

**WISCONSIN DEPARTMENT OF NATURAL RESOURCES
CREEL SURVEY REPORT**

**ISLAND, PLANTING GROUND, RANGELINE,
ROUND, and TOWNLINE LAKES
(Three Lakes Chain)**

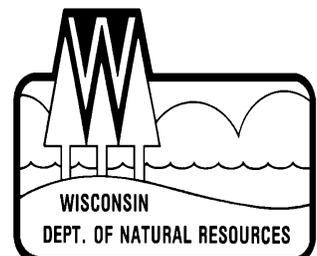
ONEIDA COUNTY

2014-15



Treaty Fisheries Publication

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CONTENTS

INTRODUCTION.....	1
GENERAL LAKE INFORMATION.....	2
Location	2
Physical Characteristics	2
Seasons Surveyed.....	2
Weather	2
Fishing Regulations	2
SPECIES CATCH AND HARVEST INFORMATION.....	2
CREEL SURVEY RESULTS AND DISCUSSION.....	3
Survey Logistics.....	3
General Angler Information.....	3
SPECIES INFORMATION	3
ACKNOWLEDGMENTS	4

SUMMARY TABLES

Table 1. Sportfishing effort summary.....	5
Table 2. Creel survey synopsis.....	6
Table 3. Isalnd and Round Lake synopsis.....	7
Table 4. Planting Ground Lake synopsis	8
Table 5. Rangeline and Townline synopsis.....	9

SPECIES CATCH AND HARVEST INFORMATION

Gamefish

Figure 1. Walleye.....	10
Figure 2. Northern Pike.....	11
Figure 3. Muskellunge	12
Figure 4. Smallmouth Bass	13
Figure 5. Largemouth Bass	14

Panfish

Figure 6. Yellow Perch	15
Figure 7. Bluegill	16
Figure 8. Pumpkinseed.....	17
Figure 9. Rock Bass	18
Figure 10. Black Crappie	19

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Fish Graphics: Virgil Beck, Stevens Point, WI

INTRODUCTION

Fish populations can fluctuate due to natural forces (weather, predation, competition), management actions (stocking, regulations, habitat improvement), inappropriate development (habitat degradation), and harvest impacts. Wisconsin Department of Natural Resources fisheries crews regularly conduct fishery surveys on area lakes and reservoirs to gather the information needed to monitor changes, identify concerns, evaluate past management actions, and to prescribe fishery management strategies. Netting and electrofishing surveys are used to gather data on the status of fish populations and communities (species composition, population size, reproductive success, size/age distribution, and growth rates). The other key component of the fishery that we often need to measure is the harvest.

On many lakes in the Ceded Territory of northern Wisconsin, harvest of fish is divided between sport anglers and the six Chippewa tribes who harvest fish under rights granted by federal treaties. The tribes harvest fish mostly using a highly efficient method, spearing, during a relatively short time period in the spring. Every fish in the spear harvest is counted – a complete “census” of the harvest.

We measure the sport harvest to assess its impact on the fishery. However, it would be highly impractical and very costly to conduct a complete census of every angler who fishes on a lake. Therefore, we conduct creel surveys.

A creel survey is an assessment tool used to sample the fishing activities of anglers on a body of water and make projections of harvest and other fishery parameters. Creel survey clerks work on randomly-selected days and shifts, forty hours per week during the open season for gamefish from the first Saturday in May through the first Sunday in

March. Creel surveys are not conducted in November when fishing effort is low and ice conditions are often unsafe. The survey is run during daylight hours, and shift times change from month to month as day length changes.

Creel survey clerks travel their lakes using a boat or snowmobile to count the number of anglers at predetermined times, and to interview anglers who have completed their fishing trip. Data is collected on what species they fished for, catch, harvest, lengths of fish harvested, marks (fin clips or tags), and hours of fishing effort. Collecting completed-trip data provides the most accurate assessment of angling activities, and it avoids the need to disturb anglers while they are fishing.

A computer program is used to make projections of total catch and harvest of each species, catch and harvest rates, and total fishing effort by month, and for the year in total. Keep in mind that these are only projections based on the best information available, and not a complete accounting of effort, catch, and harvest. Accurate projections require that we sample a sufficient and representative portion of the angling activity on a lake. The accuracy of creel survey results, therefore, depends on good cooperation and truthful responses by anglers when a creel clerk interviews them.

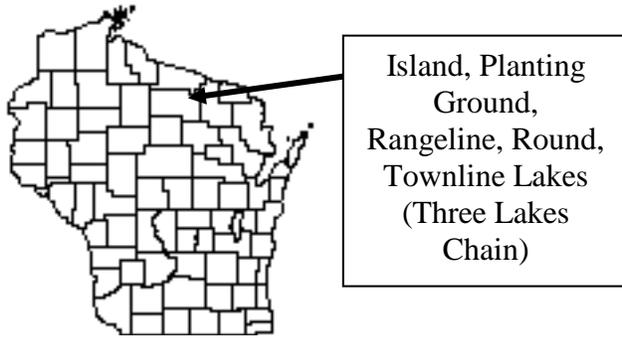
You may have encountered a DNR creel survey clerk on a recent fishing trip. We appreciate your cooperation during an interview. The survey only takes a moment of your time and it gives the Department valuable information needed for management of the fishery.

This report provides projections of:

1. Overall fishing effort (pressure)
2. Fishing effort directed at each species
3. Catch and harvest rates
4. Numbers of fish caught and harvested

Also included are a physical description of Island, Planting Ground, Rangeline, Round, and Townline Lakes; discussion of results of the survey; and detailed summaries, by species, of fishing effort, catch and harvest.

GENERAL LAKE INFORMATION



Location

Island, Planting Ground, Rangeline, Round, and Townline Lakes are part of the Three Lakes Chain of Lakes, located in Oneida County, near the Town of Three Lakes.

Physical Characteristics

Island, Planting Ground, Rangeline, Round, and Townline Lakes have a combined area of 1,737 acres, which accounts for 29% of the total chain acreage. Littoral substrates consist primarily of sand, with lesser amounts of muck and gravel. These lakes are soft water lakes with slightly acidic, slightly stained waters.

Seasons Surveyed

The period referred to in this report as the 2014-15 fishing season ran from May 3, 2014 through March 1, 2015. The open water creel survey ran from May 3 through October 31, 2014, and the ice fishing creel survey ran from December 1, 2014 through March 1, 2015.

Weather

Ice-out on Island, Planting Ground, Rangeline, Round, and Townline Lakes was

around May 6, 2014. Fishable ice formed on these lakes in late November.

Fishing Regulations

The following seasons, daily bag limits, and length limits were in place on Island, Planting Ground, Rangeline, Round, and Townline Lakes during the 2014-15 fishing season:

Species	Season	Bag Limit	Min. Size
Largemouth Bass	5/3-3/1	5	14"
Smallmouth Bass	5/3-6/20	Catch & Release	
	6/21-3/1	5	14"
Musky	5/24-11/30	1	40"
Northern Pike	5/3-3/1	5	none
Walleye	5/3-3/1	3*	
		No Minimum, 1 > 14"	
Panfish	year round	25	none
Rock Bass	year round	none	none

*Due to tribal declarations and harvest, walleye bag limits were initially set at 2 on each of these lakes, and then revised to 3 on Island and Planting Ground, and 5 on Rangeline, Round, and Townline on May 23rd.

SPECIES CATCH AND HARVEST INFORMATION

Angling effort, catch, and harvest information is summarized for each species in Tables 2-5 and Figures 1-10. Table 2 also includes a comparison of these statistics with the previous creel survey. Information presented about species whose fishing season extended beyond March 1 should be considered minimum estimates. Each species page has up to five graphs depicting the following:

- 1. PROJECTED FISHING EFFORT**
Total calculated number of hours during each month that anglers spent fishing for a species.
- 2. PROJECTED SPECIFIC CATCH AND HARVEST RATES**
Calculated number of hours it takes an angler to catch or harvest a fish of the indicated species. Only information from anglers who were

specifically targeting that species is reported.

3. PROJECTED CATCH AND HARVEST

Calculated number of fish of the indicated species caught or harvested by all anglers, regardless of targeted species.

4. LENGTH DISTRIBUTION OF HARVESTED FISH

All fish of a species that were measured by the clerk during the entire creel survey season.

5. LARGEST AND AVERAGE LENGTH OF HARVESTED FISH

Monthly largest, and average length of, harvested fish of a species. Only those fish measured by the creel survey clerk are reported.

