



ROSS RIVER WEIRS REVIEW 2024

INFORMATION RATING



Stocking group: Townsville Barramundi Restocking Group

Species stocked: Barramundi

Stocking timeframe: 2015-2024

Fish timeframe: 2015-2024

Fisher timeframe: 2020-2024

DPI Fisheries link Aplin Weir: <https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=aplins-weir>

DPI Fisheries Black Weir link: <https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=black-weir>

DPI Fisheries Gleeson Weir link: <https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=gleeson-weir>

TBRG Facebook: <https://www.facebook.com/profile.php?id=100064552071950>

This dashboard is a 10-year summary of Barramundi stocked, tagged and recaptured over the past decade from 2015-2024 and a 5-year summary of taggers and those recapturing fish from 2020-2024. While the available data are limited it still provides some information on both the fish and fishers.

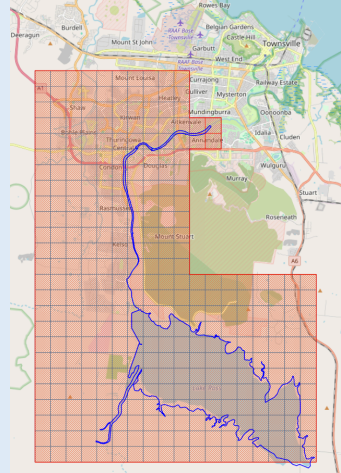

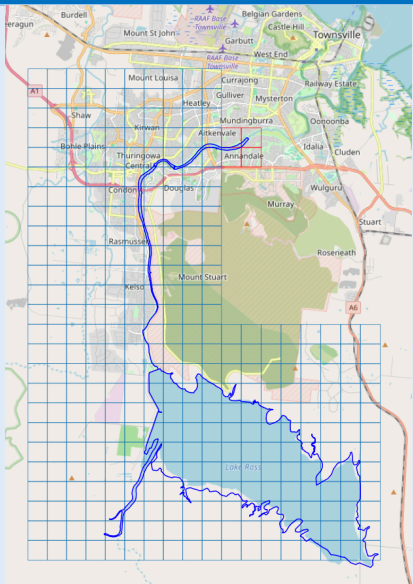
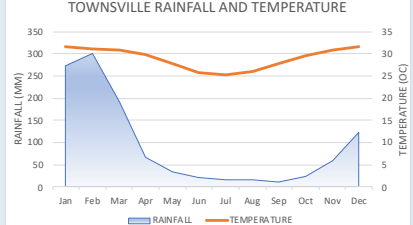
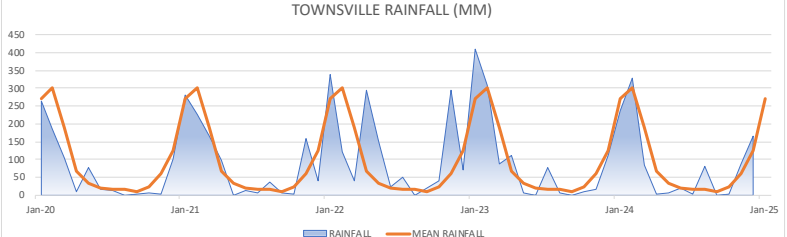
The Ross River weirs are mostly fished by local fishers that accounted for 90% of recaptures and it is mostly an experiential fishery with a low harvest level.

Fishing in Lake Ross is limited as there is no boat access although a boat ramp has been committed and land-based fishing access is currently being provided. There were around 300 tagged fish released into the lake this year in anticipation of improved access. This will help understand how the fish will use the lake.

