



LAKE CANIA REVIEW 2025

INFORMATION RATING



Stocking group: Cania Dam Fish Stocking Association

Species stocked: Australian Bass, Golden Perch, Silver Perch, Southern Saratoga

Stocking timeframe: 2014-2023

Fish timeframe: 2016-2025

Fisher timeframe: 2021-2025

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

Scroll through the dashboard to cover all subjects or for information on a specific subject go to:

LAKE CANIA OVERVIEW

LAKE CANIA LOCATION

ENVIRONMENTAL CONDITIONS

FISHER ACTIVITY

FISHER EFFORT

FISHER TRAVEL

STOCKED FISH

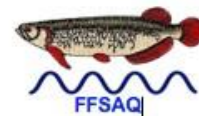
SPECIES TAGGED

BASS

GOLDEN PERCH

SARATOGA

SILVER PERCH



Product of Infish Australia

Supported by Suntag and FFSAQ

LAKE CANIA OVERVIEW

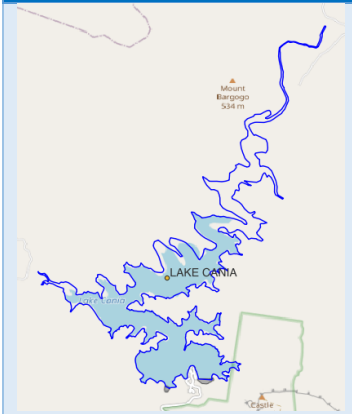
Lake Cania has been regularly stocked with Australian Bass, Golden Perch and Silver Perch. While Bass and Golden Perch have been stocked in large numbers the ratio of fish tagged is 76 Bass to 4 Golden Perch per 10,000 fingerlings stocked. There is also a population of Saratoga in the lake that is increasingly being targeted.

The SIPS competition saw an upsurge in fishing activity with increases in both tagger effort and recaptures. Based on where recapture fishers live Cania is mainly a visitor fishery and attracts fishers from a catchment that extends from Mackay in the north to Victoria in the south with most from central and southern Qld from over 100km away. Fishers from central Qld centres appear to fish Cania over a weekend or long weekend (43% are weekend recaptures) and this is often a family or group affair with Cania having the highest percentage of recaptures by female fishers at 28%. There is a peak in days fished in Mar, a quieter period over winter and then increased activity from Aug-Oct.

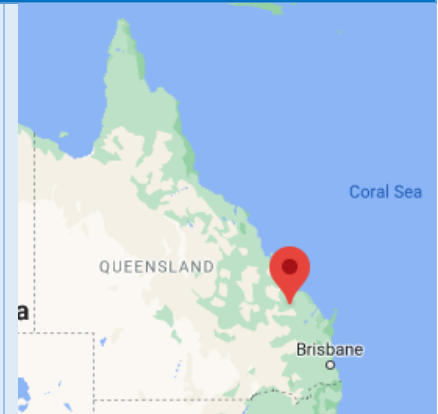
The tagger catch rate for Bass has fluctuated over the past decade from a high of 14.8 fish tagged per day in 2019 to a low of 2.5 in 2023 and was 7.8 this year. The level of trophy fish over 500mm tagged remains very low while the average length of Bass tagged was 281mm this year and the lowest average length in the past decade. There has been a steady decline in the percentage of legal size fish tagged over the past decade. The longest time out for a Bass after tagging is mostly around 10 years however 1 fish was recaptured after 11.9 years.

Unlike Bass lakes further south Cania did not spill in 2022 and hasn't spilled since 2017. This year the level has fallen steadily and is around 16% at the end of the year. There was a single Bass recaptured near Monto after the lake spilled in 2017. It is likely that more fish escaped when the lake spilled however no further fish were reported. Fishing effort below the dam is very low.

LAKE CANIA LOCATION

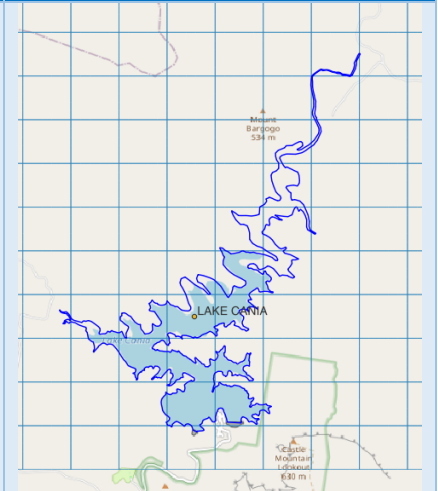
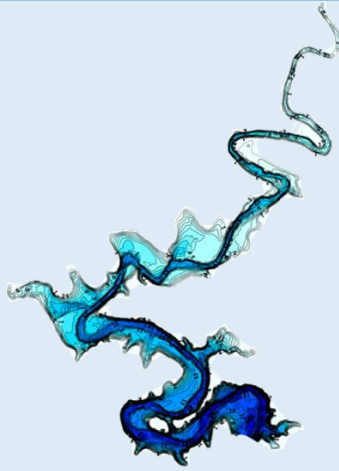


Lake Cania
24.63°S
150.98°E



LAKE

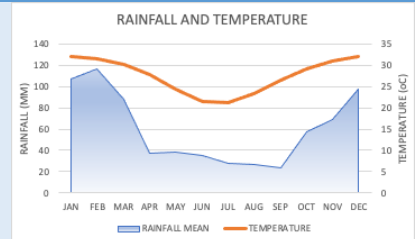
Grid map
Lake Cania LCG
Bathymetry
Surface area
7.2km²



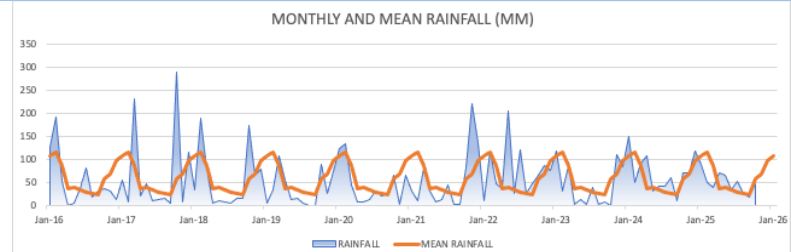
ENVIRONMENTAL CONDITIONS

Mena monthly rainfall (mm)
Mean monthly air temperature (oC)

