

State of California
The Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE

**Lake Davis Pike Eradication
2016-2017 Post-Project Monitoring**



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ACRONYMS

North Lake Davis

MS Mosquito Slough (1)*
MSS South Mosquito (1)
MSSS South of South Mosquito (1)
FC Freeman Cove area (2)

West Lake Davis

CC Cow Cove area (2)
HH Honey Hole Cove area (2)
FG Fugarui Cove area (2)
WP Willow Point area (3)
JC Jenkins Cove area (3)
NC5 North Camp Five area (3)
SC5 South Camp Five area (4)
DB Dan Blough Cove area (4)
EP Eagle Point (4)
OC Osprey Cove area (4)

East Lake Davis

FV Fairview area (1)
BC Bluff Cove area (1)
LT Lightning Tree Cove area (1)
FTP Five Tree Point area (6)
JP Juniper Point area (6)
MC Mallard Cove area (6)
CB Coot Bay area (5)
HC Honker Cove area (5)
GH Grasshopper Cove area (5)

South Lake Davis

DM Dam area (5)
CF Catfish Cove area (5)

Islands

NI North Island
SI South Island

Lake Davis Tributaries

GCKL Lower Big Grizzly Creek; below dam
GCKU Upper Big Grizzly Creek; above dam
FCK Freeman Creek
CCK Cow Creek
OCK Oldhouse Creek
DBCK Dan Blough Creek

Methods of Capture

EB Boat electrofisher
EP Backpack electrofisher

Fish Species

BB Brown bullhead
Ameiurus nebulosus
GSH Golden shiner
Notemigonus crysoleucas
LMB Largemouth bass
Micropterus salmoides
PSD Pumpkinseed
Lepomis gibbosus
RT Rainbow trout
Oncorhynchus mykiss

* Numbers in parentheses denote study areas used in previous Lake Davis work, and are provided here to enable cross-reference.

I. INTRODUCTION

Northern pike, *Esox lucius*, are a non-native, invasive, predatory fish species illegally introduced to California. They have the potential to seriously impact California's aquatic ecosystems. Northern pike were first discovered in California at Frenchman Reservoir, Plumas County, in 1989. Due to the potential harmful impacts to statewide water management, aquatic ecosystems, and recreational fisheries both in Frenchman Reservoir and throughout the waters of the state, California Department of Fish and Game (DFG) determined it was necessary to eradicate northern pike from Frenchman Reservoir. After the required legal and environmental review, in June 1991 DFG successfully eradicated northern pike from Frenchman Reservoir using a commercial formulation of the piscicide rotenone (DFG 2007).

Northern pike were discovered in Lake Davis, Plumas County, in 1994. Lake Davis is approximately 26 kilometers (km) west of Frenchman Reservoir. Similar to Frenchman Reservoir, Lake Davis is a dammed reservoir located 8 km above the Middle Fork Feather River. Grizzly Valley Dam precludes fish passage from the Middle Fork Feather River into Lake Davis therefore northern pike were presumably introduced illegally. In October 1997, after completion of the California Environmental Quality Act (CEQA) process, public outreach and discussion, and several court challenges, DFG applied the commercial piscicides Nusyn-noxfish® and powdered rotenone to Lake Davis and its tributaries to eliminate northern pike.

In May 1999, a northern pike was caught in Lake Davis by an angler. Subsequent sampling confirmed the presence of northern pike in Lake Davis (DFG 2007). The origin of these northern pike is unknown. Genetic studies indicate that northern pike collected in 1999 were genetically indistinguishable from fish collected prior to the 1997 treatment (Aguilar et. al. 2005). It is unknown whether these fish 1) survived the 1997 treatment, 2) were removed from Lake Davis prior to the treatment and then later reintroduced, or 3) were a second introduction of pike from the original, unidentified source.

In September 2007, again after considerable public involvement and the completion of the CEQA process, DFG conducted a second chemical treatment of all waters within the Lake Davis watershed upstream of Grizzly Valley Dam. This included the lake, its tributary streams, and associated standing water. Immediately following the treatment in 2007 DFG conducted extensive post-treatment monitoring of fish populations in Lake Davis and its tributaries to determine if the chemical treatment had successfully removed northern pike from the watershed. Monitoring of Lake Davis and its tributaries, the Middle Fork Feather River, and other waters of Plumas County occurred in 2008. In 2009, 2011, 2012, and 2017 monitoring included Lake Davis and its tributaries. In 2010, 2013, 2015, and 2016 monitoring was limited to the lake only.

This report summarizes the results of the 2016 and 2017 monitoring in Lake Davis and its tributaries. The results of the 2007 post-project monitoring of Lake Davis and its tributaries (Stephens and Paulsen 2007; Roberts 2008), 2008 monitoring of Lake Davis, its tributaries and the Middle Fork Feather River (LaCoss and Rossi 2011a), 2008 monitoring of other waters of Plumas County (LaCoss and Rossi 2011b), 2009 monitoring of Lake Davis and its tributaries (LaCoss and Rossi 2011c), Lake Davis Pike Eradication 2010-2012 Post-Project Monitoring (Rossi 2013), and Lake Davis Pike Eradication 2013-2015 Post-Project Monitoring (Mouser 2015) are summarized in previous reports.

II. METHODS

Monitoring was conducted by sampling the lake for fish using methods appropriate for the respective habitat types, and that have been demonstrated to be effective at capturing northern pike (DFG 2000). Sampling methods included boat electrofishing and backpack electrofishing. A minimum of 30 fish captured during each sampling event of each species were randomly subsampled and measured (total length (TL); millimeters (mm)) and weighed (grams (g)). Sampling events were defined as one monitoring period per area electrofished. If more than thirty fish per sampling event were captured they were tallied by species. Capture rates for each method and species were calculated as catch per unit effort (CPUE), by dividing the number of fish captured by the hours spent sampling.

Boat Electrofisher

Smith-Root electrofishing boats (SR-18) were used during daylight hours between April and August to sample the shallow water and weedy areas, the preferred habitat of northern pike, around the perimeter of Lake Davis (Fig. 1). Based on prior experience, electrofishing during daylight produced comparable capture rates to night sampling (DFG 2000). Boat output was generally set between 30%-60% DC Low at 120 volts producing between 6 to 8 amperes output.

Backpack Electrofisher

Smith-Root backpack electrofishers (LR-20) were used during daylight hours in July to sample the four primary tributaries of Lake Davis: upper Big Grizzly Creek, Freeman Creek, Cow Creek, and Oldhouse Creek (Fig. 2). The electrofishing units were set to approximately 500 volts. Each tributary was sampled with a single pass from the mouth of each creek upstream to the road that circles the lake (Forest Service road 24N10), with the exception of Oldhouse Creek, which was sampled from the mouth (where it feeds into upper Big Grizzly Creek) upstream to Forest Service road 24N75Y.

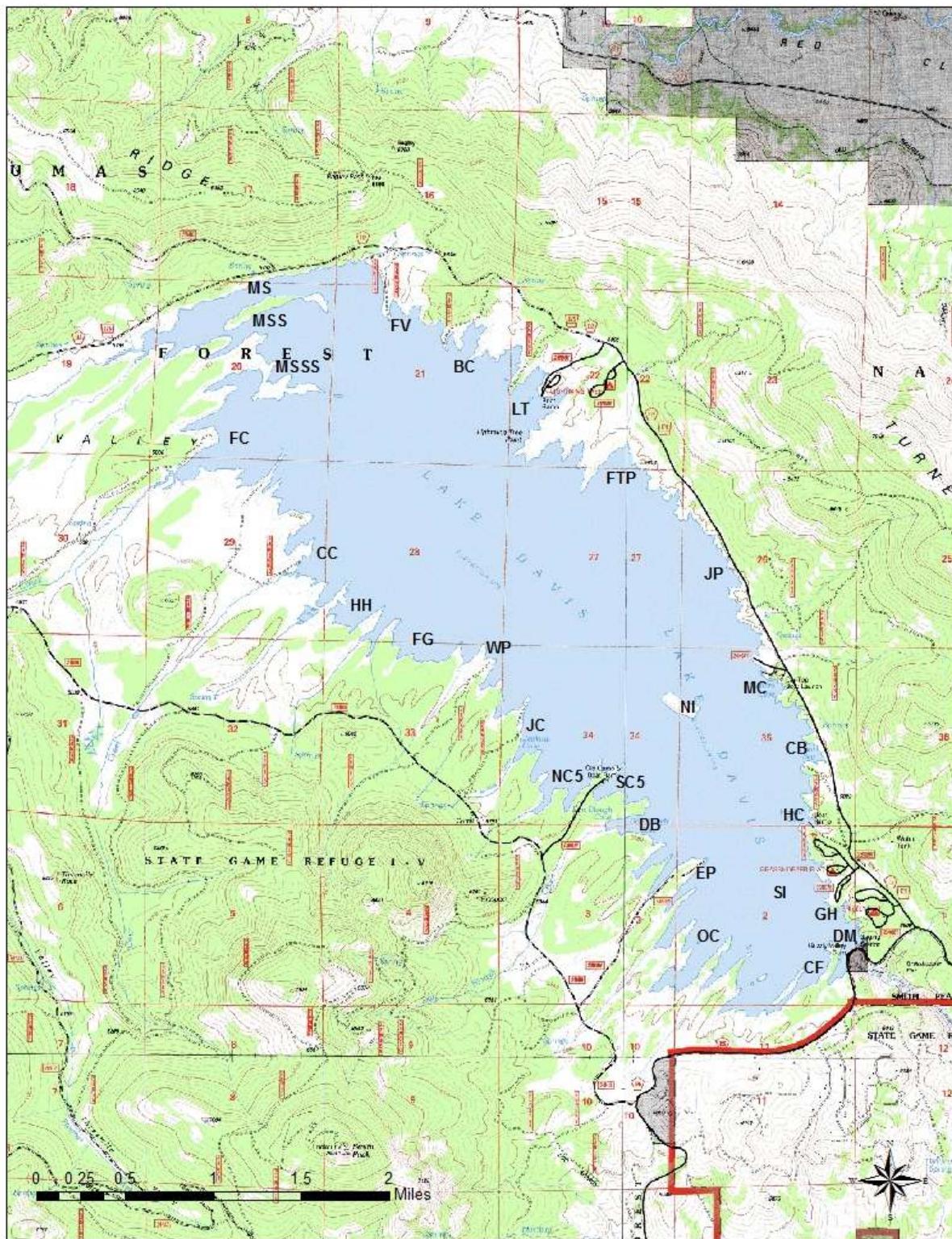


Figure 1. Lake Davis sampling sites. Refer to list of acronyms for site names.

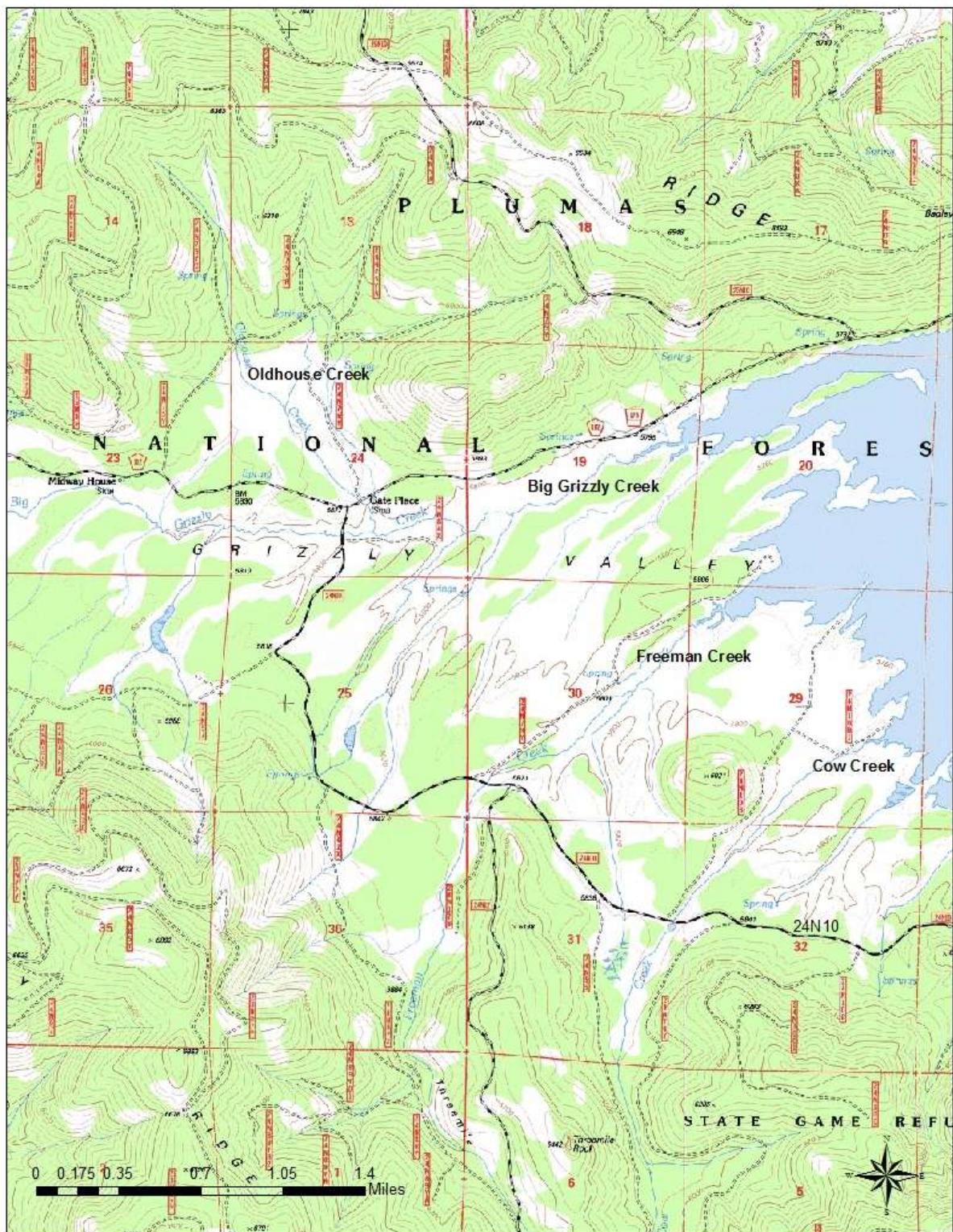


Figure 2. Lake Davis tributaries sampled with backpack electrofishing.

III. RESULTS

Lake Davis 2016

Lake Davis was sampled by one boat electrofisher with a total of two sampling events (Appendix A). A total of 1.91 hours of electrofishing occurred during these events, resulting in the capture of a total of 639 fish, of which 179 were measured. The average surface temperature recorded on August 31, 2016 was 66.7°F. Five species of fish were captured: brown bullhead (*Ameiurus nebulosus*; 52-262 mm; mean TL = 117 mm), golden shiner (*Notemigonus crysoleucas*; 44-135 mm; mean TL = 78 mm), largemouth bass (*Micropterus salmoides*; 52-158 mm; mean TL = 88 mm), pumpkinseed (*Lepomis gibbosus*; 28-145 mm; mean TL = 62 mm)(Fig. 3), and rainbow trout (*Oncorhynchus mykiss*; 380-545 mm; mean TL = 495 mm)(Fig.4)(Table 1). Individual length and weight data for fish measured during electrofishing events is provided in Appendix B, and in a length-frequency histogram in Figure 5. Species composition is displayed in Figure 6.



Figure 3. Lake Davis pumpkinseed (04/15/2016).



Figure 4. Lake Davis rainbow trout (04/15/2016).