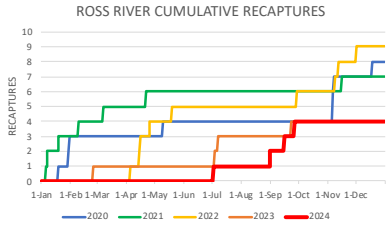
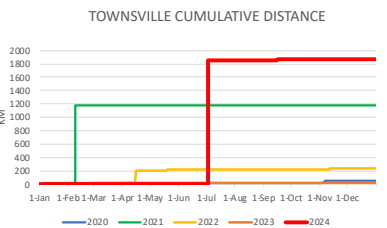
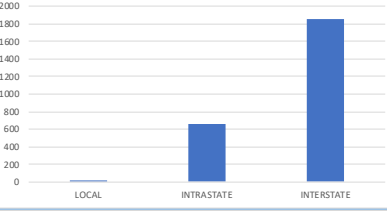
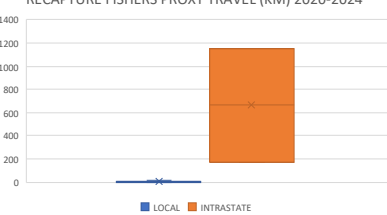
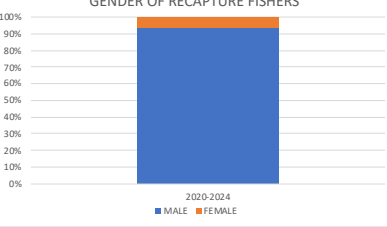
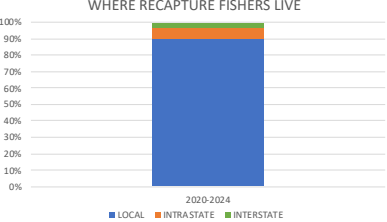


Product of Infish Australia

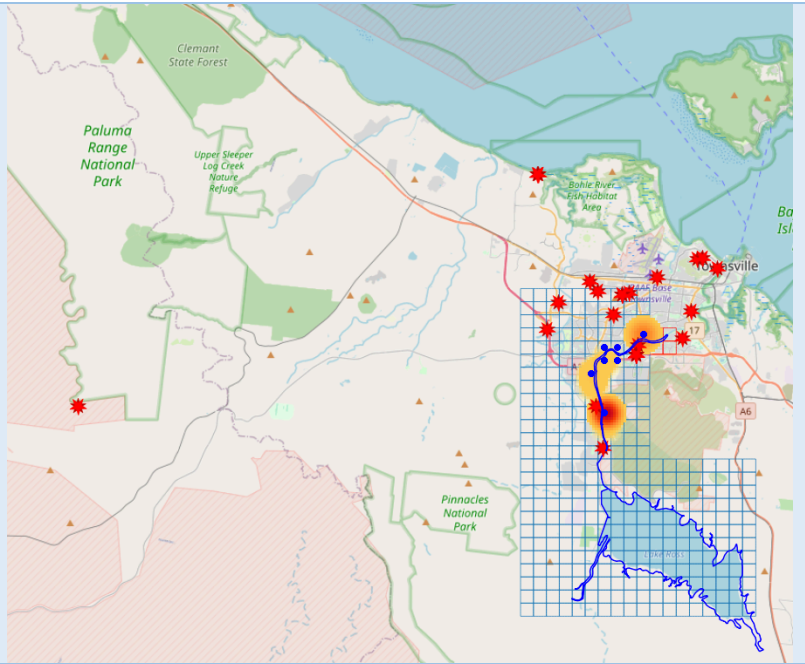
Supported by Suntag
Townsville Barramundi Restocking Group

ROSS RIVER WEIRS AND LAKE ROSS			LOCATION
	Townsville Ross River 19.25°S 146.82°E		
WATERWAYS	ACTUAL	GRAPH or MAP	
Grid maps Kelso KST	Ross River Aplin Weir Gleeson Weir Black Weir Lake Ross		
ENVIRONMENTAL			
Townsville Mean monthly rainfall (mm)	Rainfall High Temp	Month Feb Jan Month Nov-Mar	mm 302 272 oC 31
Townsville monthly rainfall and mean monthly rainfall (mm) 2020-2024			
			

