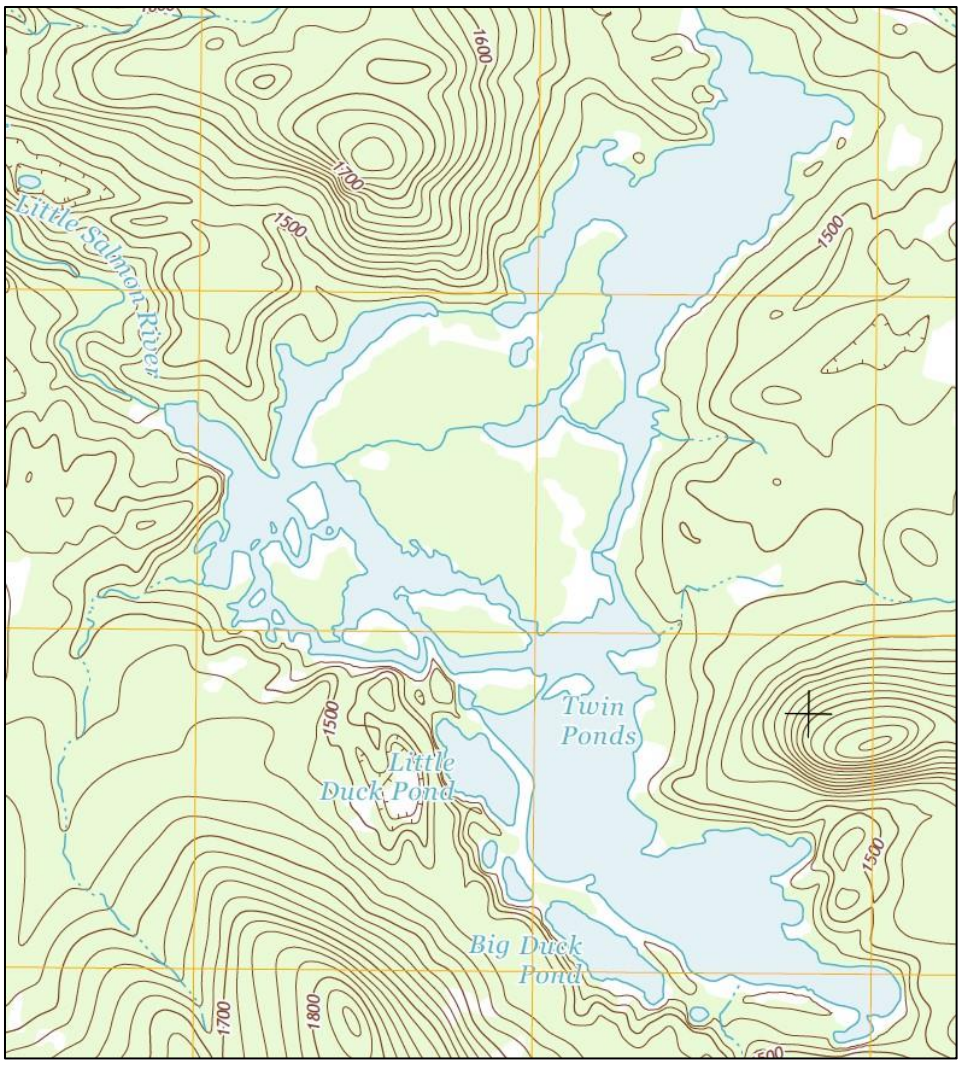
Twin Ponds Preserve

Spring 2024 Fisheries Report

May 2024



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I. Introduction

New Brandon Fisheries carried out the spring 2024 netting survey of Twin Ponds from May 6th through May 10th. Four modified Oneida-style trap nets with 100-foot leaders and 25-foot wings were set in the following locations: Outlet/Dam (Little Salmon Headwaters), Lean-to Point (Lower Twin Pond), Twin Point Inlet (Upper Twin Pond) and Rock Bar (Spring Pond). Image 1 details the locations of the net sites, as indicated by red dots. Nets were Set on Monday, tended on Wednesday, and tended and pulled on Friday. All brook trout were weighed, measured, and released live back into the pond. These fish were also given a discreet fin clip on the upper caudal fin to facilitate their identification as being a recaptured fish during the second tend of the nets. All non-salmonids captured during the survey were removed from the pond and disposed of off-site. Of these fish, the first 25 individuals sampled of each species were measured and weighed. Any further non-salmonid species sampled during the survey were separated by species and weighed in bulk.