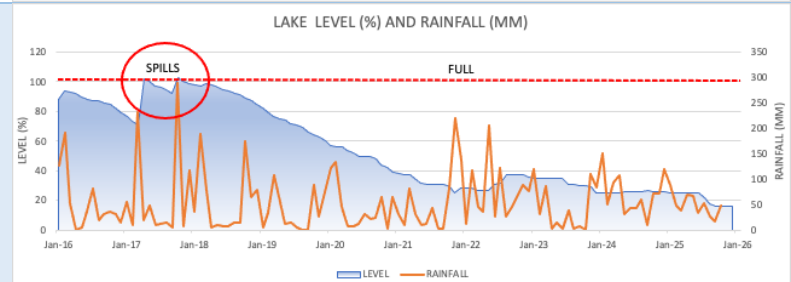
| Rainfall | Month | mm |
|----------|---------|-----|
| Max | Feb | 116 |
| Temp | Month | oC |
| Max | Dec-Feb | 32 |



Monthly rainfall (mm)
Mean monthly rainfall 2016-2025



Lake level 2016-2025
Spilled 2017
Level Dec 2025 16%

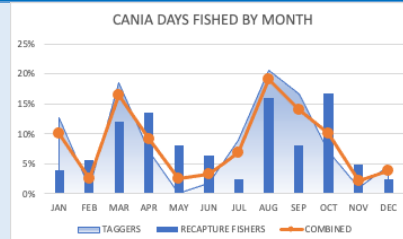


| TYPE OF FISHERY | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-------------------|----------|----------|----------|------|---------|----|----|----|-----|------------|-----|-----|-----|-----|-------|-----|-----|-----|----|--|
| DATA RELIABILITY | | | | | | | | | | | | | | | | | | | | | | |
| Sample size (days fished) Tag days (blue arrow) Recaptures (orange arrow) Confidence % Error % 2021-2025 | <table border="1"> <thead> <tr> <th>Reliability level</th> <th>LOW</th> <th>MODERATE</th> <th>MODERATE</th> <th>HIGH</th> </tr> </thead> <tbody> <tr> <td>Samples</td> <td>10</td> <td>41</td> <td>68</td> <td>271</td> </tr> <tr> <td>Confidence</td> <td>80%</td> <td>80%</td> <td>90%</td> <td>90%</td> </tr> <tr> <td>Error</td> <td>20%</td> <td>10%</td> <td>10%</td> <td>5%</td> </tr> </tbody> </table> | Reliability level | LOW | MODERATE | MODERATE | HIGH | Samples | 10 | 41 | 68 | 271 | Confidence | 80% | 80% | 90% | 90% | Error | 20% | 10% | 10% | 5% | |
| Reliability level | LOW | MODERATE | MODERATE | HIGH | | | | | | | | | | | | | | | | | | |
| Samples | 10 | 41 | 68 | 271 | | | | | | | | | | | | | | | | | | |
| Confidence | 80% | 80% | 90% | 90% | | | | | | | | | | | | | | | | | | |
| Error | 20% | 10% | 10% | 5% | | | | | | | | | | | | | | | | | | |
| Seasonality Mean rainfall (mm) and temperature (oC) Days combined (407) Taggers Recapture fishers 2021-2025 | Months most effort Fishers combined Aug Mar Sep | | | | | | | | | | | | | | | | | | | | | |
| Harvest or experiential fishery Release rate of recaptured legal Bass (ex-taggers) 2021-2025 | Bass legal fish kept rate Legal fish 93 Kept 29 (31%) Released 64 (69%) | | | | | | | | | | | | | | | | | | | | | |
| Local or visitor fishery Where recapture fishers live 2021-2025 | Recapture fishers 143 Local 14 (10%) Visitor 119 (90%) | | | | | | | | | | | | | | | | | | | | | |
| Gender of recapture fishers (ex-taggers) 2021-2025 | Recaptures 115 Male 83 (72%) Female 32 (28%) | | | | | | | | | | | | | | | | | | | | | |

FISHER ACTIVITY

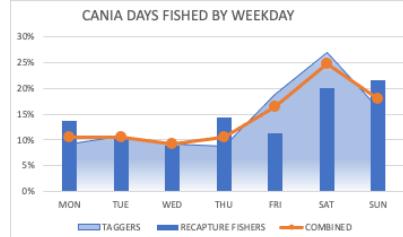
Monthly activity
Days fished
Taggers (261)
Recapture fishers (117)
2021-2025

| | Month | % |
|---------|-------|-----|
| Taggers | Aug | 21% |
| | Mar | 18% |
| Recaps | Oct | 17% |
| | Apr | 14% |



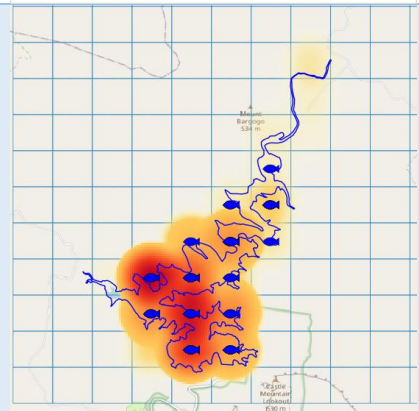
Weekday activity
Days fished
Taggers (261)
Recapture fishers (117)
2021-2025

| | Day | % |
|---------|----------|-----|
| Taggers | Weekdays | 56% |
| | Weekend | 44% |
| Recaps | Weekdays | 57% |
| | Weekend | 43% |



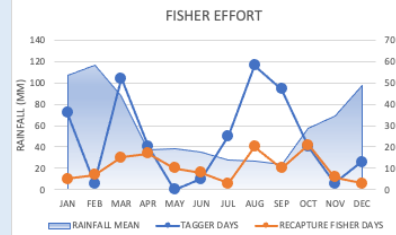
Location activity
Fish tagged (red-orange heat map)
Recaptured (blue fish)
2021-2025

| | |
|-------------|------|
| Fish tagged | 1946 |
| Recaptured | 144 |

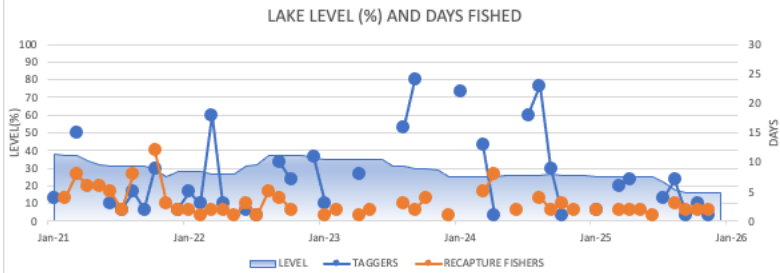


FISHER EFFORT

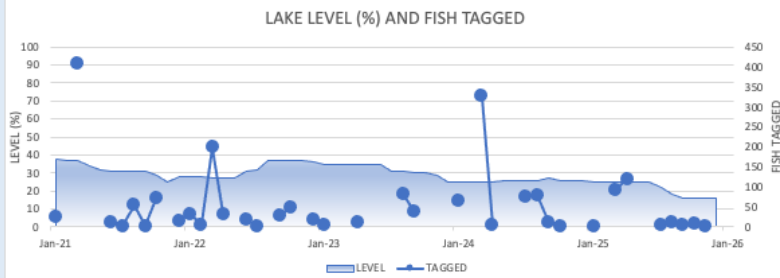
Monthly fisher effort
Taggers
Recapture fishers
2021-2025



