

LAKE ADVANCETOWN REVIEW JUNE 2025

INFORMATION RATING



Stocking group: Hinze Dam Stocking Committee

Species: Australian Bass, Golden Perch, Mary River Cod, Southern Saratoga, Eeltail Catfish (not stocked)

Stocking timeframe: 2012-2022

Fish timeframe: 2016-June 2025

Fisher timeframe: 2021-June 2025

DPI link: <https://www.daf.qld.gov.au/rsa/sips-dams-and-weirs/profile?dam=hinze-dam>

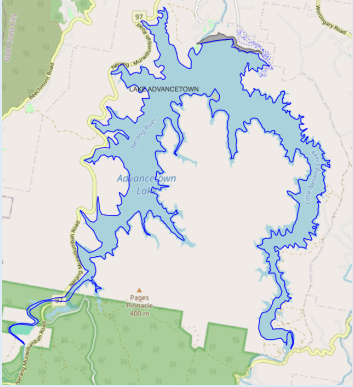
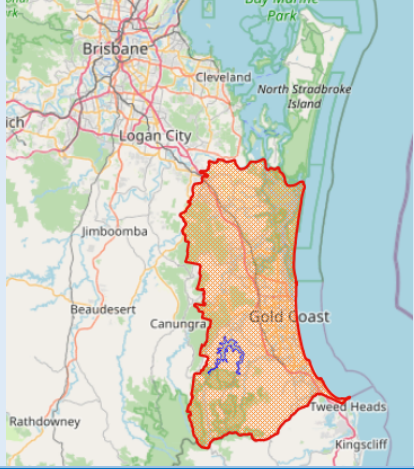
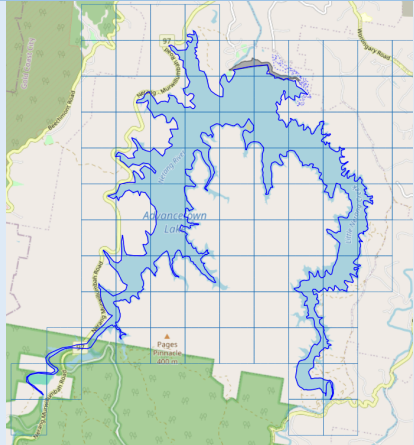
Lake Advancetown has been stocked with Australian Bass, Golden Perch, Silver Perch, Southern Saratoga and Mary River Cod. From 2012-2022 there were 517,450 Bass, 59,800 Golden Perch and 1,500 Mary River Cod fingerlings stocked. For every 10,000 fingerlings stocked there have been 164 Bass and 4 Golden Perch tagged. Eeltail Catfish are not stocked and are a self-sustaining native species.

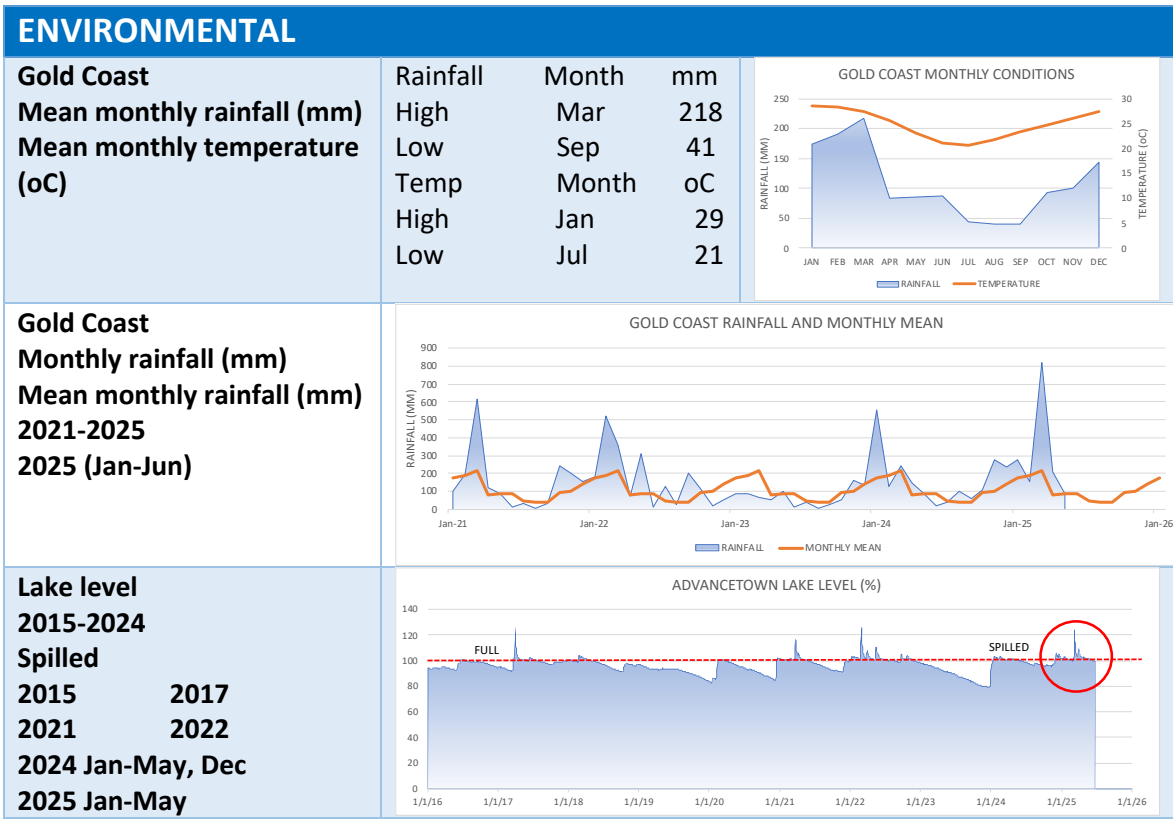
The lake is primarily an experiential fishery mostly fished by locals. Fishers recapturing fish are mostly from the Gold Coast, Ipswich and Brisbane (south of the Brisbane River). In Mar-Apr 2024 there were visits from Brisbane and the Sunshine Coast fishers while Lake Baroon on the Sunshine Coast was closed to fishing due to spilling.

