



## BRISBANE RIVER AUSTRALIAN BASS 2011-2020

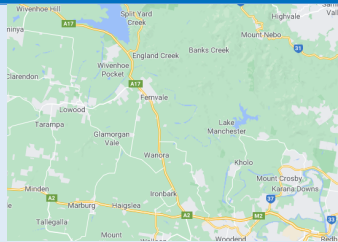
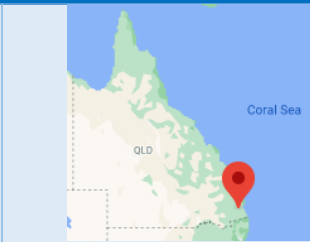

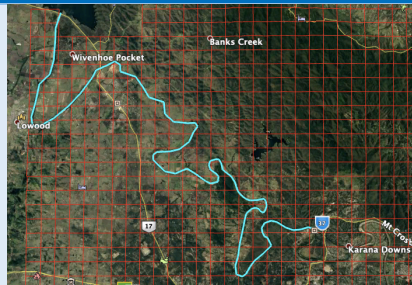
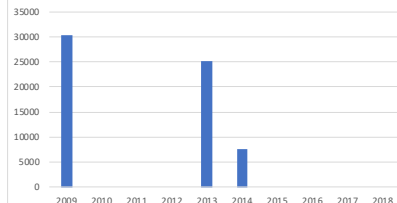
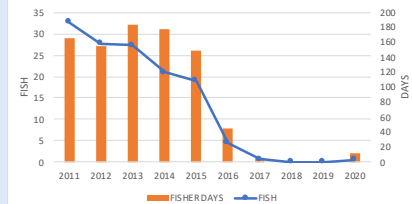
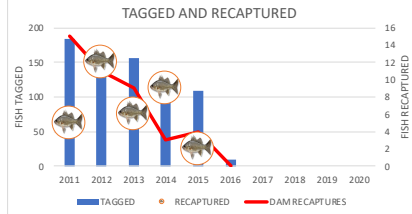
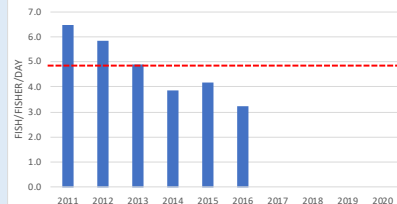
### 2020 UPDATE

AVAILABLE		AVAILABLE	
Species		Australian Bass	
Stocked fish numbers	✓		
Tagged fish	✓	Recaptures	✓
Catch rates	✓	Fish sizes	✓
Growth		Survival	
Tag locations	✓	Fish Movement	✓
Postcodes	✓	Competitions	

### Summary

- The stretch of the Brisbane River covered by this dashboard is from below Wivenhoe dam wall to Mount Crosby Weir and then to Colleges Crossing
- From 2011-2018 there were 63,045 fingerlings released with the latest release of 7,640 in 2014
- In 2011 there was major flooding in the Brisbane River with both Wivenhoe and Somerset dams spilling – this resulted in a large number of fish spilling into the Brisbane River
- From 2011-2016 spilled fish mixed with those stocked in the river and there were 42 recaptures of fish that spilled from the impoundments with one fish being tagged back in 1994 (17 years earlier)
- Of those fish 39 were tagged in Somerset, 1 tagged in Wivenhoe and 2 tagged in Cooyar Creek
- Catch data are only available from 2011-2016 as declining catch rates resulted in effort dropping to very low levels
- The catch rate was a high 6.4 fish/fisher day in 2011 and then declined annually to 3.3 in 2016 with no data since then
- The average length ranged from a high of 400mm in 2011 to a low of 312mm in 2013
- The percentage of legal fish was a high 78.5% in 2011 and a low of 58.4% in 2013
- Of the 733 fish tagged in the river there were 34 (4.6%) recaptures through to 2016 when fish effort dwindled
- Over the years most fish were tagged in MB05 map grids N14 and T21 (below Mount Crosby Weir)
- Of the 25 recaptures of fish tagged in the river 12 were recaptured in the same area as tagged while 5 moved upriver and 8 moved downriver
- Over the past 10 years most postcodes of fishers recapturing fish were from Ipswich (53%), Brisbane (30%) and Toowoomba (14%)