Table 1. 2016 summary of fish captured in Lake Davis using boat electrofishing.

| Species | Number Captured | TL Range | TL Mean | Percent of Capture | CPUE |
|-----------------|-----------------|----------|---------|--------------------|-------|
| Brown bullhead | 16 | 52-262 | 117 | 2.49% | 8.4 |
| Golden shiner | 180 | 44-135 | 78 | 28.04% | 94.2 |
| Largemouth bass | 159 | 52-158 | 88 | 24.77% | 83.2 |
| Pumpkinseed | 276 | 28-145 | 62 | 42.99% | 144.5 |
| Rainbow trout | 11 | 380-545 | 495 | 1.71% | 5.8 |
| Total | 642 | - | - | - | 336.1 |

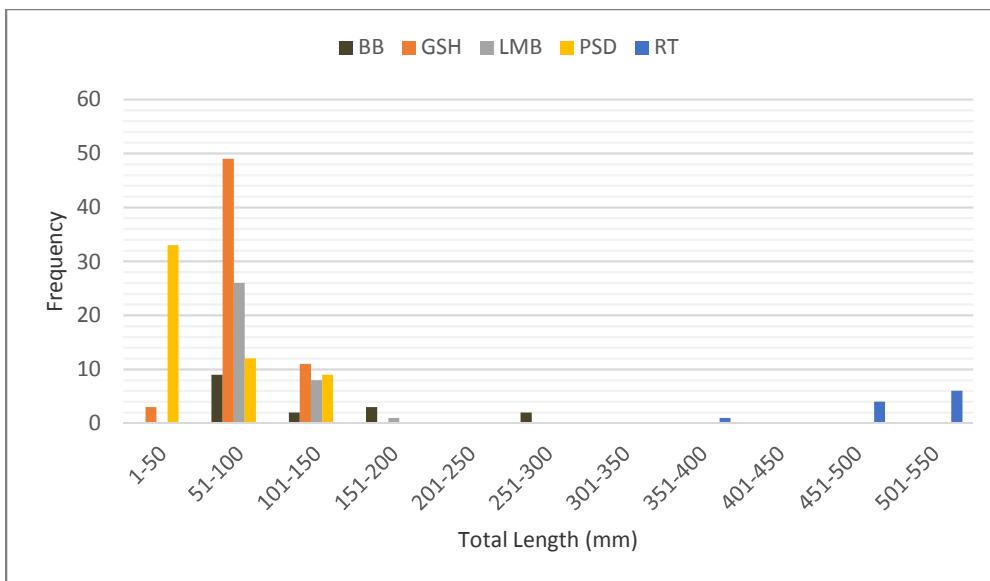


Figure 5. 2016 length-frequency histogram of Lake Davis fish captured using boat electrofishing.

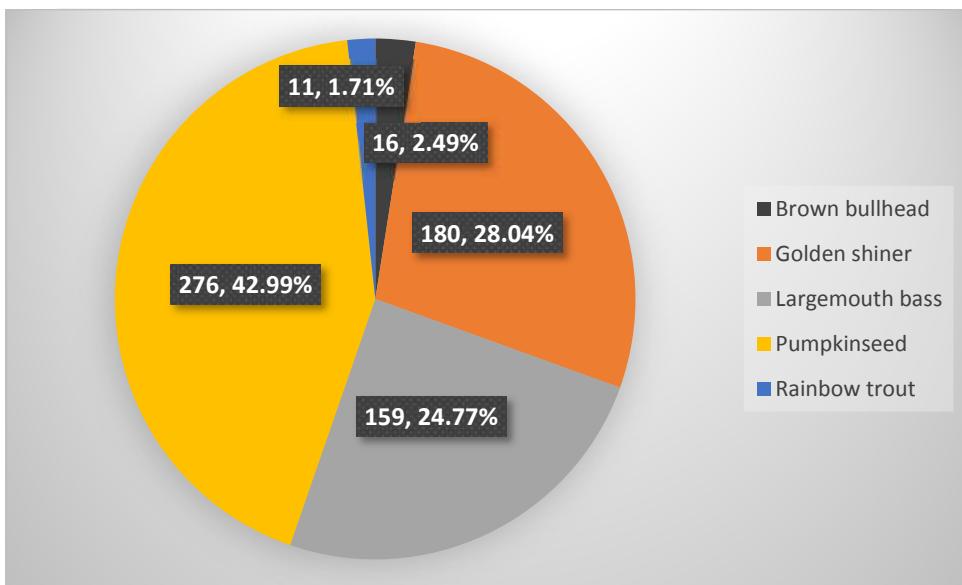


Figure 6. 2016 Lake Davis species composition.

Lake Davis 2017

Lake Davis was sampled by two separate crews using two separate boat electrofishers resulting in a total of 15 sampling events (Appendix A). A total of 13.94 hours of electrofishing occurred during these events, resulting in the capture of 3067 fish, of which 918 were measured. The average surface temperature recorded on July 24, 2017 was 74.6°F. Five species of fish were captured: brown bullhead (36-358 mm; mean TL = 198 mm)(Fig. 7), golden shiner (19-184 mm; mean TL = 96 mm)(Fig. 8), largemouth bass (25-418 mm; mean TL = 178 mm)(Fig. 9), pumpkinseed (11-180 mm; mean TL = 93 mm), and rainbow trout (543 mm; mean TL = 543 mm)(Table 2). Individual length and weight data for fish measured during electrofishing events

is provided in Appendix B, and in a length frequency histogram in Figure 10. Species composition is displayed in Figure 11.



Figure 7. Lake Davis 2017 post-project monitoring. Brown bullhead featured on the far left, the other three fish displayed are largemouth bass (07/28/2017).



Figure 8. Lake Davis golden shiner (07/26/2017).



Figure 9. Lake Davis largemouth bass (07/26/2017).

Table 2. 2017 summary of fish captured in Lake Davis using boat electrofishing.

| Species | Number Captured | TL Range | TL Mean | Percent of Capture | CPUE |
|-----------------|-----------------|----------|---------|--------------------|-------|
| Brown bullhead | 133 | 36-358 | 198 | 4.34% | 9.5 |
| Golden shiner | 755 | 19-184 | 96 | 24.62% | 54.2 |
| Largemouth bass | 194 | 25-418 | 178 | 6.33% | 13.9 |
| Pumpkinseed | 1984 | 11-180 | 93 | 64.69% | 142.3 |
| Rainbow trout | 1 | 543 | 543 | 0.03% | 0.1 |
| Total | 3067 | - | - | - | 220 |

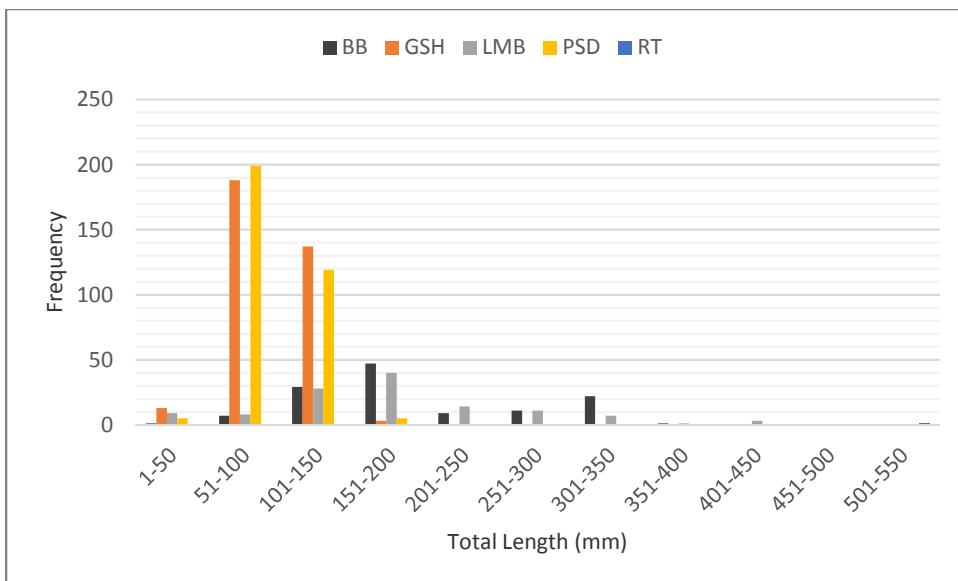


Figure 10. 2017 length-frequency histogram of Lake Davis fish captured using boat electrofishing.

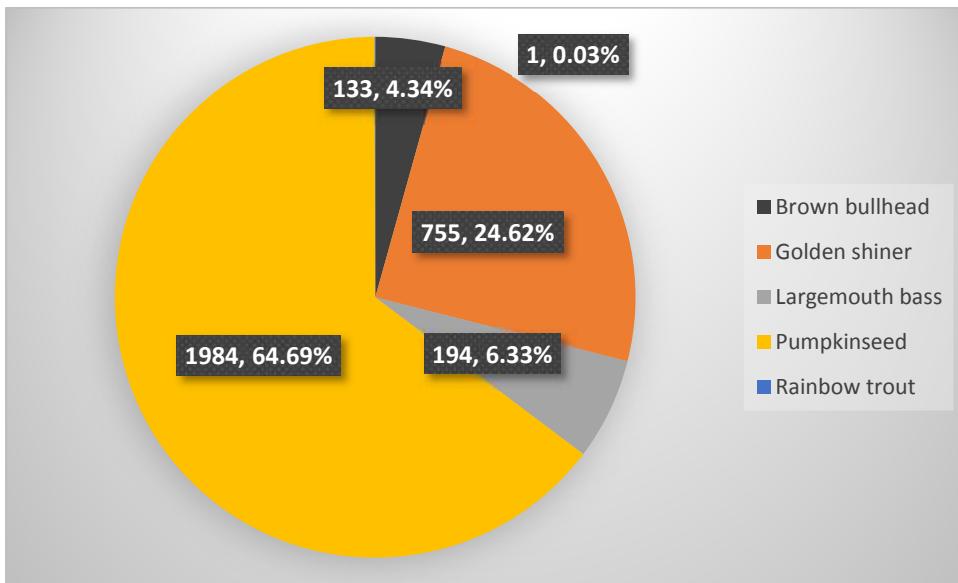


Figure 11. 2017 Lake Davis species composition.

Lake Davis Tributaries 2017

Lake Davis tributaries were sampled by two separate crews using one backpack electrofisher per tributary (Fig. 12) with a total of 7 sampling events (Appendix A). A total of 20.09 hours of backpack electrofishing occurred during these events (all backpack units and all creeks combined), resulting in the capture of 1,709 fish, of which 317 were measured. The CPUE for all species and tributaries combined was 85 fish per hour. The individual creek results were: 354 fish from upper Big Grizzly Creek, 801 fish from Freeman Creek, 115 fish from Cow Creek, and 439 fish from Oldhouse Creek. Individual length and weight data for fish measured during electrofishing events is provided in Appendix B.



Figure 12. Backpack electrofishing Big Grizzly Creek.

Big Grizzly Creek was sampled by backpack electrofisher for a total of 2 sampling events resulting in a total of 10.36 hours of survey time. Four species were captured: 21 brown bullhead (75-234 mm; mean TL = 112 mm), 296 golden shiner (45-113 mm; mean TL = 78 mm), 29 pumpkinseed (61-96 mm; mean TL = 73 mm), and eight rainbow trout (53-502 mm; mean TL = 117 mm). The CPUE for all species in Big Grizzly Creek was 34.2 fish per hour (Table 3). Length data for fish measured during electrofishing events is displayed in the length-frequency histogram in Figure 13.

Table 3. Big Grizzly Creek summary of fish captured using backpack electrofishing.

| Species | Number Captured | TL Range | TL Mean | Percent of Capture | CPUE |
|----------------|-----------------|----------|---------|--------------------|------|
| Brown bullhead | 21 | 75-234 | 112 | 5.9% | 2.0 |
| Golden shiner | 296 | 45-113 | 78 | 86.6% | 28.6 |
| Pumpkinseed | 29 | 61-96 | 73 | 8.2% | 2.8 |
| Rainbow trout | 8 | 53-502 | 117 | 2.3% | 0.8 |
| Total | 354 | - | - | - | 34.2 |

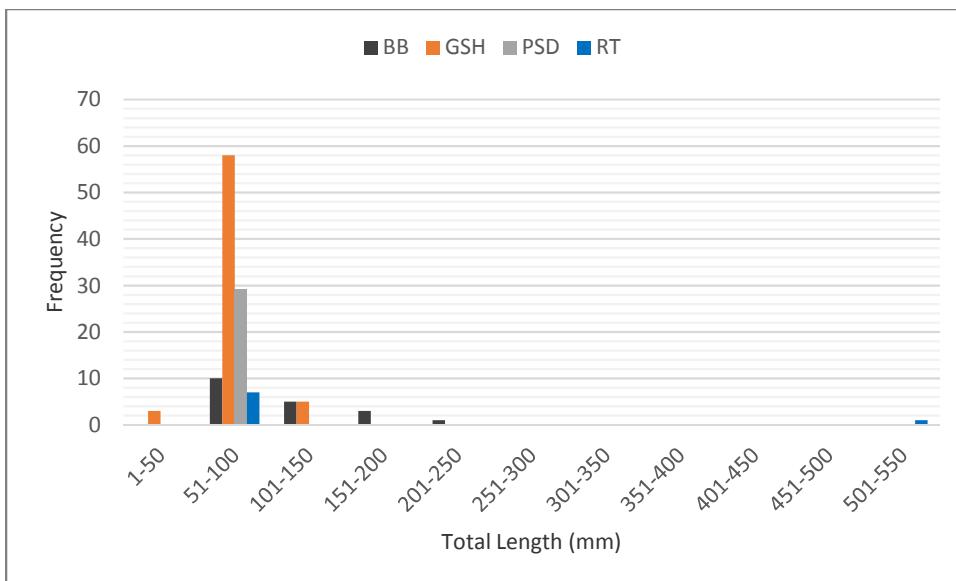


Figure 13. Big Grizzly Creek length-frequency histogram of fish captured and measured during backpack electrofishing.

Freeman Creek was sampled by backpack electrofisher for a total of 2 sampling events resulting in a total of 2.75 hours of shock time. Two species were captured: 13 golden shiner (55-83 mm; mean TL = 71 mm) and 788 rainbow trout (41-232 mm; mean TL = 108 mm). The CPUE for all species in Freeman Creek was 291.3 fish per hour (Table 4). Length data for fish measured during electrofishing events is displayed in the length-frequency histogram in Figure 14.

Table 4. Freeman Creek summary of fish captured using backpack electrofishing.

| Species | Number Captured | TL Range | TL Mean | Percent of Capture | CPUE |
|---------------|-----------------|----------|---------|--------------------|-------|
| Golden shiner | 13 | 55-83 | 71 | 1.6% | 4.7 |
| Rainbow trout | 788 | 41-232 | 108 | 98.4% | 286.5 |
| Total | 801 | - | - | - | 291.3 |

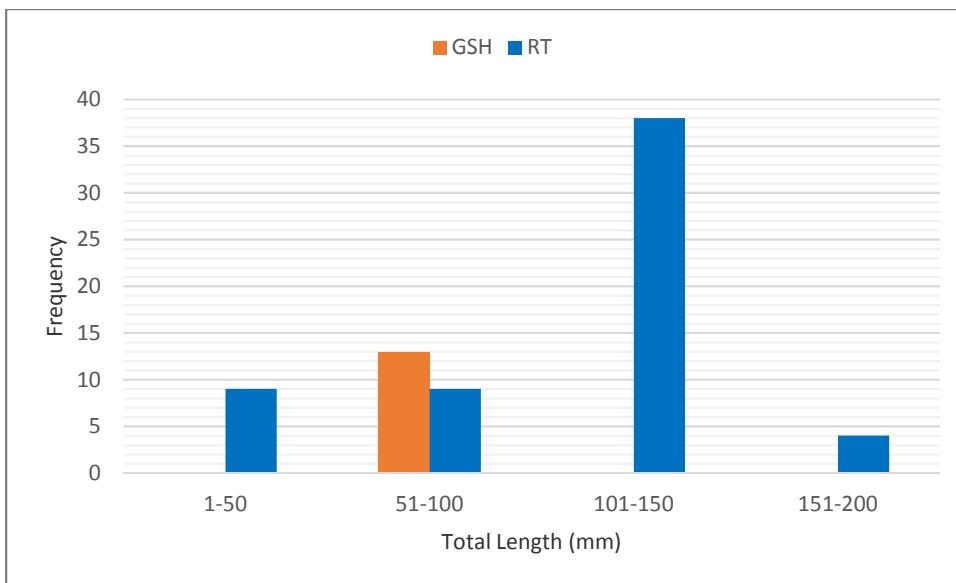


Figure 14. Freeman Creek length-frequency histogram displaying fish captured and measured during backpack electrofishing.