Fishing in the lake is limited to electric motors only resulting in lower effort and lower recapture rates than other similar impoundments. Tag rates are high with a 10-year average of 14.1 fish/day however this is strongly influenced by some taggers using bait since 2020.

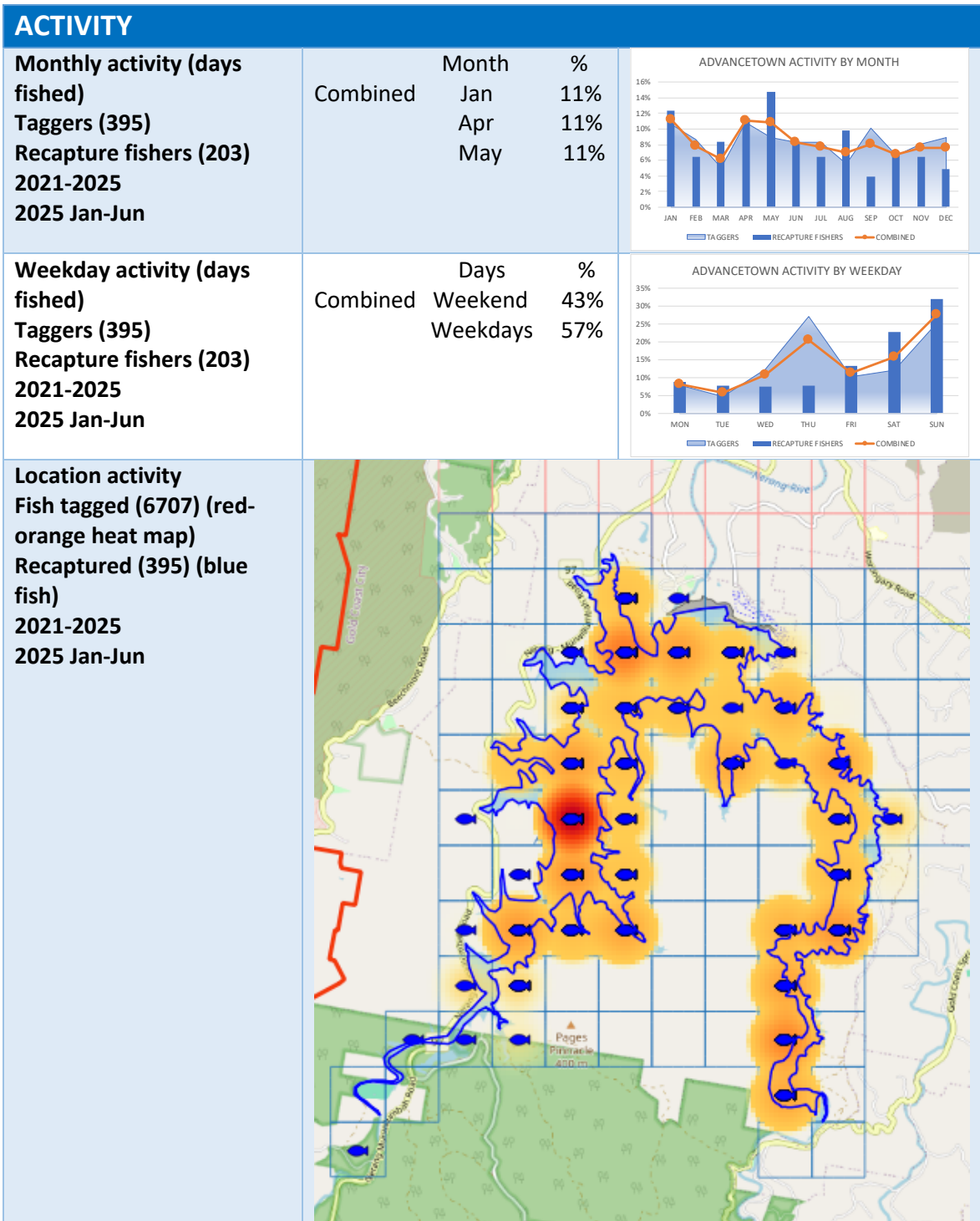
The spilling of Lake Advancetown in 2022 resulted in reduced tagging and fishing effort during the early part of that year. Tagging was reduced from Oct 2023-Jun 2024 due to a shortage of tags so tag rates over that time were lower than the actual catch rates.

Bass spilled from the lake during 2022 and 20 were recaptured below the dam in the Nerang River and 1 well upstream in the Coomera River from Apr 2022-2024. There have not been any recaptures reported from below the dam since Nov 2023. The lake spilled again at the end of 2024 and from Jan-May 2025 however no additional recaptures were made below the dam.

LAKE ADVANCETOWN		LOCATION
	Lake Advancetown 28.06°S 153.28°E	
IMPOUNDMENT	ACTUAL	GRAPH or MAP
Grid map Lake Advancetown ADV Surface area	Surface area 18.0km ²	