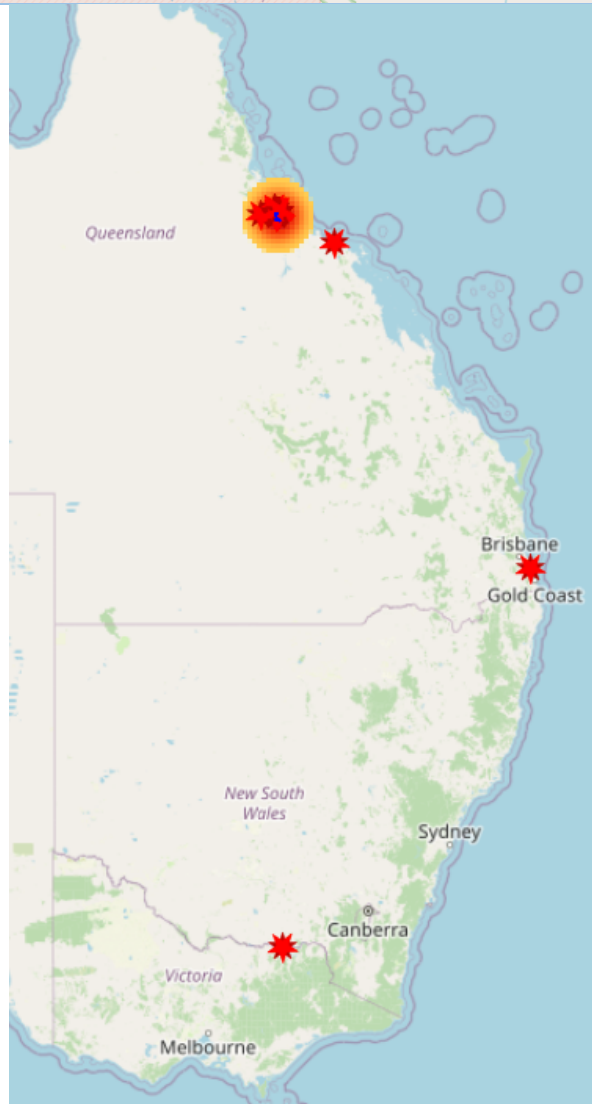
FISHERS	ACTUAL		GRAPH or MAP	
DATA RELIABILITY				
Sample size (days fished)	Reliability level	LOW	MODERATE	MODERATE
Tag days (blue arrow)	Samples	10	41	68
Recaptures (orange arrow)	Confidence	80%	80%	90%
Confidence %	Error	20%	10%	10%
Error %				
2020-2024				
TYPE OF FISHERY				
Seasonality	Days	38		
Mean monthly rainfall (mm)	Month most effort	Jan		
Days fished combined	(low number of days)			
Taggers				
Recapture fishers				
2020-2024				
Harvest or experiential fishery	Legal fish kept rate			
Fate of recaptured legal	Legal fish	25		
Barramundi (ex-taggers)	Kept	4 (16%)		
2020-2024	Released	21 (84%)		
Local or visitor fishery	Recapture fishers	31		
Where recapture fishers live	Local	28 (91%)		
2020-2024	Visitor	3 (10%)		
ACTIVITY				
Monthly activity	Month	%		
Days fished	Taggers	NA		
Taggers (6)	Recaps	Jan		
Recapture fishers (32)		Nov		
2020-2024				
Weekday activity	Day	%		
Days fished	Taggers	NA		
Taggers (6)	Recaps	Weekend		
Recapture fishers (32)		Weekdays		
2020-2024				



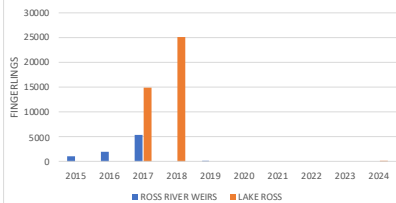
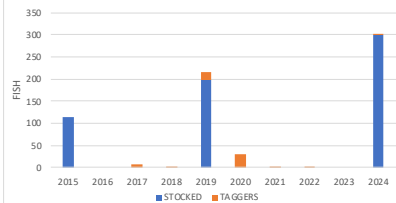


