



GOFISH-20 AFTER COVID-19 OCTOBER UPDATE

Impact of COVID-19 on recreational fishing

Recaptures of tagged fish are being used as a random sample of the fishing population to get a sense of the impact of COVID-19 on recreational fishing in Queensland. This month Lake Awoonga has been added as a Barramundi impoundment.

Recaptures are correlated to the level of fishing effort so any change in the number of recaptures is likely to reflect a change in fishing effort. Location of recaptures and the address or postcode of the fisher is a measure providing an approximation of how far fishers are travelling to go fishing reflecting fisher behaviour.

Summaries for locations 2019-2020

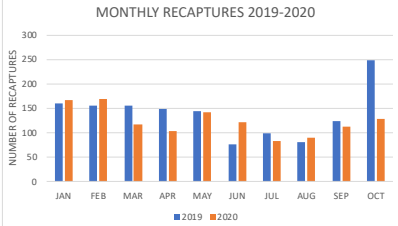
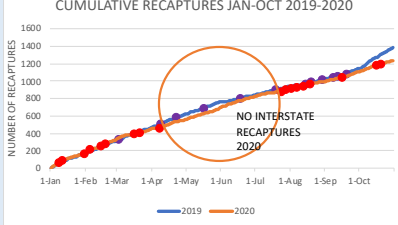
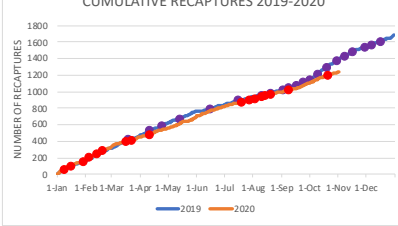
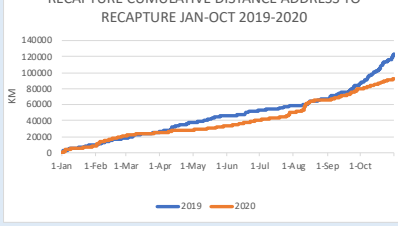
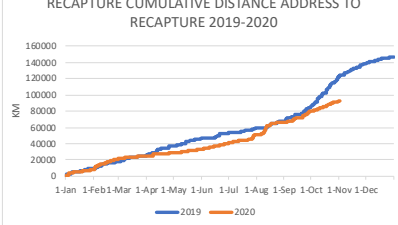
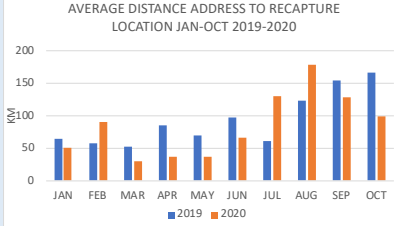
- Statewide
- South East Queensland (Sunshine Coast to Gold Coast)
- Fitzroy River
- South East Queensland Bass impoundments
- Lake Awoonga

