



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



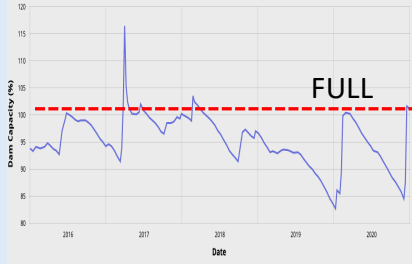
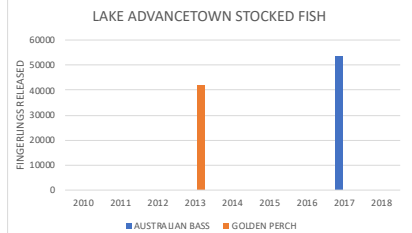
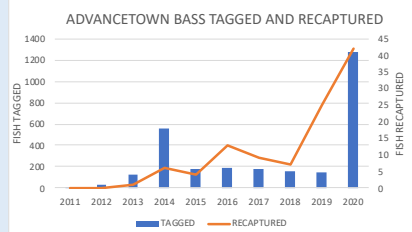
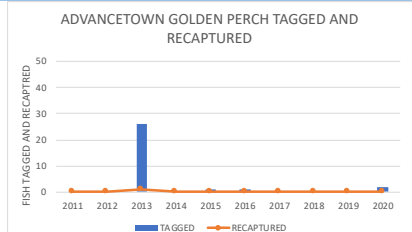
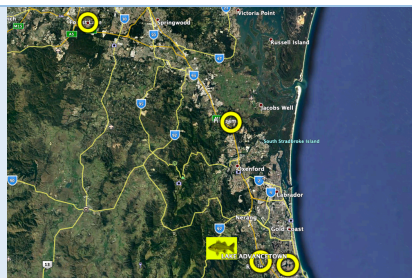
**Stocked fish numbers, tagged and recaptured fish, catch rates, fish sizes, growth, survival, locations and recapture fisher postcodes**

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

### Summary

- Fishing in the lake is limited to electric motors only
- Dam level on 28 Dec 2020 was 101.2%
- From 2011-2018 there were 53K Bass and 42K Golden Perch fingerlings released
- From 2011-2020 there were 2,845 Bass tagged for 107 recaptures (3.8%) while there were just 30 Golden Perch tagged for 1 recapture (3.3%)
- The Bass catch rate in 2020 was 13.0 fish/fisher day which was above the average historic catch rate of 9.5 fish/fisher day and the highest catch rate over the past 10 years but was influenced by large catches of 20+ fish on 18% of trips using bait
- The Bass average length in 2020 was 336mm and ranged from 200-570mm
- The percentage of legal Bass in 2020 was 60.8% with 3.3% trophy fish 500mm and over being the highest percentage of trophy fish in the last 10 years
- Over the past 10 years most Bass have been tagged in ADV map grids C32, C31, C33 in the western arm and H33 and D30 in the eastern arm
- Annual Bass growth calculated from tag recaptures at the end of year 1 is 34mm and at the end of year 5 is 72mm
- Of the 92 fish recaptured over the past 10 years only 2 has been recaptured outside the impoundment below the dam in the Nerang River
- Over the past 10 years most postcodes of fishers recapturing fish are 4227 (Varsity Lakes area), 4213 (Mudgeeraba area), 4118 (Browns Plains area) and 4209 (Coomera area)
- There have been 4 fish recaptured by fishers with postcodes outside Queensland with all from just over the border in NSW

Infofish Australia  
January 2021

LAKE ADVANCETOWN	LOCATION	BATHYMETRY
		
MEASURE	ACTUAL	GRAPH or MAP
<b>Surface area</b> <b>Lake capacity</b>	Surface area 18.0km <sup>2</sup> Level at 28 Dec 2020 101.2% For latest level <a href="https://www.seqwater.com.au/historic-dam-levels">https://www.seqwater.com.au/historic-dam-levels</a>	
<b>Fingerlings stocked</b> <b>2011-2018</b>	<b>TOTAL BASS</b> 53,371 <b>TOTAL GOLDEN PERCH</b> 42,000	
<b>Bass tagged and recaptured</b> <b>2011-2020</b>	<b>TAGGED</b> <b>RECAPTURED</b> 2845            107 <b>RECAPTURE RATE</b> 3.8%	
<b>Golden Perch tagged and recaptured</b> <b>2011-2020</b>	<b>TAGGED</b> <b>RECAPTURED</b> 30                1 <b>RECAPTURE RATE</b> 3.3%	
<b>Postcodes of recapture fishers</b> <b>2011-2020</b>	<b>Recaptures</b> <b>112</b> <b>POSTCODE</b> <b>FISHERS</b> 4227                12 4118                9 4209                9 4213                8 NSW                4	