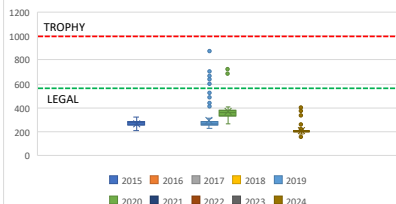
EFFORT			
Cumulative recaptures 2020-2024	Year	Recaps	
	2020	8	
	2021	7	
	2022	9	
	2023	4	
	2024	4	
TRAVEL			
Cumulative distance (km) address to recapture location 2020-2024	Year	Dist	
	2020	49	
	2021	1183	
	2022	229	
	2023	13	
	2024	1869	
Average distance (km) from home to recapture location 2020-2024	Av distance (km)		
	Local	6	
	Intrastate	662	
	Interstate	1852	
Distance (km) address to recapture location Bars show distance range Dots show outliers 2020-2024	Range (km)		
	Local	1-16	
	Intrastate	174-1150	
	Interstate	NA	
DEMOGRAPHICS			
Gender of recapture fishers (ex-taggers) 2020-2024	Fishers	32	
	Female	2 (6%)	
	Male	30 (94%)	
Where recapture fishers live 2020-2024	Recapture fishers	31	
	Local	28 (91%)	
	Intrastate	2 (6%)	
	Interstate	1 (3%)	

Where recapture fishers
live (red stars)
Local
2020-2024



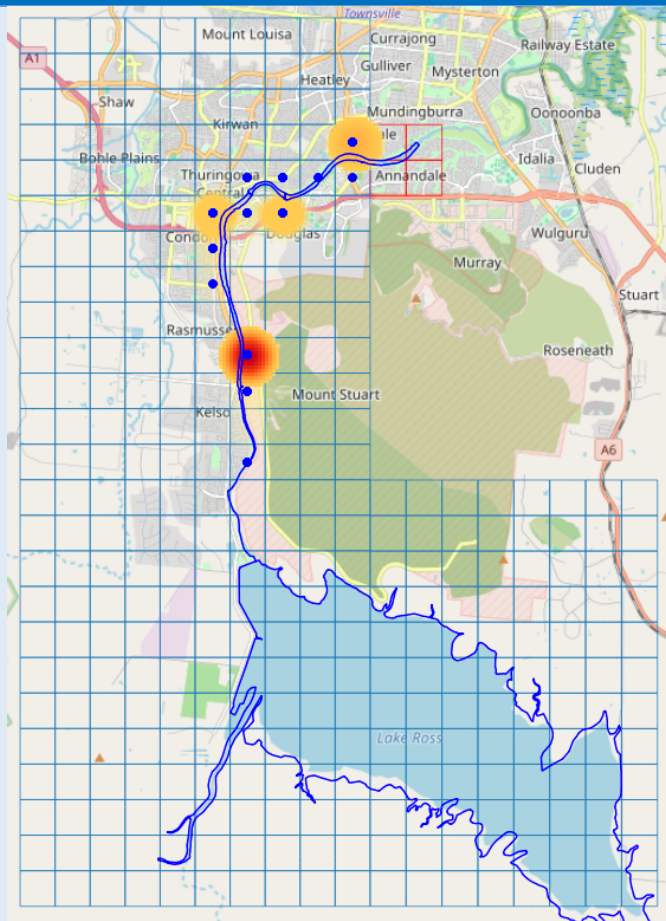
Where recapture fishers
live (red stars)
Intrastate
Interstate
2020-2024