CREEL SURVEY RESULTS AND DISCUSSION

Survey Logistics

The creel survey went well. We encountered no unusual problems conducting the survey or calculating the projections contained in the report. This was the second time the department has conducted a creel survey on Three Lakes Chain. Rangeline and Townline Lakes were not creeled during the 1994-95 survey, and during the 2014-15 survey, they were only surveyed during open water (May-October).

General Angler Information

Anglers spent 20,496 hours or 11.8 hours per acre fishing Island, Planting Ground, Rangeline, Round, and Townline Lakes during the 2014-15 season (Table 1). That was less than the Oneida County average (33.7 hours per acre), as well as the 1994-95 creel survey which estimated 17.0 hours per acre of fishing effort within the respective lakes. August was the most heavily fished month (2.8 hours per acre).

Fishing effort was lightest in December (0.2 hours per acre) for those months when the entire month was creeled. The creel clerks were able to conduct 498 interviews throughout the survey.

RESULTS BY SPECIES

Walleye (Tables 2-5, Figure 1)

Walleyes received the second most fishing effort during the 2014-15 season. Anglers spent 7,018 hours targeting walleyes for all five lakes combined. The greatest fishing effort for walleyes was in May (2,355 hours). January had the least amount of walleye fishing effort (71 hours) for those months when the entire month was creeled.

Total catch of walleyes was 4,526 fish with a harvest of 1,193 fish. Highest catch (1,612 fish) and harvest (352 fish) occurred in May. Anglers fished 1.6 hours to catch, and 5.9 hours to harvest, a walleye during the 2014-15 season. The mean length of harvested walleyes was 13.3 inches, and the largest walleye measured was a 21.9-inch fish caught on Townline Lake.

Northern Pike (Tables 2-5, Figure 2)

Fishing effort directed at northern pike was 1,558 hours during the 2014-15 season.

Northern pike fishing effort was greatest in September (483 hours). Total catch of northern pike was 881 fish with a harvest of 174 fish. The mean length of harvested northern pike was 23.4 inches, and the largest northern pike measured was a 32.5-inch fish caught on Planting Ground Lake.

Muskellunge (Tables 2-5, Figure 3)

Muskellunge received the most fishing effort during the 2014-15 season. Anglers spent 7,505 hours targeting muskellunge. Muskellunge fishing effort was greatest in August (2,619 hours). Total catch of muskellunge was 390 fish, and the highest catch (223 fish) occurred in July. Anglers fished 25.9 hours to catch a muskellunge, and there was no documented harvest during the 2014-15 season.

Smallmouth Bass (Tables 2-5, Figure 4)

Fishing effort targeted at smallmouth bass was 841 hours during the 2014-15 season. Smallmouth bass fishing effort was greatest in August (324 hours). Total catch of smallmouth bass was 454 fish with no documented harvest. Highest catch (112 fish) occurred in May. Anglers fished 6.8 hours to catch a smallmouth bass during the 2014-15 season.

Largemouth Bass (Tables 2-5, Figure 5)

Fishing effort directed at largemouth bass was 778 hours during the 2014-15 season. Largemouth bass fishing effort was greatest in August (401 hours). Total catch of largemouth bass was 154 fish with no documented harvest. Highest catch (65 fish) occurred in August. Anglers fished 14.9 hours to catch a largemouth bass during the 2014-15 season.

Panfish (Tables 2-5, Figures 6-10)

Black crappies were the most sought after panfish species during the survey. Fishing effort directed at black crappies was 5,489 hours. Anglers caught 4,353 black crappies and harvested 2,403 fish. The mean length of black crappies harvested was 9.6 inches, with the highest harvest (1,868 fish) occurring on Townline Lake.

Yellow perch were the second most sought after panfish species during the survey. Fishing effort directed at yellow perch was 4,015 hours. Total catch of yellow perch was 4,842 fish with 721 being harvested. The mean length of yellow perch harvested was 8.5 inches, with the highest harvest (252 fish) occurring on Round Lake.

Bluegills were the third most sought after panfish species during the survey. Fishing effort directed at bluegills was 3,030 hours. Total catch of bluegills was 6,143 fish with 1,341 being harvested. The mean length of bluegills harvested was 7.5 inches, with the highest harvest (583 fish) occurring on Townline Lake.

Pumpkinseeds and rock bass were also caught and harvested at low numbers during the 2014-15 season.

ACKNOWLEDGMENTS

Completion of this survey was possible because of the efforts of the following Fisheries Management and Treaty Fisheries staff: Lawrence Eslinger, Jeff Blonski, Joelle Underwood, Jason Halverson, John Kubisiak, Steve Timler, Jonathan Pyatskowitz, and Dennis Scholl. John Logan, Andrew Disch, Shae Flood, Rich Cechal, John Davis, Bob Consolo, Ben Hines, David Gunderson, and Marty Kiepkke were the creel clerks on the Three Lakes Chain during the survey period.

We also thank all the anglers who took the time to offer information about their fishing trip to the survey clerks. Without their cooperation the survey would not have been possible.

The Department thanks our cooperators, the (Ruth Ann) Davis Family, John Schmidt, Watercraft Sales, the Levendoski Family, Paul, Peggy, Bill, and Karen of Anchor Marina and Sunset Grill, Mr. and Mrs. Ed Cottingham, Justin and Ginger Millis of Pine Isle Sports Bar and Grill, Russell and Cindy Habeck, and Lee and Gail Sucharda, all of whom generously allowed the Department to keep a boat and/or snowmobile on their property during this survey.

This creel report was reviewed by Lawrence Eslinger and John Kubisiak of the Wisconsin Department of Natural Resources.

Additional copies of this report, and those covering other local lakes, can be obtained from the Woodruff DNR or online at:

<http://dnr.wi.gov/topic/Fishing/north/trtycrclsrvys.html>

Table 1. Sportfishing effort summary, the Three Lakes Chain (Island, Planting Ground, Rangeline, Round, and Townline), 2014-15 season

Month	Number of Angler Party Interviews	Total Angler Hours	Total Angler Hours/Acre	1994-95 Total Angler Hours/Acre**	Oneida County Average Hours/Acre	Ceded Territory Average Hours/Acre
May	88	3564	2.0	2.5	4.8	5.0
June	94	3174	1.8	2.8	6.4	6.4
July	66	4347	2.5	3.9	7.3	6.8
August	137	4875	2.8	3.3	5.7	5.5
September	41	2027	1.2	2.5	3.4	3.3
October	36	944	0.5	1.0	1.6	1.5
December	2	333	0.2	0.3	1.2	1.1
January	17	687	0.4	0.3	1.5	1.6
February	17	518	0.3	0.5	1.5	1.6
March	0	29	0.0	0.0	0.3	0.2
*Summer Total	462	18930	10.9	15.9	29.2	28.5
*Winter Total	36	1566	0.9	1.1	4.5	4.5
Grand Total	498	20496	11.8	17.0	33.7	33.0

*"Summer" is May-October; "Winter" is December-March

**Townline and Rangeline were not creeded during the 1994-95 season

Number of Angler Party Interviews is the number of groups of anglers interviewed by the creel clerk. A party is considered the members of a group who fish together in the same boat, ice shanty, or from shore. The clerk fills out one interview form for each group of anglers. The number of individual anglers actually contacted by the clerk is usually much greater than the number of groups listed in this table since most groups consist of more than one angler.

Total Angler Hours is the estimated total number of hours that anglers spent fishing on the Three Lakes Chain (Island, Planting Ground, Rangeline, Round, and Townline) during each month surveyed.

Total Angler Hours/Acre is the total angler hours divided by the area of the lake in acres. This is useful in order to compare effort on the Three Lakes Chain (Island, Planting Ground, Rangeline, Round, and Townline) to other lakes.

1994-95 Total Angler Hours/Acre is the total angler hours divided by the area of the lake in acres. This is from the previous creel survey that took place on the Three Lakes Chain (Island, Planting Ground, Rangeline, Round, and Townline).

County Average Hours/Acre is the average angler effort in hours per acre for county lakes that have been surveyed since 1990. This value is useful for fishing pressure comparisons with other waters.

Ceded Territory Average Hours/Acre is the average angler effort in hours per acre for inland lakes in the ceded territory that have been surveyed since 1990. This value can be used to compare the Three Lakes Chain (Island, Planting Ground, Rangeline, Round, and Townline) to other lakes in northern Wisconsin.

Table 2. Comparison of creel survey synopses, Three Lakes Chain (Island, Planting Ground, Rangeline, Round, and Townline), 2014-15 and 1994-95 fishing seasons.

