



LAKE GLENLYON REVIEW 2025

INFORMATION RATING



Stocking group: Glenlyon Dam Fish Restocking Group

Species stocked: Murray Cod, Golden Perch, Silver Perch

Stocking timeframe: 2014-2023

Fish timeframe: 2016-2025

Fisher timeframe: 2021-2025

SIPS locations link:

<https://www.qld.gov.au/recreation/activities/boating-fishing/rec-fishing/dams/stocked-impoundment-permits/locations/glenlyon>

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

LAKE GLENLYON OVERVIEW

ENVIRONMENTAL CONDITIONS

TYPE OF FISHERY

FISHER EFFORT

FISHER TRAVEL

WHERE RECAPTURE FISHERS LIVE

SPECIES

MURRAY COD

GOLDEN PERCH

RECAPTURES AFTER LOW LAKE LEVEL

EELTAIL CATFISH

SILVER PERCH



Product of Infofish Australia



Supported by Suntag and FFSAQ



LAKE GLENLYON OVERVIEW

Summary for 2025

- Tagging in Lake Glenlyon slowed during Covid and has not recovered to pre-Covid levels and is currently below the benchmark level required for confidence.
- The recapture rate of 30.5% for Murray Cod is the highest for any species in any location suggesting a high level of effort and targeting.
- Data on recaptures after the lake was down to 3-4% suggests that Murray Cod survived better than Golden Perch.

Lake Glenlyon is regularly stocked by the local stocking group. From 2014-2023 there were 45,100 Murray Cod, 1.2 million Golden Perch and 65,000 Silver Perch fingerlings stocked. For every 10,000 fingerlings stocked there have been 71 Murray Cod tagged compared to 5 Golden Perch. No Silver Perch have been tagged. While 27 times more Golden Perch have been stocked than Murray Cod comparably there has been 16 times more Murray Cod tagged than Golden Perch.

There are 2 parts to this fishery with Murray Cod mostly experiential while for Golden Perch it is mainly a harvest fishery. Previously Glenlyon was mostly a harvest fishery however has shifted towards an experiential fishery in the last few years, particularly for Murray Cod.

Based on where recapture fishers live Glenlyon is mainly fished by intrastate fishers from Gold Coast to Sunshine Coast and the Darling Downs, and interstate fishers from adjacent areas of northern NSW.

Tagging effort was down in 2020 and 2021 due to very low lake levels, restrictions from Covid and a significant Salvinia infestation (gone when dam spilled in late 2021) and remained low in 2022 with the lake spilling for much of the year. Tagging effort has remained low since 2023.

While tagging effort has been low from 2020-2025 the data still provides useful trend information. The recapture rate of 30.5% for Murray Cod is the highest for any species in any lake however the harvest rate of recaptured legal fish has fallen to 32% which reduces the impact on the fish.

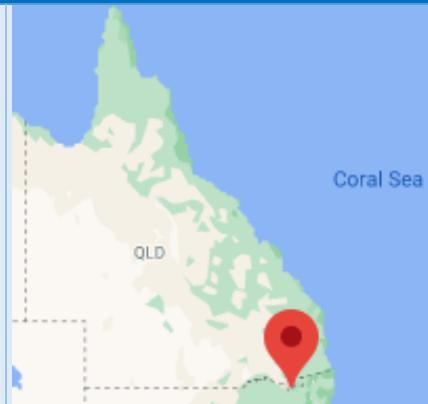
Fish tagged prior to the lake being at 3-4% from Oct 2019 – Feb 2020 that were recapture since suggests a high survival rate of Murray Cod even at very low water levels. There were 25 recaptures of Cod tagged before the low level and recaptured after while for Golden Perch just 2 fish have been recaptured. This suggests a lower survival rate of Golden Perch from this event given that there were slightly more Golden Perch than Murray Cod tagged up to that time.