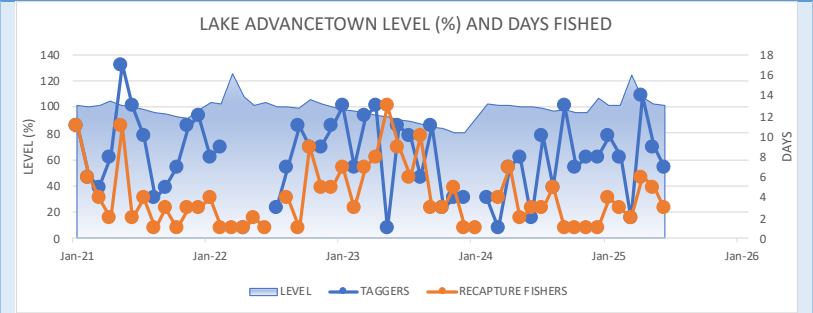


FISHERS		ACTUAL		GRAPH or MAP	
DATA RELIABILITY					
Sample size (days fished)		Reliability level		MODERATE	
Tag days (blue arrow)		Samples		MODERATE	
Recaptures (orange arrow)		Confidence		90%	
Confidence %		Error		5%	
Error %				5%	
2021-2025					
TYPE OF FISHERY					
Seasonality		Months most fished		ADVANCETOWN FISHING SEASONALITY	
Mean rainfall (mm) and temperature (oC)		Fishers combined		JAN	
Days combined (598)		Apr		FEB	
Taggers		May		MAR	
Recapture fishers				APR	
2021-2025				MAY	
Harvest or experiential		Bass legal fish harvest rate		JUN	
Release rate of recaptured legal Bass by recfishers (ex-taggers)		Legal fish		JUL	
2021-2025		Kept		AUG	
2025 Jan-Jun		Released		SEP	
				OCT	
				NOV	
				DEC	
Local or visitor fishery		Recapture fishers		TYPE OF FISHERY	
Where recapture fishers live		Local*		HARVEST	
2021-2025		Visitor		EXPERIENTIAL	
		*within Gold Coast LGA			
Gender of recapture fishers (ex-taggers)		Recapture fishers		GENDER OF RECAPTURE FISHERS	
2021-2025		Male		MALE	
2025 Jan-Jun		Female		FEMALE	

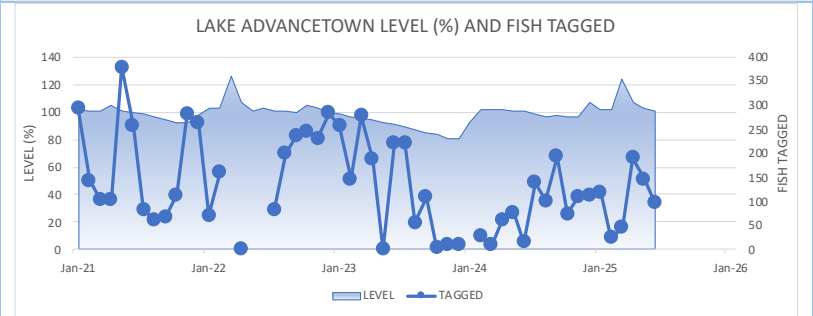


EFFORT

Lake level (% full)
Days fished
Taggers
Recapture fishers
2021-2025
2025 Jan-Jun

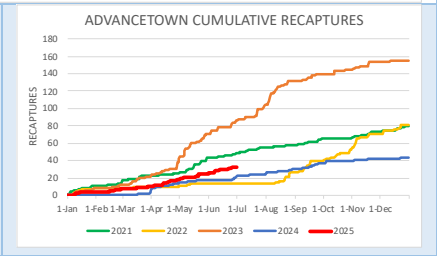


Lake level (% full)
Fish tagged
2021-2025
2025 Jan-Jun



Cumulative recaptures
2021-2025
2025 Jan-Jun

Year	Recaps
2021	80
2022	81
2023	155
2024	44
2025 Jan-Jun	32

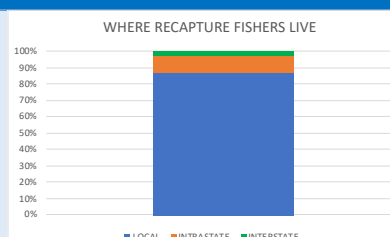


TRAVEL			
Cumulative distance (km) where fishers live to recapture location (ex-interstate) 2021-2025 2025 Jan-Jun	Year	Kms	
	2021	1838	
	2022	1874	
	2023	5072	
	2024	2674	
	2025 Jan-Jun	1212	
Distance (km) home to recapture location Local Intrastate Bars show distance range Dots show outliers 2021-2025 2025 Jan-Jun			
Proxy travel (km) home to recapture location Local (<60km) Intrastate (>=60 Qld) Interstate (not Qld) 2021-2025 2025 Jan-Jun	Trips	397	
	Range (km)		
	Local	2-59	
	Intrastate	60-1180	
	Interstate	28-1303	
Proxy travel average distance (km) home to recapture location 2021-2025 2025 Jan-Jun	Graph excludes 3 fishers from Romsey Vic		
	Trips	397	
	Average distance (km)		
	Local	23	
	Intrastate	125	
	Interstate	365	