Lake level (% full) and days
fished
Taggers
Recapture fishers
2021-2025

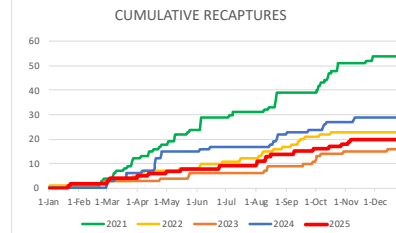


Lake level (%)
Fish tagged
2016-2025

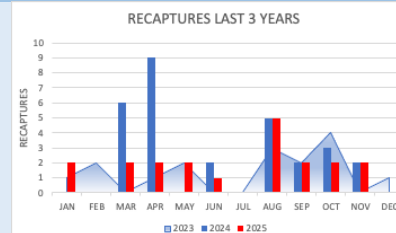


Cumulative recaptures
2021-2025

| Year | Recaps |
|------|--------|
| 2021 | 56 |
| 2022 | 23 |
| 2023 | 16 |
| 2024 | 29 |
| 2025 | 20 |



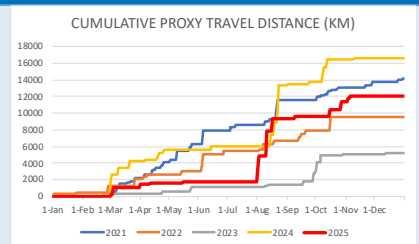
Monthly recaptures last 3
years
2023-2025



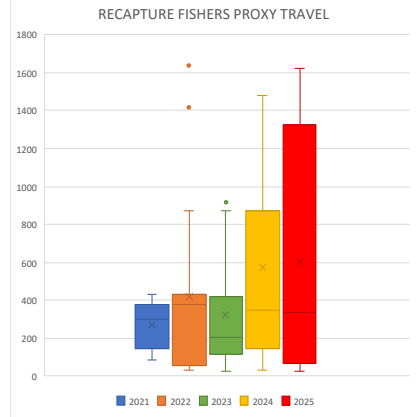
FISHER TRAVEL

Cumulative distance (km) home to recapture location 2021-2025

| Year | Km |
|------|-------|
| 2021 | 14128 |
| 2022 | 9595 |
| 2023 | 5143 |
| 2024 | 16584 |
| 2025 | 12066 |

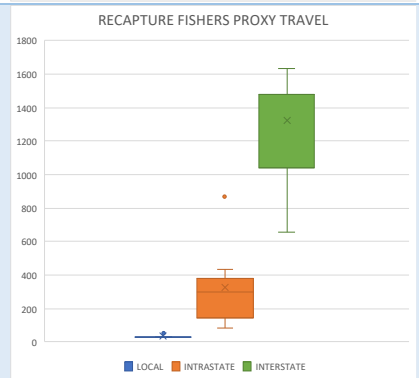


Distance (km) home to recapture location by year 2021-2025



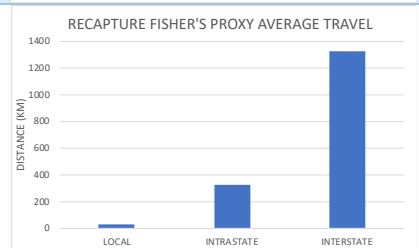
Distance (km) home to recapture location
Local
Intrastate
Interstate
2021-2025

| Trips | 143 |
|------------|----------|
| Range (km) | |
| Local | 27-55 |
| Intrastate | 84-873 |
| Interstate | 653-1635 |



Average distance (km) home to recapture location 2021-2025

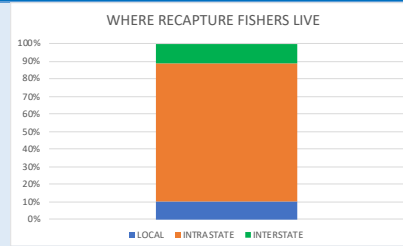
| Trips | 143 |
|-----------------------|------|
| Average distance (km) | |
| Local | 33 |
| Intrastate | 322 |
| Interstate | 1325 |



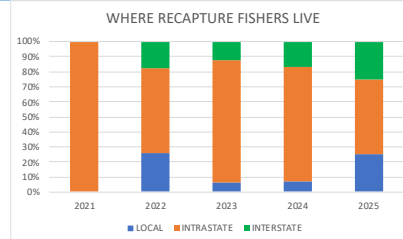
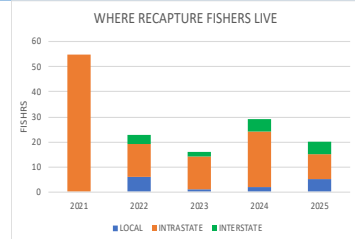
WHERE RECAPTURE FISHERS LIVE