Cow Creek was sampled by backpack electrofisher for a total of 1 sampling event resulting in a total of 0.94 hours of shock time. One species was captured: 115 rainbow trout (42-260 mm; mean TL = 69 mm). The CPUE for all species in Cow Creek was 122.3 fish per hour (Table 5). Length data for fish measured during electrofishing events is displayed in the length-frequency histogram in Figure 15.

Table 5. Cow Creek summary of fish captured using backpack electrofishing.

| Species | Number Captured | TL Range | TL Mean | Percent of Capture | CPUE |
|---------------|-----------------|----------|---------|--------------------|-------|
| Rainbow trout | 115 | 42-260 | 69 | 100.0% | 122.3 |
| Total | 115 | - | - | - | 122.3 |

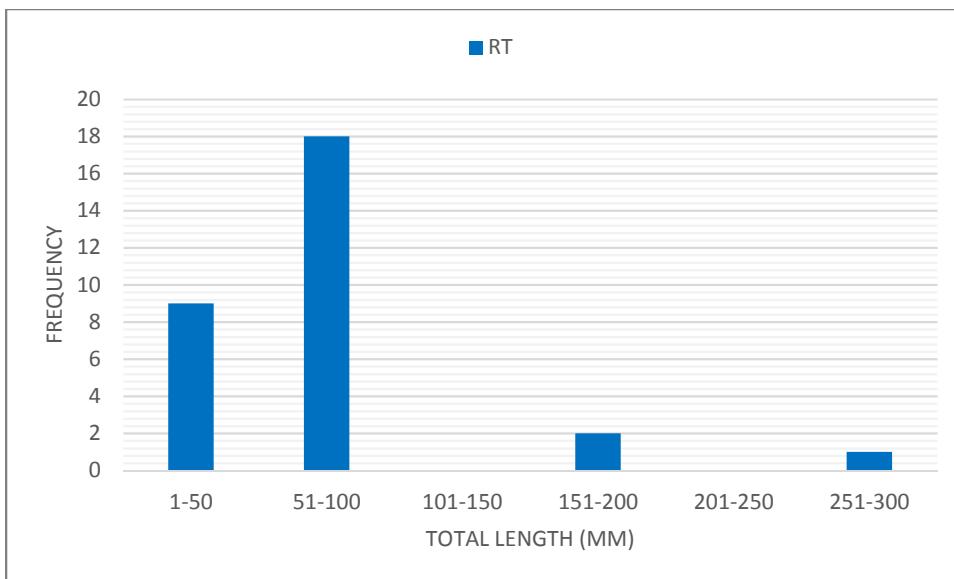


Figure 15. Cow Creek length-frequency histogram of fish captured and measured using backpack electrofishing.

Oldhouse Creek was sampled by backpack electrofisher for a total of 2 sampling events resulting in a total of 6.04 hours of survey time. Two species were captured: 31 golden shiner (63-110 mm; mean TL = 84 mm) and 408 rainbow trout (48-445 mm; mean TL = 124 mm)(Fig. 16). The CPUE for all species in Oldhouse Creek was 72.7 fish per hour (Table 6). Length data for fish measured during electrofishing events is displayed in the length-frequency histogram in Figure 17.

Table 6. Oldhouse Creek summary of fish captured using backpack electrofishing.

| Species | Number Captured | TL Range | TL Mean | Percent of Capture | CPUE |
|---------------|-----------------|----------|---------|--------------------|------|
| Golden shiner | 31 | 63-110 | 84 | 7.1% | 5.1 |
| Rainbow trout | 408 | 48-445 | 124 | 92.9% | 67.5 |
| Total | 439 | | | | 72.7 |



Figure 16. Oldhouse Creek rainbow trout (07/27/2017).

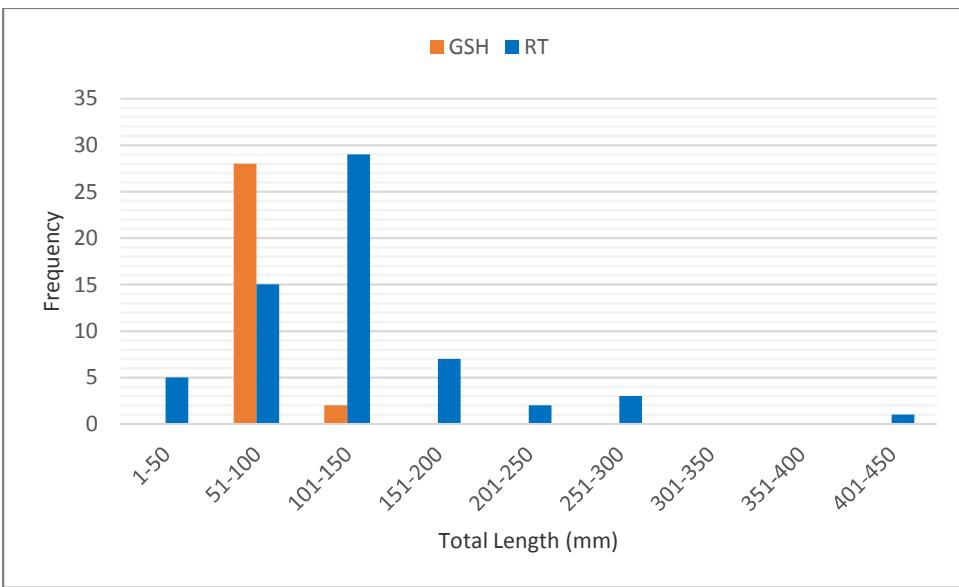


Figure 17. Oldhouse Creek length-frequency histogram of fish captured and measured during backpack electrofishing.

IV. DISCUSSION

Lake Davis boat electrofishing indicated a spike in the pumpkinseed populations in 2010, followed by a decline in 2011 and an ascent beginning in 2015 (Fig. 18). The population spike may have been related to the lack of predators or competition in 2010 and 2016. Other contributing factors may have been related to the drought conditions experienced in 2015 and 2016 or they could be natural population swings in which the population reaches and exceeds carrying capacity, followed by a crash. The brown bullhead population has spiked and fallen three times over the last decade (Fig. 19). Nearby Frenchman Reservoir also experienced a significant decrease in the brown bullhead population during the 2016 sampling (Mouser 2017). Following 2010, both the golden shiner and the largemouth bass populations appeared to increase (Figures 20 and 21). 2012 indicated an increase in pumpkinseed, brown bullhead, golden shiner and largemouth bass. 2013 showed a decline in pumpkinseed, brown bullhead, and golden shiner. However, this may have been the result of poor sampling conditions or an inadequate sample size in 2013, rather than an actual population decline. 2015 indicated healthy quantities of all four species previously mentioned. 2016 indicated healthy quantities of three of the previously mentioned species. Brown bullheads experienced a significant decline in 2016. In 2017, pumpkinseed and brown bullhead populations stayed consistent with the 2016 results, while the golden shiner and largemouth bass populations appeared to decline. The extreme water year experienced during the 2016/2017 winter may have also affected the capture results. These comparisons were made by using the annual CPUE (fish per hour of electrofishing) per species (Fig. 18 through 21). CPUE results may be inaccurate in 2017 due to one of the boats being unable to record actual seconds of foot pedal shock time. Times for this boat were recorded as survey start and end in minutes, which were later converted into hours of survey time.

The average length of catchable sized rainbow trout captured by boat electrofishing in the lake has also shown a gradual increase over the past eight years (Fig. 22). Only rainbow trout over 254mm (fish in a catchable size class) were used for comparison for consistency across the years. The average length increase may be the result of a decrease in the number of recently stocked catchable sized trout adding to the average (Fig. 23) and an increased forage base. The annual average Fulton Condition Factor (K factor) was 1.56 (Fig. 24). Since the K factor formula specifies fork length, both fork length and total length were recorded for rainbow trout captured in the lake. Rainbow trout length and k factor may be biased for 2017 because of the small sample size of only one fish captured on the lake.

The tributaries were dominated by juvenile rainbow trout, with the exception of upper Big Grizzly Creek. Upper Big Grizzly Creek had the lowest CPUE and the highest number of non-salmonids (Tables 3 through 6). This may have been a result of the high presence of beaver ponding, thus providing more pool habitat and rendering much of the creek inaccessible to sampling with backpack electrofishers. CPUE results may be inaccurate for Big Grizzly Creek and Oldhouse Creek in 2017 due to the backpack electrofisher unit used in these creeks being unable to record actual seconds of shock time. Times for this unit were recorded as survey start and end in minutes, which were later converted into hours of survey time.

Given the nature of sampling, definitively proving the absence of anything, including northern pike, is impossible. Sampling, by definition, attempts to characterize an entire population based on only a fraction of that population. However, confidence in samples accurately representing a population, and in this case the absence of northern pike, can be increased by collecting large samples, optimizing sampling efficiency, and non-randomly sampling habitat where northern

pike are most likely to be found. With 15.85 hours of lake electrofishing and 20.09 of tributary electrofishing, 2016 and 2017 post-project sampling of Lake Davis did not result in the observation or capture of any northern pike.

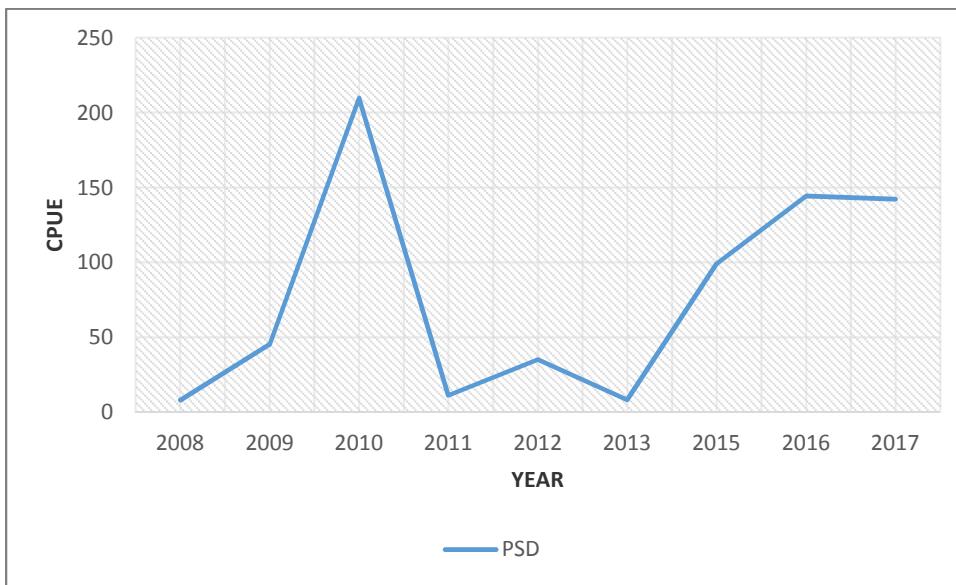


Figure 18. Annual CPUE results for pumpkinseed captured during boat electrofishing 2008-2017.

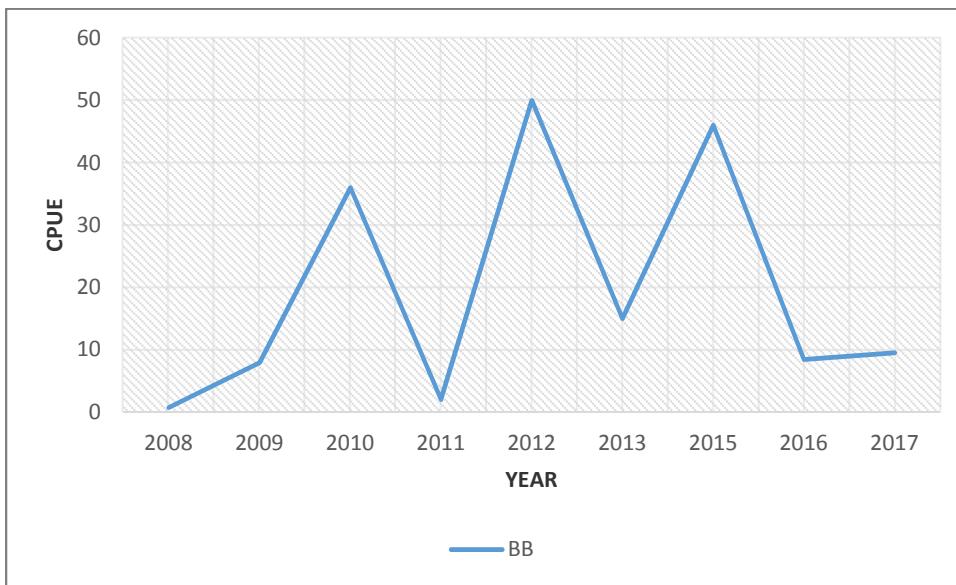


Figure 19. Annual CPUE results for brown bullhead captured during boat electrofishing 2008-2017.

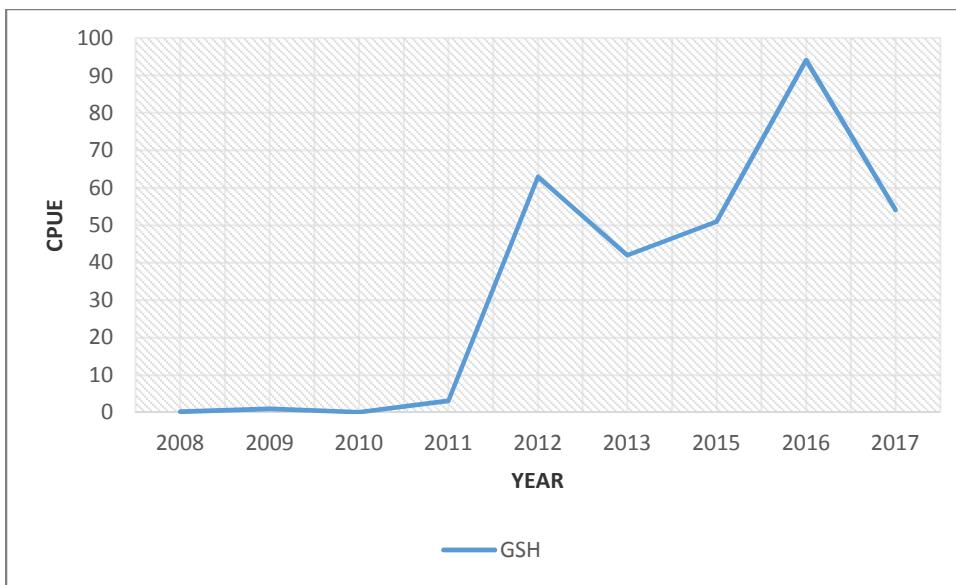


Figure 20. Annual CPUE results for golden shiner captured during boat electrofishing 2008-2017.