WHERE RECAPTURE FISHERS LIVE

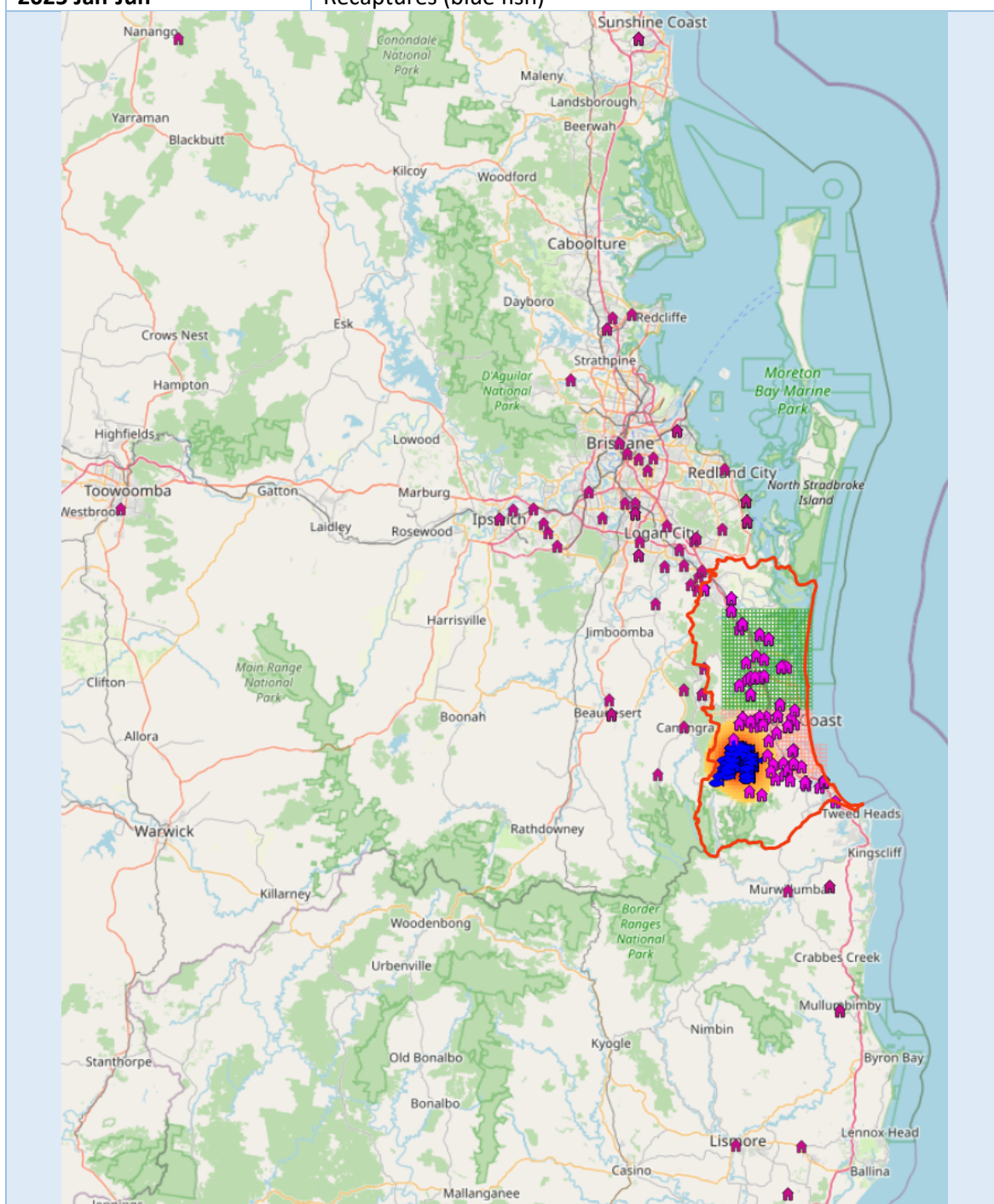
Where recapture fishers live
2021-2025
2025 Jan-Jun







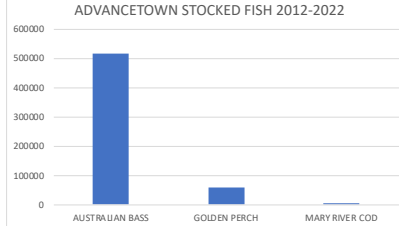
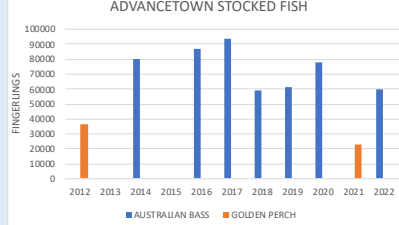
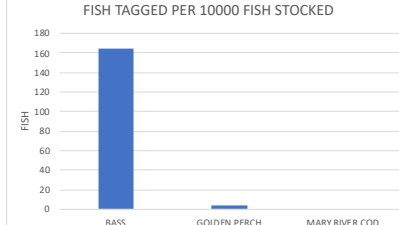
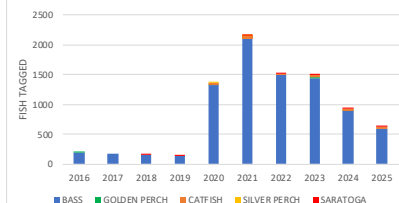
Recapture fishers 397
 Local 345 (87%)
 Intrastate 40 (19%)
 Interstate 12 (3%)


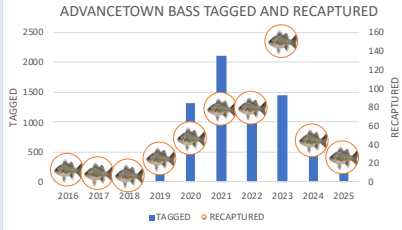
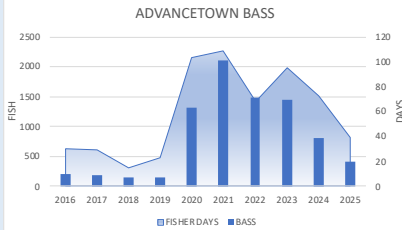
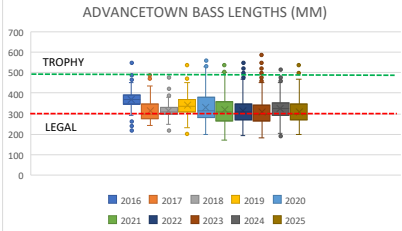


Where fishers recapturing fish live
2021-2025
2025 Jan-Jun

Local LGA (pink houses) (257)
 Visitors outside LGA (maroon houses) (140)
 Not shown 3 fishers from Romsey Vic
 Recaptures (blue fish)



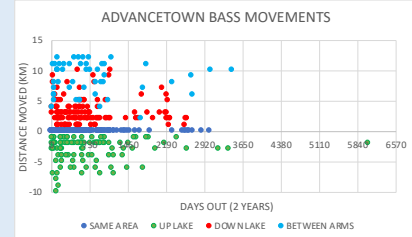
SPECIES	ACTUAL	GRAPH or MAP
AUSTRALIAN BASS	GOLDEN PERCH	MARY RIVER COD
		
EELTAIL CATFISH	SILVER PERCH	SOUTHERN SARATOGA
		
STOCKED		
Fingerlings stocked 2012-2022	Bass 517,450 Golden Perch 59,800 Mary River Cod 1,500	
Fingerlings stocked 2012-2022	Bass 2016 87,000 2017 93,400 2018 58,700 2019 61,100 2020 77,800 2022 59,400	
Fish tagged 2015-2024 per 10,000 fish stocked 2012-2022	Tagged/10,000 fingerlings Bass 164 Golden Perch 4	
TAGGED		
Species tagged 2016-2025 2025 Jan-Jun	Tagged Bass 8510 Golden Perch 22 Eeltail Catfish 187 Silver Perch 2 Saratoga 19	