Observations

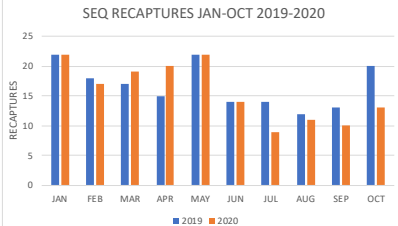
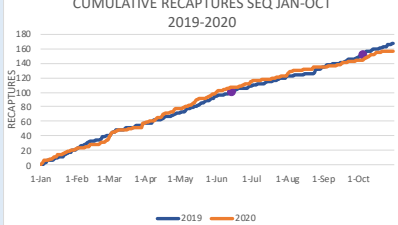
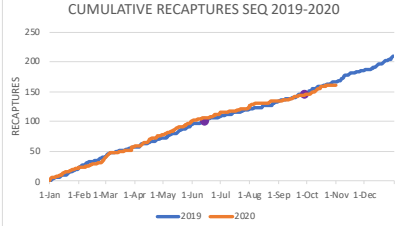
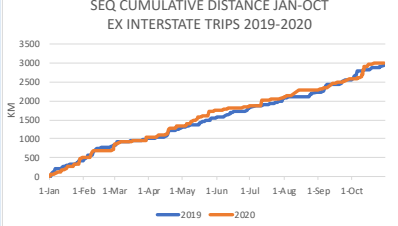
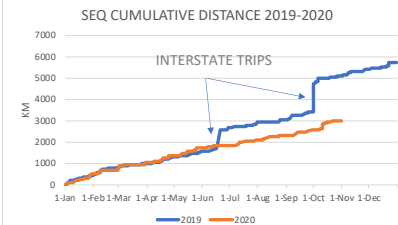
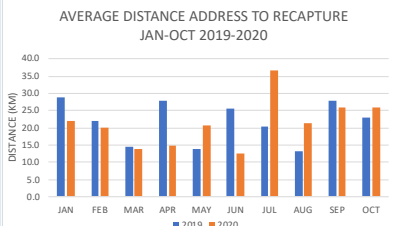
- There was a significant increase in statewide and Fitzroy River recaptures in Oct last year due mainly to Barramundi just before the closed season however the increase this year was much lower
- Statewide recaptures this year were down 48% in Oct while for Jan-Oct were down 11% compared with last year
- From late Apr to late Jul there were no recaptures by interstate fishers however there have been 25 recaptures (all NSW fishers) so far this year compared with 30 last year
- Along with a reduction Statewide recaptures in Oct the distance between address and recapture has fallen to 11% below last year or around 30,380km less
- In SEQ there is little difference in the number of recaptures (-4%) and the distance between home and recapture (-3%) (excluding interstate trips) indicating little change
- Impoundments were closed in Apr so the rebound in fishing has been strong and now the number of recaptures is the same (0%) and the distance between address and recapture is up on the same time last year (+12%)
- Recaptures in the Fitzroy River have picked up in Sep-Oct but are still well below last year at -39% and distance is at -59% or around 20,000km
- The Fitzroy figures are not as bad as they appear as it is estimated that there are 30% fewer tags in the river compared to last year
- See **About the Observations** for further explanation of factors influencing the results

Infofish Australia

October 2020

MEASURE	ACTUAL	GRAPH
QUEENSLAND		STATEWIDE PERSPECTIVE
Number of recaptures <div> <div>2020</div> <div>2019</div> </div> <div> <div>Jul</div> <div>83</div> <div>99</div> </div> <div> <div>Aug</div> <div>91</div> <div>82</div> </div> <div> <div>Sep</div> <div>113</div> <div>123</div> </div> <div> <div>Oct</div> <div>130</div> <div>248</div> </div> <div> <div>YTD</div> <div>1238</div> <div>1391</div> </div>		 <p>MONTHLY RECAPTURES 2019-2020</p>
Cumulative recaptures Jan-Oct 2020-2019 Dots show recaptures by interstate fishers	Oct 2020-2019 -48% Interstate fishers Jan-Oct 2020 25 2019 30	 <p>CUMULATIVE RECAPTURES JAN-OCT 2019-2020</p>
Cumulative recaptures Jan-Dec 2020-2019 Dots show recaptures by interstate fishers	2020-2019 Jan-Oct -11%	 <p>CUMULATIVE RECAPTURES 2019-2020</p>
Cumulative distance (km) address or postcode to recapture location Jan-Oct 2020-2019	2020-2019 Jan-Oct -11% Oct -41%	 <p>RECAPTURE CUMULATIVE DISTANCE ADDRESS TO RECAPTURE JAN-OCT 2019-2020</p>
Cumulative distance (km) address or postcode to recapture location Jan-Dec 2020-2019		 <p>RECAPTURE CUMULATIVE DISTANCE ADDRESS TO RECAPTURE 2019-2020</p>
Average distance (km) address or postcode to recapture location 2020-2019	Average distance 2020 2019 Oct 99 167 Sep 128 155	 <p>AVERAGE DISTANCE ADDRESS TO RECAPTURE LOCATION JAN-OCT 2019-2020</p>

