



# QUEENSLAND FISH TAGGED AND RECAPTURED 2014-2023 QUEENSLAND FISHER ACTIVITY REVIEW 2019-2023

### **QUEENSLAND STATEWIDE REVIEW 2023**

### **INFORMATION RATING**



This dashboard is a 10-year summary of key species tagged and recaptured over the past decade from 2014-2023 and a 5-year summary of taggers and those recapturing fish from 2019-2023 in Queensland. Detailed regional dashboards are also available for coastal estuaries and inland impoundments.

Fisher activity includes taggers and those recapturing fish covering month and day of fishing activity. At the statewide level there is little difference in their monthly and weekday activity. As tagging is predominantly in estuaries and impoundments fish are not highly mobile so recaptures are made in the same area as fish are tagged. Tag locations are associated with waterways in close proximity to population centres and cover most areas of the state where recreational fishing occurs.

At the statewide level fishing effort, based on days fished by taggers and those recapturing fish, suggests that Covid restrictions had little overall impact on fishing in 2020 and 2021 although there were some regions that were impacted more than others, particularly those fished by travelling fishers.

Travel by intrastate and interstate fishers was down in 2020 when Covid travel restrictions were in place and down again in 2023, possibly a reflection of the impact of cost-of-living pressures, with the numbers of those fishers and the proxy distance for travel both down. While recaptures are up 9% on 2022 the cumulative proxy travel distance is down by 22%.

Interstate fishers are mostly from NSW and Vic accounting for 91% of recaptures made by interstate fishers.

Overall tag and recapture details are provided for the 3 species tagged the most being Barramundi, Bass and Flathead. These species account for 55% of the total tagging effort. Based on recaptures of legal sized fish by other than taggers, 50% of Barramundi, 12% of Bass and 57% of Flathead were kept.

Tag rates and fish lengths at the statewide level have remained steady over the past decade and have not shown any particular trend.