CREEL YEAR: 2014-15

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish) *	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish) **	MEAN LENGTH OF HARVESTED FISH
Walleye	7018	23.2%	4526	1.6	1193	5.9	13.3
Northern Pike	1558	5.1%	881	4.4	174	10.7	23.4
Muskellunge	7505	24.8%	390	25.9	0		
Smallmouth Bass	841	2.8%	454	6.8	0		
Largemouth Bass	778	2.6%	154	14.9	0		
Yellow Perch	4015	13.3%	4842	1.2	721	6.5	8.5
Bluegill	3030	10.0%	6143	0.5	1341	2.3	7.5
Pumpkinseed	0	0.0%	97		16		7.3
Rock Bass	54	0.2%	546	0.9	40	1.4	8.3
Black Crappie	5489	18.1%	4353	1.3	2403	2.3	9.6

* A blank cell in this column indicates that no fish of a given species were caught by anglers who specifically targeted that species.

** A blank cell in this column indicates that no fish of a given species were harvested by anglers who specifically targeted that species.

CREEL YEAR: 1994-95*

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish)	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish)	MEAN LENGTH OF HARVESTED FISH
Walleye	12625	27.4%	1947	6.5	744	17.0	13.5
Northern Pike	2338	5.1%	1125	2.1	138	16.9	21.1
Muskellunge	12842	27.8%	1104	11.6	11	1167.5	36.4
Smallmouth Bass	1291	2.8%	208	6.2	65	19.9	17.6
Largemouth Bass	405	0.9%	45	9.0	0		
Yellow Perch	6884	14.9%	7936	0.9	2086	3.3	8.2
Bluegill	4257	9.2%	2381	1.8	995	4.3	6.7
Pumpkinseed	231	0.5%	133	1.7	30	7.7	5.9
Rock Bass	1707	3.7%	1997	0.9	767	2.2	8.6
Black Crappie	3557	7.7%	451	7.9	352	10.1	9.9

*There was no creel conducted on Rangeline and Townline Lakes.

Table 3. Comparison of creel survey synopses, Island and Round Lake, 2014-15 and 1994-95 fishing seasons.

CREEL YEAR: 2014-15

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish) *	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish) **	MEAN LENGTH OF HARVESTED FISH
Walleye	2073	32.8%	1416	1.5	268	7.7	12.8
Northern Pike	243	3.8%	191	1.3	20	11.9	23.1
Muskellunge	1419	22.5%	154	9.2	0		
Smallmouth Bass	135	2.1%	58	2.3	0		
Largemouth Bass	111	1.8%	62	1.8	0		
Yellow Perch	672	10.6%	1554	0.4	345	1.9	8.3
Bluegill	611	9.7%	2083	0.3	435	1.4	7.7
Pumpkinseed	0	0.0%	0		0		
Rock Bass	6	0.1%	245	0.0	8	0.8	4.2
Black Crappie	1050	16.6%	1237	0.8	449	2.3	9.7

7

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** A blank cell in this column indicates that no fish of a given species were harvested by anglers who specifically targeted that species.

CREEL YEAR: 1994-95

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish)	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish)	MEAN LENGTH OF HARVESTED FISH
Walleye	2852	22.5%	527	5.4	230	12.4	13.3
Northern Pike	467	3.7%	377	1.2	41	11.4	19.2
Muskellunge	4649	36.6%	250	18.6	11	422.6	36.4
Smallmouth Bass	651	5.1%	67	9.7	37	17.6	19.7
Largemouth Bass	120	0.9%	0		0		
Yellow Perch	1580	12.4%	2536	0.6	1115	1.4	8.2
Bluegill	864	6.8%	1248	0.7	453	1.9	6.6
Rock Bass	177	1.4%	112	1.6	15	11.8	
Black Crappie	1337	10.5%	614	2.2	568	2.4	9.9

Table 4. Comparison of creel survey synopses, Planting Ground Lake, 2014-15 and 1994-95 fishing seasons.

CREEL YEAR: 2014-15

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish) *	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish) **	MEAN LENGTH OF HARVESTED FISH
Walleye	4247	22.5%	2898	1.5	866	4.9	13.2
Northern Pike	1297	6.9%	621	3.9	153	10.3	23.4
Muskellunge	5232	27.7%	206	25.4	0		
Smallmouth Bass	571	3.0%	381	5.6	0		
Largemouth Bass	520	2.8%	77	18.6	0		
Yellow Perch	2287	12.1%	1986	1.9	221	14.3	8.3
Bluegill	1569	8.3%	2685	0.6	499	3.3	7.6
Pumpkinseed	0	0.0%	19		0		
Rock Bass	48	0.3%	267	1.5	32	1.5	
Black Crappie	3085	16.4%	1908	1.6	1075	2.9	9.8

8

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** A blank cell in this column indicates that no fish of a given species were harvested by anglers who specifically targeted that species.

CREEL YEAR: 1994-95

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish)	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish)	MEAN LENGTH OF HARVESTED FISH
Walleye	9773	29.2%	1420	7.1	514	19.5	13.7
Northern Pike	1871	5.6%	748	7.1	97	56.8	23.1
Muskellunge	8193	24.5%	854	10.2	0		
Smallmouth Bass	640	1.9%	141	9.8	28	45.9	15.6
Largemouth Bass	285	0.9%	45	6.7	0		
Yellow Perch	5304	15.9%	5400	7.9	971	1.4	8.1
Bluegill	3393	10.1%	1133	3.2	542	6.6	6.8
Pumpkinseed	54	0.2%	21	3.2	15	5.1	5.9
Rock Bass	370	1.1%	1383	1.2	199	4.0	7.4
Black Crappie	3557	10.6%	451	8.7	352	10.9	9.9

Table 5. Creel survey synopses, Rangeline and Townline Lakes, 2014-15.

CREEL YEAR: 2014-15

SPECIES	DIRECTED EFFORT (Hours)	PERCENT OF TOTAL	TOTAL CATCH	SPECIFIC CATCH RATE (Hrs/Fish) *	TOTAL HARVEST	SPECIFIC HARVEST RATE (Hrs/Fish) **	MEAN LENGTH OF HARVESTED FISH
Walleye	698	13.7%	212	3.3	59	11.8	13.9
Northern Pike	18	0.4%	69	0.3	0		
Muskellunge	854	16.7%	30	28.5	0		
Smallmouth Bass	135	2.6%	15	9.0	0		
Largemouth Bass	147	2.9%	15	9.8	0		
Yellow Perch	1056	20.7%	1302	0.8	155	6.8	4.2
Bluegill	850	16.6%	1375	0.6	407	2.1	3.5
Pumpkinseed	0	0.0%	78		16		3.6
Rock Bass	0	0.0%	34		0		
Black Crappie	1354	26.5%	1208	1.1	879	1.5	4.6

6

* A blank cell in this column indicates that no fish of a given species were caught by anglers who specifically targeted that species.

** A blank cell in this column indicates that no fish of a given species were harvested by anglers who specifically targeted that species.

*** During the 2014-15 survey, Rangeline and Townline were only surveyed during open water (May-October). They were completely omitted during the 1994-95 survey.