MEASURE	ACTUAL	GRAPH
FITZROY RIVER	ESTUARY	REGIONAL PERSPECTIVE
Number of recaptures	2020 2019 Jul 5 7 Aug 4 11 Sep 18 25 Oct 23 64 YTD 127 209	
Cumulative recaptures Jan-Oct 2019-2020 Dots show recaptures by interstate fishers	Oct 2020-2019 -64% Interstate fishers Jan-Sep 2020 2 2019 4	
Cumulative recaptures Jan-Dec 2020-2019 Dots show recaptures by interstate fishers	2020-2019 Jan-Oct -39%	
Cumulative recaptures based on local and non-local postcodes 2020-2019	Local trips 2019 66% Jan-Mar 2020 68% Apr-Oct 2020 76%	
Cumulative distance (km) address or postcode to recapture location Jan-Oct 2020-2019	Distance 2020-2019 Jan-Mar +58.6% Apr-Oct -80%	
Cumulative distance (km) address or postcode to recapture location 2019-2020	Distance 2020-2019 Jan-Oct -59%	
Average distance (km) address or postcode to recapture location Jan-Sep 2020-2019	Av distance 2020 2019 Feb 50 233 Oct 136 249	

MEASURE	ACTUAL	GRAPH
SOUTH EAST QLD	ESTUARIES	REGIONAL PERSPECTIVE
Number of recaptures	2020 2019 Jul 8 14 Aug 11 12 Sep 11 13 Oct 16 20 YTD 161 167	
Cumulative recaptures Jan-Oct 2020-2019 Dots show recaptures by interstate fishers	2020-2019 Oct -20% Interstate fishers 2020 0 2019 2	
Cumulative recaptures 2020-2019 Dots show recaptures by interstate fishers	2020-2019 Jan-Oct -4%	
Cumulative distance (km) address or postcode to recapture location Jan-Oct 2020-2019 Ex interstate trips	Distance 2020-2019 Oct +12% Jan-Oct -3%	
Cumulative distance (km) address or postcode to recapture location 2020-2019 Inc interstate trips	Distance 2020-2019 Jan-Oct -44%	
Average distance (km) address or postcode to recapture location Jan-Oct 2020-2019 Ex interstate trips	Average distance 2020 2019 Jan-Oct 20.7 21.4 Oct 25.9 23.1	