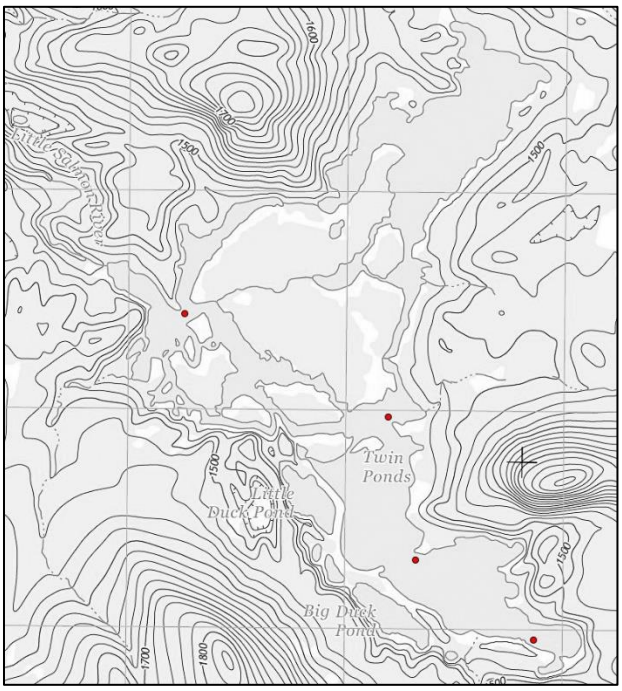

Image 1 – Twin Ponds 2024 netting survey sites

II. Results

The spring 2024 netting survey of Twin Ponds resulted in the capture of 51 brook trout (*Salvelinus fontinalis*) over the course of 16 net nights. Of these fish, the average size measured 14.5 inches and weighed 1.22 pounds. The largest fish in the sample measured 20.1 inches and weighed 2.80 pounds. The majority of brook trout (26 fish, 50.98 percent of the total) measured over 15.0 inches. There were only 9 fish (17.65 percent of the total) measuring less than 12.0 inches. None of the brook trout in the sample were identified as having been recaptured from one net tend to the next. The brook trout were noted as being in good health, though black spot was noted on a few of the fish. Black spot is a commonly occurring, non-lethal parasitic flatworm. While potentially unsightly, there is no risk in consuming properly prepared fish with black spot.

Image 2 – One of the largest brook trout in the survey sample, captured in the Twin Point Inlet set, May 8, 2024

The spring 2024 netting survey also resulted in the removal of 1,898.57 pounds of non-salmonid species. The majority of these fish (58.66 percent of the total weight removed) were white sucker (*Catostomus commersonii*). Brown bullhead (*Ameiurus nebulosus*) came in a close second (41.29 percent of the total weight removed), with a few pumpkinseed (*Lepomis gibbosus*) and creek chub (*Semotilus atromaculatus*) rounding out the totals. Appendices 1 and 2 provide the summary and netting data from the spring 2024 netting of Twin Ponds.

III. Discussion

Trap net surveys are not always indicative of the total number of fish in a pond. Often the results speak more to fish abundance within the vicinity of the net sites on the survey days. In Twin Ponds the results may have been impacted by the sheer size of the area which fish may occupy. For example, no nets were set in the northeastern bay of the pond (south east of Limekiln Mountain), which appears on a map to be large enough to easily accommodate two more nets. Unfortunately, the logistics of setting six nets are problematic due to the amount of time and effort required for such an undertaking. That being said, the current netting results do allow for a reasonable analysis of the current fishery.