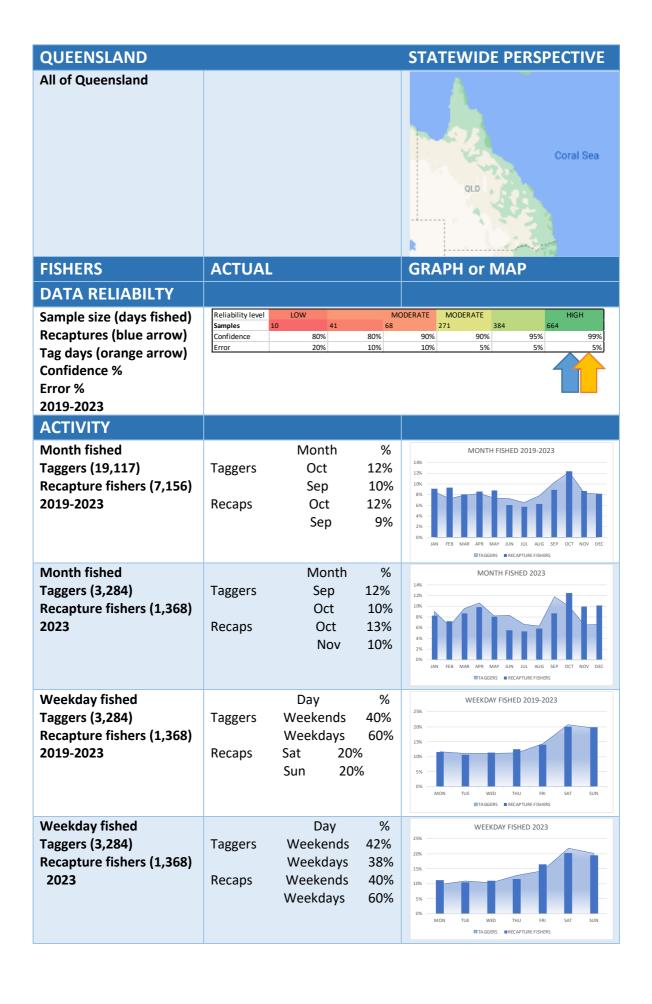


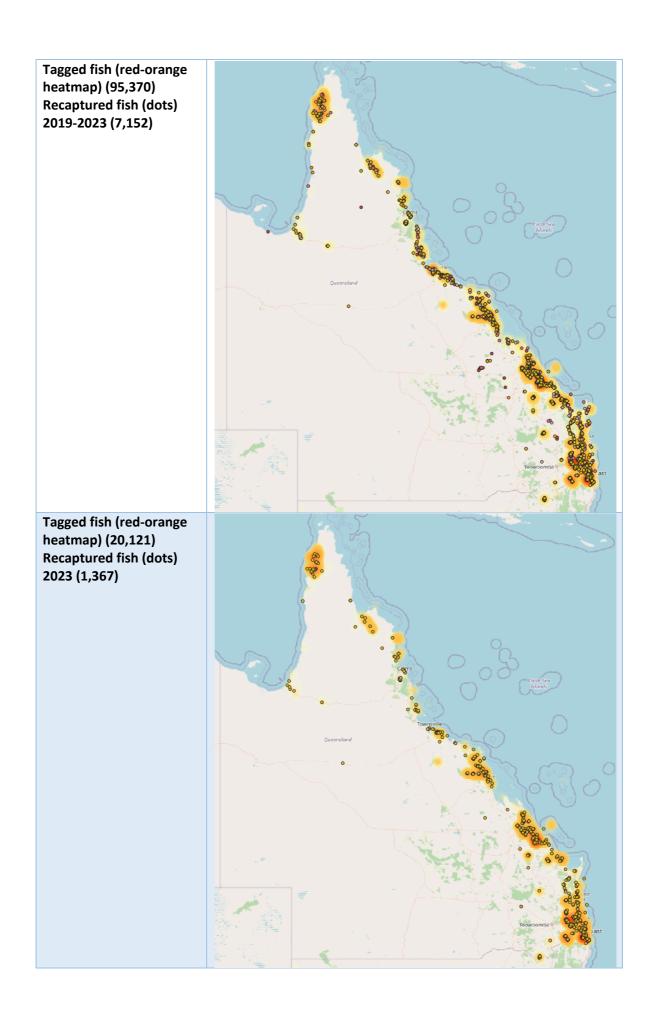




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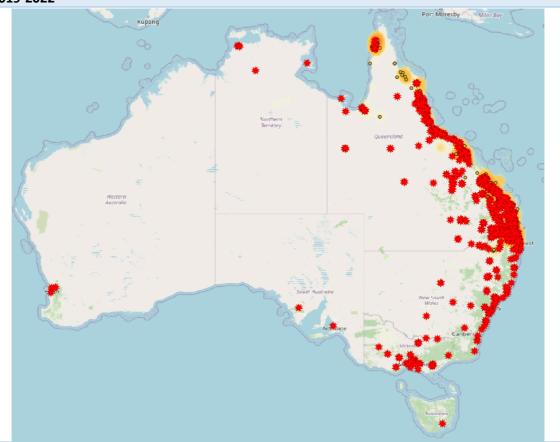




