

Summary Report of Warmwater Volunteer Angler Diaries 2003

by

Bruce M. Baker
Washington Department of Fish and Wildlife
Fish Program - Fish Management Division
Warmwater Fish Enhancement Program
600 Capitol Way North
Olympia, Washington 98501-1091

June 2004

Table of Contents

List of Tables	ii
List of Figures	iii
Introduction.....	1
Methods	2
Results.....	4
Summary of General Results	4
Largemouth Bass	5
Catch Data.....	5
Length Frequency Distributions	7
Comparative Catch Information	14
Smallmouth Bass	14
Catch Data.....	14
Length Frequency Distributions	16
Comparative Catch Information	27
Walleye.....	27
Catch Data.....	27
Length Frequency Distributions	28
Comparative Catch Information	32
Black Crappie	32
Catch Data.....	32
Length Frequency Distribution.....	33
Comparative Catch Information	34
Tiger Muskie.....	35
Catch Data.....	35
Comparative Catch Information	35
Channel Catfish.....	35
Catch Data.....	35
Comparative Catch Information	35

List of Tables

Table 1.	Angler participation and number of trips from 1990-2003	4
Table 2.	Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for largemouth bass 12 inches or greater for each individual water fished in 2003	5
Table 3.	Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for largemouth bass caught of any size and for largemouth bass 12 inches or greater, 1990-2003 (No data was available for 1999)	14
Table 4.	Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for smallmouth bass 11 inches or greater for each individual water fished in 2003	15
Table 5.	Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for smallmouth bass caught of any size and for smallmouth bass 11 inches or greater, 1990-2003 (No data was available for 1999)	27
Table 6.	Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for walleye 15 inches or greater for each individual water fished in 2003	28
Table 7.	Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for walleye caught of any size and for walleye 15 inches or greater, 1990-2003 (No data was available for 1999).....	32
Table 8.	Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for black crappie 8 inches or greater for each individual water fished in 2003	33
Table 9.	Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for black crappie caught of any size and for black crappie 8 inches or greater, 2001-2003 (No data prior to 2001)	34
Table 10.	Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for channel catfish 16 inches or greater for each individual water fished in 2003	35
Table 11.	Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for channel catfish caught of any size and for channel catfish 8 inches or greater, 2001-2003 (No data prior to 2001).....	35

List of Figures

Figure 1.	Volunteer Angler Diary pages.....	3
Figure 2.	Length frequency distribution of largemouth bass in Fenwick Lake (King Co.) in 2003.....	7
Figure 3.	Length frequency distribution of largemouth bass in Leland Lake (Jefferson Co.) in 2003.....	7
Figure 4.	Length frequency distribution of largemouth bass in Liberty Lake (Spokane Co.) in 2003.....	8
Figure 5.	Length frequency distribution of largemouth bass in Long Lake (Kitsap Co.) in 2003.....	8
Figure 6.	Length frequency distribution of largemouth bass in Nahwatzel Lake (Mason Co.) in 2003.....	9
Figure 7.	Length frequency distribution of largemouth bass in Palmer Lake (Okanogan Co.) in 2003.....	9
Figure 8.	Length frequency distribution of largemouth bass in Potholes Reservoir (Grant Co.) in 2003.....	10
Figure 9.	Length frequency distribution of largemouth bass in Lake St. Clair (Thurston Co.) in 2003.....	10
Figure 10.	Length frequency distribution of largemouth bass in Steel Lake (King Co.) in 2003.....	11
Figure 11.	Length frequency distribution of largemouth bass in Terrell Lake (Whatcom Co.) in 2003.....	11
Figure 12.	Length frequency distribution of largemouth bass in Lake Wallula (Benton, Franklin, Grant, and Walla Walla Cos.) in 2003.....	12
Figure 13.	Length frequency distribution of largemouth bass in Washburn Lake (Okanogan Co.) in 2003.....	12
Figure 14.	Length frequency distribution of largemouth bass in Whitestone Lake (Okanogan Co.) in 2003.....	13
Figure 15.	Length frequency distribution of largemouth bass in Banks Lake (Grant Co.) in 2002.....	16
Figure 16.	Length frequency distribution of largemouth bass in the lower Columbia River (Clark, Cowlitz, Pacific, Skamania, and Wahkiakum Cos.) in 2003.....	16

