



LAKE MAROON
AUSTRALIAN BASS AND GOLDEN PERCH 2011-2020
2020 REVIEW



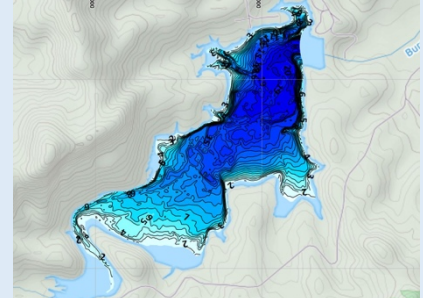

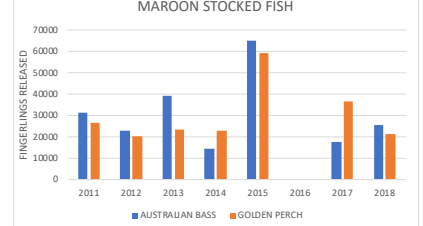
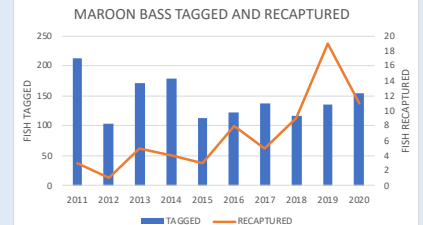
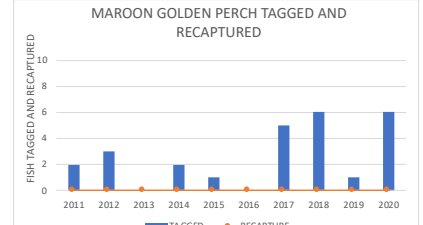

Stocked fish numbers, tagged and recaptured fish, catch rates, fish sizes, growth, survival, locations and recapture fisher postcodes

The following dashboard provides a summary of Australian Bass and Golden Perch data from Lake Maroon covering the past 10 years.

Summary

- Dam level at the 31 Dec 2020 was 49.3%
- From 2011-2018 there were 216.7K Bass and 210.1K Golden Perch fingerlings released
- The number of fingerlings released was roughly the same but there were 1,446 Bass tagged for 68 recaptures (4.7%) while there were just 26 Golden Perch tagged for 0 recaptures
- The catch rate for Bass in 2020 was 8.2 fish/fisher day while the 10 year average historic catch rate was 9.8 fish/fisher day
- The average length for Bass in 2020 was 321mm and ranged from 235-500mm
- The percentage of legal Bass in 2020 was 72.4% with 0.6% trophy fish 500mm and over
- Annual growth for Bass calculated from tag recaptures at the end of year 1 was 21mm and at the end of year 5 was 53mm
- Longest time out for a Bass after tagging is mostly around 12 years however 1 fish was recaptured after 19.4 years
- Over the past 10 years most fish have been tagged in LMM map grids D3, C3 and B4
- Of the Bass tagged since 2011 there were 68 fish recaptured over the past 10 years and none have been recaptured outside the impoundment
- Over the past 10 years most postcodes of fishers recapturing fish are 4310 (Boonah area), 4305 (Ipswich) and 4280 (Jimboomba area)
- No fish have been recaptured by fishers with postcodes outside Queensland

