





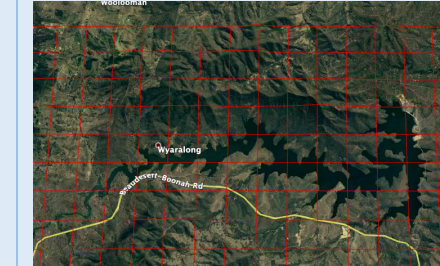
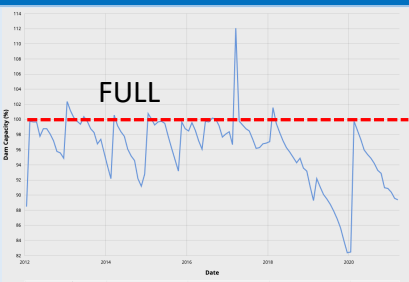
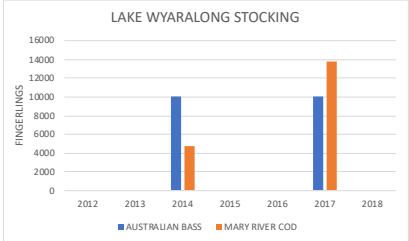
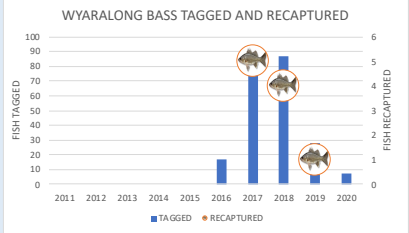
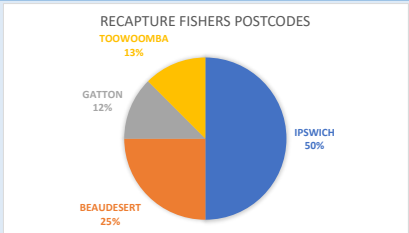
LAKE WYARALONG AUSTRALIAN BASS 2011-2020 2020 REVIEW



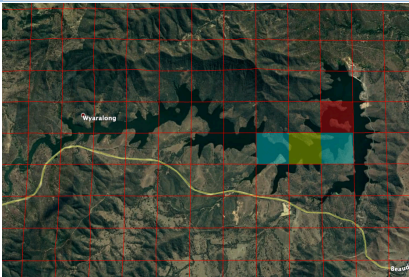
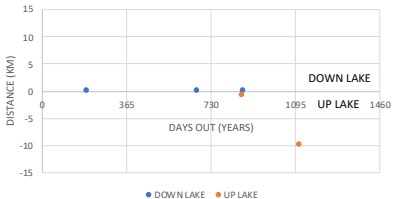
AVAILABLE		AVAILABLE	
Dam capacity	✓	Storage level	✓
Stocked fish numbers	✓	Bathymetry	
Tagged fish	✓	Recaptures	✓
Postcodes	✓	Competitions	
Species		Australian Bass	
Catch rates	✓	Fish sizes	✓
Growth		Survival	
Tag locations	✓	Fish Movement	✓
Species		Mary River Cod	
Catch rates		Fish sizes	✓
Growth		Survival	
Tag locations		Fish Movement	







Summary

- Wyaralong dam was completed in 2011 and filled in 2012
- The lake was first stocked in 2014 with tagging commencing in 2016
- From 2014-2018 there were 20K Bass and 13.8K Mary River Cod fingerlings released
- From 2016-2020 there were 219 Bass tagged for 10 recaptures (4.6%) and 2 Mary River Cod recorded
- The catch rate for Bass ranged from 5.3 fish/fisher day in 2017 to 2.7 in 2019
- The average length for Bass rose steadily from 325mm in 2016 (2 years after first stocking) to 375mm in 2019
- Recaptured Bass have mostly been caught in the same area as tagged or have moved up the lake
- Most postcodes of fishers recapturing fish are Ipswich area 50% and Beaudesert 25% however recapture number are low