# ADVANCETOWN

# AUSTRALIAN BASS



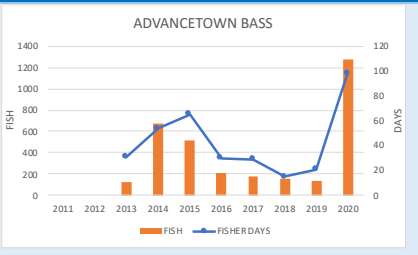
## MEASURE

## ACTUAL

## GRAPH or MAP

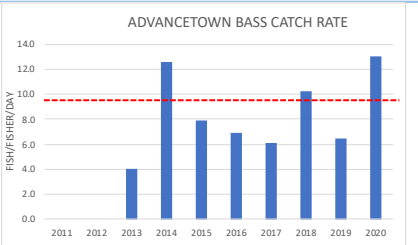
**Catch and effort**  
**number of fish**  
**fisher days**  
**T20 fishers (taggers)**  
**2011-2020**

HIGHEST	LOWEST	NOW
CATCH		
2014	2019	2020
679	135	1273
EFFORT		
2015	2018	2020
65	15	98



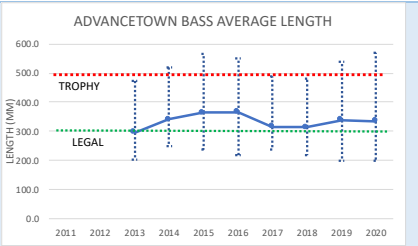
**Catch rate**  
**Fish/fisher day**  
**2011-2020**

HIGHEST	LOWEST	NOW
CATCH RATE		
2014	2017	2020
12.6	6.1	13.0
10 YEAR AVERAGE		9.5



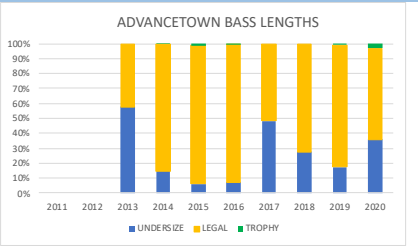
**Average length (mm)**  
**Bars show smallest and largest fish**  
**2011-2020**

HIGHEST	LOWEST	NOW
2016	2013	2020
367	296	336
LARGEST		
2015	2013	2020
565	475	570



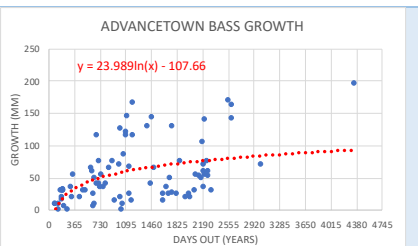
**Fish lengths percentage**  
**Undersize <300mm**  
**Legal 300-499mm**  
**Trophy 500+mm**  
**2011-2020**

HIGHEST	LOWEST	NOW
LEGAL		
2015	2013	2020
92.8	42.4	60.8
TROPHY		
2015	2018	2020
1.2	0	3.3






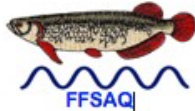


**Bass growth at end of each year based on all recaptures**

Recaptures	86
GROWTH	
Year 1	34mm
Year 2	50mm
Year 3	60mm
Year 4	67mm
Year 5	72mm



<p><b>Bass survival based on recaptures by years out after tagging</b></p>	<p>Survival rate by years out</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Recaptures</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>111</td> </tr> <tr> <td>5</td> <td>37</td> </tr> <tr> <td>10</td> <td>1</td> </tr> <tr> <td>Longest time out (years)</td> <td>11.9</td> </tr> <tr> <td></td> <td>1</td> </tr> </tbody> </table>	Year	Recaptures	1	111	5	37	10	1	Longest time out (years)	11.9		1	
Year	Recaptures													
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5	37													
10	1													
Longest time out (years)	11.9													
	1													
<p><b>Grid locations of tagged fish 2011-2020</b></p>	<p>Grids where most fish caught</p> <table border="1"> <thead> <tr> <th>GRID</th> <th>FISH</th> </tr> </thead> <tbody> <tr> <td>C32</td> <td>695</td> </tr> <tr> <td>C33</td> <td>281</td> </tr> <tr> <td>C31</td> <td>279</td> </tr> <tr> <td>H33</td> <td>174</td> </tr> <tr> <td>D30</td> <td>135</td> </tr> </tbody> </table>	GRID	FISH	C32	695	C33	281	C31	279	H33	174	D30	135	
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<p><b>Bass movement in lake 2011-2020</b></p>	<table border="1"> <tbody> <tr> <td>Recaptures</td> <td>92</td> </tr> <tr> <td>Recaptured same area</td> <td>28 (30.4%)</td> </tr> <tr> <td>Up lake</td> <td>21</td> </tr> <tr> <td>Down lake</td> <td>28</td> </tr> <tr> <td>Between arms</td> <td>13</td> </tr> </tbody> </table>	Recaptures	92	Recaptured same area	28 (30.4%)	Up lake	21	Down lake	28	Between arms	13			
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<p><b>Bass recaptured outside impoundment 2011-2020</b></p>	<table border="1"> <tbody> <tr> <td>Below dam</td> <td>2</td> </tr> <tr> <td>Nerang River</td> <td>2</td> </tr> <tr> <td>Above lake</td> <td>0</td> </tr> </tbody> </table>	Below dam	2	Nerang River	2	Above lake	0							
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ADVANCETOWN		GOLDEN PERCH
		
MEASURE	ACTUAL	GRAPH
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>
- 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  $\geq 300$  and <500mm and trophy fish are  $\geq 500$ mm
- 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 ADV 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