Where recapture fishers live 2021-2025

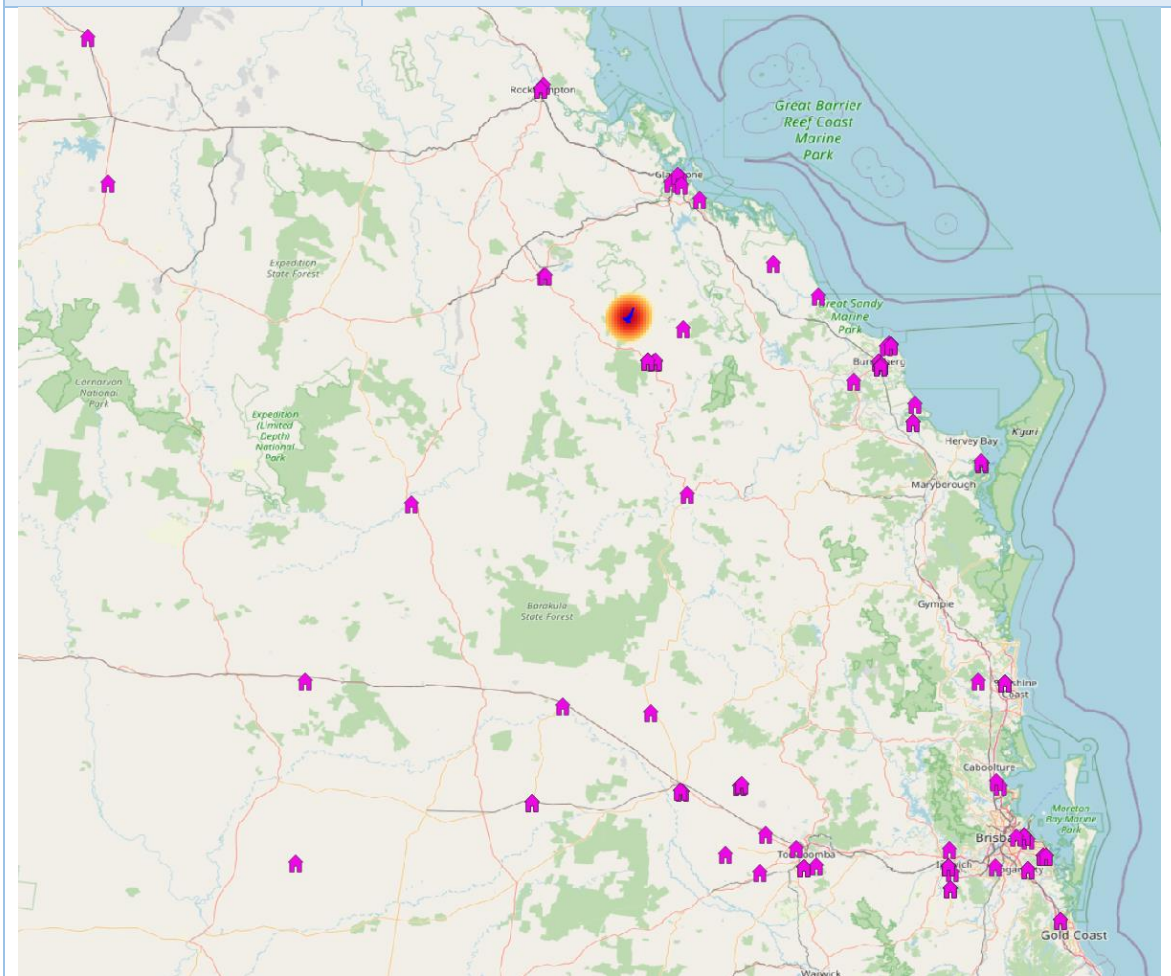
| | |
|------------|-----------|
| Trips | 143 |
| Local | 14 (10%) |
| Intrastate | 113 (79%) |
| Interstate | 16 (11%) |



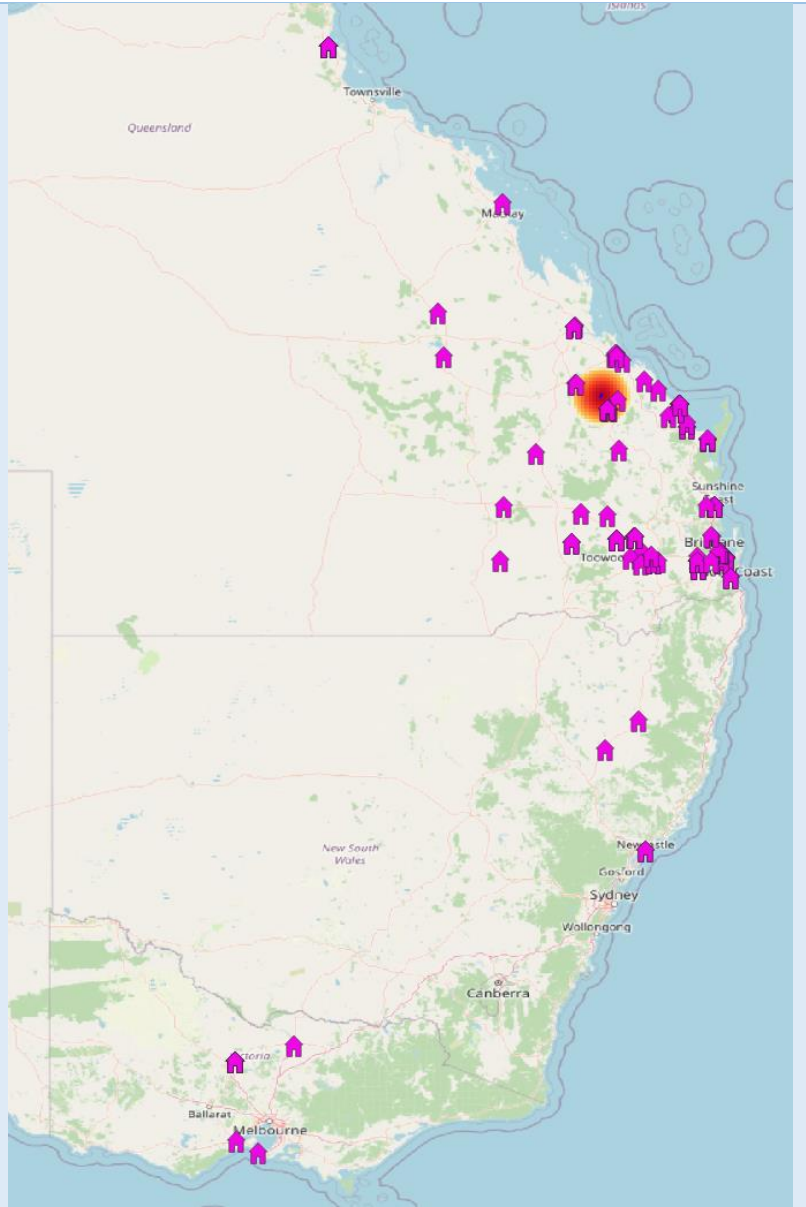
Where recapture fishers live by year 2021-2025





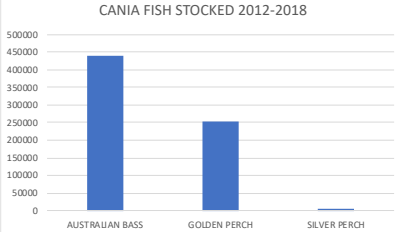
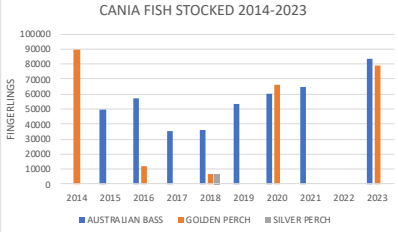
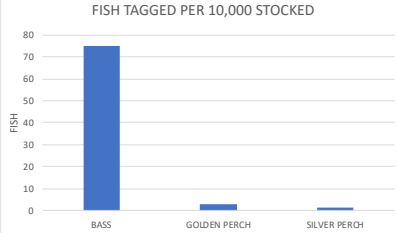