WALLEYE

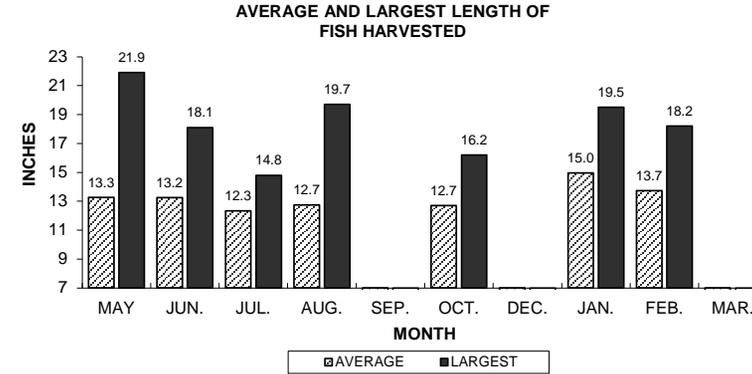
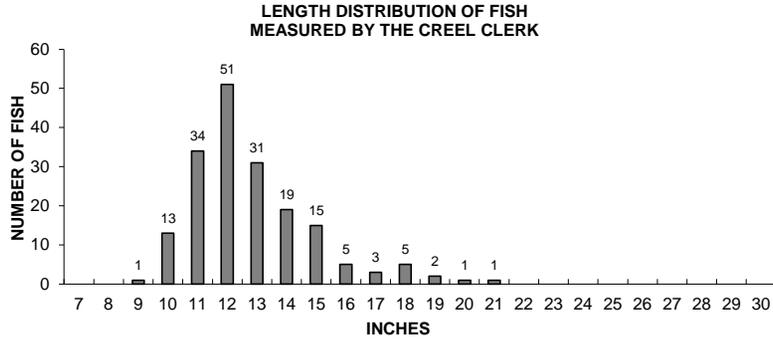
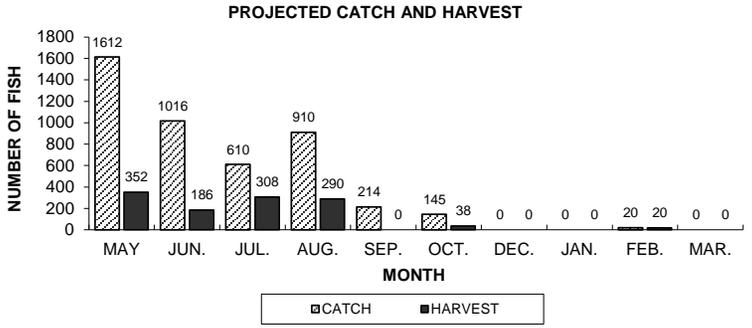
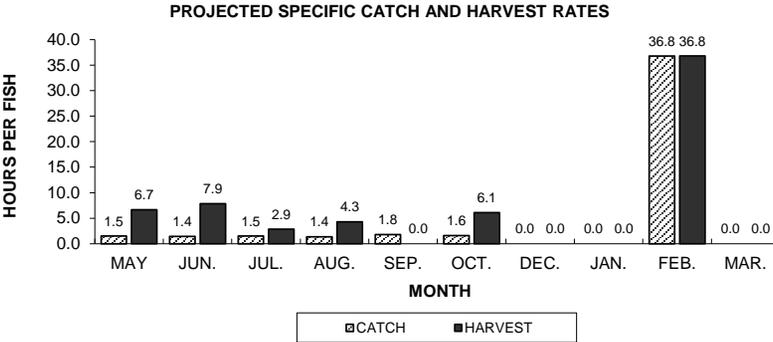
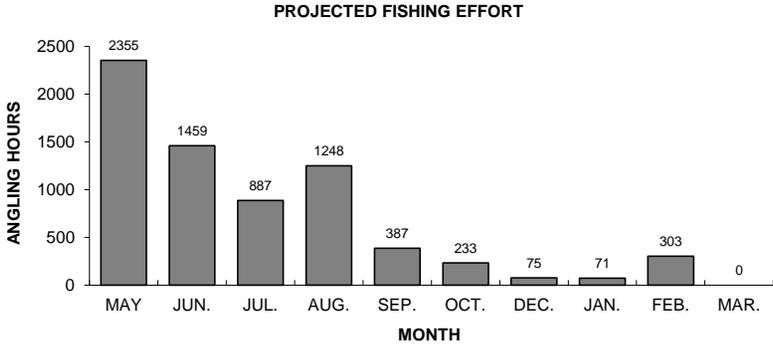
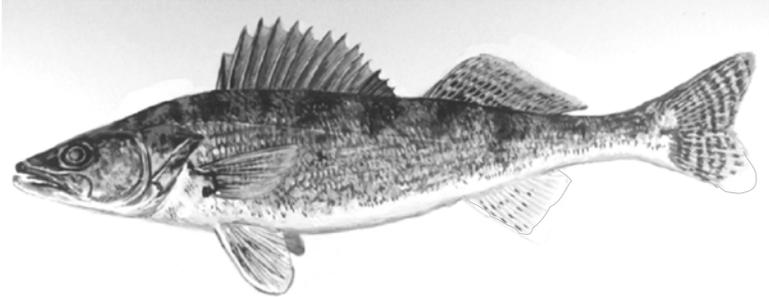


Figure 1. Walleye sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

NORTHERN PIKE

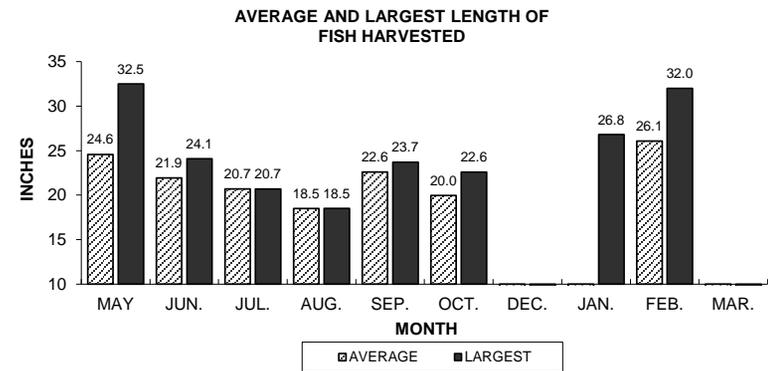
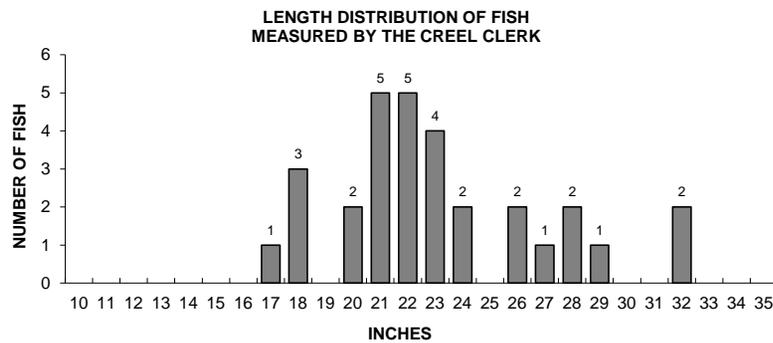
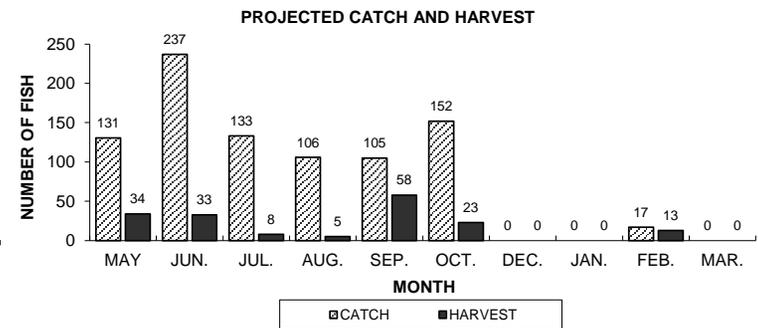
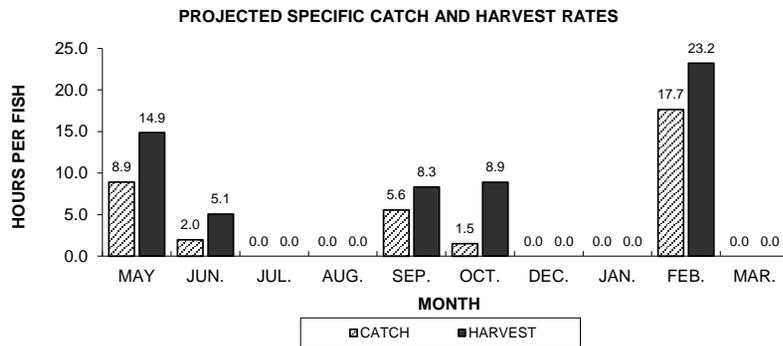
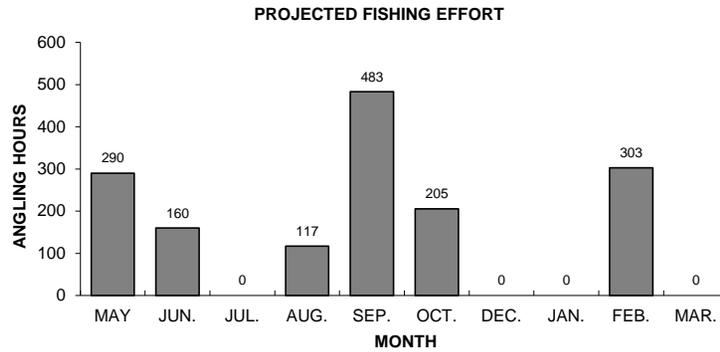
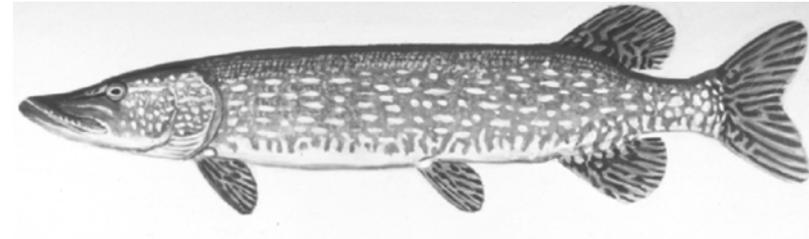