Figure 17. Length frequency distribution of largemouth bass in Lake Celilo (Klickitat Co.) in 2003	17
Figure 18. Length frequency distribution of largemouth bass in Lake Herbert G. West (Columbia, Franklin, Walla Walla, and Whitmant Cos.) in 2003.....	17
Figure 19. Length frequency distribution of largemouth bass in the Long Lake (Spokane and Stevens Cos.) in 2003.....	18
Figure 20. Length frequency distribution of largemouth bass in the Okanogan River (Okanogan Co.) in 2003.....	18
Figure 21. Length frequency distribution of largemouth bass in Palmer Lake (Okanogan Co.) in 2003.....	19
Figure 22. Length frequency distribution of largemouth bass in Pine Lake (King Co.) in 2003.....	19
Figure 23. Length frequency distribution of largemouth bass in Potholes Reservoir (Grant Co.) in 2003.....	20
Figure 24. Length frequency distribution of largemouth bass in Priest Rapids Lake (Grant, Kittitas, and Yakima Cos.) in 2003.....	20
Figure 25. Length frequency distribution of largemouth bass in Riffe Lake (Lewis Co.) in 2003	21
Figure 26. Length frequency distribution of largemouth bass in Lake Roosevelt (Ferry, Grant, Lincoln, Okanogan, and Stevens Cos.) in 2003.....	21
Figure 27. Length frequency distribution of largemouth bass in Lake Sammamish (King Co.) in 2003.....	22
Figure 28. Length frequency distribution of largemouth bass in Stevens Lake (Snohomish Co.) in 2003.....	22
Figure 29. Length frequency distribution of largemouth bass in Terrell Lake (Whatcom Co.) in 2003.....	23
Figure 30. Length frequency distribution of largemouth bass in Lake Umatilla (Benton and Klickitat Cos.) in 2003.....	23
Figure 31. Length frequency distribution of largemouth bass in Lake Wallula (Benton, Franklin, Grant, and Walla Walla Cos.) in 2003.....	24
Figure 32. Length frequency distribution of largemouth bass in Lake Washington (King Co.) in 2003.....	24
Figure 33. Length frequency distribution of largemouth bass in Lake Whatcom (Whatcom Co.) in 2003.....	25
Figure 34. Length frequency distribution of largemouth bass in Whitestone Lake (Okanogan	

Co.) in 2003.....	25
Figure 35. Length frequency distribution of largemouth bass in the Yakima River (Benton Co.) in 2003.....	26
Figure 36. Length frequency distribution of walleye in Banks Lake (Grant Co.) in 2003.....	28
Figure 37. Length frequency distribution of walleye in Liberty Lake (Spokane Co.) in 2003.	29
Figure 38. Length frequency distribution of walleye in the Moses Lake (Grant Co.) in 2003.	29
Figure 39. Length frequency distribution of walleye in Potholes Reservoir (Grant Co.) in 2003.....	30
Figure 40. Length frequency distribution of walleye in Lake Roosevelt (Ferry, Grant, Lincoln, Okanogan, and Stevens Cos.) in 2003.	30
Figure 41. Length frequency distribution of walleye in the Spokane River (Spokane Co.) in 2003.....	31
Figure 42. Length frequency distribution of walleye in Lake Umatilla (Benton and Klickitat Cos.) in 2003.	31
Figure 43. Length frequency distribution of black crappie in Long Lake (Spokane and Stevens Cos.) in 2003.....	33
Figure 44. Length frequency distribution of black crappie in Thompson Ponds (Kittitas Co.) in 2003.....	34

Introduction

The Washington State Department of Fish and Wildlife (WDFW) initiated the warmwater Volunteer Angler Diary program in 1990 as a cooperative effort between the Department's Fish Management Division and Washington's warmwater anglers. The program's primary objectives were to establish a database of catch information for warmwater fishes from a large cross-section of waters, and to improve communication and cooperation between the Department and the anglers. The program initially targeted bass and walleye. However, since 2000, the program was expanded to collect catch information on the six warmwater species managed under the Warmwater Enhancement Bill. Those species are: largemouth bass, smallmouth bass, walleye, black crappie, tiger muskie, and channel catfish.

Volunteer angler diary data is used in conjunction with biological sampling and creel census information in order to monitor the condition of, and assess future management options for, warmwater fish populations in Washington State.