Where recapture fishers live (pink houses)
Local
Intrastate
2021-2025



**Where recapture fishers
live (pink houses)**
Local
Intrastate
Interstate
2021-2025

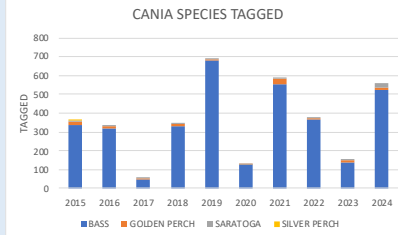


| STOCKED FISH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--------------|-----------------|--------------|--------------|-------|---|---------|---|-----------------|--------------------------------|--------------|---------|--------------|---------|--------------|---|------|---------|---|---|------|---------|---|---|------|---------|---|---|------|---------|---|---|------|---------|---|---|------|---------|---|---|------|---------|---|---|
| AUSTRALIAN BASS | GOLDEN PERCH | SILVER PERCH | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SOUTHERN SARATOGA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| STOCKING | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fingerlings stocked 2014-2023 | <table border="0"> <tr> <td>Bass</td> <td>440,331</td> </tr> <tr> <td>Golden Perch</td> <td>253,248</td> </tr> <tr> <td>Silver Perch</td> <td>6,818</td> </tr> </table> | Bass | 440,331 | Golden Perch | 253,248 | Silver Perch | 6,818 |  <p>CANIA FISH STOCKED 2012-2018</p> <table border="1"> <thead> <tr> <th>Species</th> <th>Fingerlings Stocked</th> </tr> </thead> <tbody> <tr> <td>Australian Bass</td> <td>440,331</td> </tr> <tr> <td>Golden Perch</td> <td>253,248</td> </tr> <tr> <td>Silver Perch</td> <td>6,818</td> </tr> </tbody> </table> | Species | Fingerlings Stocked | Australian Bass | 440,331 | Golden Perch | 253,248 | Silver Perch | 6,818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bass | 440,331 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Golden Perch | 253,248 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver Perch | 6,818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Species | Fingerlings Stocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Australian Bass | 440,331 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Golden Perch | 253,248 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver Perch | 6,818 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fingerlings stocked each year 2014-2023 | Able to be tagged from 2016-2025 |  <p>CANIA FISH STOCKED 2014-2023</p> <table border="1"> <thead> <tr> <th>Year</th> <th>Australian Bass</th> <th>Golden Perch</th> <th>Silver Perch</th> </tr> </thead> <tbody> <tr><td>2014</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2015</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2016</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2017</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2018</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2019</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2020</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2021</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2022</td><td>440,331</td><td>0</td><td>0</td></tr> <tr><td>2023</td><td>440,331</td><td>0</td><td>0</td></tr> </tbody> </table> | Year | Australian Bass | Golden Perch | Silver Perch | 2014 | 440,331 | 0 | 0 | 2015 | 440,331 | 0 | 0 | 2016 | 440,331 | 0 | 0 | 2017 | 440,331 | 0 | 0 | 2018 | 440,331 | 0 | 0 | 2019 | 440,331 | 0 | 0 | 2020 | 440,331 | 0 | 0 | 2021 | 440,331 | 0 | 0 | 2022 | 440,331 | 0 | 0 | 2023 | 440,331 | 0 | 0 |
| Year | Australian Bass | Golden Perch | Silver Perch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2014 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2015 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2016 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2017 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2018 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2019 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2020 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2021 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2022 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2023 | 440,331 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fish tagged 2016-2025 per 10,000 fish stocked 2012-2018 | <table border="0"> <tr> <td>Tagged/10,000 fingerlings</td> <td></td> </tr> <tr> <td>Bass</td> <td>76</td> </tr> <tr> <td>Golden Perch</td> <td>4</td> </tr> <tr> <td>Silver Perch</td> <td>1</td> </tr> </table> | Tagged/10,000 fingerlings | | Bass | 76 | Golden Perch | 4 | Silver Perch | 1 |  <p>FISH TAGGED PER 10,000 STOCKED</p> <table border="1"> <thead> <tr> <th>Species</th> <th>Fish Tagged per 10,000 Stocked</th> </tr> </thead> <tbody> <tr> <td>Bass</td> <td>76</td> </tr> <tr> <td>Golden Perch</td> <td>4</td> </tr> <tr> <td>Silver Perch</td> <td>1</td> </tr> </tbody> </table> | Species | Fish Tagged per 10,000 Stocked | Bass | 76 | Golden Perch | 4 | Silver Perch | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tagged/10,000 fingerlings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bass | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Golden Perch | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver Perch | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Species | Fish Tagged per 10,000 Stocked | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Bass | 76 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Golden Perch | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Silver Perch | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SPECIES TAGGED

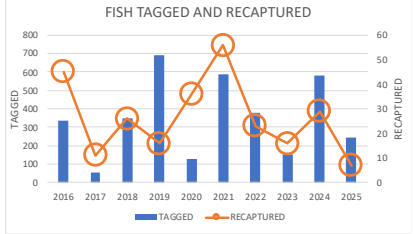
**Species tagged
2016-2025**

| | Tagged |
|--------------|--------|
| Bass | 3332 |
| Golden Perch | 93 |
| Saratoga | 74 |
| Silver Perch | 1 |



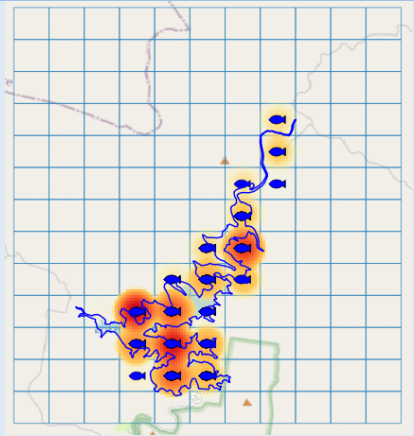
**Tagged
Recaptured
2016-2025**

| High Tagged | Low Tagged | Now Tagged |
|-------------|------------|------------|
| 2019 | 2017 | 2025 |
| 692 | 54 | 245 |
| Recaptured | Recaptured | Recaptured |
| 2021 | 2022 | 2025 |
| 56 | 4 | 20 |



**Tagging locations
Tagged (red-orange heat map)
Recaptured (blue fish)
2016-2025**

| Tagged | Recaptured |
|--------|------------|
| 3505 | 278 |



BASS



DATA RELIABILITY

Sample size (av fish/year)
Tagged (blue arrow)
Recaptures (orange arrow)
Confidence %
Error %
2021-2025

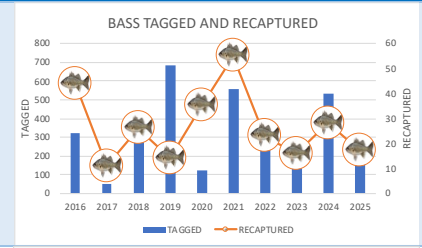
| Reliability level | LOW | MODERATE | MODERATE | HIGH |
|-------------------|-----|----------|----------|------|
| Samples | 10 | 41 | 68 | 271 |
| Confidence | 80% | 80% | 90% | 90% |
| Error | 20% | 10% | 10% | 5% |