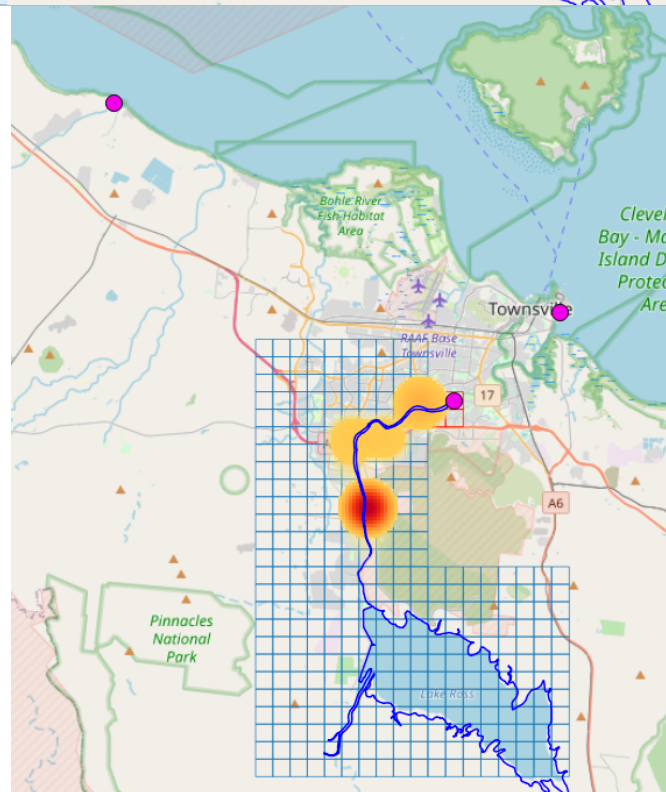
STOCKED FISH	ACTUAL		GRAPH or MAP
<div>BARRAMUNDI</div> <div></div>			<div></div>
STOCKED			
<div>Barrmundi stocked</div> <div>Ross River Weirs</div> <div>2015-2024</div> <div>Lake Ross</div> <div>2017-2024</div>			<div><div>ROSS RIVER BARRAMUNDI STOCKED</div></div>
TAGGED			
<div>Tagged Barramundi</div> <div>Ross River Weirs</div> <div>2015-2024</div> <div>Lake Ross*</div> <div>2024</div>	<div>Year</div> <div>2015</div> <div>2019</div> <div>2020</div> <div>2024</div>	<div>Tagged</div> <div>113</div> <div>216</div> <div>30</div> <div>303 (299*)</div>	<div><div>ROSS RIVER TAGGED FISH</div></div>
<div>Tagged Barramundi</div> <div>Recaptured</div> <div>Ross River Weirs</div> <div>2015-2024</div> <div>Lake Ross*</div> <div>2024</div>	<div>Tagged</div> <div>675</div> <div>Recapture rate</div> <div>22.4%</div> <div>Tagged 2024</div> <div>303 (299 in Lake Ross)</div>	<div>Recaptured</div> <div>151</div>	<div><div>ROSS BARRAMUNDI TAGGED AND RECAPTURED</div></div>
<div>Batch releases of tagged</div> <div>Barramundi</div> <div>Batch recaptures</div> <div>2015-2024</div>	<div>Year</div> <div>2015</div> <div>2019</div> <div>2024</div>	<div>Tagged</div> <div>113</div> <div>199</div> <div>299*</div> <div>Recaps</div> <div>12 (10.6%)</div> <div>14 (7.0%)</div>	<div><div>BATCH RELEASES AND RECAPTURES</div></div>
LENGTHS			
<div>Barramundi</div> <div>Average length of batch</div> <div>released fish (mm)</div> <div>2015-2024</div> <div>Lake Ross*</div> <div>2024</div>	<div>Year</div> <div>2015</div> <div>2019</div> <div>2024</div>	<div>Tagged</div> <div>265</div> <div>288</div> <div>202*</div>	<div><div>ROSS BARRAMUNDI LENGTHS (MM)</div></div>

LOCATIONS

Release locations
Tag locations (red-orange
heat map)
Recaptures (blue dots)
Lake Ross release (not
included)
2015-2024



Stocked fish Ross River
weirs
Recaptured elsewhere (3)
(pink dots)
Fish tagged
2015-2024



Data sources

Data used in the Townsville Ross River Crystal Bowl are:

- Stocked fish records
- Tag records and recapture records for the river at <http://crystalbowl.infofishaustralia.com.au/>.
- Rainfall and temperature records obtained for Townsville Aero station 032040 from <http://www.bom.gov.au/climate/data/>.

Basis for analysis

- Data reliability for fishers based on the sample size over the past 5 years for days fished by taggers and by fishers recapturing fish.
- Data reliability for fish based on average number of fish tagged and recaptured over the past 5 years.
- Catch rates calculated as number of fish tagged/fisher day for taggers with a minimum of 12 fisher days (at least 1 per month) to provide an acceptable catch rate.
- For Barramundi undersized fish are <580mm, legal fish are ≥580 and <1000mm and trophy fish are ≥1000mm.
- Locations based on Infofish grid map KST and CBT and other grid maps where fish were recaptured outside the area.
- Movement distance calculated as the shortest distance by water from the tag to the recapture location using Google Earth.
- Distance from fisher's address to recapture location is the straight-line distance between locations based on Google Earth coordinates with Local <60km, Intrastate ≥60km and Qld postcodes, Interstate postcodes other than Qld.