LAKE GLENLYON LOCATION



Lat
Lon

28.96°S
151.46°E

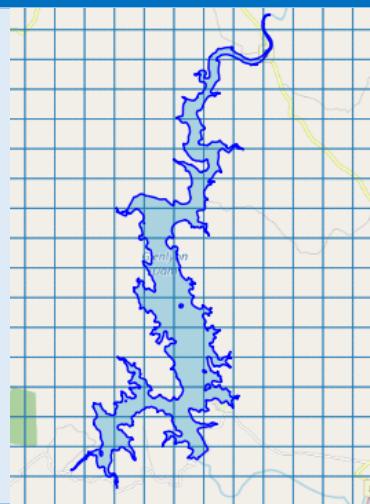


LAKE

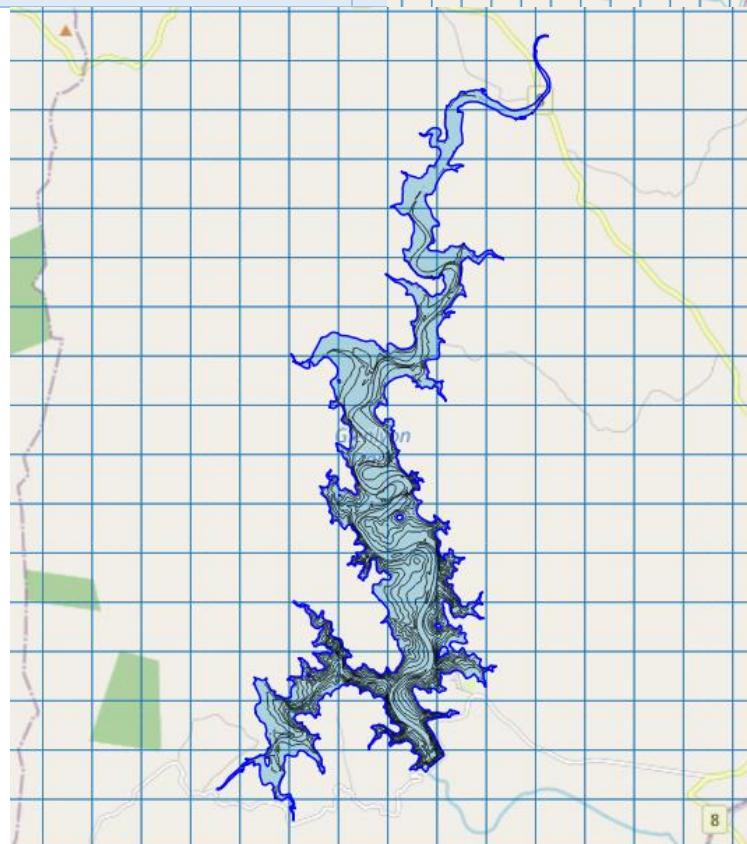
Grid map

Lake Glenlyon LGP

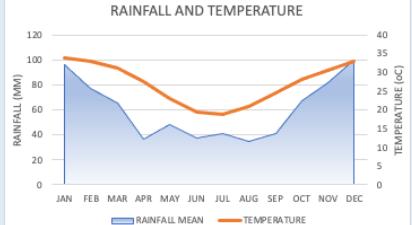
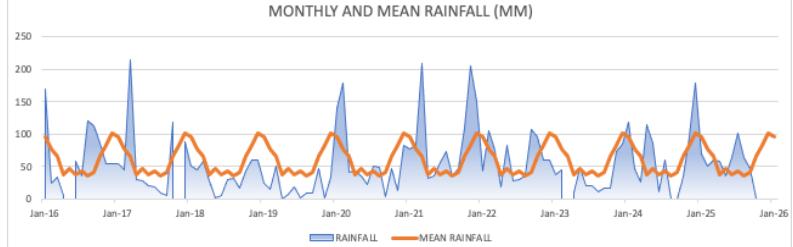
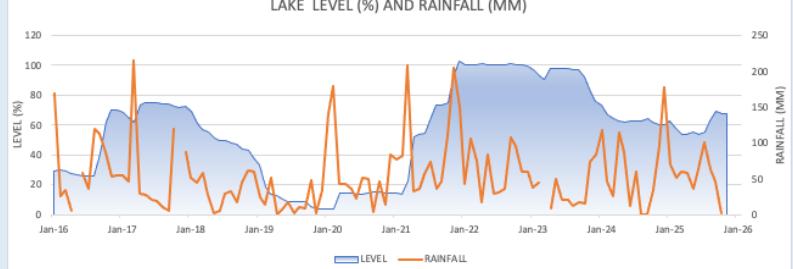
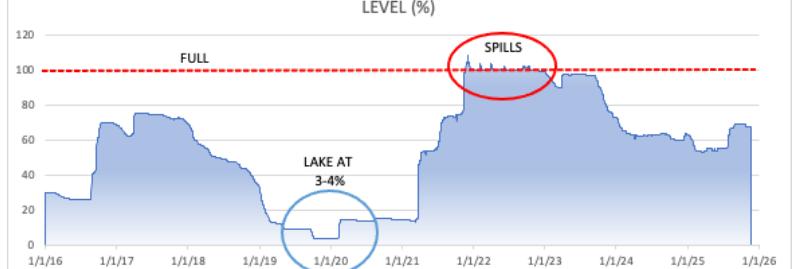
Surface area 18.0km²

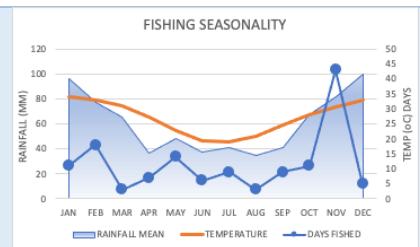
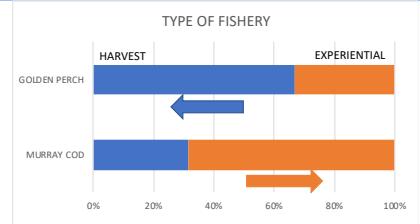
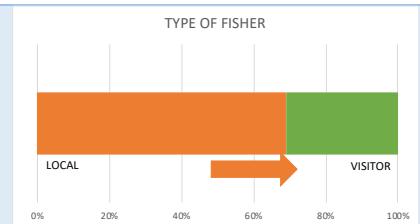
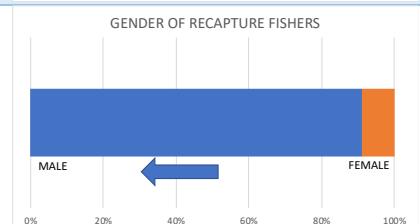


Bathymetry



ENVIRONMENTAL CONDITIONS

Mean monthly rainfall (mm) Mean monthly air temperature (oC)	Rainfall Max Dec 100 Jan 96 Temp Month oC Max Jan 34 Min Jul 19	 RAINFALL AND TEMPERATURE RAINFALL [MM] TEMPERATURE [oC] JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC RAINFALL MEAN TEMPERATURE
Mean monthly rainfall (mm) Monthly rainfall (mm) 2016-2025	 MONTHLY AND MEAN RAINFALL (MM) RAINFALL MEAN	
Lake level (%) Rainfall (mm) 2016-2025	 LAKE LEVEL (%) AND RAINFALL (MM) LEVEL RAINFALL	
Lake level 2016-2025 10/19-2/20 level 3-4% 2022 spills	 LEVEL (%) FULL SPILLS LAKE AT 3-4% 1/1/16 1/1/17 1/1/18 1/1/19 1/1/20 1/1/21 1/1/22 1/1/23 1/1/24 1/1/25 1/1/26	