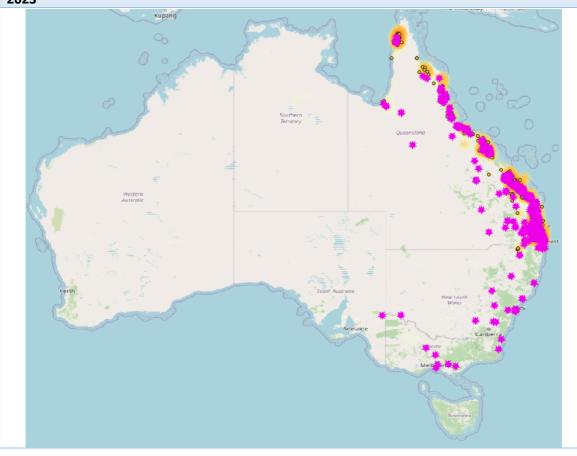
EFFORT			
Recapture fishers	Year	Recaptures	STATEWIDE CUMULATIVE RECAPTURES
Cumulative recaptures	2019	1685	2019-2023
2019-2023	2020	1475	₩ 1600 — 2 1400 —
	2021	1305	Y 1200 W 1000 H 800
	2022	1251	SI 1800 DL 1400 DB 4000 B 600 B 600
	2023	1366	1-Jan 1-Feb1-Mar 1-Apr1-May 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov1-Dec
	2020		20192020202120222023
Recapture fishers	Year	Recaptures	STATEWIDE RECAPTURES 2021-2023
Monthly recaptures	2021	1305	180
2021-2023	2022	1251	S 100 S 101 101 102 103 103 103 103 103 103 103 103 103 103
	2023	1366	80 - 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 - 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 - 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 - 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80 80
	21-22	-4.1%	40 - 20 -
	22-23	+9.2%	JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC  □ 2021 ■2022 ■2023
			WALL WALL
Fisher effort	- m	MONTHLY EFFORT TAGGERS AN	ID RECAPTURE FISHERS 2019-2023
Days fished per month	500	1 1	8
Taggers	400	I bloom god	/\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Recapture fishers	200 AA	and a second second	
2019-2023	100	had and alegan process	har har har har har har har har
	0 Jan-19	Jan-20 Jan-21	Jan-22 Jan-23 Jan-24
		——TAGGERS —	◆ RECAPTURE FISHERS
TRAVEL			
Cumulative distance	Year	Distance (km)	STATEWIDE CUMULATIVE DISTANCE ADDRESS TO
where fishers live to	2019	147526	RECAPTURE 2019-2023
recapture location (travel	2020	110778	140000 120000
proxy)	2021	163498	₹ 10000 × 8000 —
2019-2023	2022	164264	40000
	2023	128180	1Jan 1-Feb1-Mar 1-Apr 1-May 1-Jun 1-Jul 1-Aug 1-Sep 1-Oct 1-Nov 1-Dec
	22-23	-22.0%	
Distance (km) address or		Av Distance (km)	QLD LOCAL TRAVEL PROXY (KM)
postcode to recapture	2019	20	60
location	2020	20	50
Travel proxy	2021	23	30
Local (1-59km)	2022	23	20
2019-2023	2023	25	
Distance (loss) - I.I		A. Distance (I. )	■ 2019 ■ 2020 ■ 2021 ■ 2022 ■ 2023
Distance (km) address or	2010	Av Distance (km)	QLD INTRASTATE TRAVEL PROXY (KM)
postcode to recapture	2019	255	2000
location	7(17(1	120	1
Travel proxy	2020	238	1500
Intrastate	2021	303	1000
	2021 2022	303 331	1000
2019-2023	2021	303	1000
2019-2023	2021 2022	303 331 251	1000
2019-2023 Distance (km) address or	2021 2022 2023	303 331 251 Av Distance (km)	2019 2020 2021 2022 2023
2019-2023  Distance (km) address or postcode to recapture	2021 2022 2023 2019	303 331 251 Av Distance (km) 1342	QLD INTERSTATE TRAVEL PROXY (KM)
2019-2023  Distance (km) address or postcode to recapture location	2021 2022 2023 2019 2020	303 331 251 Av Distance (km) 1342 910	QLD INTERSTATE TRAVEL PROXY (KM)  4000 3000 2000 4000 3000 2000 4000 400
2019-2023  Distance (km) address or postcode to recapture location Travel proxy	2021 2022 2023 2019 2020 2021	303 331 251 Av Distance (km) 1342 910 1249	QLD INTERSTATE TRAVEL PROXY (KM)  4000 3500
2019-2023  Distance (km) address or postcode to recapture location	2021 2022 2023 2019 2020	303 331 251 Av Distance (km) 1342 910	QLD INTERSTATE TRAVEL PROXY (KM)  4000 3500