BASS																													
																													
DATA RELIABILITY																													
Sample size (fish/year)	<table><tr><td>Reliability level</td><td>LOW</td><td>MODERATE</td><td>MODERATE</td><td>HIGH</td></tr><tr><td>Samples</td><td>10</td><td>41</td><td>68</td><td>271</td><td>384</td><td>664</td></tr><tr><td>Confidence</td><td>80%</td><td>80%</td><td>90%</td><td>90%</td><td>95%</td><td>99%</td></tr><tr><td>Error</td><td>20%</td><td>10%</td><td>10%</td><td>5%</td><td>5%</td><td>5%</td></tr></table>			Reliability level	LOW	MODERATE	MODERATE	HIGH	Samples	10	41	68	271	384	664	Confidence	80%	80%	90%	90%	95%	99%	Error	20%	10%	10%	5%	5%	5%
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Bass																													
Tagged	8510	Recaptured	476																										
Recaptured																													
2016-2025																													
2025 Jan-Jun																													
	Recapture rate																												
	5.6%																												
	Tagged 2025 Jan-Jun																												
	594																												
																													
TAG RATE																													
Catch and effort taggers	High	Low	Now																										
number of fish	Catch																												
fisher days	2021	2019	2025																										
2016-2025	2098	146	594																										
2025 Jan-Jun	Days																												
	2021	2018	2025																										
	109	15	39																										
																													
Tag rate	High	Low	Now																										
Fish/day	2022	2017	2025																										
2016-2025	22.0	6.1	10.7																										
2025 Jan-Jun																													
Tag rate boosted by bait fishing	10 year average		14.1																										
2020-2025																													
LENGTHS																													
Average length (mm)	High	Low	Now																										
Bars show length range	Average length																												
Dots show outliers	2016	2023	2025																										
2016-2025	367	307	310																										
2025 Jan-Jun	Largest																												
	2023	2018	2025																										
	590	480	540																										
																													

Fish length percentage (%) Undersize <300mm Legal 300-499mm Trophy 500+mm 2016-2025 2025 Jan-Jun	<table><tr><td>High</td><td>Low</td><td>Now</td></tr><tr><td>Legal-trophy</td><td></td><td></td></tr><tr><td>2016</td><td>2023</td><td>2025</td></tr><tr><td>92%</td><td>52%</td><td>53%</td></tr><tr><td>Trophy</td><td></td><td></td></tr><tr><td>2020</td><td>2018</td><td>2025</td></tr><tr><td>3%</td><td>0%</td><td>0.5%</td></tr></table>	High	Low	Now	Legal-trophy			2016	2023	2025	92%	52%	53%	Trophy			2020	2018	2025	3%	0%	0.5%	<table><caption>Advancetown Bass Lengths Data (Estimated)</caption><thead><tr><th>Year</th><th>Undersize (%)</th><th>Legal (%)</th><th>Trophy (%)</th></tr></thead><tbody><tr><td>2016</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2017</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2018</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2019</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2020</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2021</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2022</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2023</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2024</td><td>10</td><td>85</td><td>5</td></tr><tr><td>2025</td><td>10</td><td>85</td><td>5</td></tr></tbody></table>	Year	Undersize (%)	Legal (%)	Trophy (%)	2016	10	85	5	2017	10	85	5	2018	10	85	5	2019	10	85	5	2020	10	85	5	2021	10	85	5	2022	10	85	5	2023	10	85	5	2024	10	85	5	2025	10	85	5
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Legal Bass recaptures kept and released by recfishers (ex-taggers) Legal length 300mm 2016-2025 2025 Jan-Jun	<table><tr><td>Recaptures</td><td>199</td></tr><tr><td>Kept</td><td>8 (4%)</td></tr><tr><td>Released</td><td>191 (96%)</td></tr></table>	Recaptures	199	Kept	8 (4%)	Released	191 (96%)	<table><caption>Recaptured Legal Bass Data (Estimated)</caption><thead><tr><th>Year</th><th>Kept (%)</th><th>Released (%)</th></tr></thead><tbody><tr><td>2015-2024</td><td>4</td><td>96</td></tr></tbody></table>	Year	Kept (%)	Released (%)	2015-2024	4	96																																																					
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Bass growth based on recaptures of fish tagged 200-300mm 2016-2025 2025 Jan-Jun	<table><tr><td>Recaptures</td><td>165</td></tr><tr><td>Annual growth (mm)</td><td></td></tr><tr><td>Year 1</td><td>52</td></tr><tr><td>Year 2</td><td>82</td></tr><tr><td>Year 3</td><td>102</td></tr><tr><td>Year 4</td><td>115</td></tr><tr><td>Year 5</td><td>125</td></tr></table>	Recaptures	165	Annual growth (mm)		Year 1	52	Year 2	82	Year 3	102	Year 4	115	Year 5	125	<table><caption>Advancetown Bass Growth Data (Estimated)</caption><thead><tr><th>Days Out (Years)</th><th>Growth (mm)</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>365</td><td>52</td></tr><tr><td>730</td><td>82</td></tr><tr><td>1095</td><td>102</td></tr><tr><td>1460</td><td>115</td></tr><tr><td>1825</td><td>125</td></tr><tr><td>2190</td><td></td></tr><tr><td>2555</td><td></td></tr><tr><td>2920</td><td></td></tr></tbody></table>	Days Out (Years)	Growth (mm)	0	0	365	52	730	82	1095	102	1460	115	1825	125	2190		2555		2920																																
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Bass survival based on recaptures by years out after tagging All years	<table><tr><td>Survival rate by years out</td><td></td></tr><tr><td>Year</td><td>Recaptures</td></tr><tr><td>1</td><td>485</td></tr><tr><td>5</td><td>67</td></tr><tr><td>10</td><td>4</td></tr><tr><td>Longest time out (years)</td><td></td></tr><tr><td>16.6</td><td></td></tr></table>	Survival rate by years out		Year	Recaptures	1	485	5	67	10	4	Longest time out (years)		16.6		<table><caption>Advancetown Bass Survival Data (Estimated)</caption><thead><tr><th>Years</th><th>Recaptures</th></tr></thead><tbody><tr><td>1</td><td>485</td></tr><tr><td>2</td><td>300</td></tr><tr><td>3</td><td>180</td></tr><tr><td>4</td><td>100</td></tr><tr><td>5</td><td>80</td></tr><tr><td>6</td><td>60</td></tr><tr><td>7</td><td>50</td></tr><tr><td>8</td><td>40</td></tr><tr><td>9</td><td>30</td></tr><tr><td>10</td><td>20</td></tr><tr><td>11</td><td>10</td></tr><tr><td>12</td><td>5</td></tr></tbody></table>	Years	Recaptures	1	485	2	300	3	180	4	100	5	80	6	60	7	50	8	40	9	30	10	20	11	10	12	5																									
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Survival rates each year based on recaptures by years out after tagging Years 1-8	<table><tr><td>Average annual survival rate</td><td>0.64 (64%)</td></tr></table>	Average annual survival rate	0.64 (64%)	<table><caption>Annual Survival Rate Data (Estimated)</caption><thead><tr><th>Year</th><th>Survival Rate</th></tr></thead><tbody><tr><td>1</td><td>0.64</td></tr><tr><td>2</td><td>0.64</td></tr><tr><td>3</td><td>0.64</td></tr><tr><td>4</td><td>0.64</td></tr><tr><td>5</td><td>0.64</td></tr><tr><td>6</td><td>0.64</td></tr><tr><td>7</td><td>0.64</td></tr><tr><td>8</td><td>0.64</td></tr></tbody></table>	Year	Survival Rate	1	0.64	2	0.64	3	0.64	4	0.64	5	0.64	6	0.64	7	0.64	8	0.64																																													
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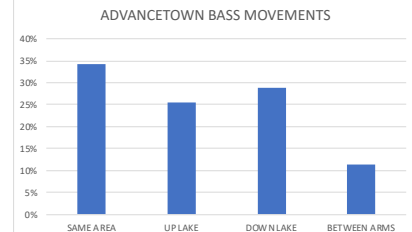
MOVEMENT