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%	<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%
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Seasonality Mean monthly rainfall (mm) Days fished combined Taggers Recapture fishers 2021-2025	Months most effort Most days Nov Feb																																																					
Harvest or experiential fishery Release rate of recaptured legal Murray Cod and Golden Perch 2021-2025	Legal fish kept rate Legal Murray Cod 19 Kept 6 (32%) Legal Golden Perch 12 Kept 8 (67%)																																																					
Local or visitor fishery Where recapture fishers live 2021-2025	Recapture fishers 45 Local 0 (0%) Visitor 45 (100%) Note 5 interstate visitors live within local distance of 80km																																																					
Gender of recapture fishers 2021-2025	Fishers 43 Female 4 (9%) Male 39 (91%)																																																					

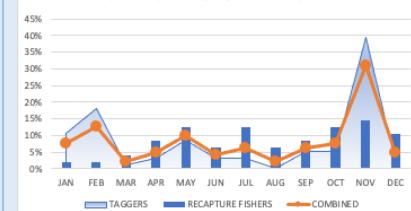
FISHER ACTIVITY

Monthly activity
Days fished combined
Taggers (94)
Recapture fishers (48)
2021-2025

Month
Nov
Feb

%
31%
13%

GLENLYON DAYS FISHED BY MONTH

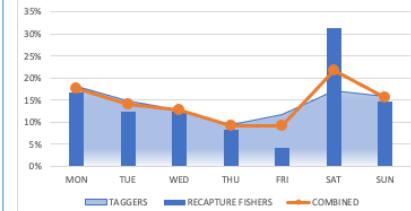


Weekday activity
Days fished combined
Taggers (94)
Recapture fishers (48)
2021-2025

Day
Weekdays
Weekend

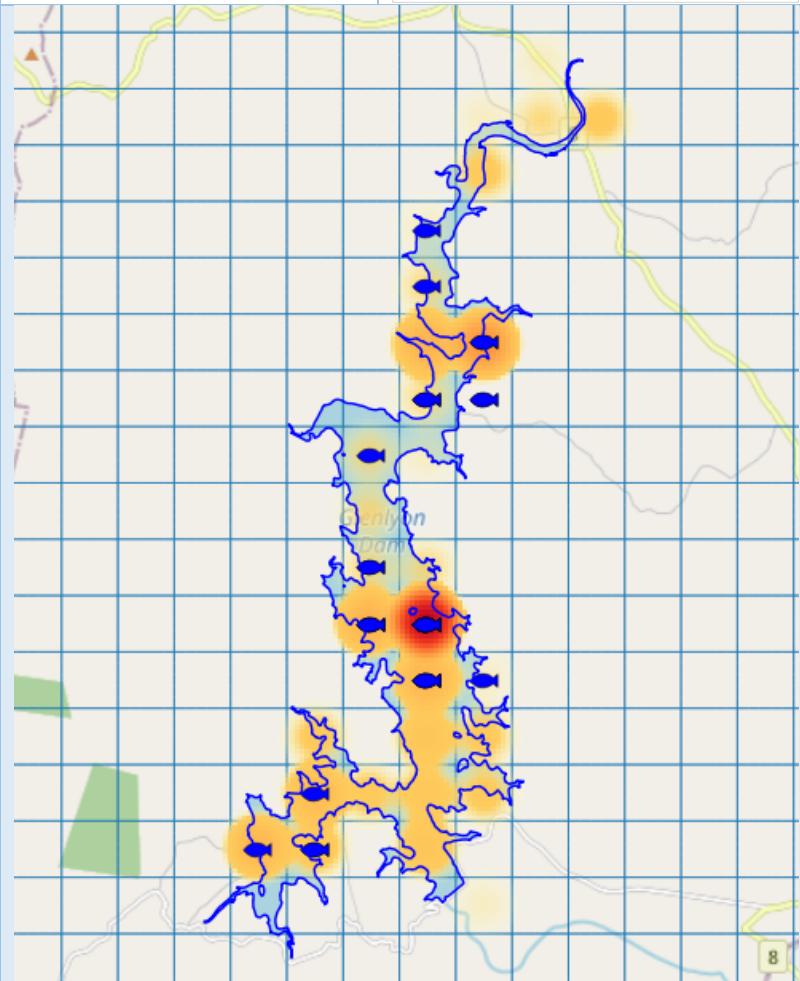
%
63%
37%

GLENLYON DAYS FISHED BY WEEKDAY

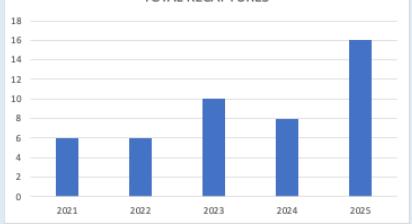
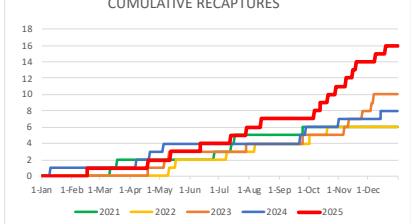
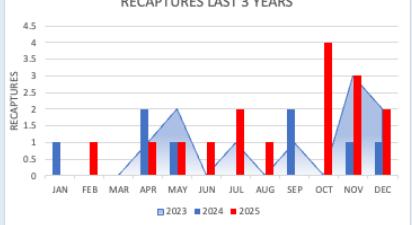
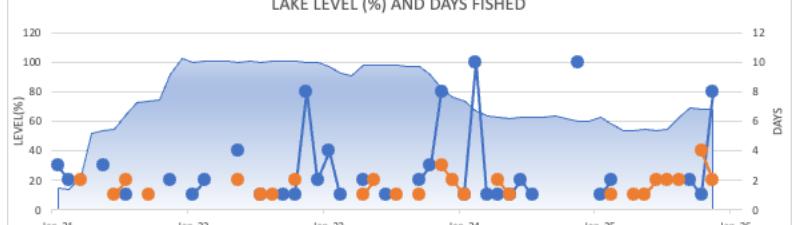