TAGGED AND TAG RATE

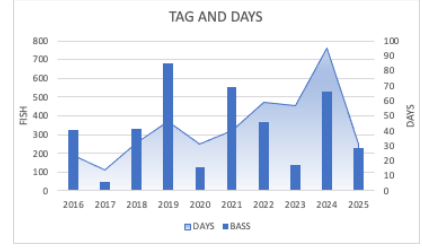
Bass tagged and recaptured
2016-2025

| | |
|----------------|------|
| Tagged | 3332 |
| Recaptured | 269 |
| Recapture rate | 8.1% |
| Tagged 2025 | 228 |



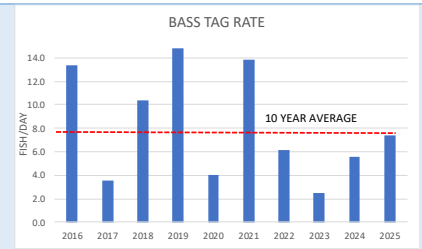
Catch and effort
Fish caught (all)
Days fished
Taggers
2016-2025

| | High | Low | Now |
|--------|------|------|------|
| Tagged | 2019 | 2017 | 2025 |
| Days | 682 | 50 | 228 |
| 2024 | 2017 | 2025 | |
| | 95 | 14 | 31 |



Catch rate
Fish/day
2016-2025

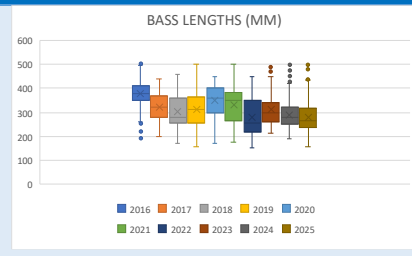
| | High | Low | Now |
|-----------------|------|------|------|
| Catch rate | 2019 | 2023 | 2025 |
| | 14.8 | 2.5 | 7.4 |
| 10 year average | | | 7.8 |



LENGTHS

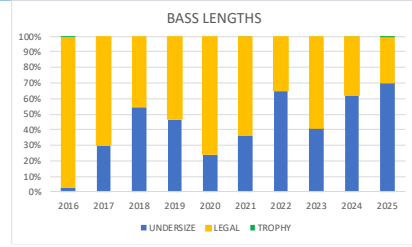
Average length (mm)
Bars show length range
Dots show outliers
2016-2025

| High | Low | Now |
|---------------------|------|------|
| Average length (mm) | | |
| 2016 | 2022 | 2025 |
| 378 | 280 | 281 |
| Largest | | |
| 2016 | 2017 | 2025 |
| 515 | 440 | 500 |



Fish lengths percentage
Undersize <300mm
Legal 300-499mm
Trophy 500+mm
2016-2025

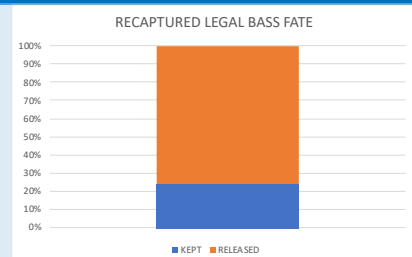
| High | Low | Now |
|--------------|------|------|
| Legal-trophy | | |
| 2016 | 2022 | 2025 |
| 96% | 35% | 29% |
| Trophy | | |
| 2016 | 2023 | 2025 |
| 3 | 0 | 1 |



FATE

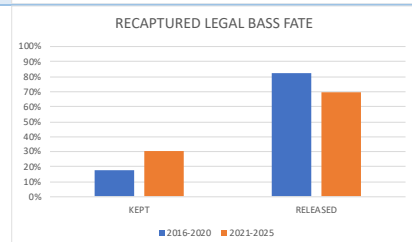
Legal Bass recaptures kept and released by recfishers (ex-taggers)
Legal length 300mm
2016-2025

| Recaptures | 219 |
|------------|-----------|
| Kept | 52 (24%) |
| Released | 167 (76%) |



Legal Bass recaptures kept and released by recfishers (ex-taggers)
2016-2020
2021-2025

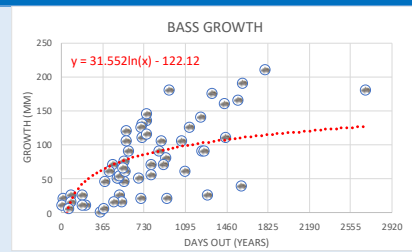
| | Bass kept |
|-----------|-----------|
| 2016-2020 | 21 (18%) |
| 2021-2025 | 31 (30%) |



GROWTH

Bass growth at the end of each year based on recaptures Tagged <300mm
2016-2025

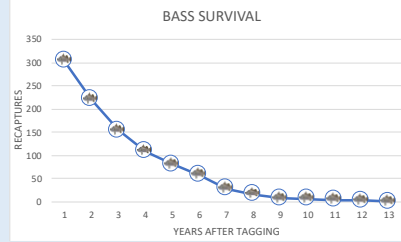
| Recaptures | 57 |
|--------------------|-----|
| Annual growth (mm) | |
| Year 1 | 64 |
| Year 2 | 86 |
| Year 3 | 99 |
| Year 4 | 108 |
| Year 5 | 115 |



SURVIVAL

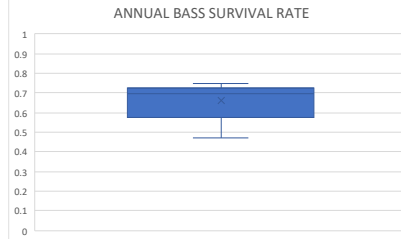
Bass survival based on recaptures by years out after tagging
All years

| Survival rate by years out | |
|----------------------------|------------|
| Year | Recaptures |
| 1 | 303 |
| 5 | 80 |
| 10 | 6 |
| 12 | 3 |



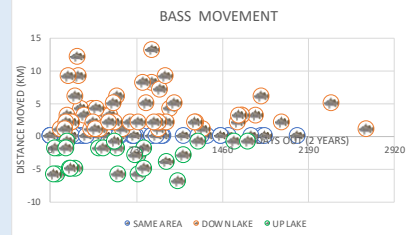
Survival rates each year after tagging
All years

| Survival rate each year | |
|-------------------------|------------|
| Average | 0.64 (64%) |
| Range | 0.50-0.75 |
| Longest out (years) | 11.8 |