Figure 2. Northern pike sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

MUSKELLUNGE

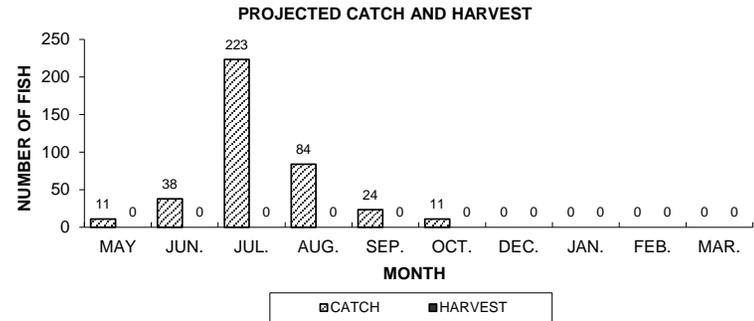
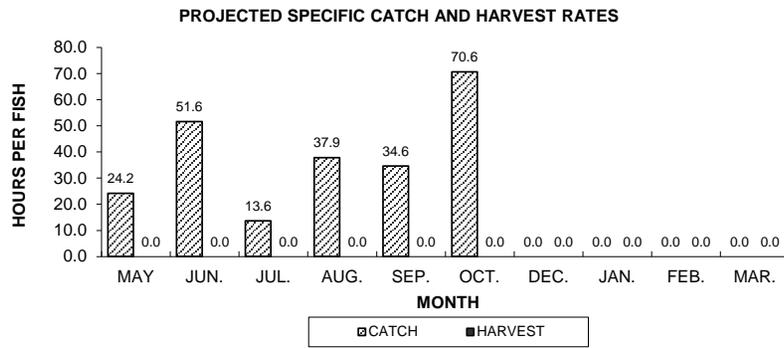
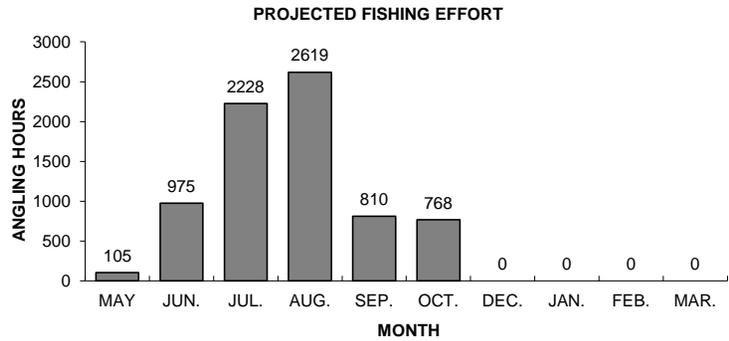


Figure 3. Muskellunge sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

SMALLMOUTH BASS

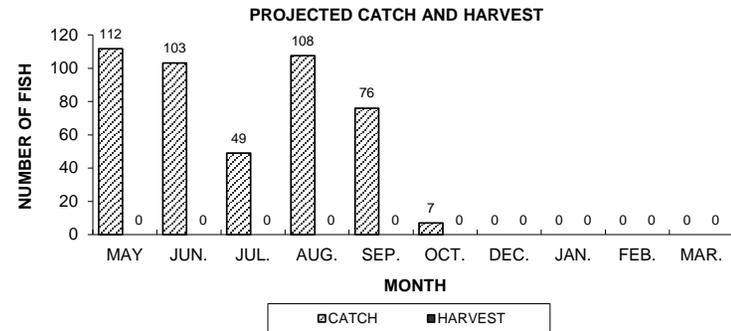
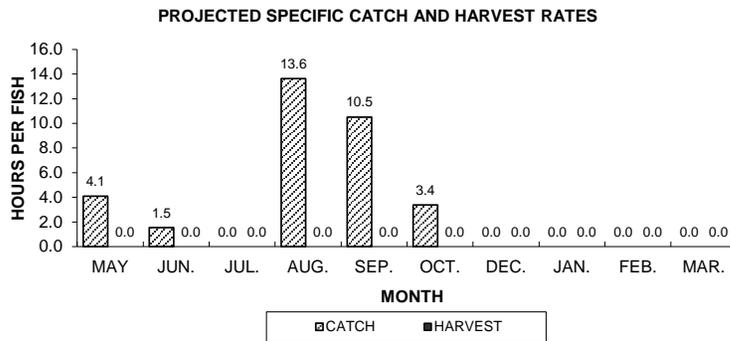
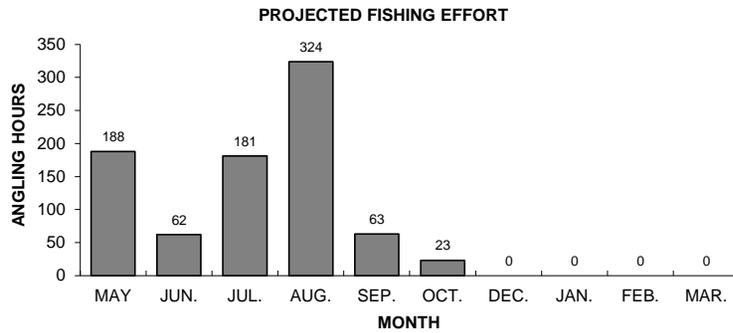
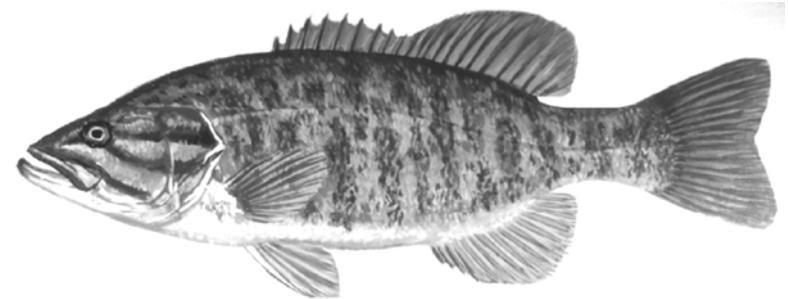


Figure 4. Smallmouth bass sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

LARGEMOUTH BASS

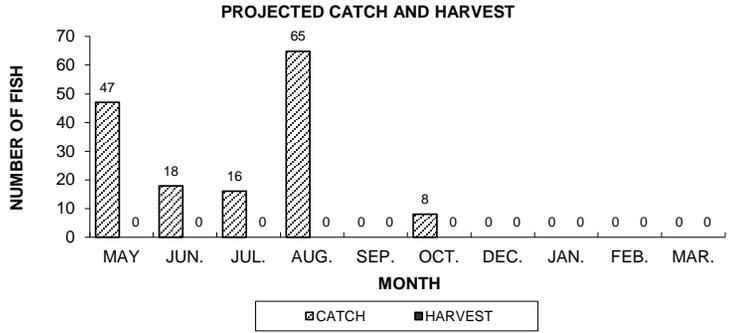
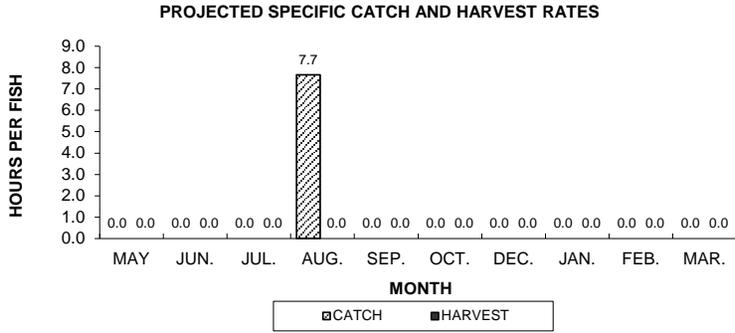
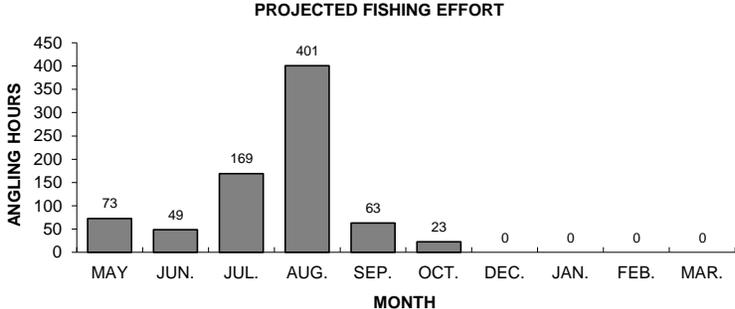
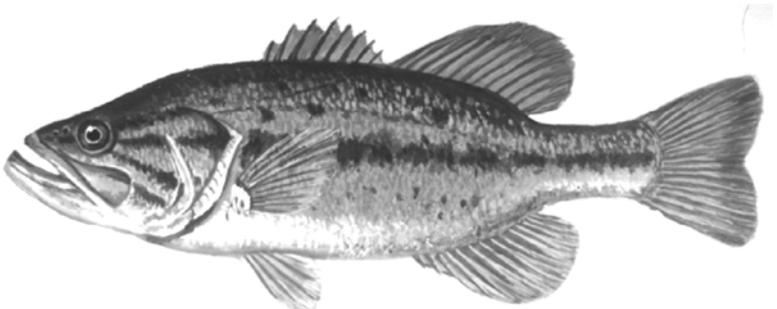