Location activity
Taggers (red-orange heatmap)
Recapture fishers (blue fish)
2021-2025

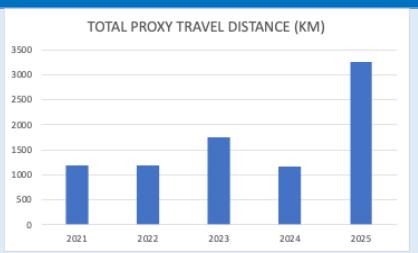
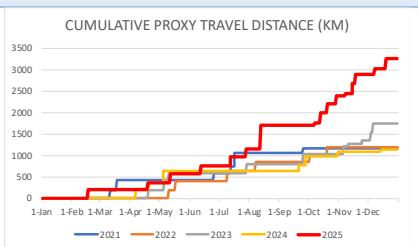
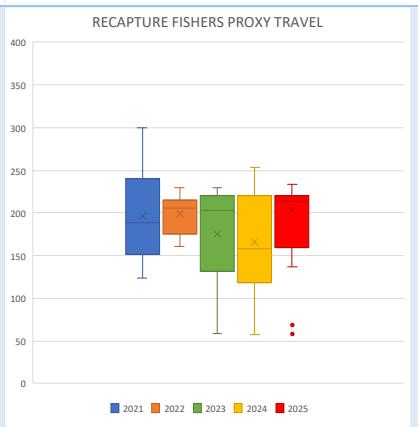
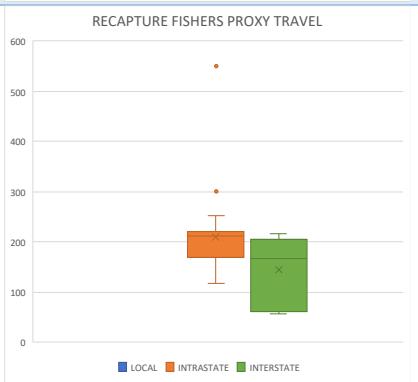
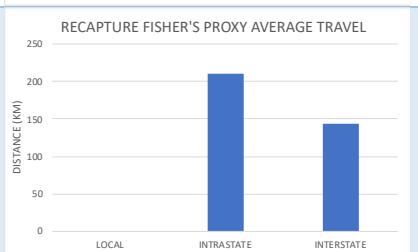
Tagged fish
Recaptured



FISHER EFFORT

Total recaptures 2021-2025	Year	Recaps	
	2021	6	
	2022	6	
	2023	10	
	2024	8	
Cumulative recaptures 2021-2025			
Recaptures last 3 years 2023-2025			
Lake level (%) Days fished Taggers Recapture fishers 2021-2025			
Lake level (%) Fish tagged 2021-2025			

FISHER TRAVEL

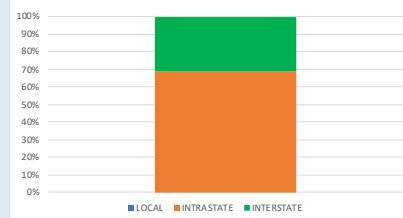
Total distance (km) home to recapture location 2021-2025	Year	Kms	
	2021	1189	
	2022	1193	
	2023	1756	
	2024	1157	
	2025	3257	
Cumulative distance (km) home to recapture location 2021-2025			
Distance (km) home to recapture location Bars show distance range Dots show outliers 2021-2025			
Distance (km) home to recapture location Bars show distance range Dots show outliers 2021-2025	Trips	45	
	Range (km)		
	Local	0	
	Intrastate	118-550	
	Interstate	57-217	
	Note: 5 interstate fisher trips are within local range		
Proxy average travel distance (km) home to recapture location Local Intrastate Interstate 2021-2025	Trips	45	
	Average (km)		
	Local	0	
	Intrastate	210	
	Interstate	144	

WHERE RECAPTURE FISHERS LIVE

Where recapture fishers live
2021-2025

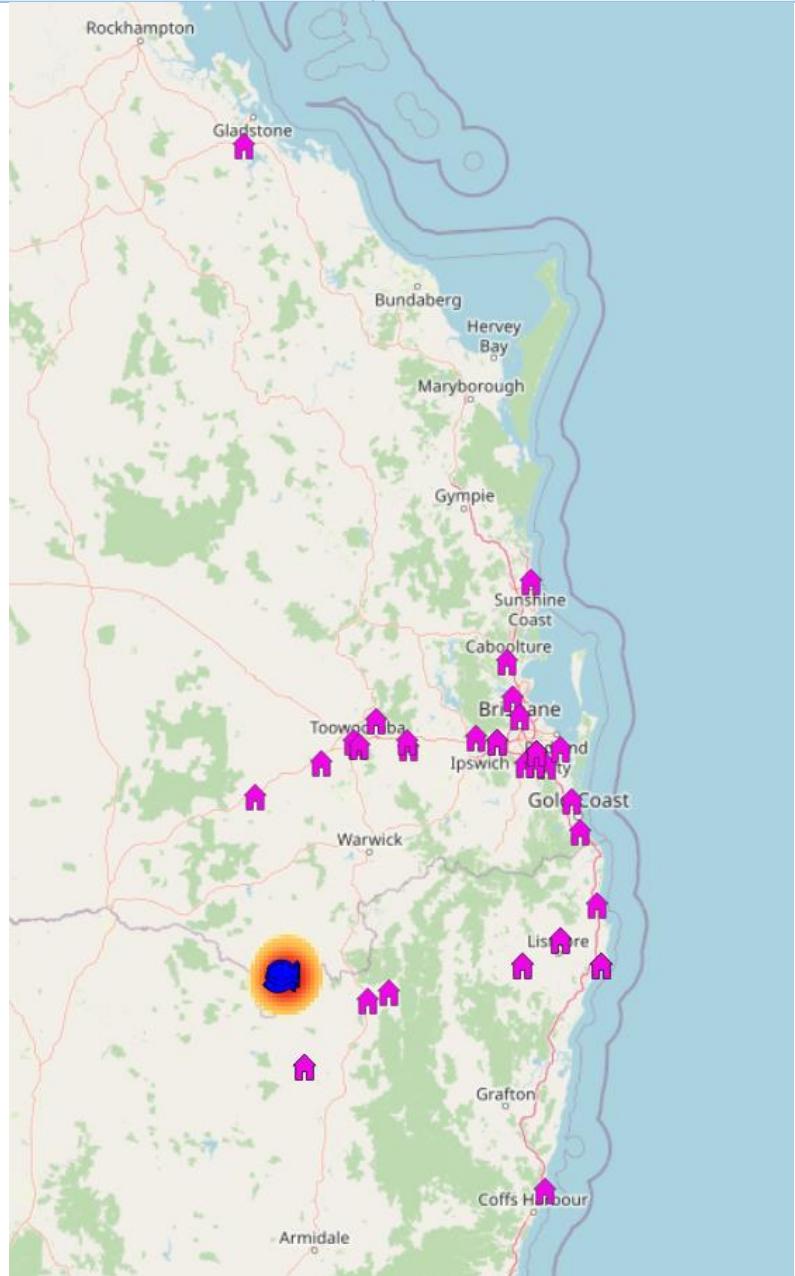
Fishers	45
Local	0 (0%)
Intrastate	31 (69%)
Interstate	14 (31%)