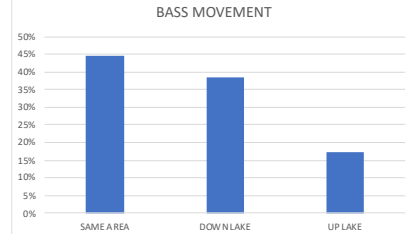
MOVEMENT

**Bass movements (km)
Recaptures
2016-2025**

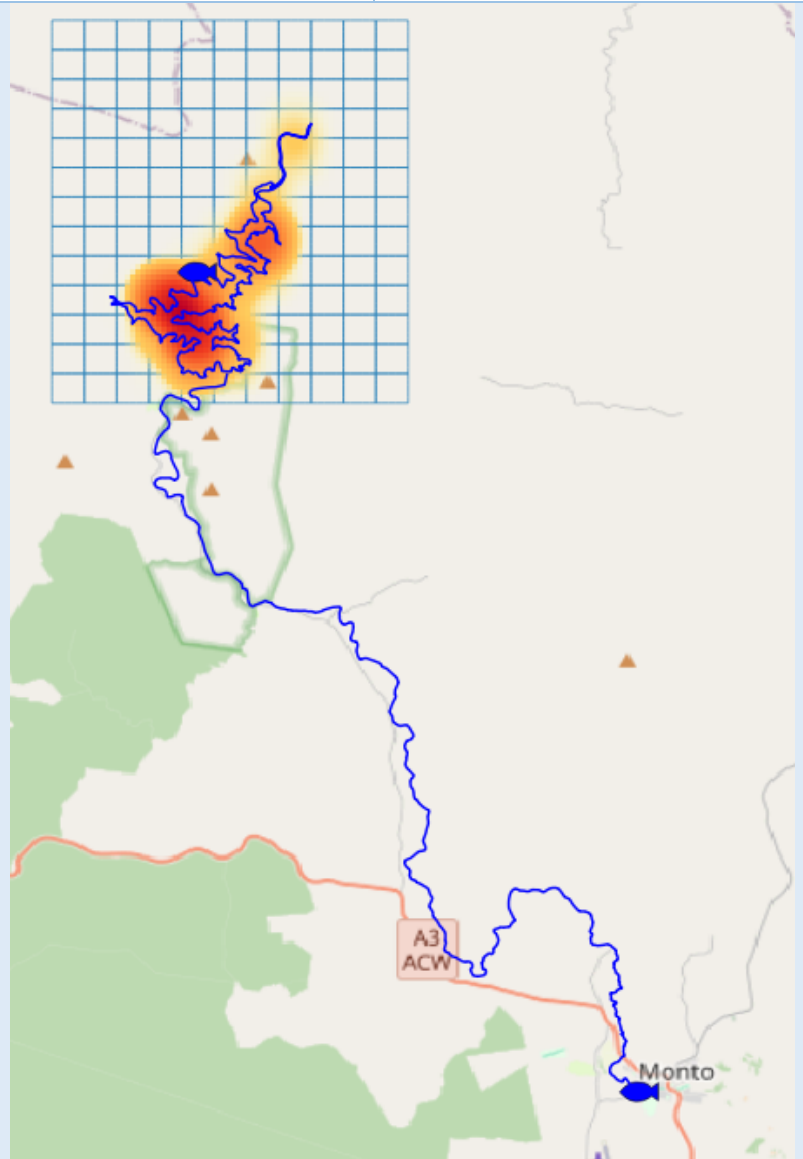


**Bass movement (km)
Recaptures
2016-2025**

| | |
|------------|----------|
| Recaptures | 146 |
| Same area | 65 (41%) |
| Up lake | 25 (17%) |
| Down lake | 56 (38%) |
| Below lake | 1 (1%) |



**Bass recaptured outside
lake after 2017 spill
Tagged (pink fish)
Recaptured (blue fish)
Below dam 1
3 Moon Creek near Monto**

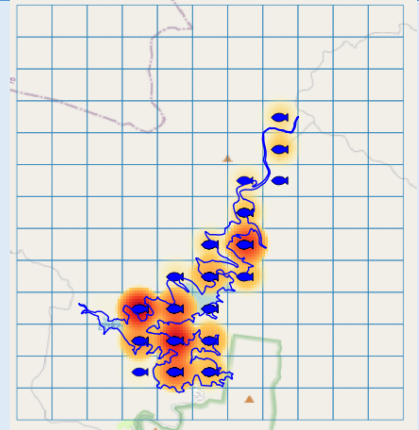


LOCATIONS

Location of tagged fish
heat map (red-orange) and
recaptures (blue dots)
2016-2025

Tagged
Recaptured

3309
258



GOLDEN PERCH



DATA RELIABILITY

Sample size (av fish/year)
Tagged (blue arrow)
Recaptures (orange arrow)
Confidence %
Error %
2021-2025

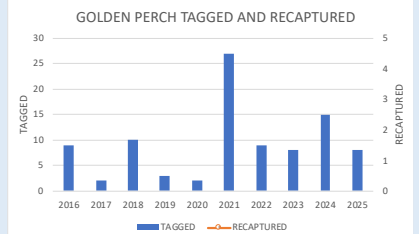
| Reliability level | LOW | MODERATE | MODERATE | HIGH |
|-------------------|-----|----------|----------|------|
| Samples | 10 | 41 | 68 | 271 |
| Confidence | 80% | 80% | 90% | 90% |
| Error | 20% | 10% | 10% | 5% |



TAGGED AND TAG RATE

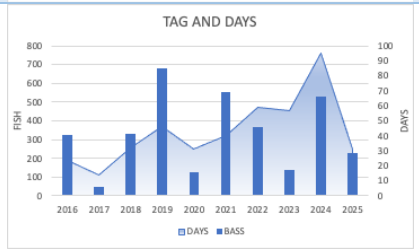
Golden Perch
Tagged
Recaptured
Recapture rate
Tagged 2025

| | |
|----------------|----|
| Tagged | 93 |
| Recaptured | 0 |
| Recapture rate | 0% |
| Tagged 2025 | 8 |



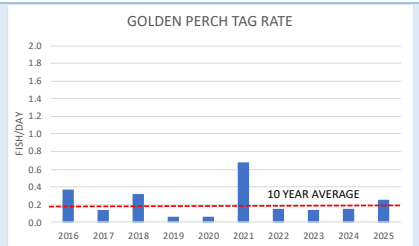
Tag and effort
number of fish
Days fished
Taggers
2016-2025

| | High | Low | Now |
|--------|------|------|-----|
| Tagged | | | |
| 2021 | 2020 | 2025 | |
| 27 | 2 | 8 | |
| Days | | | |
| 2022 | 2017 | 2025 | |
| 59 | 14 | 31 | |



Tag rate
Fish/day
2016-2025

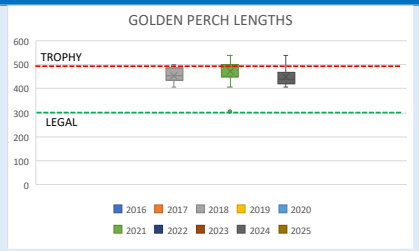
| | High | Low | Now |
|-----------------|------|------|-----|
| Catch rate | | | |
| 2021 | 2020 | 2025 | |
| 0.7 | 0.1 | 0.2 | |
| 10 year average | | | 0.2 |



