



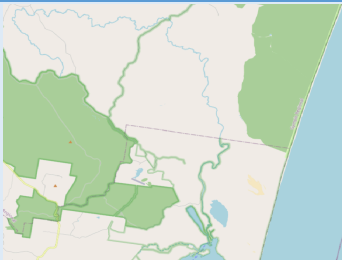
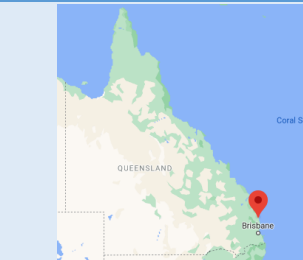

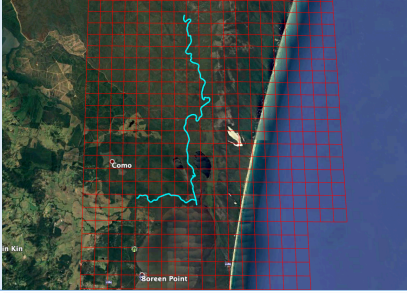
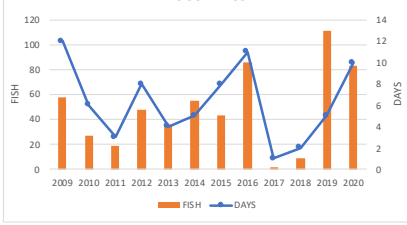
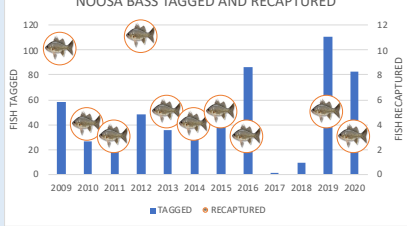
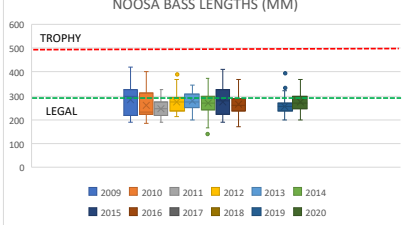
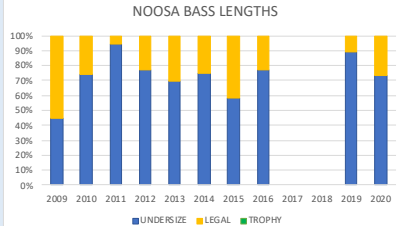
## NOOSA RIVER AUSTRALIAN BASS 2009-2020

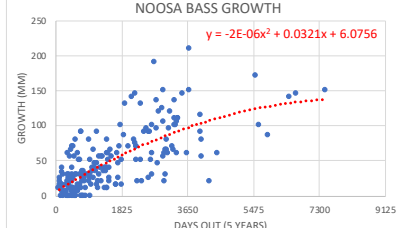
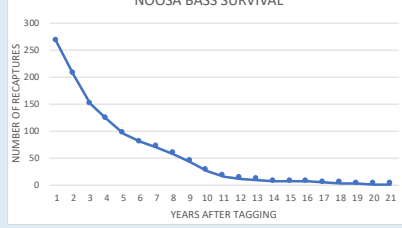
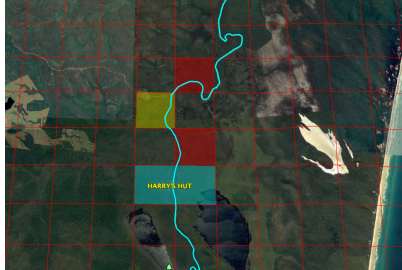
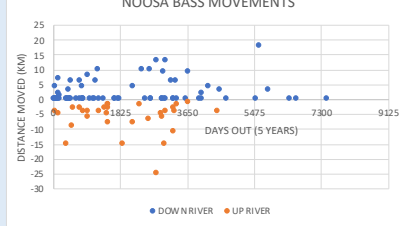
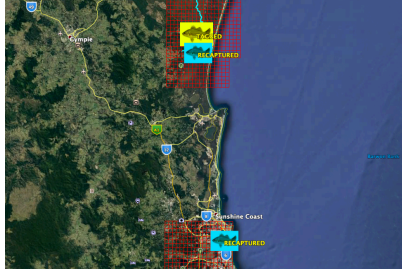
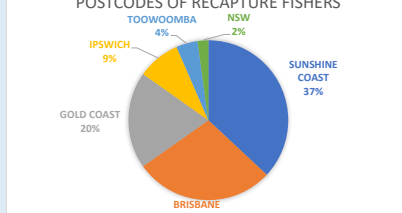
AVAILABLE		AVAILABLE	
Species		Australian Bass	
Tagged fish	✓	Recaptures	✓
Catch rates		Fish sizes	✓
Growth	✓	Survival	✓
Tag locations	✓	Fish Movement	✓
Postcodes	✓	Competitions	