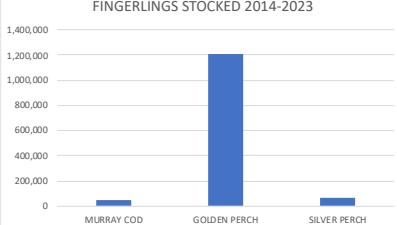
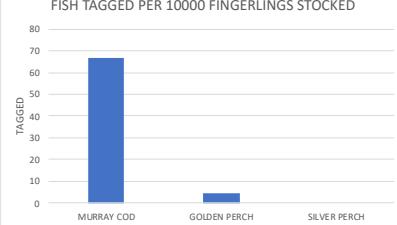
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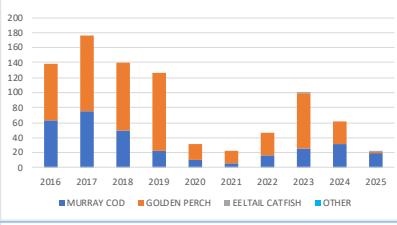


Where fishers recapturing fish live (pink houses)

Local
Intrastate
Interstate
2021-2025



SPECIES STOCKED																																										
MURRAY COD	GOLDEN PERCH	SILVER PERCH																																								
																																										
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Fingerlings stocked 2014-2023 Able to be tagged 2016-2025	Fingerlings Murray Cod 45,100 Golden Perch 1,208,000 Silver Perch 65,000	 <p>FINGERLINGS STOCKED 2014-2023</p> <table border="1"> <thead> <tr> <th>Species</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>MURRAY COD</td> <td>45,100</td> </tr> <tr> <td>GOLDEN PERCH</td> <td>1,208,000</td> </tr> <tr> <td>SILVER PERCH</td> <td>65,000</td> </tr> </tbody> </table>	Species	Number	MURRAY COD	45,100	GOLDEN PERCH	1,208,000	SILVER PERCH	65,000																																
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				 <p>FISH 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>~170</td> <td>~10</td> </tr> <tr> <td>2017</td> <td>~180</td> <td>~15</td> </tr> <tr> <td>2018</td> <td>~180</td> <td>~25</td> </tr> <tr> <td>2019</td> <td>~100</td> <td>~5</td> </tr> <tr> <td>2020</td> <td>~30</td> <td>~10</td> </tr> <tr> <td>2021</td> <td>~10</td> <td>~5</td> </tr> <tr> <td>2022</td> <td>~10</td> <td>~5</td> </tr> <tr> <td>2023</td> <td>~10</td> <td>~5</td> </tr> <tr> <td>2024</td> <td>~10</td> <td>~5</td> </tr> <tr> <td>2025</td> <td>~5</td> <td>~15</td> </tr> </tbody> </table>	Year	TAGGED	RECAPTURED	2016	~170	~10	2017	~180	~15	2018	~180	~25	2019	~100	~5	2020	~30	~10	2021	~10	~5	2022	~10	~5	2023	~10	~5	2024	~10	~5	2025	~5	~15																				
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EFFORT