LENGTHS

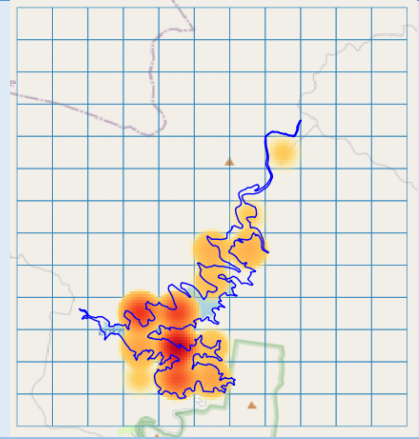
Average length (mm)
Bars show length range
Dots show outliers
2016-2025

| | High | Low | Now |
|----------------|------|------|-----|
| Average length | | | |
| 2021 | 2024 | 2025 | |
| 474 | 450 | NA | |
| Largest | | | |
| 2024 | 2018 | 2025 | |
| 540 | 500 | NA | |



LOCATIONS

| | | |
|--|------------|----|
| Locations | Tagged | 93 |
| Tagged fish (red-orange heat map) | Recaptured | 0 |
| Recaptures 2016-2025 | | |



SARATOGA



DATA RELIABILITY

Sample size (av fish/year)
Tagged (blue arrow)
Recaptures (orange arrow)
Confidence %
Error %
2021-2025

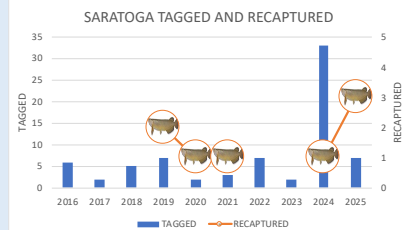
| Reliability level | LOW | MODERATE | MODERATE | HIGH |
|-------------------|-----|----------|----------|------|
| Samples | 10 | 41 | 68 | 271 |
| Confidence | 80% | 80% | 90% | 90% |
| Error | 20% | 10% | 10% | 5% |



TAGGED AND TAG RATE

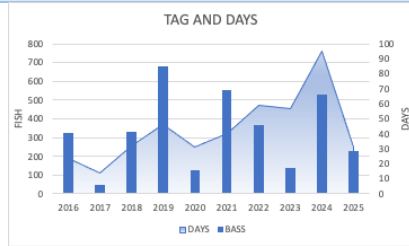
Saratoga tagged and recaptured
2016-2025

| | |
|----------------|-------|
| Tagged | 74 |
| Recaptured | 8 |
| Recapture rate | 10.8% |
| Tagged 2025 | 7 |



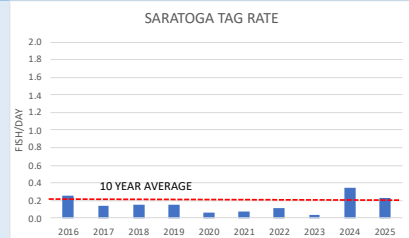
Tag and effort number of fish fisher days
Taggers
2016-2025

| | High | Low | Now |
|---------|------|------|------|
| Tagged | 2024 | 2023 | 2025 |
| Taggers | 33 | 2 | 7 |
| Days | 2022 | 2017 | 2025 |
| | 59 | 14 | 31 |



Tag rate Fish/day
2016-2025

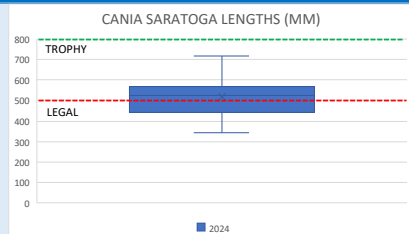
| | High | Low | Now |
|-----------------|------|------|------|
| Catch rate | 2024 | 2023 | 2025 |
| | 0.3 | 0.0 | 0.2 |
| 10 year average | | | 0.2 |



LENGTH

Average length (mm)
Only year with sufficient fish
2024

| | |
|---------------------|-----|
| Average length (mm) | 520 |
| Largest | 720 |

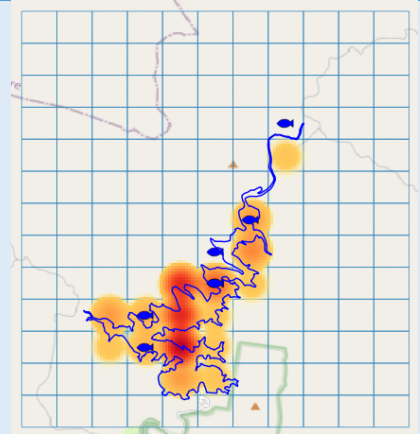


LOCATIONS

Locations
Tagged Saratoga (red-orange heat map)
Recaptures (blue fish)
2016-2025

Tagged
Recaptured

74
8



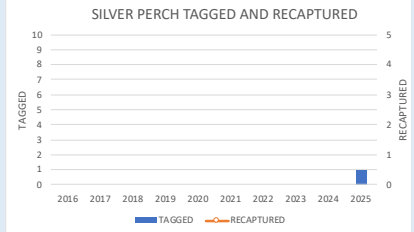
SILVER PERCH



TAGGED

Silver Perch
Tagged
Recaptured
2016-2025

Tagged 1
 Recaptured 0
 Recapture rate 0%
 Tagged 2025 1



Data sources

Data used in the Lake Cania Crystal Bowl are:

- Tag records and recapture records for the impoundment at <http://crystalbowl.infofishaustralia.com.au/>.
- Dam level data from Sunwater <https://www.sunwater.com.au/water-data/historical-dam-capacity/>.
- Stocked fish records from Fisheries Queensland and from <https://www.data.qld.gov.au/dataset/queensland-freshwater-fish-stocking-records/>.
- Rainfall records from Station 03922 Cania Gorge Park and Station 039129 Malakoff and temperature records from 039104 Monto Township 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 per year 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 a reliable catch rate.
- Undersized Bass and Golden Perch are <300mm, legal fish are ≥ 300 and <500mm and trophy fish are ≥ 500 mm.
- Undersized Saratoga are <500, legal are ≥ 500 and <800 and trophy fish are >800.
- Growth calculated using logarithmic curve from recaptures where fish were less than 300mm when tagged, out for 90 days or more and had positive growth.
- Locations based on Infofish grid map LCG 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 number of recaptures each year after tagging.
- Distance moved was the shortest distance by water between the tag and recapture location measured in Google Earth.
- Travel proxy distance is the distance between where the fisher lives (address, suburb, town or postcode) and the recapture location. Local <80km, intrastate Qld elsewhere, interstate other than Qld.