Figure 5. Largemouth bass sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

YELLOW PERCH

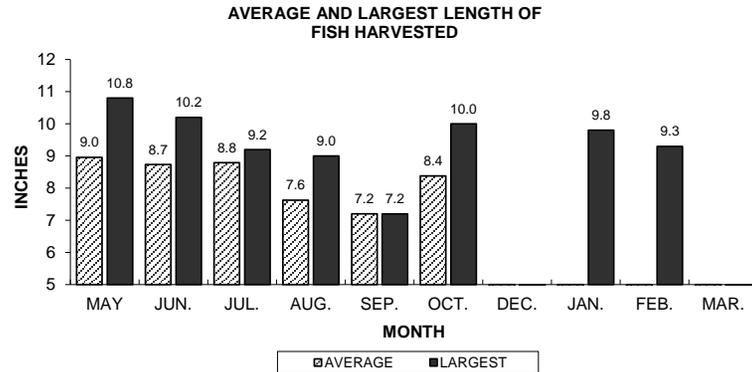
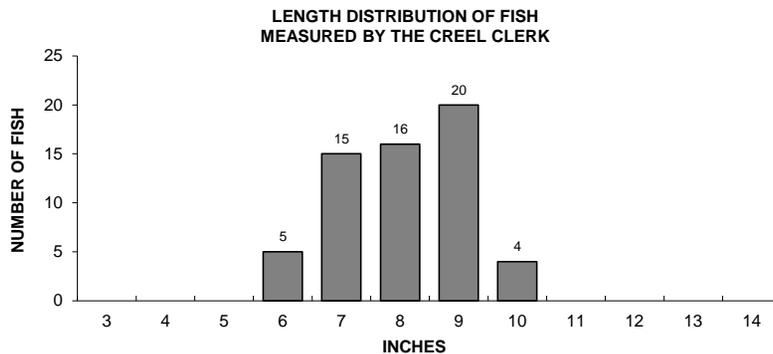
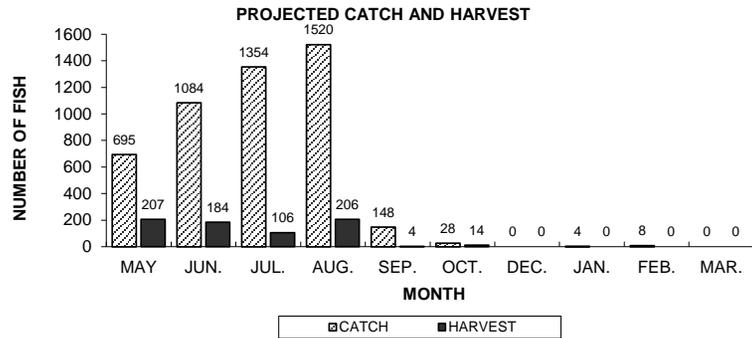
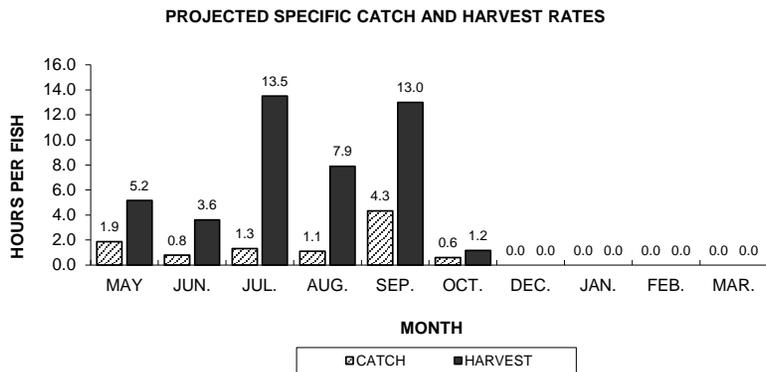
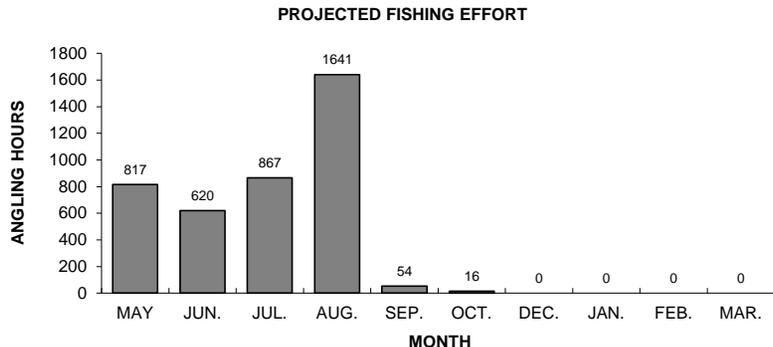
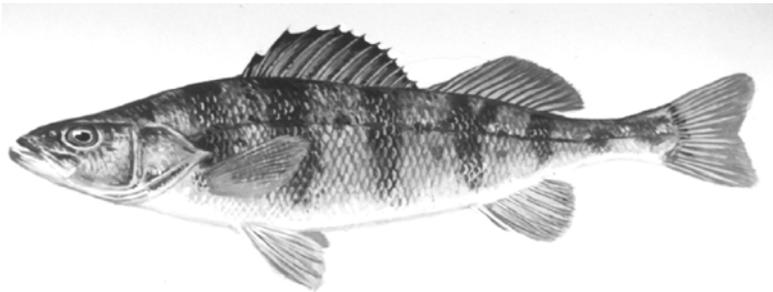