### Summary

- Tagging in the upper Noosa River for Bass has been ongoing since the 1980's providing a long timeline of data that helps understanding the dynamics of the river
- This dashboard covers from 2009-2020 and follows on from a previous report covering 1983-2009
- From 2009-2020 there were 572 Bass tagged for 53 recaptures (9.3%)
- There were insufficient effort days for a reliable catch rate each year however the overall catch rate was 7.7 fish tagged/fisher day
- The average length for Bass in all years was below the legal length of 300mm with the highest average length being 282mm in 2009
- Bass in the river were mostly undersized with legal fish ranging from 5.3% in 2011 to 55.2% in 2009
- There were no trophy fish over 500mm caught in any year and the largest fish was 420mm
- Bass in the river are slow growing putting on an average 18mm in the first year and 71mm by the end of the fifth year
- Bass in the river survive for many years with the longest time out being 20.5 years for a fish tagged in 1996 and recaptured in 2016
- From 2009-2020 most fish were tagged in the area of Harry's Hut to 3-4km upstream in grids H66, I66, I67, H67 and I68
- Recaptures show that most fish were recaptured in the same area as tagged (47%) while fish moved both upstream (30%) and downstream (22%) from where tagged
- There were 3 fish caught in Lake Cootharaba and 1 fish in the Mooloolah River (moved 90km)
- Postcodes of fishers recapturing fish show that most come from the Sunshine Coast (37%), Brisbane (28%) and Gold Coast (20%)

Infotish Australia  
March 2021

NOOSA RIVER	LOCATION	AUSTRALIAN BASS																					
																							
MEASURE	ACTUAL	GRAPH or MAP																					
Noosa River above Lake Cootharaba including Kin Kin Creek	Noosa River length (km) 26 Kin Kin Creek length (km) 6 Grid map SC23																						
Fishing effort (fisher days) and catch 2009-2020	<b>Insufficient fisher days each year for a yearly catch rate</b> Overall catch rate (fish/fisher day) 7.7	<p>NOOSA BASS</p> 																					
Bass tagged and recaptures from each year's tagging 2009-2020	TAGGED      RECAPTURED 572              53 RECAPTURE RATE 9.3%	<p>NOOSA BASS TAGGED AND RECAPTURED</p> 																					
Average length (mm) Bars show smallest and largest fish 2009-2020	<table> <thead> <tr> <th>HIGHEST</th> <th>LOWEST</th> <th>NOW</th> </tr> </thead> <tbody> <tr> <td>AVERAGE LENGTH</td> <td></td> <td></td> </tr> <tr> <td>2009</td> <td>2011</td> <td>2020</td> </tr> <tr> <td>282</td> <td>245</td> <td>272</td> </tr> <tr> <td>LARGEST</td> <td></td> <td></td> </tr> <tr> <td>2009</td> <td>2011</td> <td>2020</td> </tr> <tr> <td>420</td> <td>325</td> <td>370</td> </tr> </tbody> </table>	HIGHEST	LOWEST	NOW	AVERAGE LENGTH			2009	2011	2020	282	245	272	LARGEST			2009	2011	2020	420	325	370	<p>NOOSA BASS LENGTHS (MM)</p> 
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Fish length percentage (%) Undersize <300mm Legal 300-499mm Trophy 500+mm 2009-2020	<table> <thead> <tr> <th>HIGHEST</th> <th>LOWEST</th> <th>NOW</th> </tr> </thead> <tbody> <tr> <td>LEGAL</td> <td></td> <td></td> </tr> <tr> <td>2009</td> <td>2011</td> <td>2020</td> </tr> <tr> <td>55.2</td> <td>5.3</td> <td>26.5</td> </tr> <tr> <td>TROPHY</td> <td></td> <td></td> </tr> <tr> <td>No fish over 500mm in any year</td> <td></td> <td></td> </tr> </tbody> </table>	HIGHEST	LOWEST	NOW	LEGAL			2009	2011	2020	55.2	5.3	26.5	TROPHY			No fish over 500mm in any year			<p>NOOSA BASS LENGTHS</p> 			
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<b>Bass growth based on recaptures 1985-2020</b>	Recaptures 207 Annual growth (mm) Year 1 18 Year 2 31 Year 3 44 Year 4 57 Year 5 71	 <p>NOOSA BASS GROWTH</p> $y = -2E-06x^2 + 0.0321x + 6.0756$
<b>Bass survival based on recaptures by years out after tagging 1985-2020</b>	Year Recaptures 1 266 5 95 10 26 15 6 20 1 Longest time out (years) 20.5	 <p>NOOSA BASS SURVIVAL</p>
<b>Grid locations of tagged fish (map SC23) 2009-2020</b>	Grids where most fish caught GRID FISH C5 156 C4 146 F5 110	
<b>Bass movements 2009-2020</b>	Recaptures 105 Recaptured same area 49 (47%) Up river 31 (30%) Down river 23 (22%)	 <p>NOOSA BASS MOVEMENTS</p>
<b>Bass movements outside upper Noosa River</b>	Lake Cootharaba 3 (moved 6-10km) Mooloolah River 1 (moved 90km)	
<b>Postcodes of recapture fishers 2009-2020</b>	Sunshine Coast 37% Brisbane 28% Gold Coast 20% Ipswich 9% Toowoomba 4% NSW 2%	 <p>POSTCODES OF RECAPTURE FISHERS</p>

Previous report	Noosa River Bass Suntag Tagging and Recaptures 1983-2009 available at <a href="http://infofishaustralia.com.au/noosa/">http://infofishaustralia.com.au/noosa/</a>	
  Product of Infofish Australia		  Supported by Suntag and FFSAQ

## Data sources

Data used in the Noosa River Bass Crystal Bowl are:

- Tag records and recapture records at <http://crystalbowl.infofishaustralia.com.au/>

## 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 a polynomial curve from recaptures where fish were out for 90 days or more and had positive growth
- Locations based on Infofish grid map SC23 for the river and other grid maps where fish were recaptured outside the river
- Survival based on the number of recaptures for each year after tagging