Infofish Australia
January 2021

LAKE MAROON	LOCATION	BATHYMETRY																					
																							
MEASURE	ACTUAL	GRAPH																					
Surface area Lake level	Surface area 3.1km ² Level at 31 Dec 2020 49.3% For latest level https://www.seqwater.com.au/historic-dam-levels																						
Fingerlings stocked 2011-2018	<table border="1"> <thead> <tr> <th>HIGHEST</th> <th>LOWEST</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td colspan="3">BASS</td> </tr> <tr> <td>2015</td> <td>2016</td> <td></td> </tr> <tr> <td>65.3K</td> <td>0</td> <td>216.7K</td> </tr> <tr> <td colspan="3">GOLDEN PERCH</td> </tr> <tr> <td>2015</td> <td>2016</td> <td></td> </tr> <tr> <td>59.2K</td> <td>0</td> <td>210.1K</td> </tr> </tbody> </table>	HIGHEST	LOWEST	TOTAL	BASS			2015	2016		65.3K	0	216.7K	GOLDEN PERCH			2015	2016		59.2K	0	210.1K	
HIGHEST	LOWEST	TOTAL																					
BASS																							
2015	2016																						
65.3K	0	216.7K																					
GOLDEN PERCH																							
2015	2016																						
59.2K	0	210.1K																					
Bass tagged and recaptured 2011-2020	<table border="1"> <thead> <tr> <th>TAGGED</th> <th>RECAPTURED</th> </tr> </thead> <tbody> <tr> <td>1446</td> <td>68</td> </tr> <tr> <td colspan="2">RECAPTURE RATE</td> </tr> <tr> <td colspan="2">4.7%</td> </tr> </tbody> </table>	TAGGED	RECAPTURED	1446	68	RECAPTURE RATE		4.7%															
TAGGED	RECAPTURED																						
1446	68																						
RECAPTURE RATE																							
4.7%																							
Golden Perch tagged and recaptured 2011-2020	<table border="1"> <thead> <tr> <th>TAGGED</th> <th>RECAPTURED</th> </tr> </thead> <tbody> <tr> <td>26</td> <td>0</td> </tr> <tr> <td colspan="2">RECAPTURE RATE</td> </tr> <tr> <td colspan="2">0%</td> </tr> </tbody> </table>	TAGGED	RECAPTURED	26	0	RECAPTURE RATE		0%															
TAGGED	RECAPTURED																						
26	0																						
RECAPTURE RATE																							
0%																							
Postcodes of recapture fishers 2011-2020	<table border="1"> <thead> <tr> <th>Recaptures</th> <th>125</th> </tr> <tr> <th>POSTCODE</th> <th>FISHERS</th> </tr> </thead> <tbody> <tr> <td>4310</td> <td>21</td> </tr> <tr> <td>4305</td> <td>16</td> </tr> <tr> <td>4280</td> <td>6</td> </tr> <tr> <td>OTHER STATES</td> <td>NIL</td> </tr> <tr> <td>No code</td> <td>15</td> </tr> </tbody> </table>	Recaptures	125	POSTCODE	FISHERS	4310	21	4305	16	4280	6	OTHER STATES	NIL	No code	15								
Recaptures	125																						
POSTCODE	FISHERS																						
4310	21																						
4305	16																						
4280	6																						
OTHER STATES	NIL																						
No code	15																						

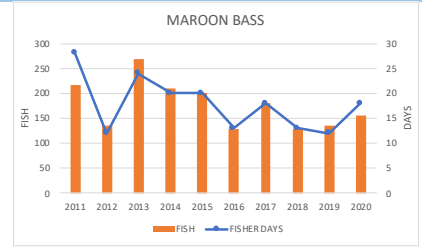
LAKE MAROON

AUSTRALIAN BASS



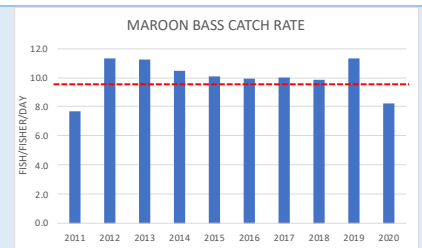
**Catch and effort
number of fish
fisher days
T20 taggers
2011-2020**

HIGHEST	LOWEST	NOW	
CATCH	2013	2018	2020
	269	128	156
EFFORT	2011	2019	2020
	28	12	19



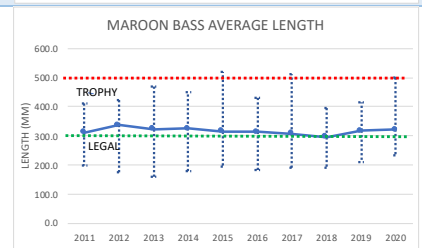
**Catch rate
Fish/fisher day
2011-2020**