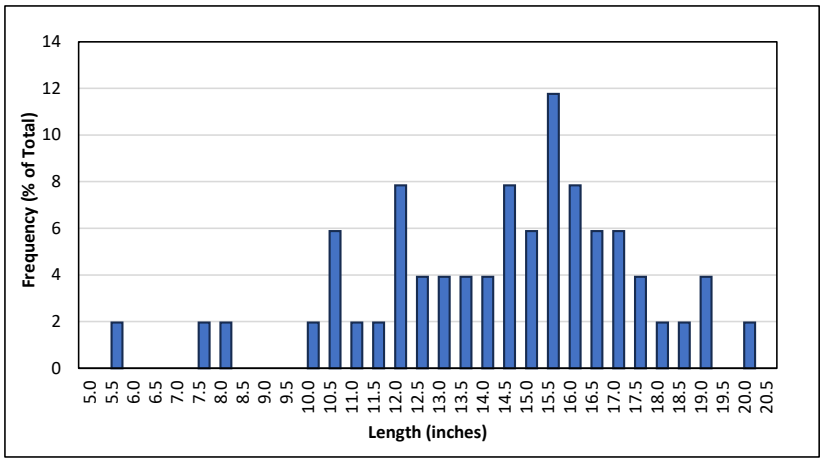

Table 1 - Twin Ponds Brook Trout Length Frequency, Spring 2024

It would appear the brook trout population favors fish on the larger end of the scale. Table 1 illustrates the frequency of brook trout based on length. Peaks and valleys in length frequency graphs usually delineate distinct age cohorts. Table 1 indicates at least four year classes of brook trout, with the majority of those being represented by older fish. The apparent lack of young-of-year fish necessary to replace older ones as they leave the population is concerning. The likely cause for the current population dynamic is two-fold. First, as pond and lake dwelling brook trout grow into larger size classes, their diet typically shifts from insects to other fish, including smaller brook trout. Normally, there would be enough small fish to accommodate the larger ones as well as providing recruitment for future generations. However, when large numbers of non-salmonid species are present, they can be detrimental to brook trout numbers overall.

Brook trout are often outcompeted and predated upon by non-salmonid species. Current netting results suggest abundance of white sucker and brown bullhead is a primary controlling factor in the Twin Ponds fishery. Only those brook trout that reach larger size have the ability to compete with the volume of non-salmonids in the pond, which is why the majority of brook trout in the survey sample were greater than 12.0 inches in length (83.25 percent of the total). The large brook trout obviously have some degree of spawning success in the pond, given the last brook

trout stocking was in 2009. However, predation pressure on young trout is likely suppressing the overall brook trout population.

IV. Recommendations

Fortunately, the non-salmonid assemblage in Twin Ponds is of a type that is susceptible to being captured in trap nets. Unfortunately, spawning numbers favor non-salmonids, with brown bullhead laying up to 10,000 eggs and white sucker laying up to 20,000 eggs per season (spring). Brook trout, in contrast, spawn between 400 and 2,000 eggs per season (fall). In the numbers game, brook trout aren't winning. That being said, targeting non-salmonid populations in the spring before they have a chance to spawn can suppress them enough to result in positive gains in brook trout numbers. To be clear, elimination of non-salmonid species is typically not possible through removal nettings alone and cessation of annual removal nettings can result in pre-removal populations quite quickly. This is to say, positive results are dependent on the implementation of an annual, long-term strategy. Starting in spring 2025, New Brandon Fisheries could implement an extended spring removal netting for a total of 11 net nights (as opposed to the 4 net nights carried out this year). The results of this extended survey would then be used to adjust the strategy for subsequent years.

Image 3 – Setting the trap nets, May 6, 2024

In addition to removing non-salmonids, the introduction of young brook trout through an annual fall stocking program would help bolster the population and provide insurance against future loss. Twin Ponds was annually stocked from 1982 through 1993 and intermittently stocked from 1998 through 2009. The fact that a population of brook trout survived from 2009 through 2024 is a testament to the presence of suitable conditions for brook trout growth and survival in Twin Ponds. With the extra numbers provided through stocking, the brook trout population could rebound quickly, especially as non-salmonid numbers are being reduced. Fall stocking totals could be adjusted based on the results of spring netting surveys. For fall 2024, a total of 2,000 Temiscamie x Domestic hybrid strain brook trout should be stocked. This is the same hybrid strain that was stocked beginning in 1990 through 1993 and again from 1998 through 2009. While the Twin Ponds system is large enough to probably support higher stocking totals, this seems a reasonable starting point until more data comes in to suggest otherwise.