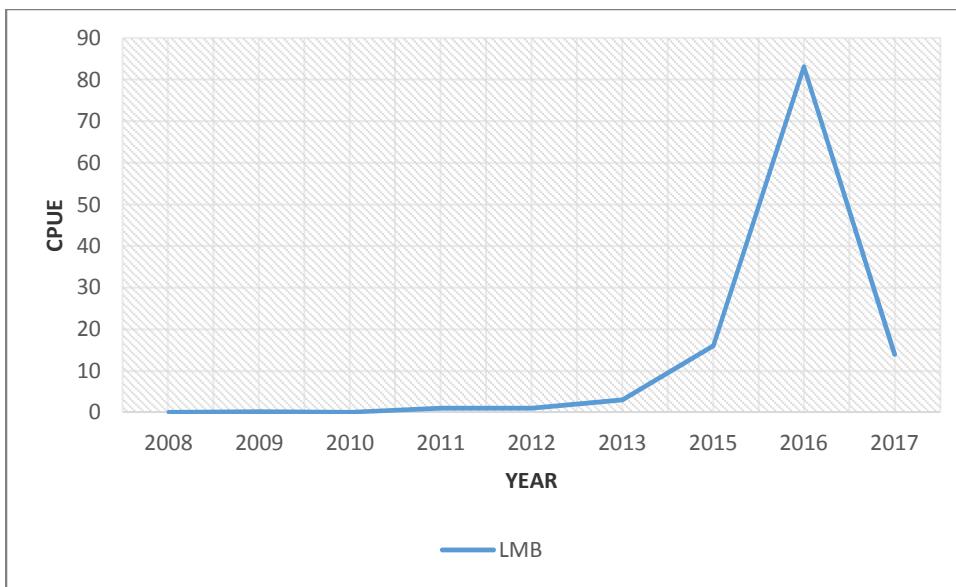


Figure 21. Annual CPUE results for largemouth bass captured during boat electrofishing 2008-2017.

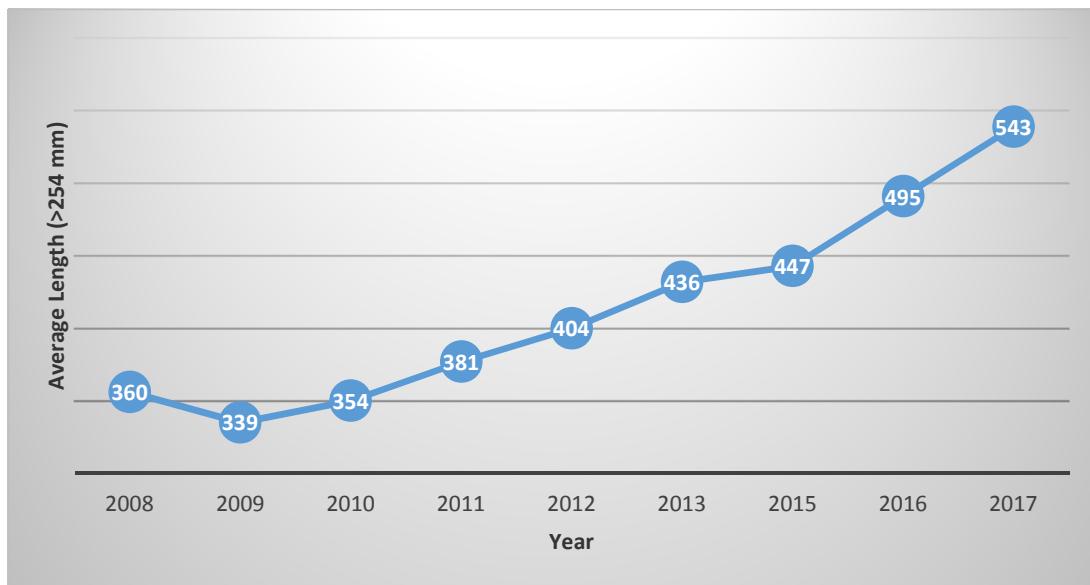


Figure 22. Annual average rainbow trout lengths. Figures based on catchable sized (greater than 254mm) fish captured during boat electrofishing.

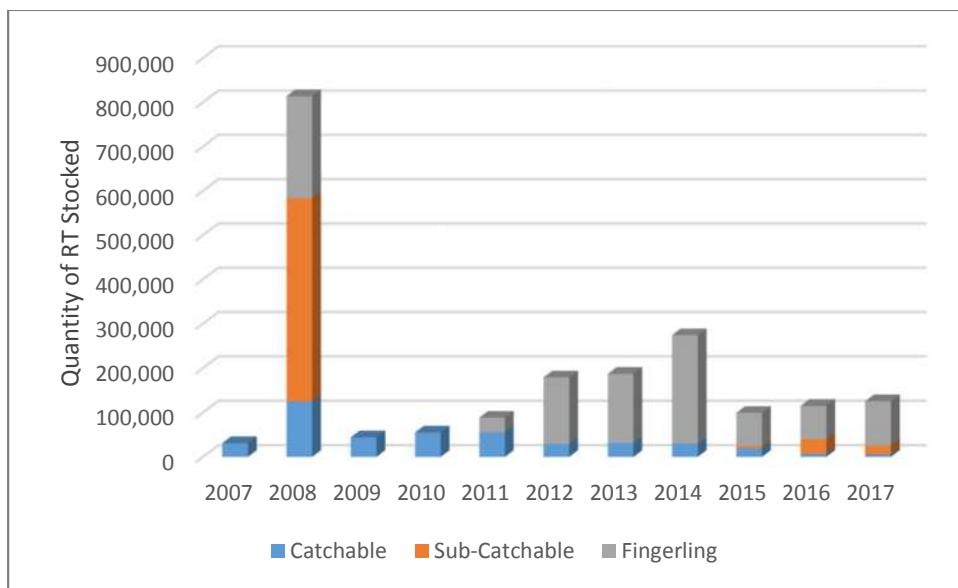


Figure 23. 2007-2017 post-treatment rainbow trout annual allotments (Appendix A).

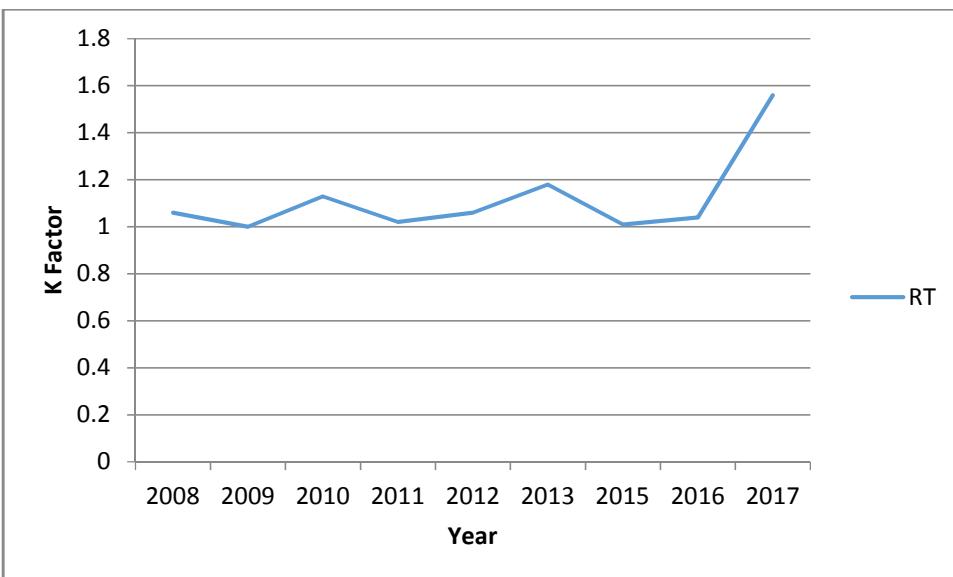


Figure 24. Annual average K factor for rainbow trout captured during boat electrofishing. (Note that a single RT was captured in 2017).

V. CONCLUSION

Because no pike were observed or captured, this effort builds upon the monitoring results from 2007 through 2015 and supports the hypothesis that the 2007 eradication project successfully eliminated northern pike from Lake Davis and its tributaries. However, this effort does not prove the absence of northern pike because Lake Davis is a large complicated system and definitively proving the absence of a particular species is a logical impossibility. If northern pike are present and 10 years of consistent sampling failed to capture any, their numbers likely remain very low. Periodic sampling will continue in Lake Davis and in other waters of Plumas County to ensure that northern pike were not introduced elsewhere, resulting in the establishment of populations in other bodies of water.

VI. REFERENCES

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APPENDICES

Appendix A. Capture Summaries and Fish Releases

2016 Lake Davis Boat Electrofishing

| Event | Method | Water | Location | Date | Seconds | Hours Fished | No. of RT | No. of BB | No. of PSD | No. of GSH | No. of LMB |
|---------|--------|-------|----------|----------|---------|--------------|-----------|-----------|------------|------------|------------|
| 0415161 | EB | Davis | HC=> EP | 04/15/16 | 3541 | 0.98 | 11 | 13 | 18 | 45 | 2 |
| 0831161 | EB | Davis | MS | 08/31/16 | 3343 | 0.93 | 0 | 3 | 258 | 135 | 157 |

2017 Lake Davis Boat Electrofishing

| Event | Method | Water | Location | Date | Seconds | Hours Fished | No. of RT | No. of BB | No. of PSD | No. of GSH | No. of LMB |
|---------|--------|-------|----------------|-----------|---------|--------------|-----------|-----------|------------|------------|------------|
| 0510171 | EB | Davis | DM, CF, HC | 5/10/2017 | 1817 | 0.50 | 0 | 24 | 21 | 106 | 18 |
| 0724171 | EB | Davis | GH, DM, CF | 7/24/2017 | 1179 | 0.33 | 0 | 8 | 93 | 40 | 19 |
| 0724172 | EB | Davis | | 7/24/2017 | 1665 | 0.46 | 0 | 7 | 10 | 5 | 2 |
| 0724173 | EB | Davis | | 7/24/2017 | 2040 | 0.57 | 0 | 2 | 21 | 17 | 2 |
| 0724174 | EB | Davis | | 7/24/2017 | 1800 | 0.50 | 0 | 5 | 5 | 31 | 3 |
| 0725171 | EB | Davis | CF, OC | 7/25/2017 | 771 | 0.21 | 0 | 2 | 30 | 26 | 4 |
| 0725172 | EB | Davis | SI, MC, CB, HC | 7/25/2017 | 1428 | 0.40 | 0 | 3 | 30 | 97 | 8 |
| 0725173 | EB | Davis | JC, NC5 | 7/25/2017 | 2001 | 0.56 | 0 | 13 | 277 | 40 | 6 |
| 0725174 | EB | Davis | DB | 7/25/2017 | 2879 | 0.80 | 0 | 1 | 31 | 37 | 10 |
| 0725175 | EB | Davis | | 7/25/2017 | 6540 | 1.82 | 0 | 11 | 34 | 68 | 2 |
| 0726171 | EB | Davis | WP, FG, HH | 7/26/2017 | 2875 | 0.80 | 0 | 9 | 233 | 22 | 11 |
| 0726172 | EB | Davis | CC | 7/26/2017 | 5885 | 1.63 | 1 | 12 | 172 | 42 | 6 |
| 0726173 | EB | Davis | | 7/26/2017 | 14100 | 3.92 | 0 | 35 | 254 | 192 | 85 |
| 0726174 | EB | Davis | EP to OC | 7/26/2017 | 3803 | 1.06 | 0 | 1 | 387 | 19 | 15 |
| 0727171 | EB | Davis | SC5 | 7/27/2017 | 1399 | 0.39 | 0 | 0 | 386 | 13 | 3 |

2017 Lake Davis Tributaries Backpack Electrofishing

| Event | Method | Water | Location | Date | Seconds | Hours Fished | No. of RT | No. of BB | No. of PSD | No. of GSH | No. of LMB |
|---------|--------|-------|-------------------|-----------|---------|--------------|-----------|-----------|------------|------------|------------|
| 0725176 | EP | Davis | Big Grizzly Creek | 7/25/2017 | 24624 | 6.84 | 7 | 18 | 23 | 208 | 0 |
| 0726175 | EP | Davis | Big Grizzly Creek | 7/26/2017 | 12672 | 3.52 | 1 | 3 | 6 | 88 | 0 |
| 0725177 | EP | Davis | Freeman Creek | 7/25/2017 | 4468 | 1.24 | 252 | 0 | 0 | 13 | 0 |
| 0726176 | EP | Davis | Freeman Creek | 7/26/2017 | 5441 | 1.51 | 536 | 0 | 0 | 0 | 0 |
| 0726177 | EP | Davis | Oldhouse Creek | 7/26/2017 | 9720 | 2.70 | 43 | 0 | 0 | 31 | 0 |
| 0727172 | EP | Davis | Oldhouse Creek | 7/27/2017 | 12024 | 3.34 | 365 | 0 | 0 | 0 | 0 |
| 0727173 | EP | Davis | Cow Creek | 7/27/2017 | 3391 | 0.94 | 115 | 0 | 0 | 0 | 0 |

2007-2017 post-treatment rainbow trout annual allotments.

| | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|----------------------|--------|---------|--------|--------|---------|---------|---------|---------|--------|---------|---------|
| Catchable | 31,200 | 125,102 | 44,165 | 54,918 | 55,600 | 29,300 | 31,350 | 29,610 | 19,270 | 7,030 | 6,200 |
| Sub-Catchable | | 458,236 | | | | | | | 4,895 | 32,550 | 19,190 |
| Fingerling | | 230,332 | | 32,800 | 149,640 | 155,700 | 244,577 | 75,000 | 75,310 | 100,000 | |
| Total | 31,200 | 813,670 | 44,165 | 54,918 | 88,400 | 178,940 | 187,050 | 274,577 | 99,165 | 114,890 | 125,390 |