HIGHEST	LOWEST	NOW
2019	2011	2020
11.3	7.7	8.2
10 YEAR AVERAGE		9.8



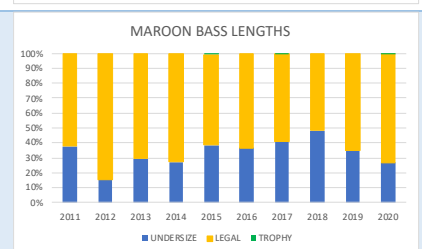
**Average length (mm)
Bars show smallest and
largest fish
2011-2020**

HIGHEST	LOWEST	NOW	
AVERAGE LENGTH	2012	2018	2020
	337	296	321
LARGEST	2015	2011	2020
	520	410	500



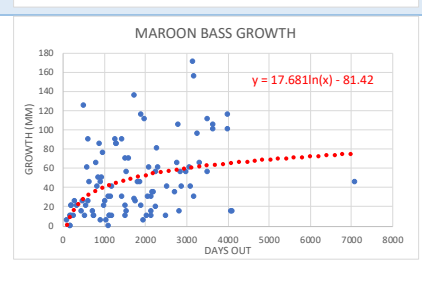
**Fish length percentage (%)
Undersize <300mm
Legal 300-499mm
Trophy 500+mm
2011-2020**

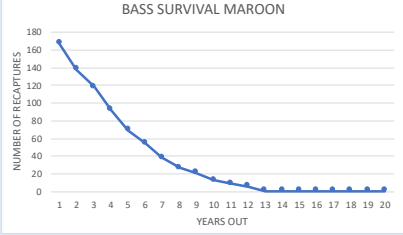
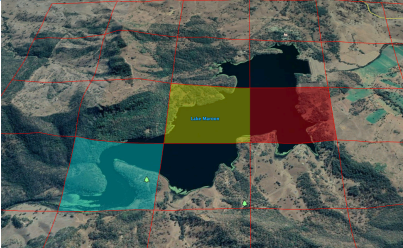
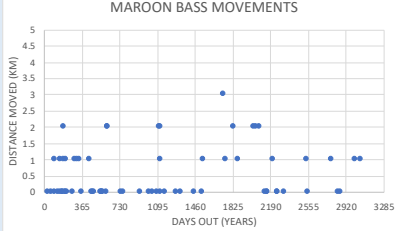
HIGHEST	LOWEST	NOW	
LEGAL	2012	2018	2020
	84.6	51.6	72.4
TROPHY	2015	2019	2020
	1.0	0	0.6








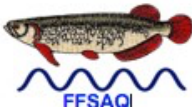
**Bass growth
based on recaptures
2011-2020**

Recaptures	100
ANNUAL GROWTH	
Year 1	21mm
Year 2	35mm
Year 3	43mm
Year 4	49mm
Year 5	53mm



Bass survival based on recaptures by years out after tagging	Survival rate by years out Year Recaptures 1 167 5 69 10 13 13 1 Longest time out (years) 19.4 1	
Grid locations of tagged fish (map LMM) 2011-2020	Grids where most fish caught GRID FISH D3 354 C3 293 B4 263	
Bass movements 2011-2020	Recaptures 68 Recaptured same area 41 (60.3%) Outside lake 0	

LAKE MAROON		GOLDEN PERCH	
			
MEASURE	ACTUAL	GRAPH or MAP	
All measures 2011-2020	Insufficient data Fish recorded 30		

  <p>Product of Infofish Australia</p>	  <p>Supported by Suntag and FFSAQ</p>
--	---

Data sources

Data used in the Impoundment 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/>
- Bathymetric data from Infofish surveys or other sources

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 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 LMM 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