Localion (travel proxy)   2019   20   255   251   2020   2021   23   303   2019-2023   2022   23   331   2023   25   251   2023   25   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   251   2	Average distance where fishers live to recapture		Av distance (km) L QLD	FISHER'S AVERAGE DISTANCE (KM)
Local (L)	-	2019		250
2019-2023  2022 203 25 251  Average distance where fishers live to recapture location (travel proxy)   1342   2020 2019-2023  2020 2021 2044 2003  2021 2022 2023 2023 2020 2020 202		2020	20 238	150
Average distance where   Steel   Ste				
Average distance where fishers live to recapture location (travel proxy)   1342   2019-2023   2022   1464   2023   1140   2020   1117   293   2021   2029   2020   2019-2023   2021   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   2029   20	2019-2023			
Secapture   Color	Average distance where	2023		INTERSTATE FIGURED'S AVERAGE DISTANCE (VAA)
Demographics   Color	_	2019		1600
Interstate   2021	•			1200
DEMOGRAPHICS		2021	1249	₹ 800
DEMOGRAPHICS	2019-2023	2022	1464	
## Where recapture fishers live   2019   1243   312   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   117   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293   293		2023	1140	0
Where recapture fishers   L   QLD   1243   312   1245   312   1245   312   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   1245   12	DEMOGRAPHICS			AND EVER EVER EVER
Ilive			L OID	WHERE RECAPTURE FISHERS LIVE
2019-2023   2023   1007   273	· ·	2019		1600
2019-2023   2023   1007   273	Local (1-59km) (L)	2020	1117 293	£ 1400 £ 1200
2019-2023   2023   1007   273	Intrastate (QLD)	2021	899 356	F 800
Recapture fisher's   Category   2019   78%   20%   1007   273   2009   2021   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023   2023	Interstate			200
Category   2019   78% 20%   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	2019-2023	2023	1007 273	2019 2020 2021 2022 2023
Category   2019   78%   20%   20%   2020   78%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%	Recapture fisher's		L QLD	WHERE RECAPTURE FISHERS LIVE
Local (1-59km)   2020   78%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%   20%	category	2019	78% 20%	90%
Interstate	Local (1-59km)			70% ————————————————————————————————————
2019-2023  Interstate of origin 2019-2023  NSW 65% VIC 26% NT 4% SA 2% WA TAS 1% Overseas  Male Female 2019-2023  Recapture fisher's (extaggers) gender 2019-2023  Recapture fisher's (2020 94% 6% 2021 94% 6% 2022 93% 7% 2029 2009 2001 2022 2023  INTERSTATE FISHER'S 2019-2023  INTERSTATE FISHER'S CO19-2023  INT				40%
Interstate of origin 2019-2023  NSW VIC 26% NT SA WA TAS Overseas  Name  Male Female 1009-2023  Recapture fisher's (ex- taggers) gender 2019-2023  Recapture fisher's (ex- taggers) gender 2019-2023  2020 94% 6% 2021 94% 6% 2022 93% 7% 2023 93% 7%				10%
2019-2023  NSW VIC 26% NT 4% SA 2% WA TAS Overseas 1%  Recapture fisher's (extaggers) gender 2019-2023  Recapture fisher's (extaggers) gender 2019-2023  2020 94% 6% 2021 94% 6% 2022 93% 7% 2023 93% 7%	2019-2023	2023	//% 21%	
VIC 26% NT 4% SA 2% WA 2% TAS 1% Overseas 1%  Recapture fisher's (extaggers) gender 2019 95% 5% 2020 94% 6% 2021 94% 6% 2021 94% 6% 2022 93% 7% 2019 2020 2021 2022 2023 93% 7%	_			
NT	2019-2023			NT
SA				_2% WA
WA 7AS 1% Overseas 1%  Recapture fisher's (extaggers) gender 2019 95% 5% 2020 94% 6% 2021 94% 6% 2022 93% 7% 2023 93% 7% 2019 2020 2021 2022 2023 2020 2020 2021 2022 2023 2020 2020				TAS
TAS 1% Overseas 1%  Recapture fisher's (ex- taggers) gender 2019 95% 5% 2019-2023 2020 94% 6% 2021 94% 6% 2022 93% 7% 2023 93% 7% 2019 2020 2021 2022 2023				1%
Name				
taggers) gender     2019     95%     5%       2019-2023     2020     94%     6%       2021     94%     6%       2022     93%     7%       2023     93%     7%       2019     2020     2021       2023     2021     2021       2023     2021     2022       2023     2021     2021       2023     2021     2021       2023     2021     2022       2023     2021     2022       2023     2021     2022				
taggers) gender 2019 95% 5% 90% 2019-2023 2020 94% 6% 60% 60% 60% 60% 60% 60% 60% 60% 60%			Male Female	
2021 94% 6% 2022 93% 7% 2019 2010 2021 2022 2023				90% 80%
2021 94% 6% 40% 30% 20% 20% 2019 2020 2021 2022 2023	2019-2023			60%
2023 93% 7% 0% 2019 2020 2021 2022 2023				40% ————————————————————————————————————
				10%
■ WHALL ■ FEWALE				