Tag and effort
Fish tagged
Days fished
2016-2025

Fish tagged
Days fished

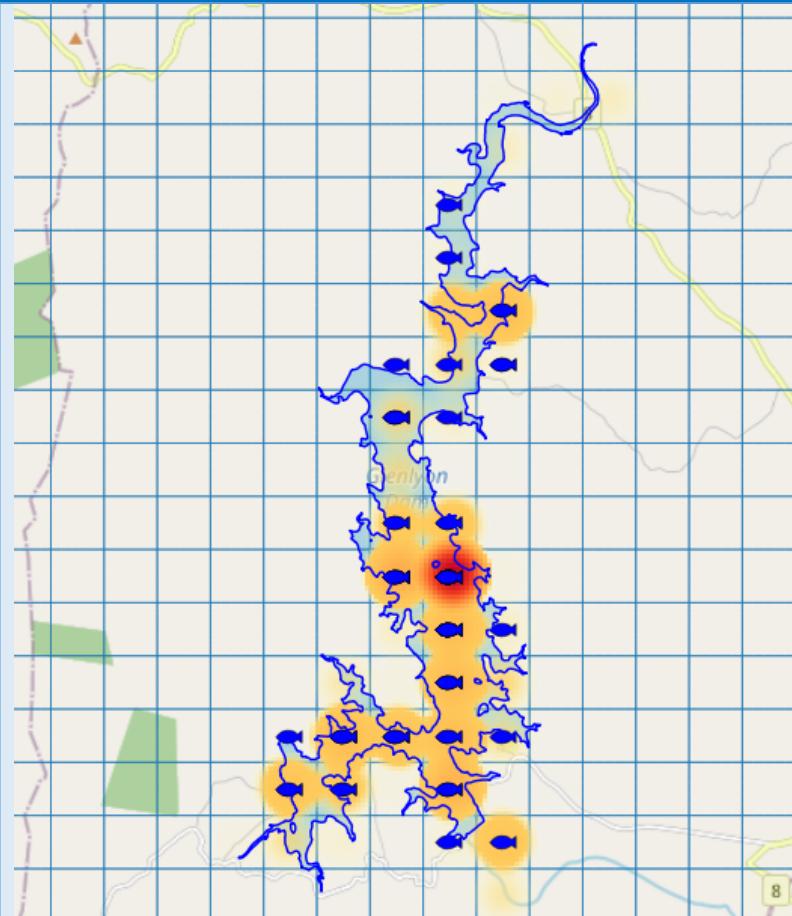
865
306



LOCATIONS

Tagged (red-orange heat map)
Recaptures (blue fish)
2016-2025

Tagged
Recaptured



MURRAY COD



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

Murray Cod

Tagged 318

Tagged

Recaptured 98

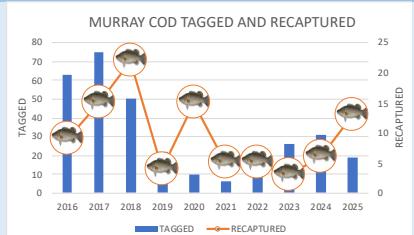
Recaptured (from year tagged)

Recapture rate 30.5%

2016-2025

Tagged 2025

19



Catch and effort taggers

High Low Now

Fish caught

Catch 2021 2025

Days fished

2017 2021 2025

2016-2025

75 6 19

Days

2017 2021 2025

59 11 14



Catch rate

High Low Now

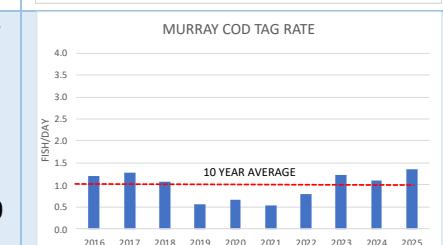
fish/day

Catch rate 2021 2025

2016-2025

1.3 0.5 1.4

10 year average



LENGTHS

Average length (mm) 2016-2025	High	Low	Now		
	2019	2022	2025		
	566	408	541		
	Largest				
	2016	2022	2025		
	1060	615	665		
Fish lengths percentage					
Undersize <600mm	Legal-trophy	Now			
Legal 600-999mm	2024	2025			
Trophy 1000+mm	3%	11%			
2016-2025	Trophy				
	2016	2025			
	18-24				
	2%	0%			
	0%	0%			

GROWTH

Murray Cod growth at end of each year Tagged fish <500mm Recaptured fish 2016-2025	Recaptures	20	
	Growth (mm)		
	Year 1	165	
	Year 2	257	
	Year 3	311	
	Year 4	349	
	Year 5	379	

SURVIVAL

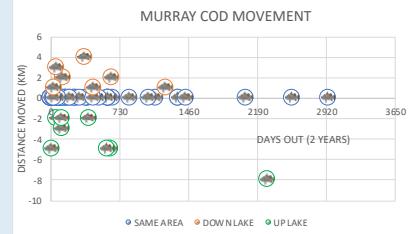
Murray Cod survival based on recaptures by years out after tagging All years	Survival rate by years out		
	Year	Recaptures	
	1	139	
	5	22	
	10	3	
	Longest time out (years)		
Survival rates each year after tagging All years	Average	0.67 (67%)	
	Range	0.47-0.76	

MOVEMENT

Murray Cod movement

Days out

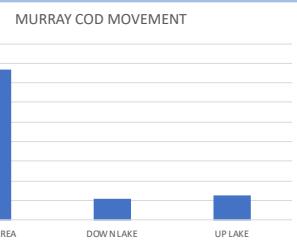
2016-2025



Murray Cod movement

2016-2025

Recaptures	64
Same area	49 (77%)
Down lake	7 (11%)
Up lake	8 (13%)
Outside lake	0 (0%)