Appendix 1 – Twin Ponds Spring 2024 Netting Summary

Species	Size	Sample	Tot Ln	Tot Wt	Avg Ln	Avg Wt
Brook Trout	<7"	1	5.7	0.06	5.7	0.06
Brook Trout	7"-10"	2	15.6	0.34	7.8	0.17
Brook Trout	10"-12"	6	64.9	3.58	10.8	0.60
Brook Trout	12"-15"	16	214.5	14.07	13.4	0.88
Brook Trout	>15"	26	436.8	44.30	16.8	1.70
Brook Trout	All	51	737.5	62.35	14.5	1.22

Species	Status	Sample	Tot Ln	Tot Wt	Avg Ln	Avg Wt
Brown Bullhead	Removed	25	139.7	2.30	5.6	0.09
				781.70		
	Total			784.00		
Creek Chub	Removed	2	15.0	0.33	7.5	0.17
Pumpkinseed	Removed	11	44.4	0.50	4.0	0.05
White Sucker	Removed	25	211.5	7.44	8.5	0.30
				1106.30		
	Total			1113.74		
Tot. Wt. Removed				1898.57		

Appendix 2 – Twin Ponds Spring 2024 Netting Data

Species	Length	Weight	Mass Wts	Net Site	Date	Temp
Brook Trout	10.8	0.48		Lean-to Point	5/8/2024	57
Brook Trout	11.5	0.57		Lean-to Point	5/8/2024	57
Brook Trout	13.5	0.98		Lean-to Point	5/8/2024	57
Brook Trout	10.0	0.98		Lean-to Point	5/8/2024	57
Brook Trout	11.2	0.50		Lean-to Point	5/8/2024	57
Brook Trout	16.3	1.59		Twin Point Inlet	5/8/2024	57
Brook Trout	15.8	1.38		Twin Point Inlet	5/8/2024	57
Brook Trout	16.1	1.36		Twin Point Inlet	5/8/2024	57
Brook Trout	19.0	2.60		Twin Point Inlet	5/8/2024	57
Brook Trout	10.8	0.59		Twin Point Inlet	5/8/2024	57
Brook Trout	20.1	2.80		Twin Point Inlet	5/8/2024	57
Brook Trout	15.9	1.50		Twin Point Inlet	5/8/2024	57
Brook Trout	16.1	1.41		Twin Point Inlet	5/8/2024	57
Brook Trout	17.6	1.70		Twin Point Inlet	5/8/2024	57
Brook Trout	13.3	0.84		Twin Point Inlet	5/8/2024	57
Brook Trout	12.4	0.73		Twin Point Inlet	5/8/2024	57
Brook Trout	15.5	1.30		Twin Point Inlet	5/8/2024	57
Brook Trout	16.5	1.77		Twin Point Inlet	5/8/2024	57
Brook Trout	16.9	1.67		Twin Point Inlet	5/8/2024	57
Brook Trout	17.0	1.89		Twin Point Inlet	5/8/2024	57
Brook Trout	15.6	1.33		Twin Point Inlet	5/8/2024	57
Brook Trout	13.4	0.88		Twin Point Inlet	5/8/2024	57
Brook Trout	14.5	1.04		Twin Point Inlet	5/8/2024	57
Brook Trout	14.7	0.98		Twin Point Inlet	5/8/2024	57
Brook Trout	12.1	0.64		Rock Bar	5/8/2024	57
Brook Trout	8.0	0.19		Rock Bar	5/8/2024	57
Brook Trout	14.1	1.00		Rock Bar	5/8/2024	57
Brook Trout	12.0	0.63		Rock Bar	5/8/2024	57
Brook Trout	12.8	0.83		Rock Bar	5/8/2024	57
Brook Trout	16.4	1.45		Rock Bar	5/8/2024	57
Brook Trout	17.3	1.76		Rock Bar	5/8/2024	57
Brook Trout	15.6	1.24		Lean-to Point	5/10/2024	55
Brook Trout	7.6	0.15		Lean-to Point	5/10/2024	55
Brook Trout	10.6	0.45		Lean-to Point	5/10/2024	55
Brook Trout	18.4	2.20		Lean-to Point	5/10/2024	55
Brook Trout	15.9	1.41		Lean-to Point	5/10/2024	55
Brook Trout	17.8	2.10		Twin Point Inlet	5/10/2024	55
Brook Trout	13.6	1.06		Twin Point Inlet	5/10/2024	55
Brook Trout	14.6	0.97		Twin Point Inlet	5/10/2024	55
Brook Trout	12.0	0.56		Twin Point Inlet	5/10/2024	55
Brook Trout	16.9	1.70		Twin Point Inlet	5/10/2024	55
Brook Trout	17.1	1.60		Twin Point Inlet	5/10/2024	55
Brook Trout	18.7	2.15		Twin Point Inlet	5/10/2024	55
Brook Trout	19.0	2.40		Twin Point Inlet	5/10/2024	55
Brook Trout	14.1	0.90		Twin Point Inlet	5/10/2024	55
Brook Trout	14.5	1.14		Twin Point Inlet	5/10/2024	55
Brook Trout	12.9	0.88		Twin Point Inlet	5/10/2024	55
Brook Trout	15.0	1.40		Twin Point Inlet	5/10/2024	55
Brook Trout	15.3	1.23		Twin Point Inlet	5/10/2024	55
Brook Trout	5.7	0.06		Twin Point Inlet	5/10/2024	55