Movement in lake
Fish tagged
Recaptured
2016-2025
2025 Jan-Jun



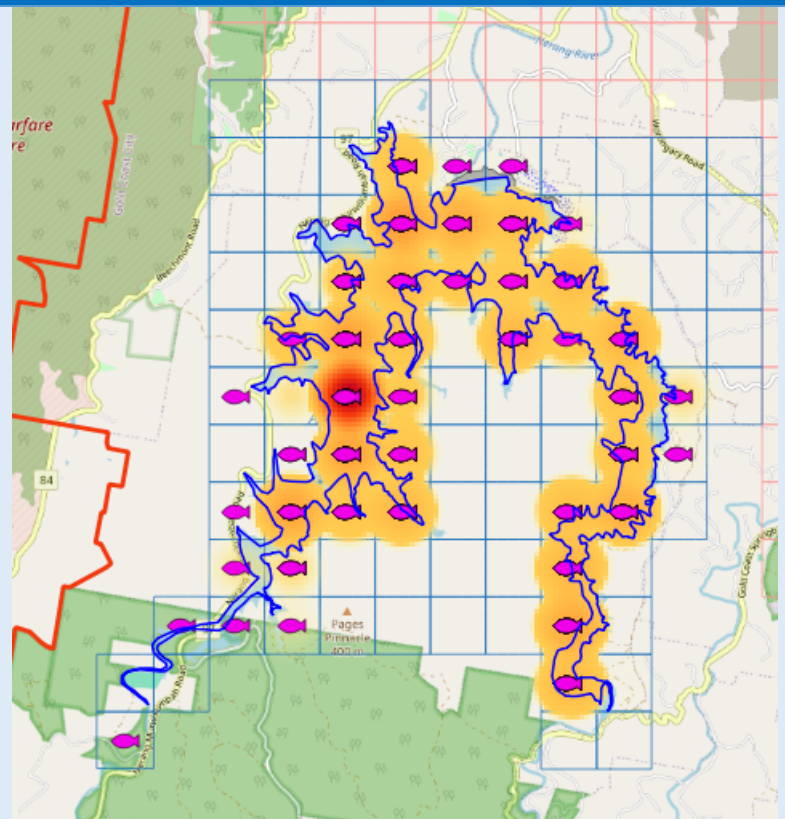
Movement in lake
2016-2025
2025 Jan-Jun

Recaptures	436
Same area	149 (34%)
Up lake	111 (25%)
Down lake	126 (29%)
Between arms	50 (12%)