Appendix B. Length and Weight Data

Lake Davis 2016

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|---------|---------|--------|--------|---------|---------|--------|--------|
| 0415161 | GSH | 120 | 17 | 0415161 | GSH | 63 | 3 |
| 0415161 | GSH | 100 | 10 | 0415161 | GSH | 60 | 3 |
| 0415161 | GSH | 90 | 6 | 0415161 | GSH | 45 | |
| 0415161 | GSH | 98 | 6 | 0415161 | GSH | 135 | 27 |
| 0415161 | GSH | 100 | 9 | 0415161 | GSH | 110 | 15 |
| 0415161 | GSH | 85 | 4 | 0415161 | GSH | 110 | 13 |
| 0415161 | GSH | 60 | 2 | 0415161 | GSH | 115 | 18 |
| 0415161 | GSH | 110 | 15 | 0415161 | GSH | 113 | 13 |
| 0415161 | GSH | 55 | 1 | 0415161 | GSH | 120 | 13 |
| 0415161 | GSH | 58 | | 0415161 | GSH | 102 | 11 |
| 0415161 | GSH | 60 | 2 | 0415161 | GSH | 98 | 8 |
| 0415161 | GSH | 63 | 3 | 0415161 | GSH | 96 | 9 |
| 0415161 | GSH | 60 | 3 | 0415161 | GSH | 100 | 9 |
| 0415161 | GSH | 45 | | 0415161 | GSH | 98 | 7 |
| 0415161 | GSH | 135 | 27 | 0415161 | GSH | 65 | 3 |
| 0415161 | GSH | 110 | 15 | 0415161 | GSH | 85 | 7 |
| 0415161 | GSH | 110 | 13 | 0415161 | GSH | 115 | 14 |
| 0415161 | GSH | 95 | 7 | 0415161 | GSH | 110 | 13 |
| 0415161 | GSH | 115 | 18 | 0415161 | PSD | 140 | 50 |
| 0415161 | GSH | 113 | 13 | 0415161 | PSD | 115 | 30 |
| 0415161 | GSH | 120 | 13 | 0415161 | PSD | 105 | 16 |
| 0415161 | GSH | 102 | 11 | 0415161 | PSD | 90 | 12 |
| 0415161 | GSH | 98 | 8 | 0415161 | PSD | 75 | 7 |
| 0415161 | GSH | 96 | 9 | 0415161 | PSD | 75 | 8 |
| 0415161 | GSH | 100 | 9 | 0415161 | PSD | 140 | 53 |
| 0415161 | GSH | 98 | 7 | 0415161 | PSD | 85 | 10 |
| 0415161 | GSH | 65 | 3 | 0415161 | PSD | 86 | 10 |
| 0415161 | GSH | 85 | 7 | 0415161 | PSD | 145 | 62 |
| 0415161 | GSH | 115 | 14 | 0415161 | PSD | 110 | 22 |
| 0415161 | GSH | 110 | 13 | 0415161 | PSD | 80 | 8 |
| 0415161 | GSH | 120 | 17 | 0415161 | PSD | 75 | 7 |
| 0415161 | GSH | 100 | 10 | 0415161 | PSD | 48 | 1 |
| 0415161 | GSH | 90 | 6 | 0415161 | PSD | 80 | 10 |
| 0415161 | GSH | 98 | 6 | 0415161 | PSD | 81 | 9 |
| 0415161 | GSH | 100 | 9 | 0415161 | PSD | 48 | 2 |
| 0415161 | GSH | 85 | 4 | 0415161 | PSD | 87 | 7 |
| 0415161 | GSH | 60 | 2 | 0415161 | LMB | 158 | 39 |
| 0415161 | GSH | 110 | 15 | 0415161 | LMB | 118 | 20 |
| 0415161 | GSH | 55 | 1 | 0415161 | RT | 497 | 1045 |
| 0415161 | GSH | 58 | | 0415161 | RT | 545 | 1385 |
| 0415161 | GSH | 60 | 2 | 0415161 | RT | 380 | 576 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0415161 | RT | 500 | 1149 | 0831161 | GSH | 100 | 9 |
| 0415161 | RT | 465 | 890 | 0831161 | GSH | 67 | 2 |
| 0415161 | RT | 505 | 1200 | 0831161 | GSH | 61 | 2 |
| 0415161 | RT | 511 | 1178 | 0831161 | GSH | 57 | 2 |
| 0415161 | RT | 490 | 1003 | 0831161 | GSH | 64 | 3 |
| 0415161 | RT | 515 | 1333 | 0831161 | GSH | 67 | 3 |
| 0415161 | RT | 530 | 1440 | 0831161 | GSH | 65 | 1 |
| 0415161 | RT | 505 | 1103 | 0831161 | GSH | 65 | 2 |
| 0415161 | BB | 55 | | 0831161 | GSH | 66 | 3 |
| 0415161 | BB | 60 | 3 | 0831161 | GSH | 61 | 2 |
| 0415161 | BB | 200 | 91 | 0831161 | GSH | 44 | |
| 0415161 | BB | 190 | 75 | 0831161 | GSH | 61 | 2 |
| 0415161 | BB | 190 | 82 | 0831161 | PSD | 126 | 47 |
| 0415161 | BB | 136 | 25 | 0831161 | PSD | 128 | 49 |
| 0415161 | BB | 60 | 3 | 0831161 | PSD | 35 | |
| 0415161 | BB | 65 | 3 | 0831161 | PSD | 39 | 1 |
| 0415161 | BB | 52 | 1 | 0831161 | PSD | 32 | |
| 0415161 | BB | 56 | 2 | 0831161 | PSD | 32 | |
| 0415161 | BB | 52 | | 0831161 | PSD | 33 | |
| 0415161 | BB | 53 | 1 | 0831161 | PSD | 38 | 1 |
| 0415161 | BB | 58 | | 0831161 | PSD | 44 | 2 |
| 0831161 | GSH | 61 | 2 | 0831161 | PSD | 41 | |
| 0831161 | GSH | 74 | 3 | 0831161 | PSD | 46 | |
| 0831161 | GSH | 63 | 2 | 0831161 | PSD | 36 | |
| 0831161 | GSH | 54 | 1 | 0831161 | PSD | 34 | |
| 0831161 | GSH | 53 | 1 | 0831161 | PSD | 47 | 2 |
| 0831161 | GSH | 64 | 2 | 0831161 | PSD | 39 | 1 |
| 0831161 | GSH | 64 | 2 | 0831161 | PSD | 73 | 6 |
| 0831161 | GSH | 61 | 1 | 0831161 | PSD | 36 | |
| 0831161 | GSH | 72 | 2 | 0831161 | PSD | 32 | |
| 0831161 | GSH | 92 | 3 | 0831161 | PSD | 136 | 54 |
| 0831161 | GSH | 70 | 3 | 0831161 | PSD | 28 | |
| 0831161 | GSH | 66 | 3 | 0831161 | PSD | 37 | |
| 0831161 | GSH | 65 | 4 | 0831161 | PSD | 33 | |
| 0831161 | GSH | 66 | 4 | 0831161 | PSD | 69 | 7 |
| 0831161 | GSH | 61 | 3 | 0831161 | PSD | 50 | 3 |
| 0831161 | GSH | 62 | 3 | 0831161 | PSD | 36 | |
| 0831161 | GSH | 74 | 4 | 0831161 | PSD | 39 | 1 |
| 0831161 | GSH | 50 | 1 | 0831161 | PSD | 35 | |
| 0831161 | GSH | 51 | 3 | 0831161 | PSD | 31 | |
| 0831161 | GSH | 63 | 2 | 0831161 | PSD | 34 | |
| 0831161 | GSH | 69 | 3 | 0831161 | PSD | 40 | |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Lake Davis 2017 | | | |
|---------|---------|--------|--------|-----------------|---------|--------|--------|
| | | | | Event | Species | Length | Weight |
| 0831161 | PSD | 35 | | 0510171 | GSH | 66 | 2 |
| 0831161 | PSD | 45 | 2 | 0510171 | GSH | 64 | 2 |
| 0831161 | PSD | 41 | 2 | 0510171 | GSH | 106 | 12 |
| 0831161 | PSD | 36 | | 0510171 | GSH | 69 | 3 |
| 0831161 | PSD | 40 | 3 | 0510171 | GSH | 68 | 4 |
| 0831161 | PSD | 34 | | 0510171 | GSH | 74 | 5 |
| 0831161 | LMB | 63 | 4 | 0510171 | GSH | 51 | 2 |
| 0831161 | LMB | 66 | 3 | 0510171 | GSH | 52 | 2 |
| 0831161 | LMB | 94 | 10 | 0510171 | GSH | 47 | 1 |
| 0831161 | LMB | 84 | 10 | 0510171 | GSH | 81 | 3 |
| 0831161 | LMB | 70 | 5 | 0510171 | GSH | 112 | |
| 0831161 | LMB | 86 | 9 | 0510171 | GSH | 126 | 19 |
| 0831161 | LMB | 101 | 13 | 0510171 | GSH | 96 | 9 |
| 0831161 | LMB | 81 | 8 | 0510171 | GSH | 41 | 1 |
| 0831161 | LMB | 74 | 4 | 0510171 | GSH | 66 | 2 |
| 0831161 | LMB | 91 | 10 | 0510171 | GSH | 56 | 2 |
| 0831161 | LMB | 61 | 4 | 0510171 | GSH | 66 | 2 |
| 0831161 | LMB | 83 | 7 | 0510171 | GSH | 50 | 1 |
| 0831161 | LMB | 72 | 5 | 0510171 | GSH | 54 | 2 |
| 0831161 | LMB | 52 | 2 | 0510171 | GSH | 58 | 2 |
| 0831161 | LMB | 62 | 2 | 0510171 | GSH | 46 | 1 |
| 0831161 | LMB | 101 | 10 | 0510171 | GSH | 56 | 2 |
| 0831161 | LMB | 107 | 17 | 0510171 | GSH | 114 | 15 |
| 0831161 | LMB | 73 | 5 | 0510171 | GSH | 92 | |
| 0831161 | LMB | 86 | 10 | 0510171 | GSH | 52 | 2 |
| 0831161 | LMB | 102 | 16 | 0510171 | GSH | 51 | 1 |
| 0831161 | LMB | 95 | 10 | 0510171 | GSH | 57 | 2 |
| 0831161 | LMB | 119 | 24 | 0510171 | PSD | 90 | 15 |
| 0831161 | LMB | 82 | 7 | 0510171 | PSD | 170 | 109 |
| 0831161 | LMB | 86 | 9 | 0510171 | PSD | 130 | 41 |
| 0831161 | LMB | 81 | 7 | 0510171 | PSD | 142 | 55 |
| 0831161 | LMB | 125 | 24 | 0510171 | PSD | 128 | 36 |
| 0831161 | LMB | 93 | 12 | 0510171 | PSD | 110 | 22 |
| 0831161 | LMB | 86 | 10 | 0510171 | PSD | 86 | 12 |
| 0831161 | LMB | 89 | 11 | 0510171 | PSD | 117 | 44 |
| 0831161 | LMB | 88 | 10 | 0510171 | PSD | 106 | 23 |
| 0831161 | LMB | 111 | 19 | 0510171 | PSD | 86 | 11 |
| 0831161 | LMB | 76 | 8 | 0510171 | PSD | 116 | 31 |
| 0831161 | LMB | 73 | 6 | | | | |
| 0831161 | BB | 254 | 181 | | | | |
| 0831161 | BB | 262 | 222 | | | | |
| 0831161 | BB | 123 | 44 | | | | |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0510171 | PSD | 92 | 12 | 0510171 | LMB | 137 | 30 |
| 0510171 | PSD | 86 | 9 | 0510171 | LMB | 118 | 18 |
| 0510171 | PSD | 140 | 50 | 0510171 | LMB | 119 | 15 |
| 0510171 | PSD | 103 | 19 | 0510171 | LMB | 202 | 105 |
| 0510171 | PSD | 86 | 12 | 0510171 | LMB | 82 | 7 |
| 0510171 | PSD | 89 | 13 | 0510171 | LMB | 89 | 9 |
| 0510171 | PSD | 136 | 55 | 0510171 | LMB | 112 | 12 |
| 0510171 | PSD | 56 | 4 | 0510171 | LMB | 145 | 32 |
| 0510171 | PSD | 46 | | 0510171 | LMB | 133 | 31 |
| 0510171 | BB | 185 | 91 | 0724171 | LMB | 268 | 326 |
| 0510171 | BB | 235 | 192 | 0724171 | LMB | 257 | |
| 0510171 | BB | 330 | 616 | 0724171 | LMB | 254 | 239 |
| 0510171 | BB | 320 | 572 | 0724171 | LMB | 220 | 117 |
| 0510171 | BB | 333 | 687 | 0724171 | LMB | 217 | 163 |
| 0510171 | BB | 312 | 452 | 0724171 | LMB | 206 | 140 |
| 0510171 | BB | 283 | 345 | 0724171 | LMB | 171 | 80 |
| 0510171 | BB | 284 | 427 | 0724171 | LMB | 163 | 61 |
| 0510171 | BB | 311 | 411 | 0724171 | LMB | 194 | 106 |
| 0510171 | BB | 308 | 423 | 0724171 | LMB | 195 | |
| 0510171 | BB | 307 | 476 | 0724171 | LMB | 191 | 120 |
| 0510171 | BB | 291 | 363 | 0724171 | LMB | 166 | 78 |
| 0510171 | BB | 275 | 322 | 0724171 | LMB | 200 | 124 |
| 0510171 | BB | 272 | 309 | 0724171 | LMB | 168 | 69 |
| 0510171 | BB | 284 | 355 | 0724171 | LMB | 156 | |
| 0510171 | BB | 232 | 163 | 0724171 | LMB | 166 | 73 |
| 0510171 | BB | 229 | 175 | 0724171 | LMB | 156 | 54 |
| 0510171 | BB | 104 | 14 | 0724171 | LMB | 157 | 54 |
| 0510171 | BB | 98 | 11 | 0724171 | LMB | 164 | 56 |
| 0510171 | BB | 111 | 19 | 0724171 | PSD | 80 | 9 |
| 0510171 | BB | 112 | 19 | 0724171 | PSD | 146 | 69 |
| 0510171 | BB | 110 | 18 | 0724171 | PSD | 144 | 66 |
| 0510171 | BB | 111 | 17 | 0724171 | PSD | 131 | 50 |
| 0510171 | BB | 131 | 25 | 0724171 | PSD | 97 | 21 |
| 0510171 | LMB | 115 | 15 | 0724171 | PSD | 143 | 65 |
| 0510171 | LMB | 111 | 13 | 0724171 | PSD | 105 | 24 |
| 0510171 | LMB | 136 | 28 | 0724171 | PSD | 86 | 14 |
| 0510171 | LMB | 86 | 7 | 0724171 | PSD | 100 | 22 |
| 0510171 | LMB | 113 | 17 | 0724171 | PSD | 103 | 31 |
| 0510171 | LMB | 95 | 10 | 0724171 | PSD | 89 | 15 |
| 0510171 | LMB | 130 | 25 | 0724171 | PSD | 94 | 17 |
| 0510171 | LMB | 106 | 12 | 0724171 | PSD | 78 | 10 |
| 0510171 | LMB | 91 | 9 | 0724171 | PSD | 92 | 17 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0724171 | PSD | 72 | 8 | 0724171 | GSH | 86 | 7 |
| 0724171 | PSD | 90 | 13 | 0724171 | GSH | 75 | 4 |
| 0724171 | PSD | 83 | 12 | 0724171 | GSH | 80 | 6 |
| 0724171 | PSD | 89 | 17 | 0724171 | GSH | 66 | 3 |
| 0724171 | PSD | 93 | 9 | 0724171 | BB | 300 | 377 |
| 0724171 | PSD | 106 | 27 | 0724171 | BB | 174 | 72 |
| 0724171 | PSD | 59 | 4 | 0724171 | BB | 179 | 67 |
| 0724171 | PSD | 72 | 7 | 0724171 | BB | 119 | 24 |
| 0724171 | PSD | 74 | 7 | 0724171 | BB | 91 | 11 |
| 0724171 | PSD | 81 | 11 | 0724171 | BB | 109 | 18 |
| 0724171 | PSD | 75 | 9 | 0724171 | BB | 100 | 13 |
| 0724171 | PSD | 69 | 5 | 0724171 | BB | 91 | 12 |
| 0724171 | PSD | 80 | 12 | 0724172 | BB | 153 | 47 |
| 0724171 | PSD | 74 | 7 | 0724172 | BB | 331 | 353 |
| 0724171 | PSD | 90 | 15 | 0724172 | BB | 145 | 50 |
| 0724171 | PSD | 78 | 10 | 0724172 | BB | 170 | 75 |
| 0724171 | GSH | 111 | 19 | 0724172 | BB | 207 | 108 |
| 0724171 | GSH | 133 | 27 | 0724172 | BB | 178 | 74 |
| 0724171 | GSH | 101 | 13 | 0724172 | BB | 160 | 50 |
| 0724171 | GSH | 124 | 20 | 0724172 | PSD | 120 | 35 |
| 0724171 | GSH | 111 | 17 | 0724172 | PSD | 73 | |
| 0724171 | GSH | 115 | 16 | 0724172 | PSD | 95 | 22 |
| 0724171 | GSH | 108 | 14 | 0724172 | PSD | 68 | |
| 0724171 | GSH | 91 | 11 | 0724172 | PSD | 105 | 25 |
| 0724171 | GSH | 107 | 26 | 0724172 | PSD | 113 | 30 |
