24	45000	10000	0																																																						

SPECIES TAGGED		
Species tagged 2016-2025	Bass	Tagged 1488
	Golden Perch	6
	Southern Saratoga	35
	Mary River Cod	0
Species tagged 2016-2025	Bass	% Tagged 96%
	Golden Perch	0.4%
	Southern Saratoga	2.3%
	Mary River Cod	0%
Fish tagged 2015-2024 per 10,000 fish stocked 2014/15-2023/24	Tagged/10,000 fingerlings	
	Bass	47
	Golden Perch	1



## AUSTRALIAN BASS



### DATA RELIABILITY

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

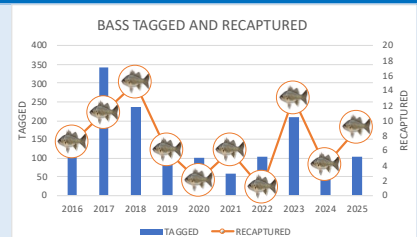
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Error	20%	10%	10%	5%	5%	5%		



### TAGGED AND TAG RATE

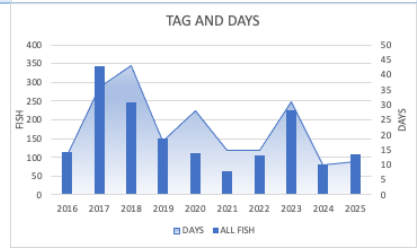
Bass tagged and recaptured in lake  
2016-2025

Tagged 1488  
Recaptured 74  
Recapture rate 5.0%  
Tagged 2025 104



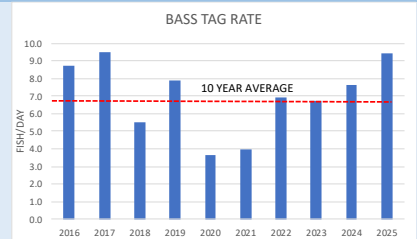
Catch and effort  
Taggers  
Fish tagged  
Days fished  
2016-2025

High Low Now  
Tagged  
2017 2021 2025  
341 60 104  
Days  
2018 2024 2025  
43 10 11



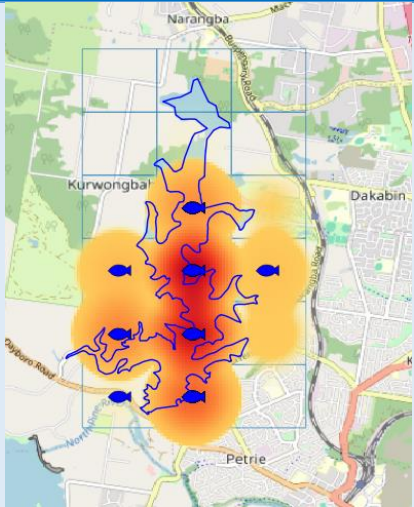
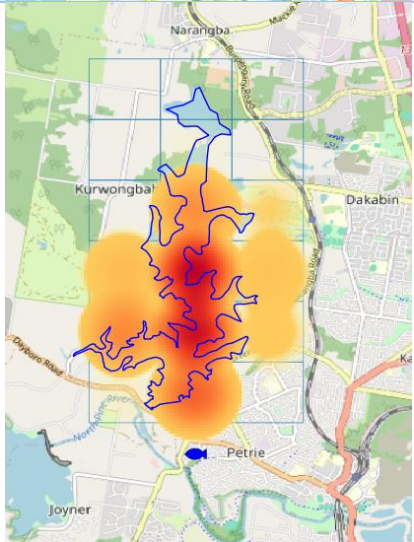
Tag rate  
Fish/day  
2016-2025


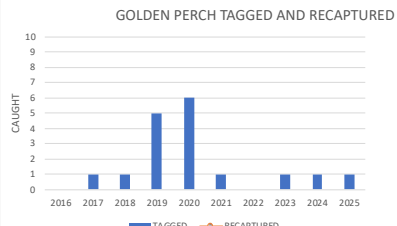
High Low Now  
Tag rate  
2017 2020 2025  
9.5 3.6 9.5  
10 year average 6.8