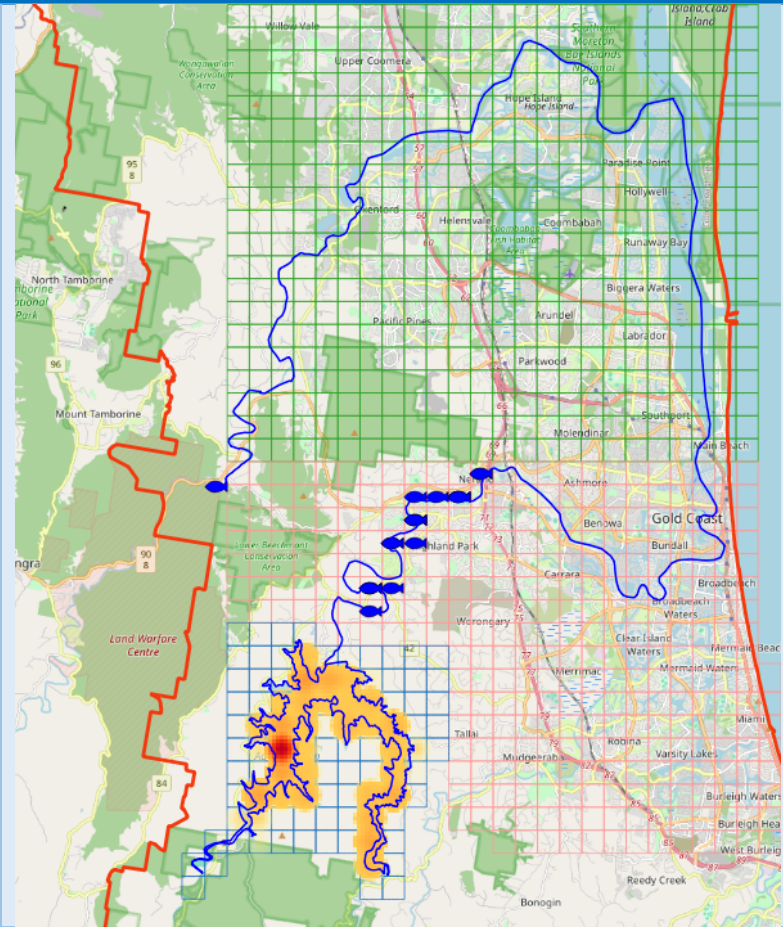
LOCATIONS

Locations
Tagged fish (8510)
(red-orange heat map)
Recaptures (476)
(pink fish)
2016-2025
2025 Jan-Jun



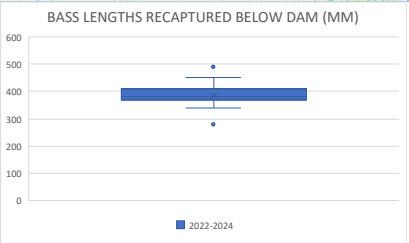
RECAPTURES BELOW DAM


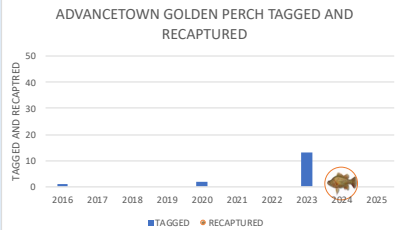
Recaptures outside lake
after 2022 spill
Bass (blue fish) (21)
Furthest distance
Coomera River (90km)
Tagged <1/4/2022
Recaptured >1/4/2022-2025
No recaptures below dam
2025 Jan-Jun




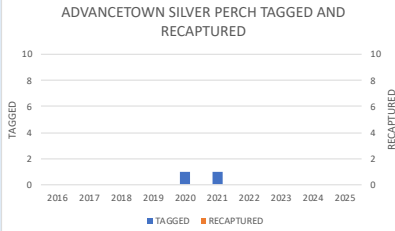
Bass lengths (mm) of fish
recaptured below dam
2022-2025
2025 Jan-Jun


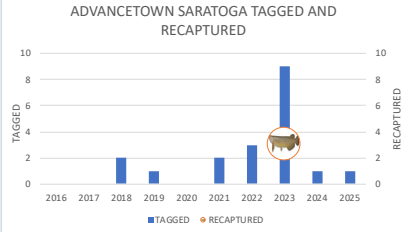
Recaptures	19
Average length	386
Min	280
Max	490


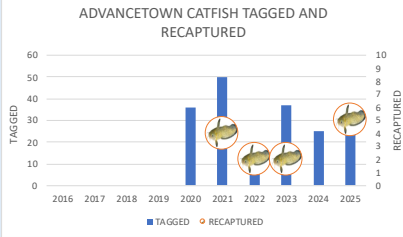
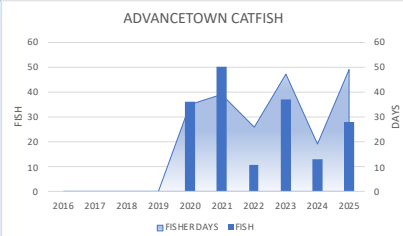
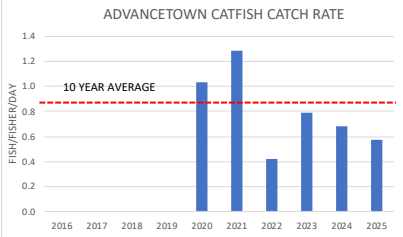
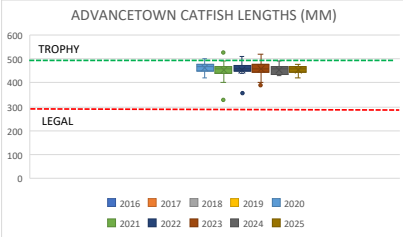


GOLDEN PERCH	ACTUAL	GRAPH or MAP
		
TAGGED		
Golden Perch tagged and recaptured 2016-2025 2025 Jan-Jun	Tagged 22 Recaptured 1 Recapture rate 4.5% Tagged 2025 0	

MARY RIVER COD		
		
TAGGED		
Mary River Cod recorded 2021-2025 2025 Jan-Jun	Recorded 0 Mary River Cod able to be tagged from 2023	

SILVER PERCH	ACTUAL	GRAPH or MAP
		
TAGGED		
Silver Perch tagged and recaptured 2016-2025 2025 Jan-Jun	Tagged 2 Recaptured 0 Recapture rate 0% Tagged 2025 0	

SOUTHERN SARATOGA	ACTUAL	GRAPH or MAP																																	
																																			
TAGGED																																			
Southern Saratoga tagged and recaptured 2016-2025 2025 Jan-Jun	Tagged 19 Recaptured 3 Recapture rate 15.8% Tagged 2025 0	 <p>ADVANCETOWN SARATOGA TAGGED AND RECAPTURED</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Tagged</th> <th>Recaptured</th> </tr> </thead> <tbody> <tr><td>2016</td><td>0</td><td>0</td></tr> <tr><td>2017</td><td>0</td><td>0</td></tr> <tr><td>2018</td><td>2</td><td>0</td></tr> <tr><td>2019</td><td>1</td><td>0</td></tr> <tr><td>2020</td><td>0</td><td>0</td></tr> <tr><td>2021</td><td>2</td><td>0</td></tr> <tr><td>2022</td><td>3</td><td>0</td></tr> <tr><td>2023</td><td>9</td><td>3</td></tr> <tr><td>2024</td><td>1</td><td>0</td></tr> <tr><td>2025</td><td>1</td><td>0</td></tr> </tbody> </table>	Year	Tagged	Recaptured	2016	0	0	2017	0	0	2018	2	0	2019	1	0	2020	0	0	2021	2	0	2022	3	0	2023	9	3	2024	1	0	2025	1	0
Year	Tagged	Recaptured																																	
2016	0	0																																	
2017	0	0																																	
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2022	3	0																																	
2023	9	3																																	
2024	1	0																																	
2025	1	0																																	