Infotish Australia  
March 2021

BRISBANE RIVER	LOCATION	AUSTRALIAN BASS																																												
																																														
MEASURE	ACTUAL	GRAPH or MAP																																												
<b>River length (km) Wivenhoe dam to Mount Crosby Weir</b>	Length 60km																																													
<b>Fingerlings stocked 2009-2018</b>	TOTALS BASS 63,045 HIGHEST 2009 30,303 LOWEST 2015-17 0 LATEST 2018 0	<p>BRISBANE RIVER STOCKED BASS</p>  <table><caption>BRISBANE RIVER STOCKED BASS</caption><thead><tr><th>Year</th><th>Stocked</th></tr></thead><tbody><tr><td>2009</td><td>30,303</td></tr><tr><td>2010</td><td>0</td></tr><tr><td>2011</td><td>0</td></tr><tr><td>2012</td><td>0</td></tr><tr><td>2013</td><td>25,000</td></tr><tr><td>2014</td><td>8,000</td></tr><tr><td>2015</td><td>0</td></tr><tr><td>2016</td><td>0</td></tr><tr><td>2017</td><td>0</td></tr><tr><td>2018</td><td>0</td></tr></tbody></table>	Year	Stocked	2009	30,303	2010	0	2011	0	2012	0	2013	25,000	2014	8,000	2015	0	2016	0	2017	0	2018	0																						
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<b>Catch and effort number of fish fisher days T20 fishers 2011-2020</b>	HIGHEST 2011 187 LOWEST 2018-19 0 NOW 2020 3 EFFORT 2013 32 2018-19 0 2020 2	<p>BRISBANE BASS CATCH AND EFFORT</p>  <table><caption>BRISBANE BASS CATCH AND EFFORT</caption><thead><tr><th>Year</th><th>Fisher Days</th><th>Fish</th></tr></thead><tbody><tr><td>2011</td><td>28</td><td>187</td></tr><tr><td>2012</td><td>25</td><td>180</td></tr><tr><td>2013</td><td>32</td><td>160</td></tr><tr><td>2014</td><td>25</td><td>140</td></tr><tr><td>2015</td><td>22</td><td>120</td></tr><tr><td>2016</td><td>10</td><td>80</td></tr><tr><td>2017</td><td>5</td><td>40</td></tr><tr><td>2018</td><td>2</td><td>20</td></tr><tr><td>2019</td><td>2</td><td>10</td></tr><tr><td>2020</td><td>2</td><td>3</td></tr></tbody></table>	Year	Fisher Days	Fish	2011	28	187	2012	25	180	2013	32	160	2014	25	140	2015	22	120	2016	10	80	2017	5	40	2018	2	20	2019	2	10	2020	2	3											
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<b>Fish tagged and recaptured 2011-2020</b>	TAGGED 733 RECAPTURED 34 RECAPTURE RATE 4.6% Recaptures from Somerset and Wivenhoe (red line) 42	<p>BRISBANE RIVER BASS TAGGED AND RECAPTURED</p>  <table><caption>BRISBANE RIVER BASS TAGGED AND RECAPTURED</caption><thead><tr><th>Year</th><th>Fish Tagged</th><th>Fish Recaptured</th><th>Dam Recaptures</th></tr></thead><tbody><tr><td>2011</td><td>180</td><td>10</td><td>10</td></tr><tr><td>2012</td><td>150</td><td>10</td><td>10</td></tr><tr><td>2013</td><td>120</td><td>10</td><td>10</td></tr><tr><td>2014</td><td>100</td><td>10</td><td>10</td></tr><tr><td>2015</td><td>80</td><td>10</td><td>10</td></tr><tr><td>2016</td><td>60</td><td>10</td><td>10</td></tr><tr><td>2017</td><td>40</td><td>10</td><td>10</td></tr><tr><td>2018</td><td>30</td><td>10</td><td>10</td></tr><tr><td>2019</td><td>20</td><td>10</td><td>10</td></tr><tr><td>2020</td><td>10</td><td>10</td><td>10</td></tr></tbody></table>	Year	Fish Tagged	Fish Recaptured	Dam Recaptures	2011	180	10	10	2012	150	10	10	2013	120	10	10	2014	100	10	10	2015	80	10	10	2016	60	10	10	2017	40	10	10	2018	30	10	10	2019	20	10	10	2020	10	10	10
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<b>Average length (mm)</b> <b>Bars show smallest to largest fish</b> <b>Dots show outliers</b> <b>2011-2020</b>	<table><tr><td>HIGHEST</td><td>LOWEST</td><td>NOW</td></tr><tr><td>2011</td><td>2013</td><td>2020</td></tr><tr><td>400</td><td>312</td><td>NA</td></tr><tr><td>LARGEST</td><td></td><td></td></tr><tr><td>2011</td><td>2016</td><td>2020</td></tr><tr><td>555</td><td>410</td><td>NA</td></tr></table>	HIGHEST	LOWEST	NOW	2011	2013	2020	400	312	NA	LARGEST			2011	2016	2020	555	410	NA				
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<b>Grid locations of tagged fish (map MB05)</b> <b>2011-2020</b>	<table><tr><td colspan="2">Grids where most fish caught</td></tr><tr><td>GRID</td><td>FISH</td></tr><tr><td>N14</td><td>212</td></tr><tr><td>T21</td><td>150</td></tr><tr><td>G2</td><td>39</td></tr><tr><td>E2</td><td>38</td></tr><tr><td>V15</td><td>34</td></tr></table>	Grids where most fish caught		GRID	FISH	N14	212	T21	150	G2	39	E2	38	V15	34								
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<b>Timeline of Bass tagged in Somerset and Wivenhoe and recaptured in Brisbane River after 2011 flood</b>	<table><tr><td>Recaptures</td><td>42</td></tr><tr><td>Earliest date tagged</td><td>31/12/1994</td></tr><tr><td>Latest date tagged</td><td>31/7/2010</td></tr></table>	Recaptures	42	Earliest date tagged	31/12/1994	Latest date tagged	31/7/2010																
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<b>Previous report</b>	Monitoring Australian Bass in the Brisbane River 1990-2013 Available at <a href="http://infofishaustralia.com.au/brisbane-river/">http://infofishaustralia.com.au/brisbane-river/</a>	
  <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 MB05 for the river and other grid maps where fish were recaptured outside the impoundment
- Distance moved was calculated as the shortest distance by water between the tag and recapture location using Google Earth