Methods

Participants in the Volunteer Angler Diary Program are issued a waterproof, 6-ring notebook with a set of removable data sheets, along with instructions on how to complete them (Figure 1).

Volunteers agree to complete a data sheet for each fishing trip taken during the year for any of the six warmwater species. The anglers are to complete the sheets regardless of their fishing success. Anglers may also complete data sheets for friends and/or family that fish with them and are not actively participating in the program.

Volunteer anglers are asked to record their name, the date, water being fished, county, target species, number of each species caught, the length of each fish caught to the nearest quarter inch, the total number of hours fished for each species, and whether the fish caught are retained or released.

Completed data sheets are then to be returned to WDFW by the end of the year. New data sheets are automatically mailed to each volunteer returning completed forms. Volunteer Angler Diary data is then entered into a computer database. Catch summaries, including catch rates and hours fished, along with length frequency distribution graphs for each species are produced and published in an annual report.

VOLUNTEER ANGLER DIARY

DATE: / /

YOUR NAME: _____

WATER: _____
(Please provide name of lake, river or stream nearby)

COUNTY: _____

TARGET SPECIES: WAL LMB SMB BC TMK CC
(Circle all that apply for this trip)

Catch Information

	WAL	LMB	SMB	BC	TMK	CC
Record Total Lengths to the Nearest 1/4 inch R = Released (Please circle if released)	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
	R	R	R	R	R	R
Total Catch						
Hours Fished						

Please record comments or additional fish for this date on back.

Additional Catch Information

(for the date on reverse)

Species	Length	Species	Length	Species	Length
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R
	R		R		R

Record Total Lengths to the Nearest 1/4 inch
R = Released (Please circle if released)

Add additional fish to Total Catch on the front side

Comments:

Return completed diaries by end of year (or sooner)

Washington Dept. of Fish and Wildlife
Warmwater Fish Program
600 Capitol Way N.
Olympia, WA 98501-1091

Thank you !

Figure 1. Volunteer Angler Diary pages.

Results

Summary of General Results

Participation in the Volunteer Angler Diary Program has fluctuated since the program's inception in 1990 (Table 1). The goal of the program was to enlist 100 anglers from all regions of the state. Unfortunately, the program has fallen short of that goal. Since the inception of the program, 154 anglers signed up to participate and 37 have participated as guests. A large number of anglers (94) have dropped out of the program. These anglers either informed the agency that they no longer wished to participate, or efforts to contact them were unsuccessful.

Therefore, the current number of registered anglers is now at 60. The number of anglers participating (registered and guest anglers) in any given year has ranged from a low of 12 anglers in 1995 to a high of 45 anglers in 2000, with the average participation per year at 25 anglers. In 2003, a total of 42 anglers (27 registered anglers and 15 guest anglers) participated in the program.

Table 1. Angler participation and number of trips from 1990-2003.

Year	No. of Registered Anglers	No. of Participating Anglers	Percent Participation	No. of Trips
1990	no data	14	no data	210
1991	no data	21	no data	482
1992	no data	27	no data	760
1993	62	27	44	655
1994	32	17	53	361
1995	27	12	44	235
1996	45	21	47	583
1997	47	14	30	281
1998	48	13	27	201
1999	no data	no data	no data	no data
2000	92	45 ¹	14	402
2001	113	33 ²	25	271
2002	132	44 ³	27	549
2003	60	42 ⁴	62	493

¹ 32 participants were not registered

² 5 participants were not registered

³ 17 participants were not registered

⁴ 15 participants were not registered

The 42 anglers submitted data for a total of 510 individual fishing trips. The data from 20 (<1%) of these trips had to be excluded because they were unusable. Therefore, the final dataset came from data from a total of 490 individual fishing trips conducted on 68 different bodies of water.

A total of 744 largemouth bass, 807 smallmouth bass, 541 walleye, 71 black crappie, and 2 channel catfish were reported being caught. No tiger muskie were caught this year. Ninety-nine percent (N = 741) of the 744 largemouth bass caught were released. Ninety-nine percent (N = 780) of the 787 smallmouth bass caught were released. Forty-nine percent (N = 263) of the 545 walleye caught were released. Seventeen percent (N = 12) of the 71 black crappie caught were released. One hundred percent (N = 2) of the 2 channel catfish caught were released.