## Where fishers live (red stars) that recaptured fish (5,785) 2019-2022

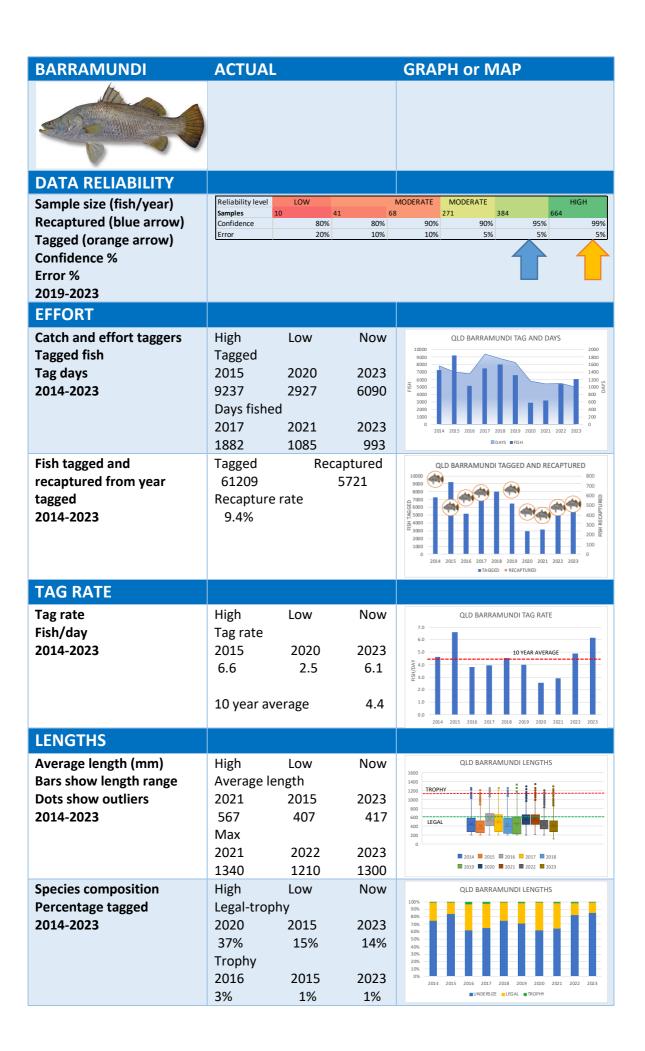


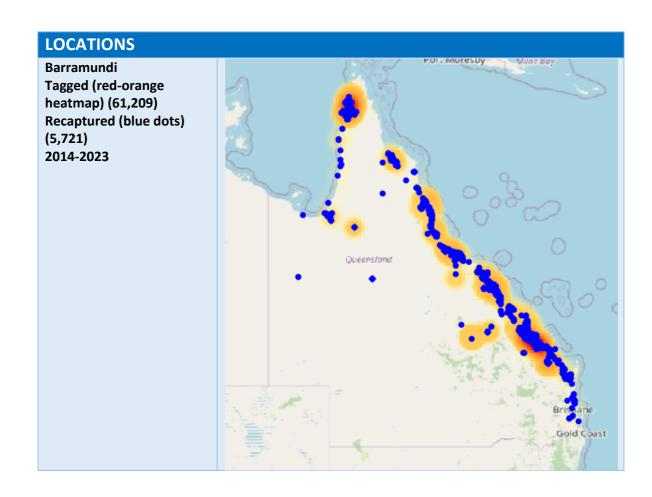
Where fishers live (pink stars) that recaptured fish (1,366) 2023

