



CAIRNS STOCKED BARRAMUNDI 2011-2020

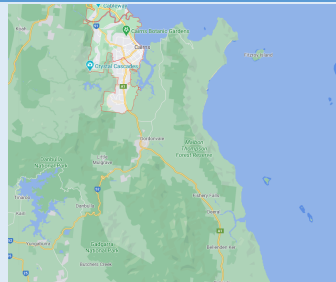


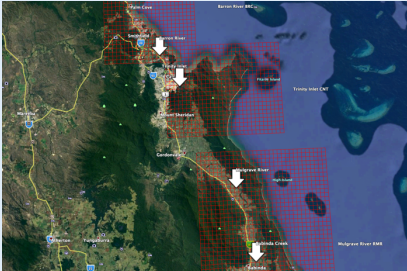
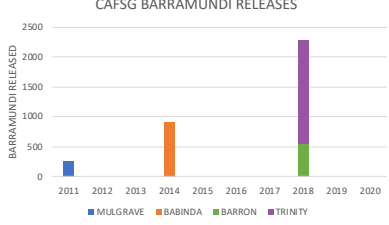
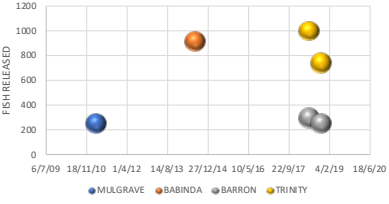
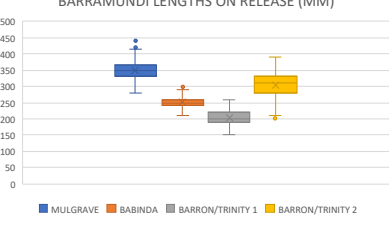
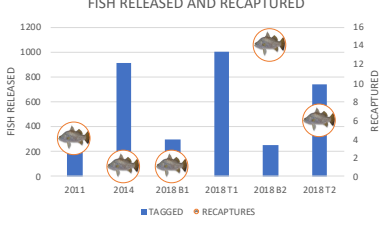
2020 REVIEW

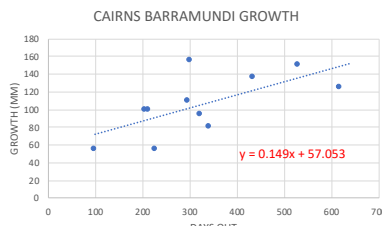
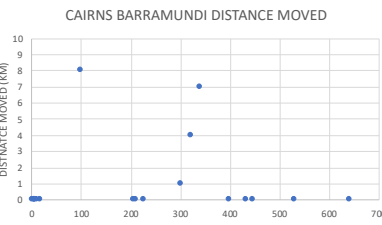
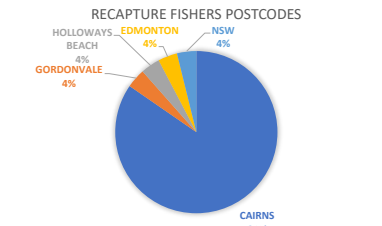
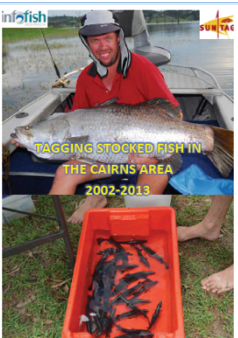
AVAILABLE		AVAILABLE	
Species		Barramundi	
Stocked fish numbers	✓	Bathymetry	
Tagged fish	✓	Recaptures	✓
Postcodes	✓	Competitions	
Catch rates	✓	Fish sizes	✓
Growth	✓	Survival	
Tag locations	✓	Fish Movement	✓




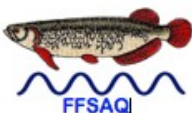
Summary

- From 2011-2018 there were 6 releases of tagged Barramundi in Trinity Inlet, Barron River, Mulgrave River and Babinda Creek with a total of 3,450 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 except 1 were made by fishers from Cairns and close surrounds

Infotish Australia
March 2021

CAIRNS STOCKING	LOCATION	BARRAMUNDI
		
MEASURE	ACTUAL	GRAPH
Stocking locations	Barron River Trinity Inlet Mulgrave River Babinda Creek	
Fish tagged and released	2011 Mulgrave River 255 2014 Babinda Creek 911 2018 Barron River 545 2018 Trinity Inlet 1739	
Release dates	Mulgrave 27/3/2011 Babinda 27/7/2014 Barron/Trinity 1 1/6/2018 Barron/Trinity 2 30/10/2018	
Fish lengths (mm) on release Bars show minimum and maximum sizes Dots show outliers	Average Mulgrave 349 Babinda 251 B/T1 205 B/T2 304	
Recaptures	Tagged Recaptured Mul 255 4 (1.6%) Bab 911 1 (0.1%) Bar 1 296 1 (0.3%) Tri 1 998 0 (0.0%) Bar 2 249 14 (5.6%) Tri 2 741 6 (0.8%)	

Growth from 2018 release	Number of fish 11 Year 1 growth 111mm Year 2 growth 165mm									
Fish movement from 2018 release	Number of fish 19 Recaptured same area 15 (78.9%) Maximum distance moved 8km									
Postcodes of recapture fishers 2011-2020	Number of recaptures 26 <table><tr><td>Region</td><td>Fishers</td></tr><tr><td>Cairns</td><td>84%</td></tr><tr><td>Gordonvale</td><td>4%</td></tr><tr><td>Edmonton</td><td>4%</td></tr></table>	Region	Fishers	Cairns	84%	Gordonvale	4%	Edmonton	4%	
Region	Fishers									
Cairns	84%									
Gordonvale	4%									
Edmonton	4%									
Previous reports	Tagging stocked fish in the Cairns Area 2002-2013									

 Product of Infofish Australia		 Supported by Suntag and FFSAQ	
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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 Infofish 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