LOCATIONS

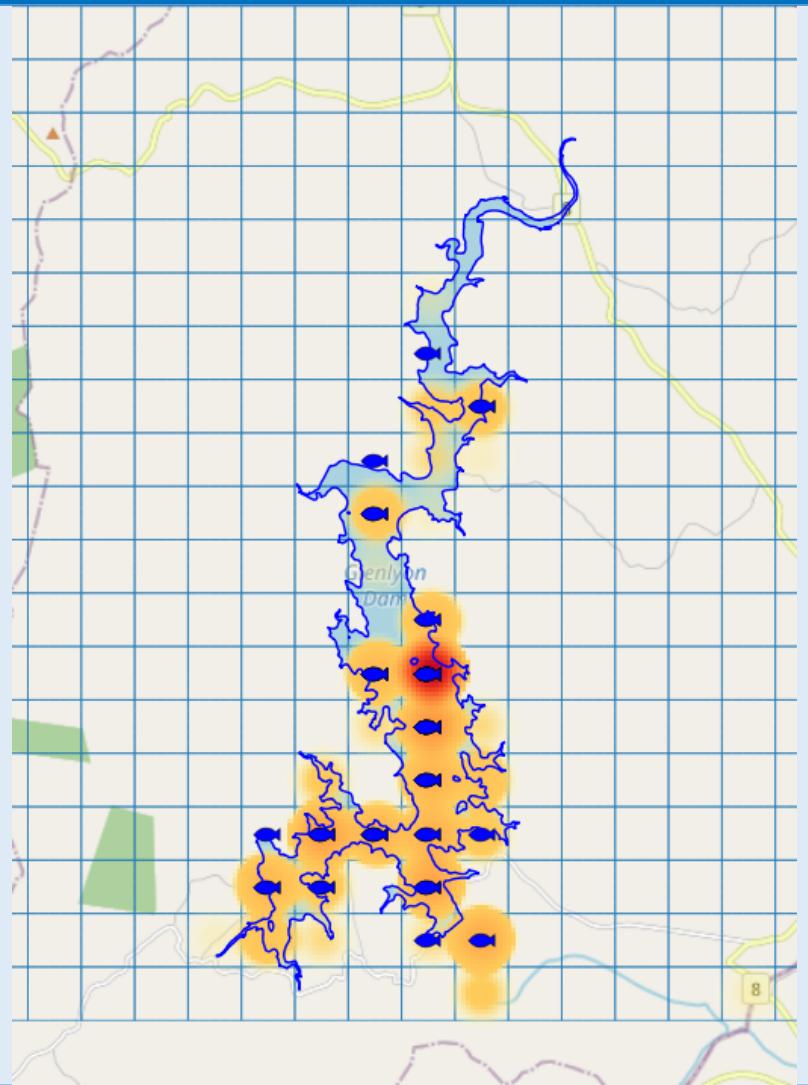
Murray Cod locations

Tagged (red-orange heat map)

Recaptured (blue fish)

2016-2025

Tagged	318
Recaptured	98



GOLDEN PERCH



DATA RELIABILITY

Sample size (fish/year)

Reliability level	LOW	MODERATE	MODERATE	HIGH
Samples	10	41	68	271

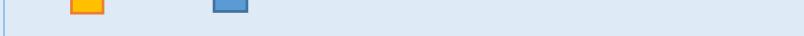
Tagged (blue arrow)

Confidence	80%	80%	90%	90%	95%	99%
Error	20%	10%	10%	5%	5%	5%

Recaptures (orange arrow)

Confidence %	80%	80%	90%	90%	95%	99%
Error %	20%	10%	10%	5%	5%	5%

2021-2025



TAGGED AND TAG RATE

Golden Perch

Tagged 545

Tagged

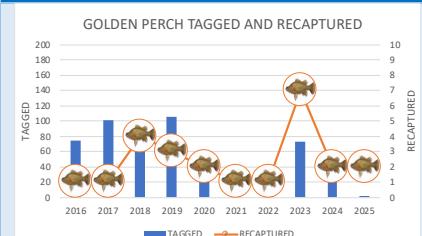
Recaptured 24

Recaptured

Recapture rate 4.4%

2016-2025

Tagged 2025 2



Catch and effort taggers

High Low Now

Fish caught

Catch 2021 2025

Days fished

2019 2021 2025

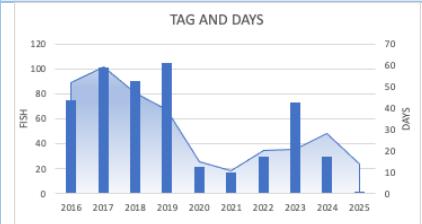
2016-2025

105 17 2

Days

2017 2021 2025

59 11 14



Catch rate

High Low Now

Fish/day

Catch rate 2024 2025

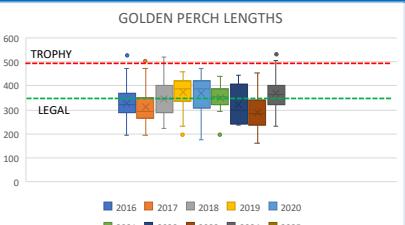
2016-2025

3.5 1.1 0.1

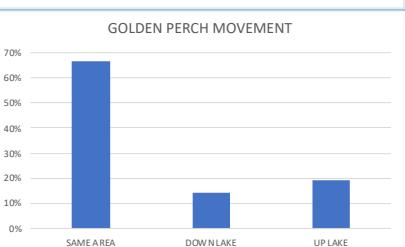
10 year average 1.8



LENGTHS

Average length (mm) 2016-2025	High 2019 375 Largest 2024 535	Low 2017 313 2021 440	Now 2025 NA 2025 NA	
	Fish lengths percentage	High	Low	Now
	Undersize <300mm	Legal-trophy		
	Legal 300-499mm	2021	2023	2025
	Trophy 500+mm	88%	47%	NA
	2016-2025	Trophy 2024 11%	19-23 0%	2025 NA