| 0724171 | GSH | 99 | 10 | 0724172 | PSD | 77 | |
| 0724171 | GSH | 107 | 12 | 0724172 | PSD | 68 | |
| 0724171 | GSH | 95 | 10 | 0724172 | PSD | 70 | |
| 0724171 | GSH | 89 | 7 | 0724172 | PSD | 56 | |
| 0724171 | GSH | 89 | 7 | 0724172 | LMB | 152 | 47 |
| 0724171 | GSH | 91 | 9 | 0724172 | LMB | 170 | |
| 0724171 | GSH | 87 | 7 | 0724172 | GSH | 83 | 6 |
| 0724171 | GSH | 75 | 4 | 0724172 | GSH | 115 | 17 |
| 0724171 | GSH | 80 | 5 | 0724172 | GSH | 113 | 25 |
| 0724171 | GSH | 110 | 14 | 0724172 | GSH | 101 | 10 |
| 0724171 | GSH | 90 | 8 | 0724172 | GSH | 115 | 12 |
| 0724171 | GSH | 84 | 7 | 0724173 | GSH | 95 | 10 |
| 0724171 | GSH | 95 | 9 | 0724173 | GSH | 99 | 12 |
| 0724171 | GSH | 81 | 6 | 0724173 | GSH | 78 | 5 |
| 0724171 | GSH | 94 | 9 | 0724173 | GSH | 95 | 8 |
| 0724171 | GSH | 82 | 5 | 0724173 | GSH | 122 | 20 |
| 0724171 | GSH | 89 | 7 | 0724173 | GSH | 140 | 27 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0724173 | GSH | 110 | 15 | 0724174 | GSH | 125 | 23 |
| 0724173 | GSH | 104 | 9 | 0724174 | GSH | 90 | 10 |
| 0724173 | GSH | 115 | 15 | 0724174 | GSH | 95 | 7 |
| 0724173 | GSH | 100 | 11 | 0724174 | GSH | 122 | 23 |
| 0724173 | GSH | 98 | 9 | 0724174 | GSH | 120 | 19 |
| 0724173 | GSH | 105 | 12 | 0724174 | GSH | 91 | 7 |
| 0724173 | GSH | 96 | 10 | 0724174 | GSH | 95 | 8 |
| 0724173 | GSH | 145 | 30 | 0724174 | GSH | 122 | 20 |
| 0724173 | GSH | 81 | | 0724174 | GSH | 94 | 7 |
| 0724173 | GSH | 116 | 10 | 0724174 | GSH | 96 | 11 |
| 0724173 | GSH | 77 | 4 | 0724174 | GSH | 95 | 7 |
| 0724173 | PSD | 61 | | 0724174 | GSH | 96 | 10 |
| 0724173 | PSD | 71 | | 0724174 | GSH | 85 | 7 |
| 0724173 | PSD | 78 | | 0724174 | GSH | 80 | 5 |
| 0724173 | PSD | 95 | 15 | 0724174 | GSH | 98 | 12 |
| 0724173 | PSD | 67 | | 0724174 | GSH | 97 | 11 |
| 0724173 | PSD | 76 | | 0724174 | GSH | 123 | 20 |
| 0724173 | PSD | 90 | 16 | 0724174 | GSH | 110 | 16 |
| 0724173 | PSD | 95 | 14 | 0724174 | GSH | 100 | 12 |
| 0724173 | PSD | 74 | | 0724174 | GSH | 102 | 11 |
| 0724173 | PSD | 78 | | 0724174 | GSH | 110 | 16 |
| 0724173 | PSD | 56 | | 0724174 | GSH | 86 | 7 |
| 0724173 | PSD | 78 | | 0724174 | GSH | 84 | 5 |
| 0724173 | PSD | 52 | | 0724174 | GSH | 86 | 6 |
| 0724173 | PSD | 66 | | 0724174 | GSH | 84 | 6 |
| 0724173 | PSD | 70 | | 0724174 | GSH | 105 | 13 |
| 0724173 | PSD | 73 | | 0724174 | GSH | 115 | 16 |
| 0724173 | PSD | 60 | | 0724174 | GSH | 89 | 7 |
| 0724173 | PSD | 79 | | 0724174 | GSH | 110 | 15 |
| 0724173 | PSD | 62 | | 0724174 | LMB | 285 | 422 |
| 0724173 | PSD | 55 | | 0724174 | LMB | 184 | 91 |
| 0724173 | PSD | 53 | | 0724174 | LMB | 145 | |
| 0724173 | LMB | 270 | 326 | 0724174 | PSD | 111 | 28 |
| 0724173 | LMB | 270 | 335 | 0724174 | PSD | 115 | 34 |
| 0724173 | BB | 320 | 521 | 0724174 | PSD | 111 | 31 |
| 0724173 | BB | 332 | 555 | 0724174 | PSD | 85 | 13 |
| 0724174 | BB | 325 | 515 | 0724174 | PSD | 85 | 13 |
| 0724174 | BB | 321 | 490 | 0725171 | GSH | 120 | 22 |
| 0724174 | BB | 102 | 14 | 0725171 | GSH | 112 | 18 |
| 0724174 | BB | 100 | 13 | 0725171 | GSH | 95 | 12 |
| 0724174 | BB | 320 | 454 | 0725171 | GSH | 92 | 9 |
| 0724174 | GSH | 77 | 6 | 0725171 | GSH | 110 | 17 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725171 | GSH | 96 | 10 | 0725171 | PSD | 106 | 29 |
| 0725171 | GSH | 108 | 13 | 0725171 | PSD | 138 | 59 |
| 0725171 | GSH | 109 | 15 | 0725171 | PSD | 130 | 51 |
| 0725171 | GSH | 77 | 5 | 0725171 | PSD | 74 | 8 |
| 0725171 | GSH | 91 | 9 | 0725171 | PSD | 123 | 38 |
| 0725171 | GSH | 98 | 11 | 0725171 | PSD | 103 | 21 |
| 0725171 | GSH | 82 | 6 | 0725171 | PSD | 100 | 22 |
| 0725171 | GSH | 84 | 6 | 0725171 | PSD | 77 | 9 |
| 0725171 | GSH | 108 | 15 | 0725171 | PSD | 69 | 5 |
| 0725171 | GSH | 105 | 13 | 0725171 | PSD | 105 | 26 |
| 0725171 | GSH | 122 | 22 | 0725171 | PSD | 76 | 9 |
| 0725171 | GSH | 104 | 12 | 0725171 | PSD | 60 | 4 |
| 0725171 | GSH | 90 | 8 | 0725171 | PSD | 64 | 5 |
| 0725171 | GSH | 94 | 9 | 0725171 | BB | 311 | 408 |
| 0725171 | GSH | 136 | 30 | 0725171 | BB | 340 | 510 |
| 0725171 | GSH | 117 | 19 | 0725172 | GSH | 130 | |
| 0725171 | GSH | 184 | 96 | 0725172 | GSH | 115 | 18 |
| 0725171 | GSH | 106 | 15 | 0725172 | GSH | 110 | 16 |
| 0725171 | GSH | 90 | 9 | 0725172 | GSH | 100 | 11 |
| 0725171 | GSH | 71 | 3 | 0725172 | GSH | 105 | 14 |
| 0725171 | GSH | 109 | 13 | 0725172 | GSH | 100 | 9 |
| 0725171 | LMB | 150 | 50 | 0725172 | GSH | 95 | 8 |
| 0725171 | LMB | 375 | 803 | 0725172 | GSH | 120 | 19 |
| 0725171 | LMB | 200 | 146 | 0725172 | GSH | 110 | 13 |
| 0725171 | LMB | 109 | 142 | 0725172 | GSH | 100 | 10 |
| 0725171 | PSD | 74 | 8 | 0725172 | GSH | 100 | 9 |
| 0725171 | PSD | 65 | 5 | 0725172 | GSH | 95 | 9 |
| 0725171 | PSD | 69 | 7 | 0725172 | GSH | 105 | 12 |
| 0725171 | PSD | 80 | 9 | 0725172 | GSH | 95 | 8 |
| 0725171 | PSD | 102 | 25 | 0725172 | GSH | 95 | 10 |
| 0725171 | PSD | 75 | 9 | 0725172 | GSH | 90 | 8 |
| 0725171 | PSD | 100 | 20 | 0725172 | GSH | 75 | 4 |
| 0725171 | PSD | 180 | 97 | 0725172 | GSH | 105 | 13 |
| 0725171 | PSD | 127 | 49 | 0725172 | GSH | 95 | 10 |
| 0725171 | PSD | 123 | 40 | 0725172 | GSH | 110 | 13 |
| 0725171 | PSD | 70 | 7 | 0725172 | GSH | 100 | 11 |
| 0725171 | PSD | 110 | 25 | 0725172 | GSH | 125 | 23 |
| 0725171 | PSD | 84 | 17 | 0725172 | GSH | 105 | 11 |
| 0725171 | PSD | 120 | 33 | 0725172 | GSH | 105 | 12 |
| 0725171 | PSD | 79 | 8 | 0725172 | GSH | 90 | 9 |
| 0725171 | PSD | 100 | 22 | 0725172 | GSH | 100 | 11 |
| 0725171 | PSD | 77 | 11 | 0725172 | GSH | 85 | 6 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725172 | GSH | 115 | 15 | 0725172 | BB | 336 | 509 |
| 0725172 | GSH | 110 | 16 | 0725172 | BB | 197 | 105 |
| 0725172 | GSH | 92 | 7 | 0725173 | PSD | 125 | 50 |
| 0725172 | PSD | 141 | 60 | 0725173 | PSD | 62 | 6 |
| 0725172 | PSD | 107 | 26 | 0725173 | PSD | 62 | 6 |
| 0725172 | PSD | 119 | 35 | 0725173 | PSD | 57 | 3 |
| 0725172 | PSD | 121 | 35 | 0725173 | PSD | 64 | 4 |
| 0725172 | PSD | 142 | 66 | 0725173 | PSD | 94 | 17 |
| 0725172 | PSD | 78 | 8 | 0725173 | PSD | 93 | 18 |
| 0725172 | PSD | 139 | 63 | 0725173 | PSD | 87 | 13 |
| 0725172 | PSD | 143 | 55 | 0725173 | PSD | 105 | 23 |
| 0725172 | PSD | 130 | 46 | 0725173 | PSD | 88 | 13 |
| 0725172 | PSD | 120 | 37 | 0725173 | PSD | 61 | 3 |
| 0725172 | PSD | 131 | 47 | 0725173 | PSD | 74 | 3 |
| 0725172 | PSD | 77 | 9 | 0725173 | PSD | 52 | 2 |
| 0725172 | PSD | 107 | 24 | 0725173 | PSD | 70 | 7 |
| 0725172 | PSD | 135 | 45 | 0725173 | PSD | 53 | 3 |
| 0725172 | PSD | 108 | 25 | 0725173 | PSD | 109 | 30 |
| 0725172 | PSD | 104 | 20 | 0725173 | PSD | 53 | 3 |
| 0725172 | PSD | 156 | 83 | 0725173 | PSD | 59 | 4 |
| 0725172 | PSD | 128 | 43 | 0725173 | PSD | 62 | 4 |
| 0725172 | PSD | 106 | 28 | 0725173 | PSD | 115 | 32 |
| 0725172 | PSD | 99 | 20 | 0725173 | PSD | 97 | 19 |
| 0725172 | PSD | 142 | 64 | 0725173 | PSD | 96 | 18 |
| 0725172 | PSD | 153 | 70 | 0725173 | PSD | 69 | 6 |
| 0725172 | PSD | 149 | 64 | 0725173 | PSD | 59 | 4 |
| 0725172 | PSD | 112 | 29 | 0725173 | PSD | 56 | 4 |
| 0725172 | PSD | 90 | 15 | 0725173 | PSD | 56 | 3 |
| 0725172 | PSD | 143 | 60 | 0725173 | PSD | 58 | 4 |
| 0725172 | PSD | 97 | 19 | 0725173 | PSD | 56 | 3 |
| 0725172 | PSD | 100 | 20 | 0725173 | PSD | 52 | 2 |
| 0725172 | PSD | 75 | 9 | 0725173 | PSD | 51 | 3 |
| 0725172 | PSD | 126 | 40 | 0725173 | GSH | 111 | 13 |
| 0725172 | LMB | 299 | 414 | 0725173 | GSH | 144 | 29 |
| 0725172 | LMB | 165 | 79 | 0725173 | GSH | 115 | 15 |
| 0725172 | LMB | 310 | 523 | 0725173 | GSH | 108 | 12 |
| 0725172 | LMB | 310 | 514 | 0725173 | GSH | 96 | 10 |
| 0725172 | LMB | 290 | 394 | 0725173 | GSH | 111 | 15 |
| 0725172 | LMB | 310 | 505 | 0725173 | GSH | 89 | 8 |
| 0725172 | LMB | 87 | 90 | 0725173 | GSH | 95 | 10 |
| 0725172 | LMB | 184 | 99 | 0725173 | GSH | 94 | 9 |
| 0725172 | BB | 358 | 716 | 0725173 | GSH | 86 | 6 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725173 | GSH | 92 | 9 | 0725174 | GSH | 108 | 13 |
| 0725173 | GSH | 74 | 5 | 0725174 | GSH | 78 | 5 |
| 0725173 | GSH | 118 | 21 | 0725174 | GSH | 85 | 8 |
| 0725173 | GSH | 94 | 9 | 0725174 | GSH | 100 | 11 |
| 0725173 | GSH | 133 | 26 | 0725174 | GSH | 109 | 16 |
| 0725173 | GSH | 125 | 24 | 0725174 | GSH | 101 | 12 |
| 0725173 | GSH | 114 | 17 | 0725174 | GSH | 81 | 5 |
| 0725173 | GSH | 111 | 14 | 0725174 | GSH | 84 | 7 |
| 0725173 | GSH | 112 | 17 | 0725174 | GSH | 90 | 9 |
| 0725173 | GSH | 115 | 18 | 0725174 | GSH | 85 | 6 |
| 0725173 | GSH | 82 | 6 | 0725174 | GSH | 79 | 4 |
| 0725173 | GSH | 93 | 7 | 0725174 | GSH | 82 | 7 |
| 0725173 | GSH | 85 | 6 | 0725174 | GSH | 95 | 10 |
| 0725173 | GSH | 77 | 5 | 0725174 | GSH | 87 | 9 |
| 0725173 | GSH | 96 | 9 | 0725174 | GSH | 98 | 11 |
| 0725173 | GSH | 93 | 8 | 0725174 | GSH | 45 | 1 |
| 0725173 | GSH | 103 | 11 | 0725174 | GSH | 71 | 4 |
| 0725173 | GSH | 109 | 14 | 0725174 | GSH | 40 | 2 |
| 0725173 | GSH | 119 | 17 | 0725174 | GSH | 41 | |
| 0725173 | GSH | 125 | 18 | 0725174 | GSH | 136 | 29 |
| 0725173 | LMB | 207 | 144 | 0725174 | GSH | 90 | 8 |
| 0725173 | LMB | 165 | 165 | 0725174 | GSH | 99 | 12 |
| 0725173 | LMB | 205 | 205 | 0725174 | GSH | 89 | 9 |
| 0725173 | LMB | 212 | 212 | 0725174 | GSH | 82 | 6 |
| 0725173 | LMB | 331 | 331 | 0725174 | GSH | 80 | 6 |
| 0725173 | LMB | 221 | 221 | 0725174 | GSH | 100 | 12 |
| 0725173 | BB | 162 | 55 | 0725174 | GSH | 43 | |
| 0725173 | BB | 133 | 31 | 0725174 | PSD | 104 | 24 |
| 0725173 | BB | 178 | 81 | 0725174 | PSD | 95 | 17 |
| 0725173 | BB | 165 | 56 | 0725174 | PSD | 114 | 32 |
| 0725173 | BB | 188 | 103 | 0725174 | PSD | 109 | 31 |
| 0725173 | BB | 183 | 83 | 0725174 | PSD | 100 | 24 |
| 0725173 | BB | 167 | 67 | 0725174 | PSD | 112 | 26 |
| 0725173 | BB | 130 | 32 | 0725174 | PSD | 135 | 51 |
| 0725173 | BB | 163 | 60 | 0725174 | PSD | 130 | 55 |
| 0725173 | BB | 189 | 93 | 0725174 | PSD | 95 | 17 |
| 0725173 | BB | 186 | 77 | 0725174 | PSD | 115 | 30 |
| 0725173 | BB | 123 | 26 | 0725174 | PSD | 110 | 32 |
| 0725173 | BB | 98 | 12 | 0725174 | PSD | 120 | 36 |
| 0725174 | GSH | 114 | 20 | 0725174 | PSD | 140 | 63 |
| 0725174 | GSH | 110 | 15 | 0725174 | PSD | 126 | 46 |
| 0725174 | GSH | 102 | 12 | 0725174 | PSD | 105 | 28 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725174 | PSD | 150 | 69 | 0725175 | GSH | 101 | 12 |
| 0725174 | PSD | 102 | 25 | 0725175 | GSH | 95 | 9 |
| 0725174 | PSD | 110 | 30 | 0725175 | GSH | 111 | 14 |
| 0725174 | PSD | 145 | 41 | 0725175 | GSH | 97 | 9 |
| 0725174 | PSD | 147 | 68 | 0725175 | GSH | 125 | 22 |
| 0725174 | PSD | 101 | 23 | 0725175 | GSH | 102 | 11 |
| 0725174 | PSD | 100 | 23 | 0725175 | GSH | 127 | 30 |
| 0725174 | PSD | 130 | 51 | 0725175 | GSH | 83 | 6 |
| 0725174 | PSD | 95 | 59 | 0725175 | GSH | 127 | 20 |
| 0725174 | PSD | 135 | 58 | 0725175 | GSH | 138 | 30 |