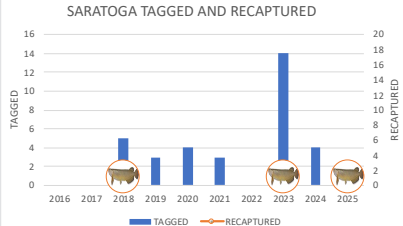



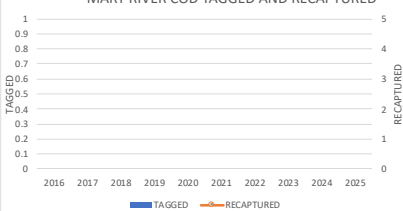
LENGTHS				
<b>Average length (mm)</b> <b>Bars show length range</b> <b>Dots show outliers</b> <b>2016-2025</b>	High	Low	Now	<p>BASS LENGTHS (MM)</p>
	Average length (mm)			
	2021	2022	2025	
	375	289	340	
	Largest			
2022	2020	2025		
510	450	460		
<b>Fish lengths percentage</b> <b>Undersize &lt;300mm</b> <b>Legal 300-499mm</b> <b>Trophy 500+mm</b> <b>2016-2025</b>	High	Low	Now	<p>BASS LENGTHS</p>
	Legal-trophy			
	2021	2022	2025	
	88%	33%	64%	
	Trophy 1 trophy length fish in 2022			

FATE			
Legal Bass recaptures kept and released by recfishers (ex-taggers) Legal length 300mm 2016-2025	Recaptures	68	<p>KURWONGBAH LEGAL BASS RECAPTURES</p> <p>2015-2024</p> <p>■ KEPT ■ RELEASED</p>
	Kept	1 (1%)	
	Released	68 (99%)	
Legal Bass recaptures kept and released by recfishers (ex-taggers) 2016-2020 2021-2025			<p>RECAPTURED LEGAL BASS FATE</p> <p>■ 2016-2020 ■ 2021-2025</p>

LOCATIONS			
Locations Tagged fish (red-orange heat map) Recaptures (blue fish)	Tagged Recaptured	1488 74	
Bass after the 2022 spill Tagged in Kurwongbah Recaptured below dam 2022-2025	Recaptured North Pine River	1	

GOLDEN PERCH			
			
TAGGED			
Golden Perch Tagged Recaptured 2016-2025	Tagged	17	
	Recaptured	0	
	Recapture rate	0%	
	Tagged 2025	1	

SOUTHERN SARATOGA																																			
																																			
TAGGED																																			
Saratoga	Tagged	35																																	
Tagged	Recaptured	3																																	
Recaptured	Recapture rate	8.6%																																	
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MARY RIVER COD																																			
																																			
TAGGED																																			
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Tagged	Recaptured	0																																	
Recaptured	Recapture rate	0%																																	
2016-2025	Tagged 2025	0																																	
 <p>MARY RIVER COD TAGGED AND RECAPTURED</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Tagged</th> <th>Recaptured</th> </tr> </thead> <tbody> <tr><td>2016</td><td>0</td><td>0</td></tr> <tr><td>2017</td><td>0</td><td>0</td></tr> <tr><td>2018</td><td>0</td><td>0</td></tr> <tr><td>2019</td><td>0</td><td>0</td></tr> <tr><td>2020</td><td>0</td><td>0</td></tr> <tr><td>2021</td><td>0</td><td>0</td></tr> <tr><td>2022</td><td>0</td><td>0</td></tr> <tr><td>2023</td><td>0</td><td>0</td></tr> <tr><td>2024</td><td>0</td><td>0</td></tr> <tr><td>2025</td><td>0</td><td>0</td></tr> </tbody> </table>			Year	Tagged	Recaptured	2016	0	0	2017	0	0	2018	0	0	2019	0	0	2020	0	0	2021	0	0	2022	0	0	2023	0	0	2024	0	0	2025	0	0
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## Data sources

Data used in the Lake Kurwongbah Crystal Bowl are:

- Tag records and recapture records for the impoundment at <http://crystalbowl.infofishaustralia.com.au/>.
- Dam level data from SEQ Water <https://www.seqwater.com.au/dam-levels>.
- Stocked fish records from <https://prfma.com.au/info/fish-stocking-programs/>.
- Rainfall records for Station 040186 Samsonvale 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 taggers with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate.
- Undersized Bass and Golden Perch are <300mm, legal fish are ≥300 and <500mm and trophy fish are ≥500mm.
- Undersized Saratoga are <500, legal are ≥500 and <800 and trophy fish are ≥800.
- Locations based on Infofish grid map KUR 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 straight-line distance between where the fisher lives (address, suburb, town or postcode) and the recapture location. Local <60km, intrastate ≥60km and postcode starting with 4, interstate not Qld.