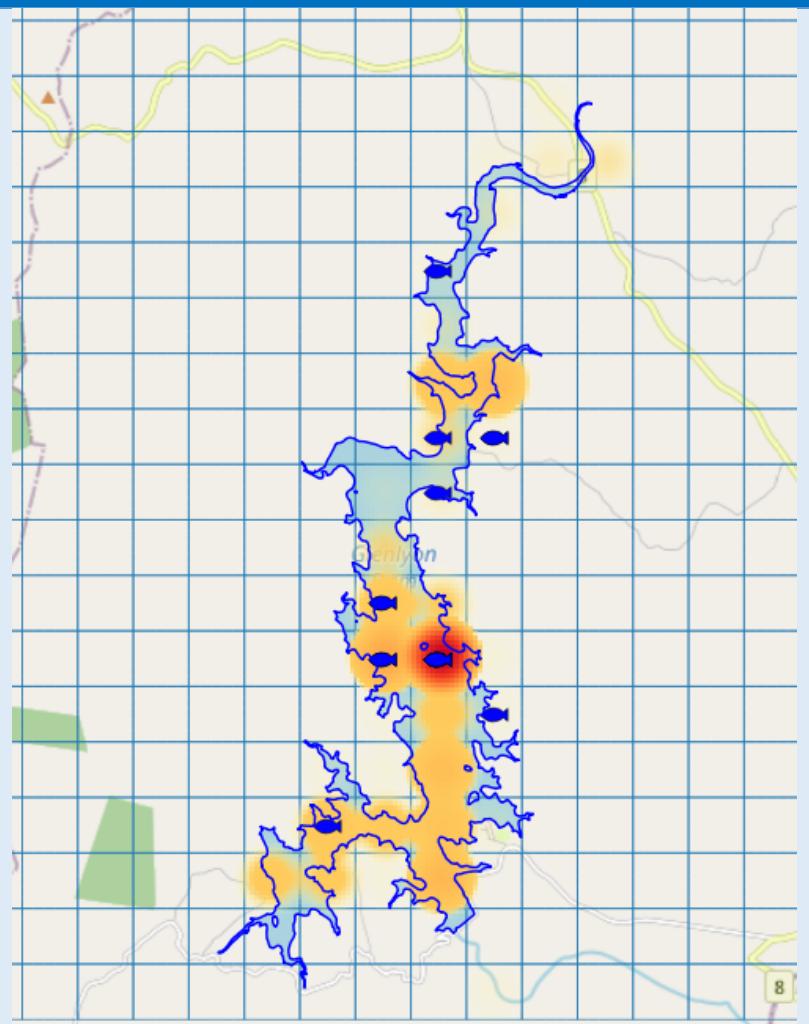
MOVEMENT

Golden Perch movement Days out 2016-2025			
	Recaptures Same area Down lake Up lake Outside lake	20 14 (67%) 3 (14%) 4 (19%) 0 (0%)	

LOCATIONS

Golden Perch locations
Tagged (red-orange heat map)
Recaptured (blue fish)
2016-2025

Tagged 545
Recaptured 24



RECAPTURES AFTER LOW LAKE LEVEL

Recaptures after Feb 2020

Lake at 3-4% for 124 days

8/10/2019-9/2/2020

Fish tagged 2011-2019

Recaptured after 1/2/2020

Tagged before low level

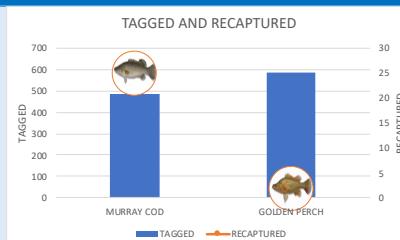
Murray Cod 483

Golden Perch 583

Recaptures after low level

Murray Cod 25

Golden Perch 2

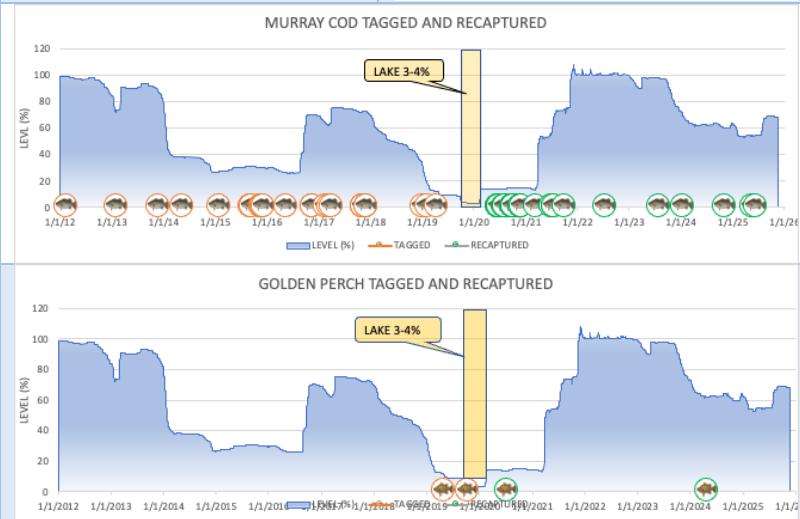


Fish tagged prior Oct 2019

(orange fish)

Recaptured after 1/2/2020

(green fish)



EELTAIL CATFISH

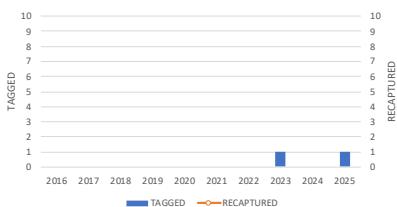


**Catfish tagged
2016-2025**

Tagged
Recaptured

2
0

CATFISH TAGGED AND RECAPTURED



SILVER PERCH



**Silver Perch tagged
2016-2025**

Tagged
Recaptured

0
0

SILVER PERCH TAGGED AND RECAPTURED



Data sources

Data used in the Lake Glenlyon Crystal Bowl are:

- Tag records and recapture records for the impoundment at <http://crystalbowl.infofishaustralia.com.au/>.
- Dam level data from Sunwater at <https://www.sunwater.com.au/water-data/historical-dam-capacity/>.
- Stocked fish records from <https://www.data.qld.gov.au/dataset/queensland-freshwater-fish-stocking-records/>.
- Bathymetric data from Infofish survey.
- Rainfall records for Station 041430 Glenlyon Dam and temperature records for Station 041100 Texas Post Office 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/days fished for taggers with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate.
- Undersized Murray Cod are <600mm, Legal fish are >=600 and <1000mm and trophy fish are >=1000mm.
- Undersized Golden Perch 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 LGP 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 postcodes starting with 4, interstate other than Qld.