Largemouth Bass

Catch Data

A total of 369 largemouth bass, 12 inches or greater, were caught in 792.4 hours fished on 156 individual fishing trips to 47 different waters in 2003. Catch and release information was available for all trips. Anglers reported practicing catch and release fishing on largemouth bass in 2003 on 154 (99%) trips. Catch and release information was available for 744 individual largemouth bass of all sizes caught. Ninety-nine percent (741) of those fish were released. Catch and release information was also available for 369 individual largemouth bass 12 inches or greater caught. One hundred percent of those fish were released.

A complete summary of catch, hours fished and catch rates for largemouth bass 12 inches or greater are listed for each individual water fished in 2003 in which at least one largemouth bass greater than 12 inches was caught (Table 2).

Table 2. Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for largemouth bass 12 inches or greater for each individual water fished in 2003.

Water	County	No. of Trips	Hours Fished	No. Fish Caught	CPUE	Avg. Trip Length (hrs)
Banks	Grant	4	17.5	8	0.46	4.4
Beaver	King	1	4.0	2	0.50	4.0
Big	Skagit	1	4.0	3	0.75	4.0
Black	Thurston	1	8.0	3	0.38	8.0
Campbell	Skagit	3	9.5	5	0.53	3.2
Cascade	San Juan	1	5.0	1	0.20	5.0
Clear	Skagit	1	7.0	1	0.14	7.0
Coffee Pot	Lincoln	2	16.0	6	0.38	8.0
Cottage	King	1	2.5	3	1.20	2.5
Duck	Grays Harbor	3	16.3	6	0.37	5.4
Fenwick	King	15	42.2	2	0.05	2.8
Flowing	Snohomish	2	6.0	6	1.00	3.0
Heart	Skagit	3	8.0	2	0.25	2.7
Isabella	Mason	1	3.5	1	0.29	3.5

Table 2 (cont'd.). Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for largemouth bass 12 inches or greater for each individual water fished in 2003

Water	County	No. of Trips	Hours Fished	No. Fish Caught	CPUE	Avg. Trip Length (hrs)
Ki	Snohomish	2	6.0	4	0.67	3.0
Killebrew	San Juan	1	7.0	2	0.29	7.0
Leland	Jefferson	9	74.0	15	0.20	8.2
Liberty	Spokane	9	18.5	9	0.49	2.1
Long	Kitsap	13	115.5	44	0.38	8.9
Long	Thurston	2	9.0	6	0.67	4.5
Lost	Mason	1	3.5	3	0.86	3.5
Nahwatzel	Mason	2	14.0	10	0.71	7.0
Okanogan	Okanogan	4	10.0	9	0.90	2.5
Palmer	Okanogan	2	9.0	18	2.00	4.5
Panther	Snohomish	1	3.0	1	0.33	3.0
Potholes	Grant	9	57.8	26	0.45	6.4
Riffe	Lewis	3	13.0	9	0.69	4.3
Roesiger	Snohomish	1	5.5	1	0.18	5.5
Samish	Whatcom	2	10.8	2	0.19	5.4
Sammamish	King	3	11.5	3	0.26	3.8
Shoecraft	Snohomish	1	2.5	1	0.40	2.5
Silver	Cowlitz	2	14.0	4	0.29	7.0
Soda	Grant	1	3.5	1	0.29	3.5
Spanaway	Pierce	2	8.0	4	0.50	4.0
St. Clair	Thurston	5	17.5	16	0.91	3.5
Steel	King	1	3.0	1	0.33	3.0
Terrell	Whatcom	24	156.5	52	0.33	6.5
Umatilla	Benton, Klickitat	1	6.0	2	0.33	6.0
Vancouver	Clark	1	9.5	2	0.21	9.5
Wallula	Benton, Franklin, Walla Walla, Grant	4	20.0	17	0.85	5.0
Washburn	Okanogan	3	6.0	40	6.67	2.0
Washington	King	2	5.0	1	0.20	2.5
Whitestone	Okanogan	2	9.0	17	1.89	4.5
Totals		152	777.9	369	0.47	5.1

Length Frequency Distributions

A total of 124 largemouth bass, ranging from 4 inches to 14 inches, were caught on 15 fishing trips to Fenwick Lake (King County) in 2003 (Figure 2).