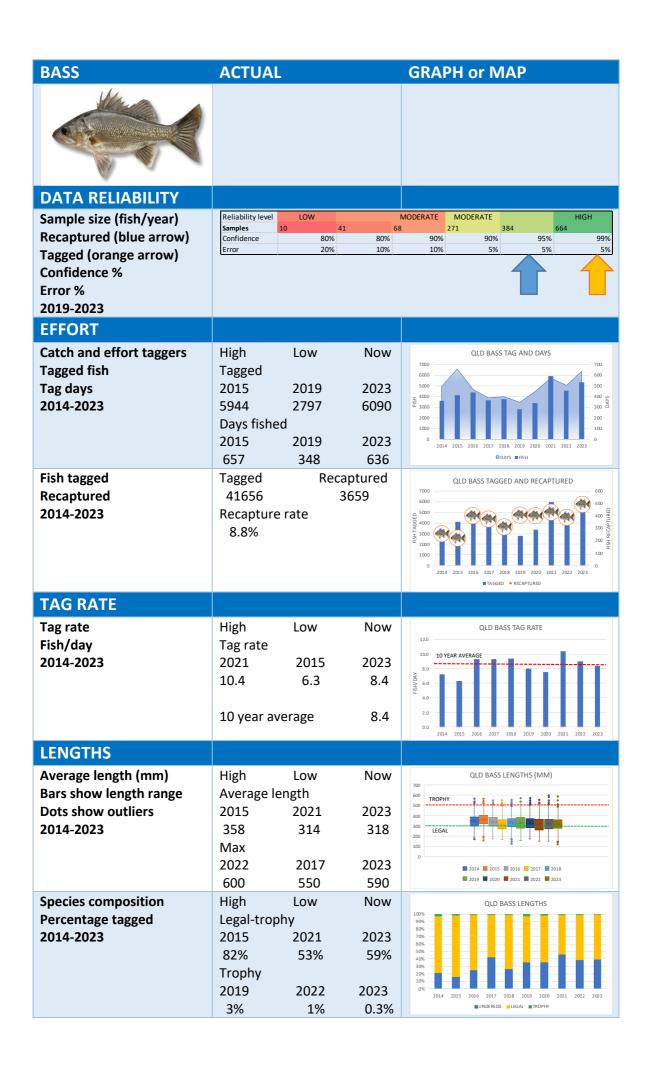


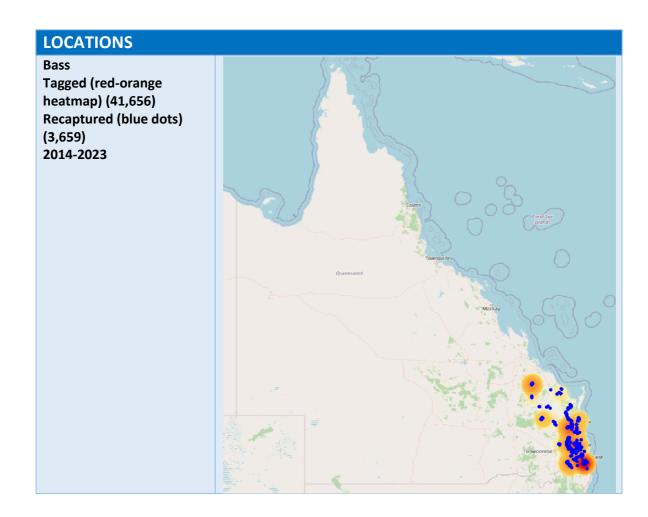
FISH	ACTUAL	GRAPH or MAP
BARRAMUNDI	AUSTRALIAN BASS	DUSKY FLATHEAD
EFFORT		
Catch and effort taggers Tagged fish Days fished 2014-2023	HighLowNowTagged201520202023282801707520086Days fished201920222023557434953284	QLD TAG AND EFFORT  3000  25000  4000  5000  1000  0  2014 2015 2016 2017 2018 2019 2020 2021 2022 2023
Fish tagged Recaptured 2014-2023	Tagged Recaptured 212360 15711 Recapture rate 7.4%	QLD ALL FISH TAGGED AND RECAPTURED  2500  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000  2000
TAG RATE		
IAGNAIL		
Tag rate Fish/day 2014-2023	High         Low         Now           Tag rate         2022         2019         2023           5.5         3.5         6.1           10 year average         4.7	QLD TAG RATE  7.0 6.0 5.0 10 YEAR AVERAGE  2.0 1.0 2.014 2015 2016 2017 2018 2019 2020 2021 2022 2023
Tag rate Fish/day	Tag rate 2022 2019 2023 5.5 3.5 6.1	7.0 6.0 5.0 10 YEAR AVERAGE  VC 4.0 1.0 1.0 0.0
Tag rate Fish/day 2014-2023	Tag rate 2022 2019 2023 5.5 3.5 6.1	7.0 6.0 5.0 10 YEAR AVERAGE  VC 4.0 1.0 1.0 0.0

### FATE Legal recaptures kept or Legal Fish Kept QLD LEGAL RECAPTURES FATE released by recfishers (ex-Barramundi 2480 50% taggers) 2495 Bass 12% 2014-2023 Flathead 627 57% **TAG LOCATIONS** All fish Tagged (red-orange heatmap) (212,360) **Recaptured (blue dots)** (12,716) 2014-2023