Figure 6. Yellow perch sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

BLUEGILL

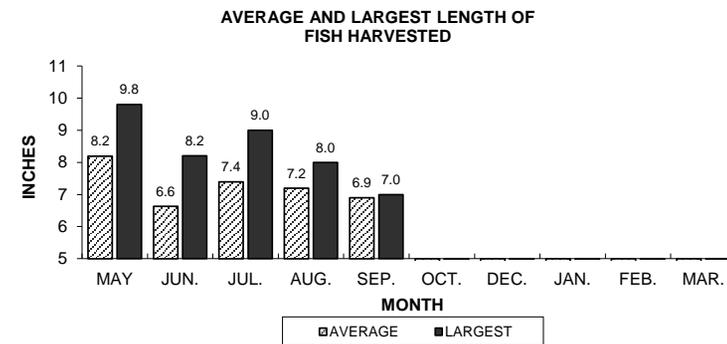
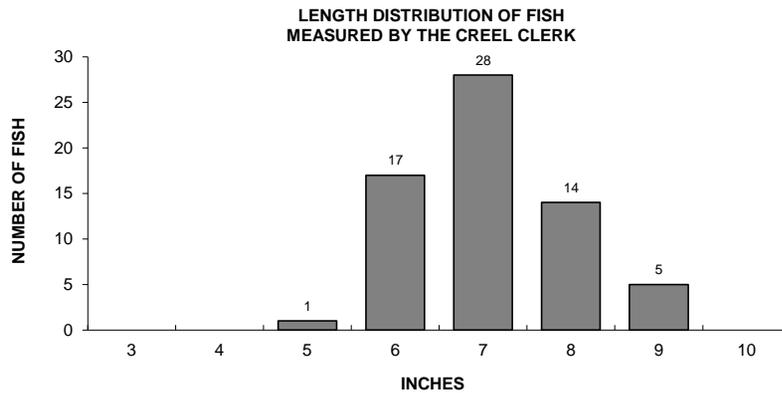
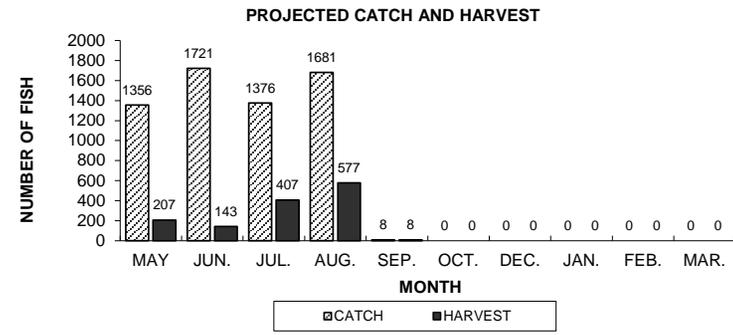
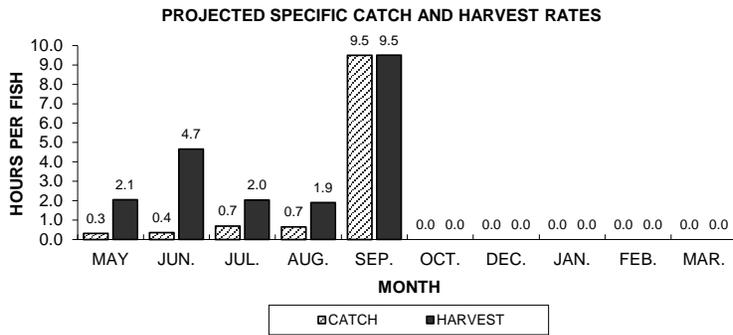
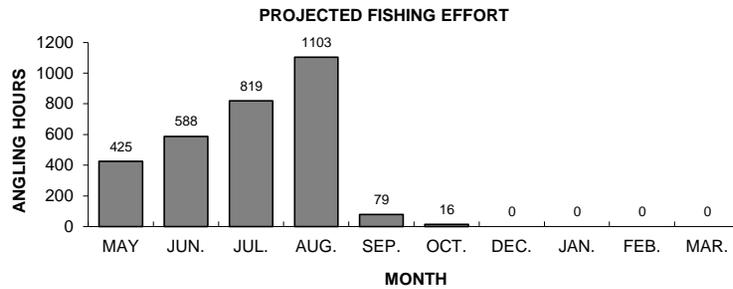
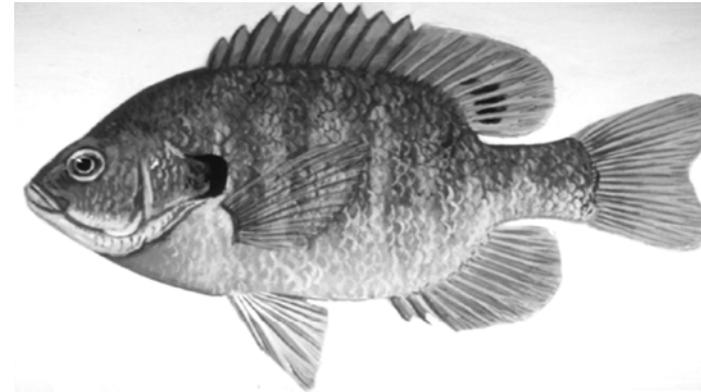


Figure 7. Bluegill sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

PUMPKINSEED

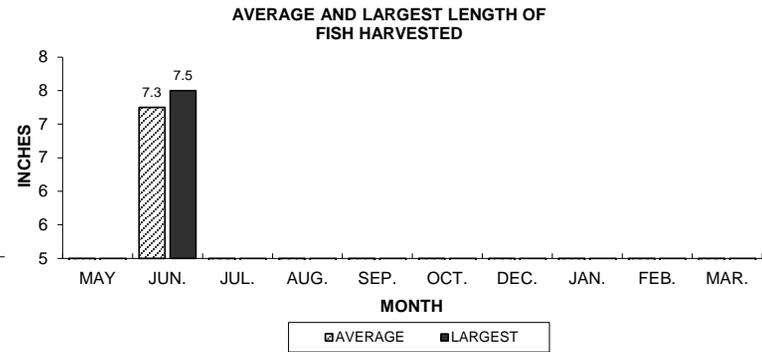
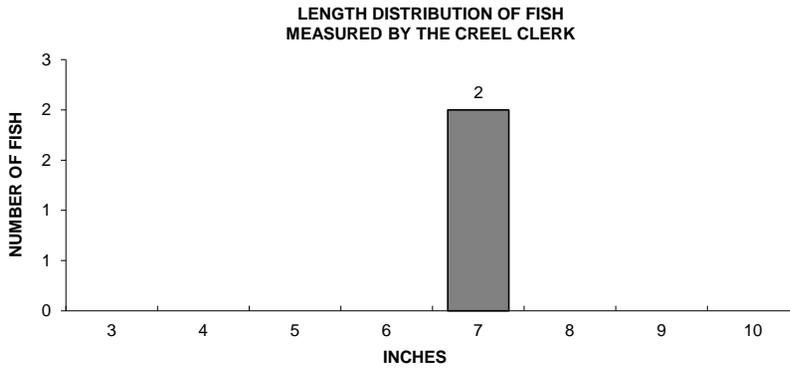
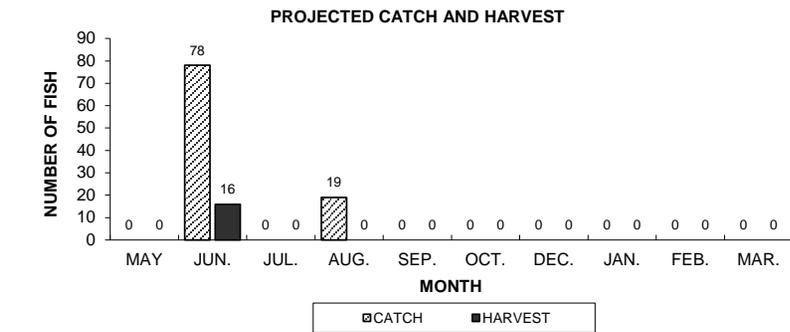
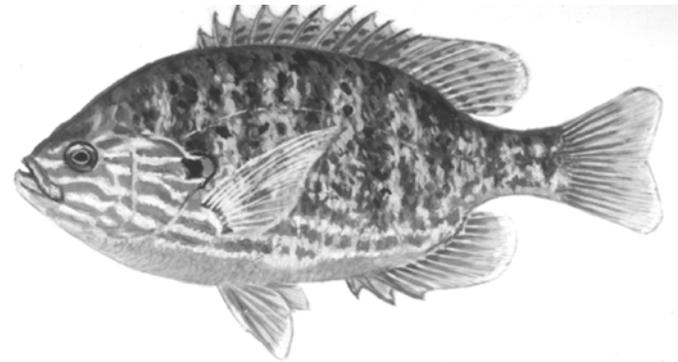