Brook Trout	15.0	1.36		Rock Bar	5/10/2024	55
White Sucker	9.9	0.39		Outlet Dam	5/8/2024	57
White Sucker	7.9	0.21		Outlet Dam	5/8/2024	57
White Sucker	10.0	0.41		Outlet Dam	5/8/2024	57
White Sucker	8.6	0.23		Outlet Dam	5/8/2024	57
White Sucker	8.2	0.20		Outlet Dam	5/8/2024	57
White Sucker	7.4	0.18		Outlet Dam	5/8/2024	57
White Sucker	7.7	0.19		Outlet Dam	5/8/2024	57
White Sucker	6.9	0.15		Outlet Dam	5/8/2024	57
White Sucker	9.0	0.34		Outlet Dam	5/8/2024	57
White Sucker	5.5	0.06		Outlet Dam	5/8/2024	57
White Sucker	5.7	0.07		Outlet Dam	5/8/2024	57
White Sucker	4.6	0.04		Outlet Dam	5/8/2024	57
White Sucker	14.5	1.24		Outlet Dam	5/8/2024	57
White Sucker	12.0	0.70		Outlet Dam	5/8/2024	57
White Sucker	10.5	0.47		Outlet Dam	5/8/2024	57
White Sucker	9.0	0.34		Outlet Dam	5/8/2024	57
White Sucker	9.0	0.31		Outlet Dam	5/8/2024	57
White Sucker	8.5	0.20		Outlet Dam	5/8/2024	57
White Sucker	6.6	0.13		Outlet Dam	5/8/2024	57
White Sucker	5.9	0.06		Outlet Dam	5/8/2024	57
White Sucker	6.9	0.14		Outlet Dam	5/8/2024	57
White Sucker	6.2	0.09		Outlet Dam	5/8/2024	57
White Sucker	8.0	0.16		Outlet Dam	5/8/2024	57
White Sucker	11.5	0.57		Outlet Dam	5/8/2024	57
White Sucker	11.5	0.56		Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57
White Sucker			3.5	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			3.5	Outlet Dam	5/8/2024	57
White Sucker			2.6	Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57
White Sucker			4.0	Outlet Dam	5/8/2024	57
White Sucker			3.5	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57
White Sucker			3.0	Outlet Dam	5/8/2024	57
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White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			2.8	Outlet Dam	5/8/2024	57