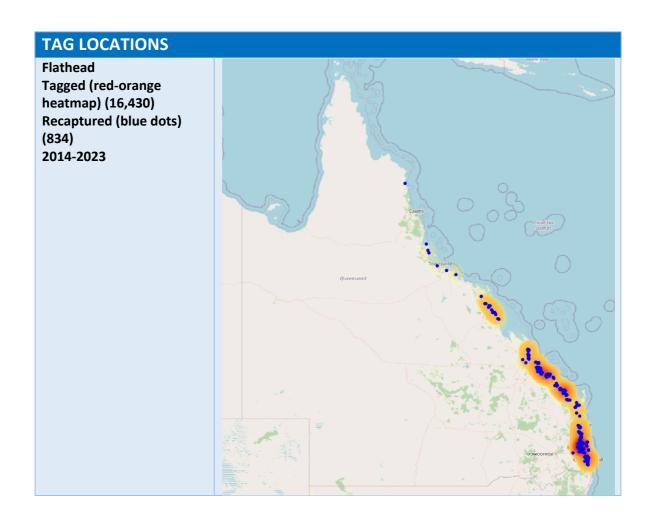








ELATHEAD	ACTUAL			GRAPH or MAP
FLATHEAD	ACTUAL			GRAPH OF WIAP
DATA RELIABILITY				
Sample size (fish/year) Recaptured (blue arrow) Tagged (orange arrow) Confidence % Error % 2019-2023	Reliability level Samples 10 Confidence Error	LOW 41 80% 20%	68 80% 10%	MODERATE 271 384 664 99% 99% 10% 5% 5% 5%
EFFORT				
Catch and effort taggers Tagged fish Tag days 2014-2023	High Tagged 2015 2335 Days fished 2015 748	2021 1312 2021 509	2023 1644 2023 498	QLD FLATHEAD TAG AND DAYS  2500  2000  500  400  201  2014 2015 2016 2017 2018 2019 2020 2021 2022 2023  BDAYS #FSH
Fish tagged Recaptured 2014-2023	Tagged 16430 Recapture r 5.1%		tured 37	QLD FLATHEAD TAGGED AND RECAPTURED  2500  2000  300  300  400  500  2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 0  87AGGED © RECAPTURED
TAG RATE				
Tag rate Fish/day 2014-2023	High Tag rate 2015 3.1 10 year ave	2016 2.2 rage	Now 2023 3.3 2.7	QLD FLATHEAD TAG RATE  3.5 3.0 10 YEAR AVERAGE 2.5 2.5 2.1 1.0 0.5 0.0 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023
LENGTHS				2014 2013 2010 2017 2016 2013 2020 2021 2022 2023
Average length (mm) Bars show length range Dots show outliers 2014-2023	High Average len 2021 457 Max 2017 910	Low gth 2020 440 2020 840	Now 2023 428 2023 910	QLD FLATHEAD LENGTHS  1200  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  1000  10
Species composition Percentage tagged 2014-2023	High Legal-troph 2017 70% Trophy 2017 3%	Low	Now 2023 57% 2023 2%	QLD FLATHEAD LENGTHS  100% 80% 80% 60% 50% 40% 40% 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023



#### **Data sources**

Data used in the Queensland Crystal Bowl are:

- Tag and recapture records for Queensland from Suntag records from Fishtag Australia database from <a href="http://crystalbowl.infofishaustralia.com.au/infofish/f">http://crystalbowl.infofishaustralia.com.au/infofish/f</a> infofish.htm.
- Postcodes from Australia Post website at https://auspost.com.au/postcode.

### Data 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 per year over the past 5 years.
- Catch rates calculated as number of fish tagged/day for taggers with a minimum of 12 fisher days (at least 1 per month) to provide a reliable catch rate.
- For Barramundi undersized fish are <580mm, legal fish are >=580 and <1000mm and trophy fish are >=1000mm.
- For Australian Bass undersized fish are <300mm, legal fish are >=300 and <500mm and trophy fish are >=500mm.
- For Dusky Flathead undersized fish are <400mm, legal fish are >=400 and <700mm and trophy fish are >=700mm.
- Locations based on Infofish grid maps for Queensland.
- Distance from where fishers live to recapture location is the straight-line distance between locations based on Google Earth coordinates with Local <60, Intrastate >=60 and Qld postcode, Interstate postcode other than Qld.