EELTAIL CATFISH	ACTUAL	GRAPH																					
	Native fish not stocked																						
TAGGED																							
Eeltail Catfish tagged and recaptured Only tagged since 2020 2020-2025 2025 Jan-Jun	Tagged 187 Recaptured 13 Recapture rate 7.0% Tagged 2025 28																						
TAG RATE																							
Catch and effort taggers Fish tagged Days fished 2020-2025 2025 Jan-Jun	<table> <tr> <td>High</td><td>Low</td><td>Now</td></tr> <tr> <td>Catch</td><td></td><td></td></tr> <tr> <td>2021</td><td>2022</td><td>2025</td></tr> <tr> <td>50</td><td>11</td><td>28</td></tr> <tr> <td>Days</td><td></td><td></td></tr> <tr> <td>2023</td><td>2022</td><td>2025</td></tr> <tr> <td>47</td><td>26</td><td>49</td></tr> </table>	High	Low	Now	Catch			2021	2022	2025	50	11	28	Days			2023	2022	2025	47	26	49	
High	Low	Now																					
Catch																							
2021	2022	2025																					
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Catch rate Fish/day 2020-2025 2025 Jan-Jun	<table> <tr> <td>High</td><td>Low</td><td>Now</td></tr> <tr> <td>Catch rate</td><td></td><td></td></tr> <tr> <td>2021</td><td>2022</td><td>2025</td></tr> <tr> <td>1.3</td><td>0.4</td><td>0.6</td></tr> <tr> <td>6 year average</td><td></td><td>0.8</td></tr> </table>	High	Low	Now	Catch rate			2021	2022	2025	1.3	0.4	0.6	6 year average		0.8							
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LENGTH																							
Average length (mm) Bars show length range Dots show outliers 2020-2025 2025 Jan-Jun	<table> <tr> <td>High</td><td>Low</td><td>Now</td></tr> <tr> <td>Average length</td><td></td><td></td></tr> <tr> <td>2020</td><td>2021</td><td>2025</td></tr> <tr> <td>464</td><td>453</td><td>456</td></tr> <tr> <td>Largest</td><td></td><td></td></tr> <tr> <td>2021</td><td>2020</td><td>2025</td></tr> <tr> <td>530</td><td>500</td><td>480</td></tr> </table>	High	Low	Now	Average length			2020	2021	2025	464	453	456	Largest			2021	2020	2025	530	500	480	
High	Low	Now																					
Average length																							
2020	2021	2025																					
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LOCATIONS

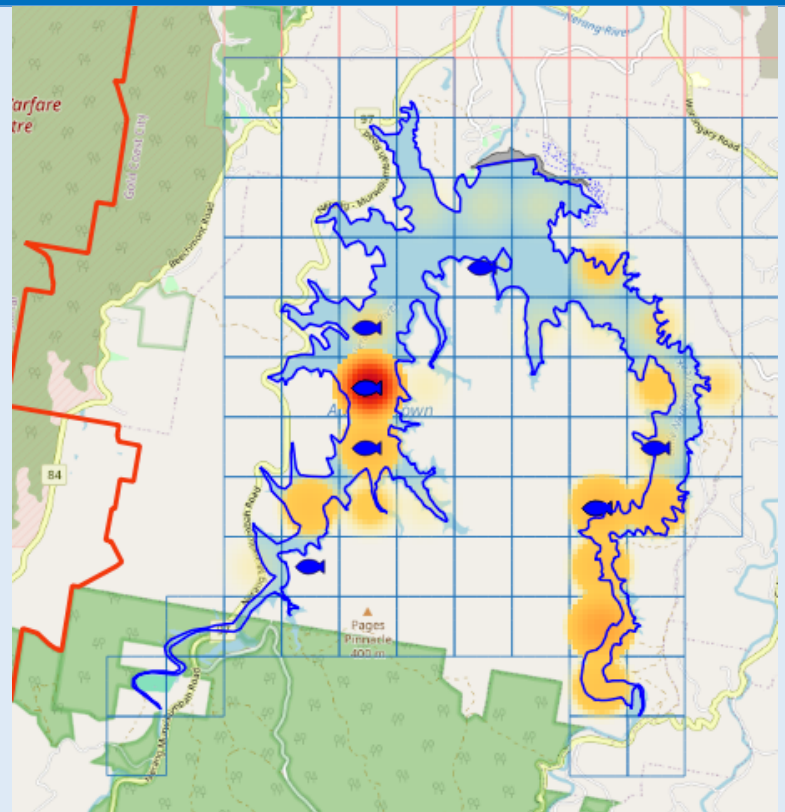
Catfish

Fish tagged (red-orange heat map) (187)

Recaptured (blue fish) (13)

2020-2025

2025 Jan-Jun



Data sources

Data used in the Lake Advancetown Crystal Bowl are:

- Tag records and recapture records for the impoundment at <http://crystalbowl.infofishaustralia.com.au/>.
- Dam level data from SEQwater at <https://www.seqwater.com.au/historic-dam-levels>.
- Stocked fish records from <https://www.data.qld.gov.au/dataset/queensland-freshwater-fish-stocking-records/>.

Basis for analysis

- Data reliability based on the sample size over the past 5 years for days fished by taggers, by fishers recapturing fish and fish tagged and recaptured.
- 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 Bass are <300mm, legal fish are ≥300 and <500mm and trophy fish are ≥500mm.
- Growth calculated using logarithmic curve from recaptures where fish were out for 90 days or more and had positive growth.
- Locations based on Infofish grid map ADV for the impoundment and other grid maps where fish were recaptured outside the impoundment.
- Survival rates are calculated based on a model that uses the reduction in the numbers of recaptures each year after tagging.