



CAIRNS STOCKED BARRAMUNDI 2011-2020 2020 ANNUAL UPDATE

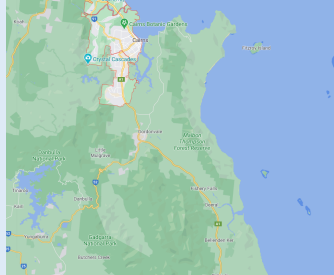

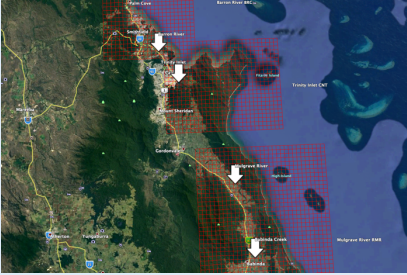
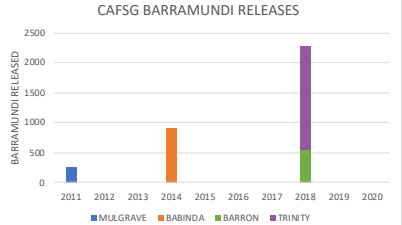
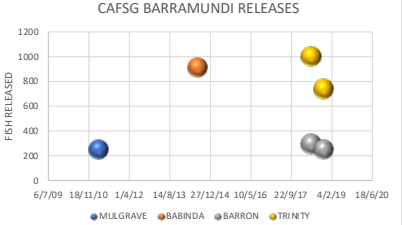
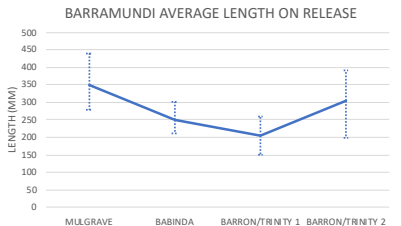
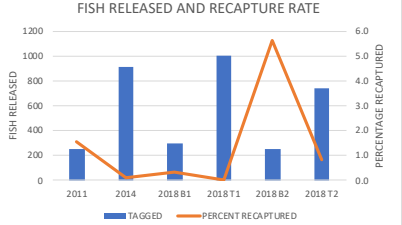
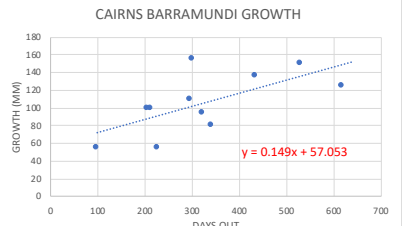
Stocked tagged fish, recaptures, survival and growth

The following dashboard provides a summary of tagged Barramundi released by the Cairns Area Fish Stocking Group over the past 10 years.

Summary

- ✦ From 2011-2018 there were 6 releases of tagged Barramundi in Trinity Inlet and the Barron River with a total of 4,350 fish released
- ✦ The average size of released fish ranged from 205-349mm
- ✦ The number of recaptures from each release is low when compared with other areas where similar sized fish were tagged and stocked (up to 10% for similar fish stocked in the Fitzroy River)
- ✦ Only the release in the Barron River on 30/10/2018 had a reasonable recapture rate at 5.6%
- ✦ Winter releases in 2014 (911 fish) and 2018 (1,294 fish) yielded just 1 recapture
- ✦ Given the sizes of fish when released the survival rate should be high but the winter releases do not appear to reflect that
- ✦ Due to the low number of recaptures the growth rate needs to be treated with caution but was estimated at 111mm in the first year after release
- ✦ 79% of recaptures from fish released in 2018 were in the same area as tagged (within 1km) with the maximum distance moved being 8km
- ✦ All recaptures were made by fishers from Cairns and close surrounds

Infofish Australia
December 2020

CAIRNS STOCKING	BARRAMUNDI	STOCKING LOCATIONS																					
																							
MEASURE	ACTUAL	GRAPH																					
Fish tagged and released	2011 Mulgrave River 255 2014 Babinda Creek 911 2018 Barron River 545 2018 Trinity Inlet 1739	 <p>CAFSG BARRAMUNDI RELEASES</p>																					
Release dates	Mulgrave 27/3/2011 Babinda 27/7/2014 Barron/Trinity 1 1/6/2018 Barron/Trinity 2 30/10/2018	 <p>CAFSG BARRAMUNDI RELEASES</p>																					
Fish lengths (mm) on release	<table border="1"> <thead> <tr> <th></th> <th>Average</th> <th>Low</th> <th>High</th> </tr> </thead> <tbody> <tr> <td>Mul</td> <td>349</td> <td>280</td> <td>440</td> </tr> <tr> <td>Bab</td> <td>251</td> <td>210</td> <td>300</td> </tr> <tr> <td>B/T1</td> <td>205</td> <td>150</td> <td>260</td> </tr> <tr> <td>B/T2</td> <td>304</td> <td>200</td> <td>390</td> </tr> </tbody> </table>		Average	Low	High	Mul	349	280	440	Bab	251	210	300	B/T1	205	150	260	B/T2	304	200	390	 <p>BARRAMUNDI AVERAGE LENGTH ON RELEASE</p>	
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Growth from 2018 release	Number of fish 11 Year 1 growth 111mm Year 2 growth 165mm	 <p>CAIRNS BARRAMUNDI GROWTH</p>																					

Fish movement from 2018 release	Number of fish 19 Recaptured same area 15 (78.9%) Maximum distance moved 8km	
Postcodes of recapture fishers 2018	Number of recaptures 21 Postcode 4870 19 4869 1 4868 1	
<p>Product of Infotech Australia</p>		<p>Supported by Suntag and FFSAQ</p>

DATA SOURCES

Data used in the Cairns Barramundi Crystal Bowl:

- ✦ Tag records and recapture records for the Cairns area at <http://crystalbowl.infofishaustralia.com.au/>

BASIS FOR ANALYSIS

- ✦ Growth calculated using linear trendline from recaptures where fish were out for 90 days or more and had positive growth
- ✦ Tag and recapture locations based on Infotech grid maps for the area with 1km² grids
- ✦ Distance moved was calculated between the grids where fish were tagged and recaptured using Google Earth and was the shortest distance by water between the two locations

PREVIOUS REPORTS

- ✦ Tagging stocked fish in the Cairns Area 2002-2013