White Sucker			3.5	Outlet Dam	5/8/2024	57
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White Sucker			2.8	Outlet Dam	5/8/2024	57
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White Sucker			3.0	Outlet Dam	5/8/2024	57
White Sucker			3.5	Outlet Dam	5/8/2024	57
White Sucker			2.3	Outlet Dam	5/8/2024	57
White Sucker			2.9	Outlet Dam	5/8/2024	57
Brown Bullhead	6.7	0.15		Outlet Dam	5/8/2024	57
Brown Bullhead	5.6	0.06		Outlet Dam	5/8/2024	57
Brown Bullhead	4.5	0.03		Outlet Dam	5/8/2024	57
Brown Bullhead	3.6	0.02		Outlet Dam	5/8/2024	57
Brown Bullhead	5.1	0.06		Outlet Dam	5/8/2024	57
Brown Bullhead	7.6	0.19		Outlet Dam	5/8/2024	57
Brown Bullhead	4.8	0.06		Outlet Dam	5/8/2024	57
Brown Bullhead	5.7	0.09		Outlet Dam	5/8/2024	57
Brown Bullhead	6.7	0.11		Outlet Dam	5/8/2024	57
Brown Bullhead	6.0	0.09		Outlet Dam	5/8/2024	57
Brown Bullhead	6.0	0.09		Outlet Dam	5/8/2024	57
Brown Bullhead	6.1	0.10		Outlet Dam	5/8/2024	57
Brown Bullhead	6.1	0.09		Outlet Dam	5/8/2024	57
Brown Bullhead	5.2	0.06		Outlet Dam	5/8/2024	57
Brown Bullhead	4.7	0.04		Outlet Dam	5/8/2024	57
Brown Bullhead	5.8	0.08		Outlet Dam	5/8/2024	57
Brown Bullhead	5.0	0.31		Outlet Dam	5/8/2024	57
Brown Bullhead	6.0	0.10		Outlet Dam	5/8/2024	57
Brown Bullhead	6.0	0.08		Outlet Dam	5/8/2024	57
Brown Bullhead	5.0	0.06		Outlet Dam	5/8/2024	57
Brown Bullhead	5.2	0.06		Outlet Dam	5/8/2024	57
Brown Bullhead	3.7	0.02		Outlet Dam	5/8/2024	57
Brown Bullhead	7.2	0.19		Outlet Dam	5/8/2024	57
Brown Bullhead	6.2	0.13		Outlet Dam	5/8/2024	57
Brown Bullhead	5.2	0.04		Outlet Dam	5/8/2024	57
Brown Bullhead			3.0	Outlet Dam	5/8/2024	57
Brown Bullhead			3.0	Outlet Dam	5/8/2024	57
Brown Bullhead			2.8	Outlet Dam	5/8/2024	57
Brown Bullhead			2.8	Outlet Dam	5/8/2024	57
Brown Bullhead			3.0	Outlet Dam	5/8/2024	57
Brown Bullhead			3.0	Outlet Dam	5/8/2024	57

Brown Bullhead			0.9	Outlet Dam	5/8/2024	57
White Sucker			14.6	Lean-to Point	5/8/2024	57
White Sucker			23.9	Lean-to Point	5/8/2024	57
White Sucker			27.6	Lean-to Point	5/8/2024	57
Brown Bullhead			25.3	Lean-to Point	5/8/2024	57
Brown Bullhead			28.8	Lean-to Point	5/8/2024	57
Brown Bullhead			28.8	Lean-to Point	5/8/2024	57
Brown Bullhead			25.3	Lean-to Point	5/8/2024	57
Brown Bullhead			25.5	Lean-to Point	5/8/2024	57
Brown Bullhead			27.2	Lean-to Point	5/8/2024	57
Brown Bullhead			27.2	Lean-to Point	5/8/2024	57
Brown Bullhead			27.1	Lean-to Point	5/8/2024	57
Brown Bullhead			28.1	Lean-to Point	5/8/2024	57
Brown Bullhead			26.6	Lean-to Point	5/8/2024	57
Brown Bullhead			25.8	Lean-to Point	5/8/2024	57
Brown Bullhead			25.3	Lean-to Point	5/8/2024	57
Brown Bullhead			27.4	Lean-to Point	5/8/2024	57
Brown Bullhead			25.8	Lean-to Point	5/8/2024	57
Brown Bullhead			25.3	Lean-to Point	5/8/2024	57
Brown Bullhead			27.0	Lean-to Point	5/8/2024	57
Brown Bullhead			7.8	Lean-to Point	5/8/2024	57
Pumpkinseed	3.4	0.02		Twin Point Inlet	5/8/2024	57
Pumpkinseed	4.0	0.09		Twin Point Inlet	5/8/2024	57
Brown Bullhead			21.8	Twin Point Inlet	5/8/2024	57
White Sucker			21.6	Twin Point Inlet	5/8/2024	57
White Sucker			24.6	Twin Point Inlet	5/8/2024	57
White Sucker			26.8	Twin Point Inlet	5/8/2024	57
White Sucker			27.3	Twin Point Inlet	5/8/2024	57
White Sucker			24.9	Twin Point Inlet	5/8/2024	57
White Sucker			28.0	Twin Point Inlet	5/8/2024	57
White Sucker			24.8	Twin Point Inlet	5/8/2024	57
White Sucker			26.2	Rock Bar	5/8/2024	57
White Sucker			24.4	Rock Bar	5/8/2024	57
White Sucker			27.9	Rock Bar	5/8/2024	57
White Sucker			26.8	Rock Bar	5/8/2024	57
White Sucker			28.5	Rock Bar	5/8/2024	57
White Sucker			22.3	Rock Bar	5/8/2024	57
White Sucker			28.5	Rock Bar	5/8/2024	57
White Sucker			13.0	Rock Bar	5/8/2024	57
White Sucker			25.7	Rock Bar	5/8/2024	57
White Sucker			28.6	Rock Bar	5/8/2024	57
White Sucker			28.7	Rock Bar	5/8/2024	57
White Sucker			28.6	Rock Bar	5/8/2024	57
White Sucker			16.7	Rock Bar	5/8/2024	57
White Sucker			8.7	Rock Bar	5/8/2024	57
Brown Bullhead			22.1	Rock Bar	5/8/2024	57