MEASURE	ACTUAL	GRAPH																		
SOUTH EAST QLD	FRESHWATER	IMPOUNDMENTS																		
Impoundments In a circle inland of SEQ	All stocked with Australian Bass	Lake Somerset Lake Wivenhoe Lake Moogerah Lake Maroon Lake Advancetown Lake Borumba																		
Number of recaptures	<table> <tr> <th></th><th>2020</th><th>2019</th></tr> <tr> <td>Jul</td><td>10</td><td>12</td></tr> <tr> <td>Aug</td><td>17</td><td>10</td></tr> <tr> <td>Sep</td><td>17</td><td>20</td></tr> <tr> <td>Oct</td><td>13</td><td>27</td></tr> <tr> <td>YTD</td><td>128</td><td>128</td></tr> </table>		2020	2019	Jul	10	12	Aug	17	10	Sep	17	20	Oct	13	27	YTD	128	128	
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YTD	128	128																		
Cumulative recaptures Jan-Oct 2020-2019 Dots show recaptures by interstate fishers	2020-2019 Jan-Mar -4% Apr 2020 Nil (no fishing) May-Oct +17%																			
Cumulative recaptures 2020-2019 Dots show recaptures by interstate fishers	2020-2019 Jan-Oct 0% Interstate fishers Jan-Oct 2020 6 2019 1																			
Cumulative distance (km) address or postcode to recapture location Jan-Oct 2020-2019	Distance 2020-2019 Jan-Mar -22% Apr May-Oct -100% +41%																			
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Average distance (km) address or postcode to recapture location Jan-Oct 2020-2019	<table> <tr> <th></th><th>2020</th><th>2019</th></tr> <tr> <td>Apr</td><td>0</td><td>65</td></tr> <tr> <td>Oct</td><td>56</td><td>65</td></tr> </table>		2020	2019	Apr	0	65	Oct	56	65										
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CENTRAL QLD	FRESHWATER	IMPOUNDMENT																																																			
Impoundment near Gladstone	Stocked with Barramundi	Lake Awoonga																																																			
Number of recaptures	<table> <thead> <tr> <th></th><th>2020</th><th>2019</th></tr> </thead> <tbody> <tr> <td>Jul</td><td>1</td><td>3</td></tr> <tr> <td>Aug</td><td>3</td><td>1</td></tr> <tr> <td>Sep</td><td>3</td><td>5</td></tr> <tr> <td>Oct</td><td>3</td><td>11</td></tr> <tr> <td>YTD</td><td>26</td><td>33</td></tr> </tbody> </table>		2020	2019	Jul	1	3	Aug	3	1	Sep	3	5	Oct	3	11	YTD	26	33	<table> <caption>AWOONGA RECAPTURES JAN-OCT 2019-2020</caption> <thead> <tr> <th>Month</th> <th>2019</th> <th>2020</th> </tr> </thead> <tbody> <tr><td>JAN</td><td>5</td><td>3</td></tr> <tr><td>FEB</td><td>6</td><td>6</td></tr> <tr><td>MAR</td><td>2</td><td>1</td></tr> <tr><td>APR</td><td>2</td><td>2</td></tr> <tr><td>MAY</td><td>3</td><td>3</td></tr> <tr><td>JUN</td><td>1</td><td>1</td></tr> <tr><td>JUL</td><td>3</td><td>1</td></tr> <tr><td>AUG</td><td>2</td><td>3</td></tr> <tr><td>SEP</td><td>5</td><td>3</td></tr> <tr><td>OCT</td><td>11</td><td>3</td></tr> </tbody> </table>	Month	2019	2020	JAN	5	3	FEB	6	6	MAR	2	1	APR	2	2	MAY	3	3	JUN	1	1	JUL	3	1	AUG	2	3	SEP	5	3	OCT	11	3
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Product of Infish Australia



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About the Observations

- The number of tagged fish in any waterway is an accumulation of the number of tagged fish in preceding years and the current year and discounted by fish lost through natural and fishing mortality or emigration or gained through immigration
- The number of tagged fish throughout the states waterways varies from year to year with the overall number of fish tagged in 2020 down by around 20% on the numbers tagged in 2019, possibly resulting in a reduction in the number of recaptures
- Distance calculated between address and recapture does not represent the actual distance travelled by road and/or by boat, which is likely to be considerably further, but provides a reasonable estimate for comparison purposes

Data sources

Data used in the GOFISH-20 Crystal Bowl are:

- Tag and recapture records for Queensland from Infish Suntag database from http://crystalbowl.infishaustralia.com.au/infish/f_infish.htm
- Postcodes data from Australia Postcode Location Data at Corra at <https://www.corra.com.au/australian-postcode-location-data/>
- River flow data from Water Monitoring Information Portal Station 130005A the Gap on the Fitzroy River at <https://water-monitoring.information.qld.gov.au/>

Data analysis

- Effort proxy is based on daily number of recreational recaptures each year
- Distance based on straight line distance between centroid of grid in which the fish was recaptured and their residential address, or town or suburb or centroid of their postcode, whichever is provided and calculated using Google Earth
- Fitzroy River includes Infish maps FRR, PAR and CIS
- SEQ is from Sunshine Coast to Gold Coast including Infish maps SC22, SC21, SC20, PPB, CAB, MB01, MB02, MB03, MB05, GC22, GC23 and TWR
- SEQ impoundments for Australian Bass include Infish maps ADV, LMM, LMH, LWH, LS01 and LBY
- Central Qld impoundment for Barramundi includes Infish map GLA
- Interstate recaptures are limited to the east coast and includes NSW and Vic as that is where almost all interstate fishers come from