| 0725174 | PSD | 96 | 22 | 0725175 | GSH | 108 | 15 |
| 0725174 | PSD | 45 | 2 | 0725175 | GSH | 123 | 17 |
| 0725174 | PSD | 104 | 23 | 0725175 | GSH | 115 | 13 |
| 0725174 | PSD | 55 | 2 | 0725175 | GSH | 125 | 22 |
| 0725174 | PSD | 92 | 16 | 0725175 | GSH | 91 | 7 |
| 0725174 | LMB | 40 | | 0725175 | GSH | 105 | 13 |
| 0725174 | LMB | 50 | 2 | 0725175 | GSH | 110 | 13 |
| 0725174 | LMB | 40 | 1 | 0725175 | GSH | 124 | 19 |
| 0725174 | LMB | 299 | 470 | 0725175 | GSH | 96 | 9 |
| 0725174 | LMB | 293 | 375 | 0725175 | GSH | 92 | 8 |
| 0725174 | LMB | 305 | 397 | 0725175 | GSH | 123 | 18 |
| 0725174 | LMB | 40 | 2 | 0725175 | GSH | 80 | 5 |
| 0725174 | LMB | 35 | 1 | 0725175 | GSH | 103 | 12 |
| 0725174 | LMB | 41 | 1 | 0725175 | GSH | 92 | 7 |
| 0725174 | LMB | 25 | | 0725175 | GSH | 98 | 10 |
| 0725174 | BB | 182 | 87 | 0725175 | GSH | 78 | 5 |
| 0725175 | LMB | 403 | 1203 | 0725175 | GSH | 96 | 9 |
| 0725175 | LMB | 155 | 56 | 0725175 | GSH | 155 | 42 |
| 0725175 | BB | 200 | 110 | 0725175 | PSD | 84 | 11 |
| 0725175 | BB | 174 | 76 | 0725175 | PSD | 75 | |
| 0725175 | BB | 320 | 452 | 0725175 | PSD | 126 | 35 |
| 0725175 | BB | 260 | 232 | 0725175 | PSD | 77 | |
| 0725175 | BB | 335 | 609 | 0725175 | PSD | 97 | 17 |
| 0725175 | BB | 350 | 559 | 0725175 | PSD | 115 | 28 |
| 0725175 | BB | 335 | 642 | 0725175 | PSD | 67 | |
| 0725175 | BB | 150 | 44 | 0725175 | PSD | 70 | |
| 0725175 | BB | 210 | 161 | 0725175 | PSD | 115 | 36 |
| 0725175 | BB | 135 | 30 | 0725175 | PSD | 100 | 24 |
| 0725175 | BB | 166 | 68 | 0725175 | PSD | 103 | 23 |
| 0725175 | GSH | 104 | 12 | 0725175 | PSD | 80 | 11 |
| 0725175 | GSH | 100 | 10 | 0725175 | PSD | 105 | 23 |
| 0725175 | GSH | 144 | 32 | 0725175 | PSD | 128 | 48 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725175 | PSD | 101 | 25 | 0726171 | PSD | 82 | 13 |
| 0725175 | PSD | 91 | 17 | 0726171 | PSD | 71 | |
| 0725175 | PSD | 121 | 40 | 0726171 | PSD | 67 | 6 |
| 0725175 | PSD | 120 | 41 | 0726171 | PSD | 59 | 4 |
| 0725175 | PSD | 137 | 59 | 0726171 | GSH | 86 | 7 |
| 0725175 | PSD | 113 | 33 | 0726171 | GSH | 101 | 10 |
| 0725175 | PSD | 102 | 24 | 0726171 | GSH | 106 | 12 |
| 0725175 | PSD | 74 | | 0726171 | GSH | 111 | 11 |
| 0725175 | PSD | 55 | | 0726171 | GSH | 105 | 11 |
| 0725175 | PSD | 115 | 28 | 0726171 | GSH | 105 | 11 |
| 0725175 | PSD | 113 | 35 | 0726171 | GSH | 116 | 17 |
| 0725175 | PSD | 106 | 27 | 0726171 | GSH | 92 | 9 |
| 0725175 | PSD | 73 | | 0726171 | GSH | 92 | 7 |
| 0725175 | PSD | 54 | | 0726171 | GSH | 62 | 2 |
| 0725175 | PSD | 54 | | 0726171 | GSH | 111 | 14 |
| 0725175 | PSD | 90 | 17 | 0726171 | GSH | 112 | 10 |
| 0726171 | PSD | 99 | 18 | 0726171 | GSH | 115 | 11 |
| 0726171 | PSD | 76 | 7 | 0726171 | GSH | 32 | 5 |
| 0726171 | PSD | 110 | 23 | 0726171 | GSH | 118 | 18 |
| 0726171 | PSD | 97 | 19 | 0726171 | GSH | 98 | 10 |
| 0726171 | PSD | 89 | 15 | 0726171 | GSH | 111 | 14 |
| 0726171 | PSD | 89 | 12 | 0726171 | GSH | 99 | 9 |
| 0726171 | PSD | 85 | | 0726171 | GSH | 115 | 15 |
| 0726171 | PSD | 75 | 7 | 0726171 | GSH | 84 | 6 |
| 0726171 | PSD | 66 | 5 | 0726171 | GSH | 67 | 2 |
| 0726171 | PSD | 69 | 6 | 0726171 | GSH | 40 | |
| 0726171 | PSD | 64 | 4 | 0726171 | LMB | 50 | 1 |
| 0726171 | PSD | 56 | 3 | 0726171 | LMB | 46 | 1 |
| 0726171 | PSD | 55 | 3 | 0726171 | LMB | 54 | 2 |
| 0726171 | PSD | 55 | 3 | 0726171 | LMB | 203 | 114 |
| 0726171 | PSD | 49 | 3 | 0726171 | LMB | 211 | 161 |
| 0726171 | PSD | 45 | 2 | 0726171 | LMB | 138 | 37 |
| 0726171 | PSD | 85 | 13 | 0726171 | LMB | 191 | 36 |
| 0726171 | PSD | 70 | 5 | 0726171 | LMB | 199 | 121 |
| 0726171 | PSD | 85 | 11 | 0726171 | LMB | 195 | 116 |
| 0726171 | PSD | 70 | 5 | 0726171 | LMB | 170 | 68 |
| 0726171 | PSD | 95 | 17 | 0726171 | LMB | 145 | 38 |
| 0726171 | PSD | 83 | 11 | 0726171 | BB | 128 | 24 |
| 0726171 | PSD | 87 | 14 | 0726171 | BB | 154 | 50 |
| 0726171 | PSD | 74 | 9 | 0726171 | BB | 132 | 39 |
| 0726171 | PSD | 57 | 4 | 0726171 | BB | 144 | 40 |
| 0726171 | PSD | 64 | 5 | 0726171 | BB | 140 | 38 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0726171 | BB | 130 | 27 | 0726172 | PSD | 64 | 6 |
| 0726171 | BB | 134 | 34 | 0726172 | PSD | 85 | 14 |
| 0726171 | BB | 108 | 16 | 0726172 | PSD | 89 | 15 |
| 0726171 | BB | 135 | 33 | 0726172 | PSD | 90 | 16 |
| 0726172 | RT | 543 | 2495 | 0726172 | PSD | 82 | 13 |
| 0726172 | BB | 36 | 1 | 0726172 | GSH | 104 | 14 |
| 0726172 | BB | 300 | 436 | 0726172 | GSH | 93 | 17 |
| 0726172 | BB | 301 | 391 | 0726172 | GSH | 122 | 21 |
| 0726172 | BB | 173 | 73 | 0726172 | GSH | 96 | 11 |
| 0726172 | BB | 168 | 63 | 0726172 | GSH | 19 | |
| 0726172 | BB | 160 | 57 | 0726172 | GSH | 83 | 7 |
| 0726172 | BB | 175 | 82 | 0726172 | GSH | 87 | 6 |
| 0726172 | BB | 166 | 67 | 0726172 | GSH | 122 | 20 |
| 0726172 | BB | 166 | 67 | 0726172 | GSH | 20 | |
| 0726172 | BB | 177 | 76 | 0726172 | GSH | 23 | |
| 0726172 | BB | 116 | 21 | 0726172 | GSH | 130 | 25 |
| 0726172 | BB | 97 | 12 | 0726172 | GSH | 109 | 13 |
| 0726172 | PSD | 100 | 21 | 0726172 | GSH | 140 | 34 |
| 0726172 | PSD | 103 | 22 | 0726172 | GSH | 155 | 46 |
| 0726172 | PSD | 96 | 17 | 0726172 | GSH | 115 | 10 |
| 0726172 | PSD | 95 | | 0726172 | GSH | 125 | 16 |
| 0726172 | PSD | 84 | 13 | 0726172 | GSH | 107 | 14 |
| 0726172 | PSD | 72 | 9 | 0726172 | GSH | 134 | 25 |
| 0726172 | PSD | 64 | 7 | 0726172 | GSH | 109 | 11 |
| 0726172 | PSD | 60 | 5 | 0726172 | GSH | 119 | |
| 0726172 | PSD | 74 | 9 | 0726172 | GSH | 140 | |
| 0726172 | PSD | 64 | 6 | 0726172 | GSH | 107 | |
| 0726172 | PSD | 67 | 7 | 0726172 | GSH | 116 | |
| 0726172 | PSD | 57 | 6 | 0726172 | GSH | 111 | |
| 0726172 | PSD | 92 | 15 | 0726172 | GSH | 100 | |
| 0726172 | PSD | 81 | 13 | 0726172 | GSH | 111 | |
| 0726172 | PSD | 54 | 5 | 0726172 | GSH | 110 | |
| 0726172 | PSD | 99 | 23 | 0726172 | GSH | 85 | |
| 0726172 | PSD | 95 | 20 | 0726172 | GSH | 108 | |
| 0726172 | PSD | 93 | 19 | 0726172 | GSH | 101 | |
| 0726172 | PSD | 63 | 6 | 0726172 | LMB | 135 | 38 |
| 0726172 | PSD | 58 | 5 | 0726172 | LMB | 195 | 113 |
| 0726172 | PSD | 106 | 25 | 0726172 | LMB | 114 | 161 |
| 0726172 | PSD | 64 | 5 | 0726172 | LMB | 196 | 116 |
| 0726172 | PSD | 84 | 14 | 0726172 | LMB | 221 | 195 |
| 0726172 | PSD | 77 | 11 | 0726172 | LMB | 305 | 436 |
| 0726172 | PSD | 80 | 13 | 0726173 | LMB | 406 | 1118 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0726173 | LMB | 183 | 86 | 0726173 | GSH | 71 | 3 |
| 0726173 | LMB | 129 | | 0726173 | GSH | 84 | 5 |
| 0726173 | LMB | 63 | | 0726173 | GSH | 75 | 5 |
| 0726173 | LMB | 275 | 370 | 0726173 | GSH | 88 | 7 |
| 0726173 | LMB | 228 | 210 | 0726173 | GSH | 88 | 8 |
| 0726173 | LMB | 160 | 61 | 0726173 | GSH | 79 | 3 |
| 0726173 | LMB | 137 | | 0726173 | GSH | 91 | 7 |
| 0726173 | LMB | 205 | 136 | 0726173 | GSH | 83 | 6 |
| 0726173 | LMB | 154 | 59 | 0726173 | GSH | 81 | 5 |
| 0726173 | LMB | 418 | 1350 | 0726173 | GSH | 92 | 8 |
| 0726173 | LMB | 324 | 520 | 0726173 | GSH | 80 | 4 |
| 0726173 | LMB | 221 | 190 | 0726173 | GSH | 78 | 4 |
| 0726173 | LMB | 185 | 104 | 0726173 | GSH | 76 | 4 |
| 0726173 | LMB | 140 | | 0726173 | GSH | 80 | 6 |
| 0726173 | LMB | 150 | 48 | 0726173 | GSH | 77 | 3 |
| 0726173 | LMB | 159 | 60 | 0726173 | GSH | 90 | 9 |
| 0726173 | LMB | 145 | | 0726173 | GSH | 80 | 6 |
| 0726173 | LMB | 197 | 135 | 0726173 | PSD | 124 | 39 |
| 0726173 | LMB | 171 | 76 | 0726173 | PSD | 114 | 29 |
| 0726173 | LMB | 136 | | 0726173 | PSD | 140 | 63 |
| 0726173 | LMB | 129 | | 0726173 | PSD | 111 | 30 |
| 0726173 | LMB | 130 | | 0726173 | PSD | 105 | 27 |
| 0726173 | LMB | 155 | 66 | 0726173 | PSD | 112 | 32 |
| 0726173 | LMB | 119 | | 0726173 | PSD | 109 | 27 |
| 0726173 | LMB | 175 | 86 | 0726173 | PSD | 118 | 37 |
| 0726173 | LMB | 198 | 147 | 0726173 | PSD | 90 | 17 |
| 0726173 | LMB | 167 | 69 | 0726173 | PSD | 85 | 13 |
| 0726173 | LMB | 169 | 79 | 0726173 | PSD | 91 | 18 |
| 0726173 | LMB | 186 | 105 | 0726173 | PSD | 73 | |
| 0726173 | GSH | 84 | 5 | 0726173 | PSD | 107 | 26 |
| 0726173 | GSH | 85 | 7 | 0726173 | PSD | 127 | 41 |
| 0726173 | GSH | 84 | 6 | 0726173 | PSD | 102 | 23 |
| 0726173 | GSH | 74 | 3 | 0726173 | PSD | 125 | 38 |
| 0726173 | GSH | 88 | 7 | 0726173 | PSD | 106 | 27 |
| 0726173 | GSH | 73 | 4 | 0726173 | PSD | 95 | 19 |
| 0726173 | GSH | 83 | 6 | 0726173 | PSD | 115 | 34 |
| 0726173 | GSH | 86 | 6 | 0726173 | PSD | 117 | 32 |
| 0726173 | GSH | 72 | 3 | 0726173 | PSD | 97 | 19 |
| 0726173 | GSH | 77 | | 0726173 | PSD | 11 | 33 |
| 0726173 | GSH | 73 | | 0726173 | PSD | 100 | 21 |
| 0726173 | GSH | 92 | 10 | 0726173 | PSD | 123 | 40 |
| 0726173 | GSH | 79 | 4 | 0726173 | PSD | 103 | 21 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0726173 | PSD | 96 | 18 | 0725176 | BB | 101 | 13.5 |
| 0726173 | PSD | 101 | 20 | 0725176 | BB | 172 | 71.8 |
| 0726173 | PSD | 112 | 29 | 0725176 | BB | 98 | 12.3 |
| 0726173 | PSD | 103 | 24 | 0725176 | BB | 82 | 8.9 |
| 0726173 | PSD | 106 | 22 | 0725176 | BB | 97 | 11.5 |
| 0726173 | PSD | 154 | 83 | 0725176 | BB | 93 | 10.5 |
| 0726173 | BB | 128 | 28 | 0725176 | BB | 102 | 17.2 |
| 0726173 | BB | 228 | 155 | 0725176 | BB | 105 | 15 |
| 0726173 | BB | 126 | 31 | 0725176 | BB | 101 | 14 |
| 0726173 | BB | 166 | 71 | 0725176 | BB | 86 | 11.3 |
| 0726173 | BB | 174 | 90 | 0725176 | BB | 75 | 7.3 |
| 0726173 | BB | 295 | 450 | 0725176 | BB | 158 | 51.3 |
| 0726173 | BB | 177 | 96 | 0725176 | BB | 155 | 46.8 |
| 0726173 | BB | 183 | 105 | 0725176 | GSH | 93 | 8.6 |
| 0726173 | BB | 182 | 92 | 0725176 | GSH | 90 | 7.4 |
| 0726173 | BB | 160 | 62 | 0725176 | GSH | 88 | 6 |
| 0726173 | BB | 213 | 145 | 0725176 | GSH | 75 | 3.6 |
| 0726173 | BB | 163 | 63 | 0725176 | GSH | 79 | 5.3 |
| 0726173 | BB | 105 | 24 | 0725176 | GSH | 87 | 6 |
| 0726173 | BB | 181 | 88 | 0725176 | GSH | 70 | 1.2 |
| 0726173 | BB | 244 | 268 | 0725176 | GSH | 82 | 2.3 |
| 0726173 | BB | 330 | 583 | 0725176 | GSH | 82 | 4.9 |
| 0726173 | BB | 193 | 107 | 0725176 | GSH | 73 | 4.5 |
| 0726173 | BB | 190 | 105 | 0725176 | GSH | 97 | 10 |
| 0726173 | BB | 188 | 112 | 0725176 | GSH | 97 | 7.5 |
| 0726173 | BB | 192 | 112 | 0725176 | GSH | 81 | 2.2 |
| 0726173 | BB | 285 | 338 | 0725176 | GSH | 86 | 4.7 |
| 0726173 | BB | 171 | 86 | 0725176 | GSH | 90 | 6.7 |
| 0726173 | BB | 160 | 72 | 0725176 | GSH | 99 | 7.9 |
| 0726173 | BB | 200 | 130 | 0725176 | GSH | 86 | 3.4 |
| 0726173 | BB | 184 | 99 | 0725176 | GSH | 77 | 5 |
| 0726173 | BB | 187 | 107 | 0725176 | GSH | 83 | 4.7 |
| 0726173 | BB | 136 | 41 | 0725176 | GSH | 97 | 7.2 |
| 0726173 | BB | 101 | 14 | 0725176 | GSH | 106 | 8 |
| 0726173 | BB | 193 | 102 | 0725176 | GSH | 84 | 4.2 |
| 0726173 | BB | 207 | 143 | 0725176 | GSH | 83 | 5.5 |
| | | | | 0725176 | GSH | 80 | 4.7 |