Figure 8. Pumpkinseed sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

ROCK BASS

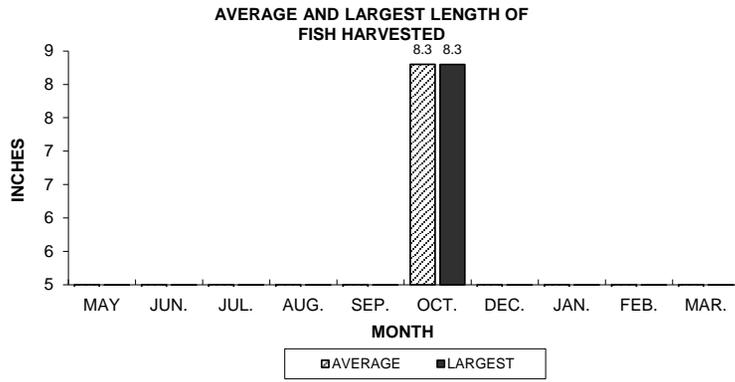
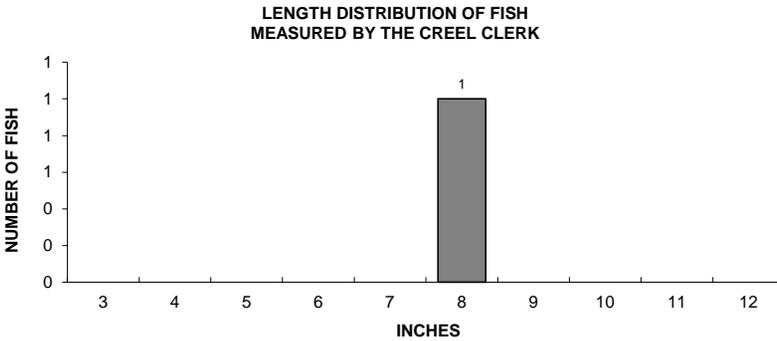
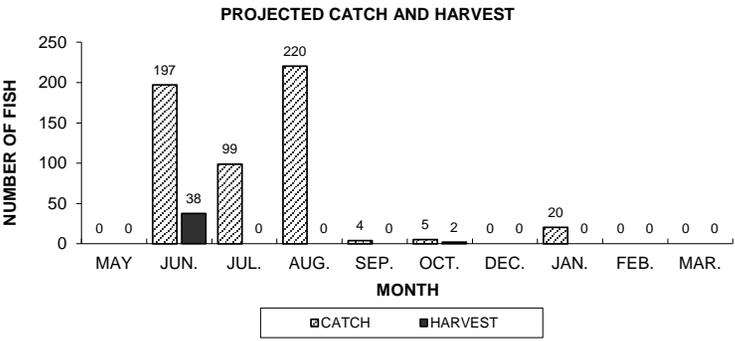
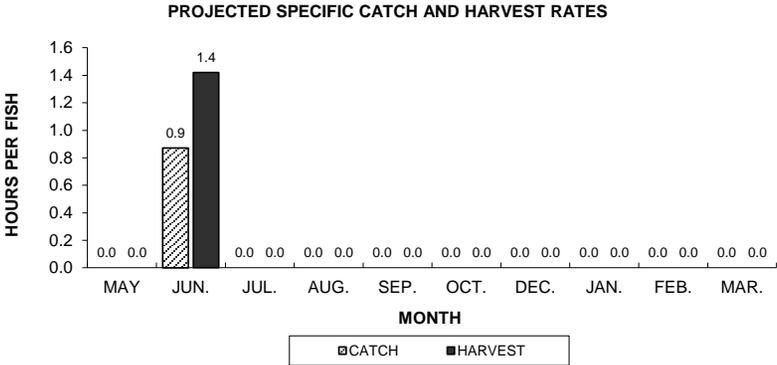
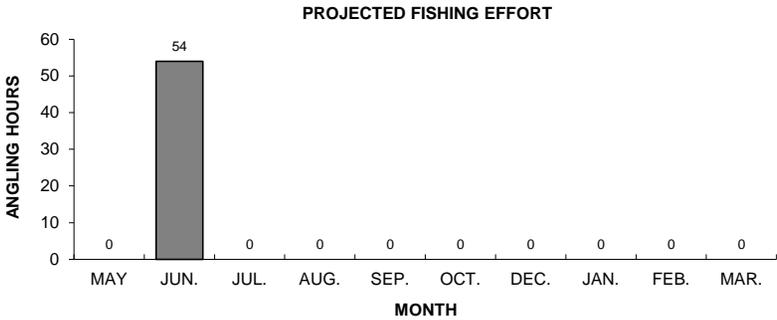
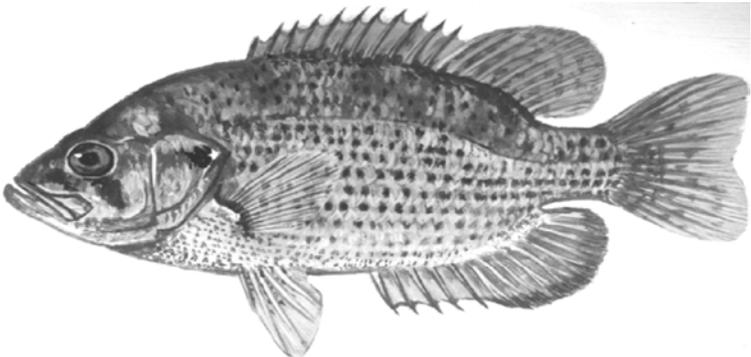


Figure 9. Rock bass sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.

BLACK CRAPPIE

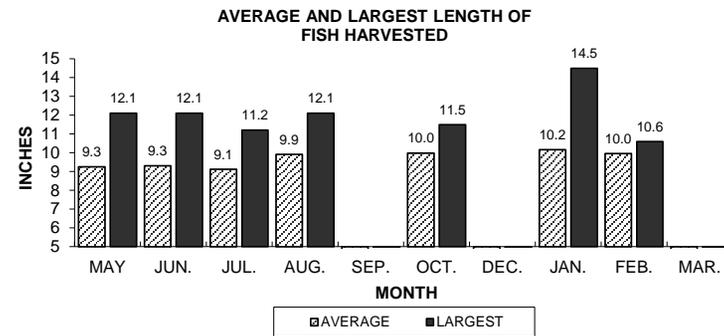
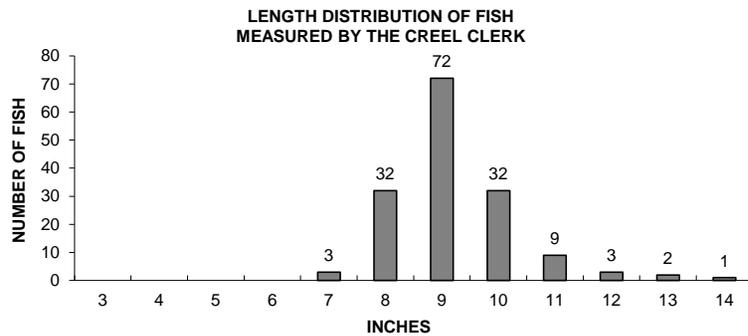
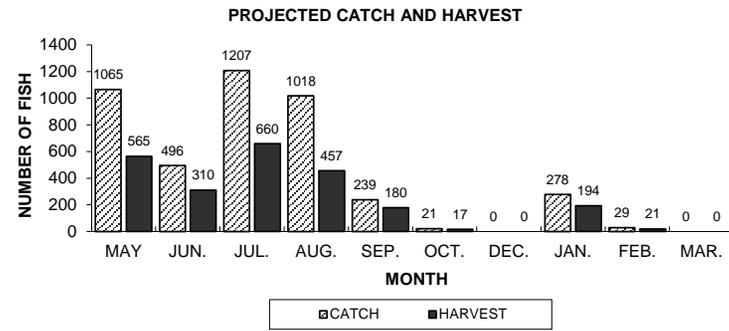
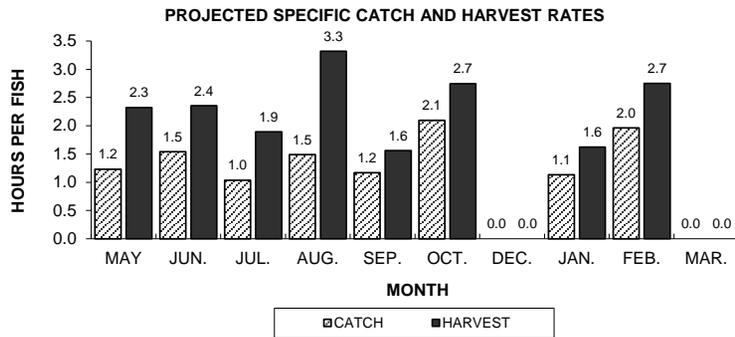
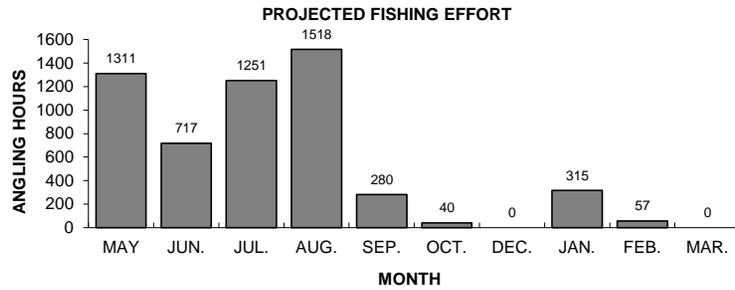
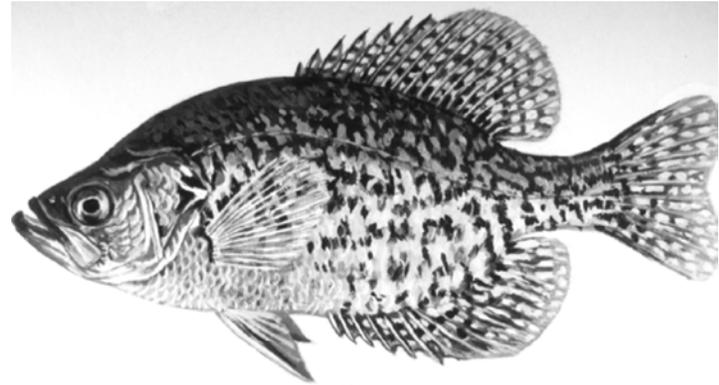


Figure 10. Black crappie sportfishing effort, catch, harvest, and length distribution, Three Lakes Chain (Island, Planting Ground, Range Line, Round, and Townline Lakes), during 2014-15.