Infish Australia
March 2021

LAKE WYARALONG	LOCATION	GRID MAP LWY																					
																							
MEASURE	ACTUAL	GRAPH																					
Surface area Lake level	Surface area 12.3km ² Level at 1 Mar 2021 89.4% For latest level https://www.segwater.com.au/historic-dam-levels																						
Fingerlings stocked 2011-2018	<table><tr><th>HIGHEST</th><th>LOWEST</th><th>TOTAL</th></tr><tr><td>BASS</td><td></td><td></td></tr><tr><td>2014</td><td>2017</td><td></td></tr><tr><td>10K</td><td>10K</td><td>20K</td></tr><tr><td>MARY RIVER COD</td><td></td><td></td></tr><tr><td>2017</td><td>2016</td><td></td></tr><tr><td>13.8K</td><td>4.8K</td><td>18.6K</td></tr></table>	HIGHEST	LOWEST	TOTAL	BASS			2014	2017		10K	10K	20K	MARY RIVER COD			2017	2016		13.8K	4.8K	18.6K	
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Bass tagged and recaptured 2011-2021	<table><tr><th>TAGGED</th><th>RECAPTURED</th></tr><tr><td>219</td><td>10</td></tr><tr><td colspan="2">RECAPTURE RATE</td></tr><tr><td colspan="2">4.6%</td></tr></table>	TAGGED	RECAPTURED	219	10	RECAPTURE RATE		4.6%															
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Mary River Cod 2011-2021	<table><tr><th>FISH RECORDED</th><th></th></tr><tr><td>2019</td><td>2020</td></tr><tr><td>1</td><td>1</td></tr></table>	FISH RECORDED		2019	2020	1	1																
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Postcodes of recapture fishers 2011-2021	<table><tr><td>Recaptures</td><td>10</td></tr><tr><td>Region</td><td>Fishers</td></tr><tr><td>Ipswich</td><td>50%</td></tr><tr><td>Beaudesert</td><td>25%</td></tr><tr><td>Gatton</td><td>12%</td></tr><tr><td>Toowoomba</td><td>13%</td></tr></table>	Recaptures	10	Region	Fishers	Ipswich	50%	Beaudesert	25%	Gatton	12%	Toowoomba	13%										
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LAKE WYARALONG			AUSTRALIAN BASS
			
Catch and effort number of fish fisher days T20 taggers 2011-2020	HIGHEST CATCH 2018 85 EFFORT 2018 18	LOWEST 2019 27 2019 10	NOW 2020 7 2020 3
Catch rate Fish/fisher day 2011-2020	HIGHEST 2017 5.3 5 YEAR AVERAGE	LOWEST 2019 2.7	NOW 2021 10.3 5.4
Average length (mm) Bars show smallest and largest fish 2011-2020	HIGHEST AVERAGE LENGTH 2012 375 LARGEST 2021 480	LOWEST 2016 325	NOW 2021 414
Fish length percentage (%) Undersize <300mm Legal 300-499mm Trophy 500+mm 2011-2020	HIGHEST LEGAL 2018 97.6 TROPHY 0	LOWEST 2017 66.3	NOW 2021 100
Grid locations of tagged fish (map LWY) 2011-2020	Grids where most fish caught GRID FISH O5 142 N6 39 O5 25 M6 23		
Bass movements 2011-2020	Recaptures Insufficient data Recaptured same area Up lake 2	10 5 3	WYARALONG BASS MOVEMENT 

LAKE WYARALONG		MARY RIVER COD
		
MEASURE	ACTUAL	GRAPH or MAP
All measures 2011-2020	Fish recorded 2	LENGTHS 2019 2020 640 510
  Product of Infofish Australia		  Supported by Suntag and FFSAQ

Data sources

Data used in the Wyaralong 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/>

Basis for analysis

- 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 Bass are <300mm, legal fish are ≥300 and <500mm and trophy fish are ≥500mm
- Locations based on Infofish grid map LWY for the impoundment and other grid maps where fish were recaptured outside the impoundment