Creek Chub	7.9	0.19		Rock Bar	5/8/2024	57
White Sucker			26.3	Outlet Dam	5/10/2024	55
White Sucker			28.5	Outlet Dam	5/10/2024	55
White Sucker			28.3	Outlet Dam	5/10/2024	55
White Sucker			28.7	Outlet Dam	5/10/2024	55
White Sucker			26.0	Outlet Dam	5/10/2024	55
White Sucker			8.1	Outlet Dam	5/10/2024	55
Brown Bullhead			15.5	Outlet Dam	5/10/2024	55
Brown Bullhead			27.8	Lean-to Point	5/10/2024	55
Brown Bullhead			26.2	Lean-to Point	5/10/2024	55
Brown Bullhead			28.7	Lean-to Point	5/10/2024	55
Brown Bullhead			28.1	Lean-to Point	5/10/2024	55
Brown Bullhead			10.2	Lean-to Point	5/10/2024	55
Brown Bullhead			26.2	Lean-to Point	5/10/2024	55
Brown Bullhead			27.6	Lean-to Point	5/10/2024	55
Brown Bullhead			27.8	Lean-to Point	5/10/2024	55
Brown Bullhead			26.1	Lean-to Point	5/10/2024	55
White Sucker			18.8	Lean-to Point	5/10/2024	55
White Sucker			12.4	Lean-to Point	5/10/2024	55
Brown Bullhead			23.4	Twin Point Inlet	5/10/2024	55
Brown Bullhead			8.7	Twin Point Inlet	5/10/2024	55
White Sucker			25.1	Twin Point Inlet	5/10/2024	55
White Sucker			26.6	Twin Point Inlet	5/10/2024	55
White Sucker			26.5	Twin Point Inlet	5/10/2024	55
Creek Chub	7.1	0.14		Twin Point Inlet	5/10/2024	55
Pumpknseed	4.5	0.06		Twin Point Inlet	5/10/2024	55
Pumpknseed	4.5	0.06		Twin Point Inlet	5/10/2024	55
Pumpknseed	3.5	0.02		Twin Point Inlet	5/10/2024	55
Pumpknseed	4.0	0.03		Twin Point Inlet	5/10/2024	55
Pumpknseed	3.4	0.02		Twin Point Inlet	5/10/2024	55
Pumpknseed	4.1	0.04		Twin Point Inlet	5/10/2024	55
Pumpknseed	3.2	0.02		Twin Point Inlet	5/10/2024	55
Pumpknseed	5.0	0.07		Twin Point Inlet	5/10/2024	55
White Sucker			27.7	Rock Bar	5/10/2024	55
White Sucker			24.7	Rock Bar	5/10/2024	55
White Sucker			27.6	Rock Bar	5/10/2024	55
White Sucker			27.1	Rock Bar	5/10/2024	55
White Sucker			21.8	Rock Bar	5/10/2024	55
Brown Bullhead			8.7	Rock Bar	5/10/2024	55
Pumpkinseed	4.8	0.07		Rock Bar	5/10/2024	55