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| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725176 | BB | 85 | 6.6 | 0725176 | GSH | 61 | 2.7 |
| 0725176 | BB | 95 | 11.1 | 0725176 | GSH | 76 | 3.4 |
| 0725176 | BB | 86 | 9.2 | 0725176 | GSH | 98 | 7.7 |
| | | | | 0725176 | GSH | 84 | 4.7 |
| | | | | 0725176 | GSH | 98 | 7.3 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725176 | GSH | 78 | 3.5 | 0725176 | PSD | 64 | 4.3 |
| 0725176 | GSH | 86 | 5.1 | 0725176 | PSD | 72 | 6.7 |
| 0725176 | GSH | 53 | 1.2 | 0725176 | PSD | 70 | 5.5 |
| 0725176 | GSH | 56 | 1.4 | 0725176 | PSD | 78 | 8.2 |
| 0725176 | GSH | 66 | 2.3 | 0725176 | PSD | 74 | 8.2 |
| 0725176 | GSH | 62 | 1.8 | 0725176 | PSD | 69 | 5.4 |
| 0725176 | GSH | 63 | 1.8 | 0725176 | PSD | 64 | 4.2 |
| 0725176 | GSH | 70 | 3 | 0725176 | PSD | 94 | 22.9 |
| 0725176 | GSH | 66 | 1.1 | 0725176 | RT | 53 | 1.1 |
| 0725176 | GSH | 55 | 1.3 | 0725176 | RT | 66 | 1.4 |
| 0725176 | GSH | 66 | 2 | 0725176 | RT | 61 | 2.1 |
| 0725176 | GSH | 64 | 2.3 | 0725176 | RT | 57 | 2.5 |
| 0725176 | GSH | 72 | 3.1 | 0725176 | RT | 60 | 2 |
| 0725176 | GSH | 67 | 2.3 | 0725176 | RT | 67 | 2.6 |
| 0725176 | GSH | 57 | 1.4 | 0725176 | RT | 67 | 3.1 |
| 0725176 | GSH | 61 | 1.9 | 0726175 | PSD | 65 | 6.5 |
| 0725176 | GSH | 51 | | 0726175 | PSD | 88 | 15.1 |
| 0725176 | GSH | 60 | 0.9 | 0726175 | PSD | 72 | 6.1 |
| 0725176 | GSH | 60 | 1.5 | 0726175 | PSD | 86 | 15.1 |
| 0725176 | GSH | 93 | 7.4 | 0726175 | PSD | 96 | 21 |
| 0725176 | GSH | 64 | 2.7 | 0726175 | PSD | 67 | 5.4 |
| 0725176 | GSH | 77 | 4.1 | 0726175 | GSH | 113 | |
| 0725176 | GSH | 93 | 5.3 | 0726175 | GSH | 80 | 4.8 |
| 0725176 | GSH | 47 | 0.4 | 0726175 | GSH | 89 | 7.2 |
| 0725176 | GSH | 80 | 3.2 | 0726175 | GSH | 87 | 6.3 |
| 0725176 | GSH | 50 | 0.7 | 0726175 | GSH | 102 | 7.5 |
| 0725176 | GSH | 45 | 0.4 | 0726175 | GSH | 88 | 6 |
| 0725176 | PSD | 86 | 9.4 | 0726175 | GSH | 74 | 3.5 |
| 0725176 | PSD | 65 | 4.2 | 0726175 | GSH | 76 | 4.5 |
| 0725176 | PSD | 77 | 7.8 | 0726175 | GSH | 102 | 13.6 |
| 0725176 | PSD | 76 | 8.3 | 0726175 | GSH | 102 | 13.6 |
| 0725176 | PSD | 73 | 7.4 | 0726175 | RT | 502 | 1659 |
| 0725176 | PSD | 72 | 6.3 | 0726175 | BB | 234 | 193.8 |
| 0725176 | PSD | 68 | 5.7 | 0726175 | BB | 125 | 30.2 |
| 0725176 | PSD | 70 | 6.2 | 0726175 | BB | 84 | 9.4 |
| 0725176 | PSD | 70 | 6.4 | 0725177 | RT | 122 | 18 |
| 0725176 | PSD | 70 | 5.7 | 0725177 | RT | 49 | 2 |
| 0725176 | PSD | 77 | 8.1 | 0725177 | RT | 62 | 2 |
| 0725176 | PSD | 71 | 6.4 | 0725177 | RT | 108 | 12 |
| 0725176 | PSD | 69 | 6.8 | 0725177 | RT | 120 | 16 |
| 0725176 | PSD | 67 | 5.1 | 0725177 | RT | 172 | 54 |
| 0725176 | PSD | 61 | 3.3 | 0725177 | RT | 114 | 13 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0725177 | RT | 122 | 18 | 0726176 | RT | 96 | 9 |
| 0725177 | RT | 135 | 23 | 0726176 | RT | 48 | 1 |
| 0725177 | RT | 115 | 12 | 0726176 | RT | 145 | 26 |
| 0725177 | RT | 131 | 21 | 0726176 | RT | 107 | 14 |
| 0725177 | RT | 112 | 14 | 0726176 | RT | 41 | 1 |
| 0725177 | RT | 50 | 1 | 0726176 | RT | 120 | 18 |
| 0725177 | RT | 138 | 24 | 0726176 | RT | 51 | 1 |
| 0725177 | RT | 142 | 28 | 0726176 | RT | 123 | 16 |
| 0725177 | RT | 134 | 20 | 0726176 | RT | 98 | 10 |
| 0725177 | RT | 104 | 10 | 0726176 | RT | 107 | 13 |
| 0725177 | RT | 103 | 9 | 0726176 | RT | 92 | 8 |
| 0725177 | RT | 55 | 1 | 0726176 | RT | 221 | 110 |
| 0725177 | RT | 49 | 1 | 0726176 | RT | 232 | 111 |
| 0725177 | RT | 52 | 2 | 0726176 | RT | 112 | 10 |
| 0725177 | RT | 49 | 1 | 0726176 | RT | 41 | 1 |
| 0725177 | RT | 48 | 1 | 0726176 | RT | 125 | 16 |
| 0725177 | RT | 135 | 22 | 0726176 | RT | 135 | 23 |
| 0725177 | RT | 138 | 22 | 0726176 | RT | 130 | 24 |
| 0725177 | RT | 115 | 14 | 0726176 | RT | 110 | 10 |
| 0725177 | RT | 153 | 33 | 0726176 | RT | 122 | 19 |
| 0725177 | RT | 112 | 13 | 0726176 | RT | 101 | 9 |
| 0725177 | RT | 107 | 12 | 0726176 | RT | 101 | 10 |
| 0725177 | RT | 96 | 9 | 0726176 | RT | 116 | 13 |
| 0725177 | GSH | 76 | 3 | 0726176 | RT | 46 | 1 |
| 0725177 | GSH | 80 | 6 | 0726177 | GSH | 76 | 4.2 |
| 0725177 | GSH | 73 | 3 | 0726177 | GSH | 91 | 8.3 |
| 0725177 | GSH | 77 | 4 | 0726177 | GSH | 92 | 8.6 |
| 0725177 | GSH | 55 | 2 | 0726177 | GSH | 78 | 4.7 |
| 0725177 | GSH | 65 | 2 | 0726177 | GSH | 93 | 7.9 |
| 0725177 | GSH | 66 | 3 | 0726177 | GSH | 82 | 4.8 |
| 0725177 | GSH | 63 | 2 | 0726177 | GSH | 88 | 6.6 |
| 0725177 | GSH | 67 | 2 | 0726177 | GSH | 110 | 12.3 |
| 0725177 | GSH | 75 | 4 | 0726177 | GSH | 85 | 5.3 |
| 0725177 | GSH | 69 | 4 | 0726177 | GSH | 75 | 4.2 |
| 0725177 | GSH | 73 | 3 | 0726177 | GSH | 79 | 5.2 |
| 0725177 | GSH | 83 | 6 | 0726177 | GSH | 84 | 6 |
| 0726176 | RT | 140 | 24 | 0726177 | GSH | 82 | 5.4 |
| 0726176 | RT | 95 | 8 | 0726177 | GSH | 94 | 8.2 |
| 0726176 | RT | 113 | 13 | 0726177 | GSH | 82 | 6 |
| 0726176 | RT | 108 | 15 | 0726177 | GSH | 86 | 6.1 |
| 0726176 | RT | 111 | 17 | 0726177 | GSH | 70 | 2.3 |
| 0726176 | RT | 136 | 23 | 0726177 | GSH | 63 | 2 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight | Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
| 0726177 | GSH | 66 | 2.4 | 0726177 | RT | 148 | 36.1 |
| 0726177 | GSH | 83 | 5.2 | 0727172 | RT | 113 | 17.5 |
| 0726177 | GSH | 95 | 8.3 | 0727172 | RT | 160 | 52.6 |
| 0726177 | GSH | 92 | 7.9 | 0727172 | RT | 122 | 21.6 |
| 0726177 | GSH | 93 | 8.5 | 0727172 | RT | 105 | 15.9 |
| 0726177 | GSH | 104 | 12.1 | 0727172 | RT | 85 | 8.1 |
| 0726177 | GSH | 85 | 5.3 | 0727172 | RT | 167 | 61.4 |
| 0726177 | GSH | 83 | 5.5 | 0727172 | RT | 131 | 22.8 |
| 0726177 | GSH | 81 | 4.8 | 0727172 | RT | 106 | 14.1 |
| 0726177 | GSH | 82 | 5 | 0727172 | RT | 112 | 18.3 |
| 0726177 | GSH | 66 | 4 | 0727172 | RT | 130 | 31.7 |
| 0726177 | GSH | 75 | 4.1 | 0727172 | RT | 125 | 23.5 |
| 0726177 | RT | 48 | 0.6 | 0727172 | RT | 105 | 13.3 |
| 0726177 | RT | 227 | 123.3 | 0727172 | RT | 116 | 20.6 |
| 0726177 | RT | 100 | 11.5 | 0727172 | RT | 176 | 76.7 |
| 0726177 | RT | 102 | 11.4 | 0727172 | RT | 106 | 15.2 |
| 0726177 | RT | 50 | 1.6 | 0727172 | RT | 99 | 15.3 |
| 0726177 | RT | 56 | 3.3 | 0727172 | RT | 122 | 19.6 |
| 0726177 | RT | 57 | 2.4 | 0727172 | RT | 120 | 23.3 |
| 0726177 | RT | 146 | 34.1 | 0727172 | RT | 131 | 29.6 |
| 0726177 | RT | 48 | 1.1 | 0727172 | RT | 118 | 24.7 |
| 0726177 | RT | 54 | 1.6 | 0727172 | RT | 96 | 9.5 |
| 0726177 | RT | 165 | 46.8 | 0727172 | RT | 116 | 21.1 |
| 0726177 | RT | 55 | 3.3 | 0727172 | RT | 118 | 18.6 |
| 0726177 | RT | 52 | 3.4 | 0727172 | RT | 96 | 10.7 |
| 0726177 | RT | 58 | 2.2 | 0727172 | RT | 112 | 17.1 |
| 0726177 | RT | 51 | 2 | 0727172 | RT | 122 | 24 |
| 0726177 | RT | 52 | 2.4 | 0727172 | RT | 114 | 17 |
| 0726177 | RT | 50 | 2.1 | 0727172 | RT | 126 | 27.1 |
| 0726177 | RT | 52 | 1.5 | 0727172 | RT | 114 | 12.3 |
| 0726177 | RT | 53 | 1.3 | 0727172 | RT | 112 | 16.5 |
| 0726177 | RT | 50 | 1.5 | 0727172 | RT | 445 | 868.9 |
| 0726177 | RT | 280 | 218.1 | 0727173 | RT | 153 | 50 |
| 0726177 | RT | 118 | 19.4 | 0727173 | RT | 260 | 224 |
| 0726177 | RT | 265 | 199.9 | 0727173 | RT | 70 | 2 |
| 0726177 | RT | 161 | 40.3 | 0727173 | RT | 50 | 3 |
| 0726177 | RT | 123 | 22.5 | 0727173 | RT | 67 | 2 |
| 0726177 | RT | 272 | 210.4 | 0727173 | RT | 50 | 1 |
| 0726177 | RT | 215 | 92 | 0727173 | RT | 58 | 2 |
| 0726177 | RT | 199 | 70.2 | 0727173 | RT | 56 | 2 |
| 0726177 | RT | 195 | 80.3 | 0727173 | RT | 51 | 1 |
| 0726177 | RT | 146 | 34.1 | 0727173 | RT | 62 | 2 |

Appendix B. Length and Weight Data

| Event | Species | Length | Weight |
|--------------|----------------|---------------|---------------|
| 0727173 | RT | 42 | 1 |
| 0727173 | RT | 60 | 2 |
| 0727173 | RT | 58 | 2 |
| 0727173 | RT | 59 | 2 |
| 0727173 | RT | 47 | 1 |
| 0727173 | RT | 45 | 1 |
| 0727173 | RT | 194 | 79 |
| 0727173 | RT | 54 | 2 |
| 0727173 | RT | 48 | 1 |
| 0727173 | RT | 56 | 2 |
| 0727173 | RT | 48 | 1 |
| 0727173 | RT | 52 | 1 |
| 0727173 | RT | 61 | 2 |
| 0727173 | RT | 47 | 1 |
| 0727173 | RT | 52 | 1 |
| 0727173 | RT | 50 | 2 |
| 0727173 | RT | 53 | 2 |
| 0727173 | RT | 57 | 2 |
| 0727173 | RT | 53 | 2 |
| 0727173 | RT | 53 | 2 |