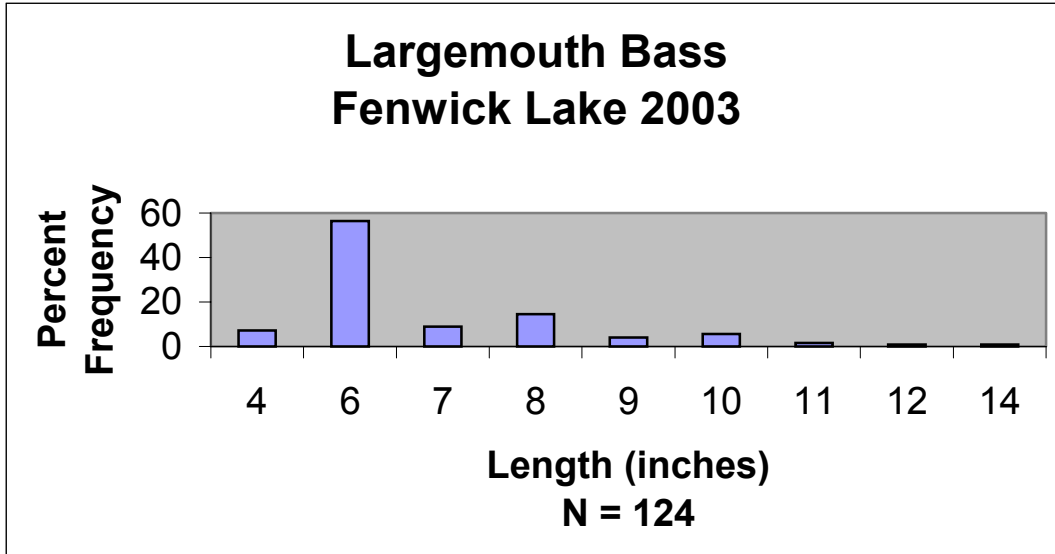


Figure 2. Length frequency distribution of largemouth bass in Fenwick Lake (King Co.) in 2003.

A total of 24 largemouth bass, ranging from 8 inches to 20 inches, were caught on 9 fishing trips to Leland Lake (Jefferson County) in 2003 (Figure 3).

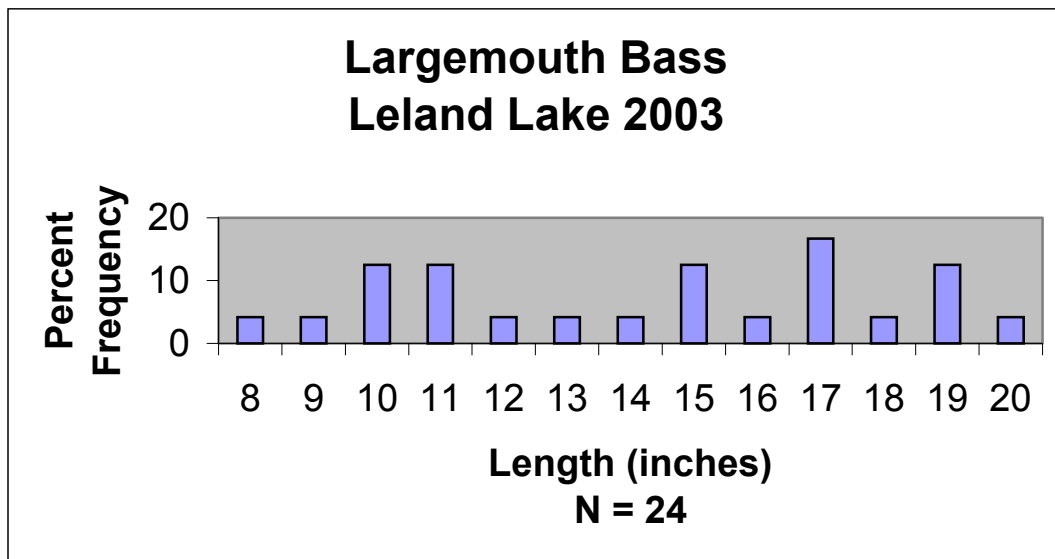


Figure 3. Length frequency distribution of largemouth bass in Leland Lake (Jefferson Co.) in 2003.

A total of 10 largemouth bass, ranging from 11 inches to 22 inches, were caught on 9 fishing trips to Liberty Lake (Spokane County) in 2003 (Figure 4).

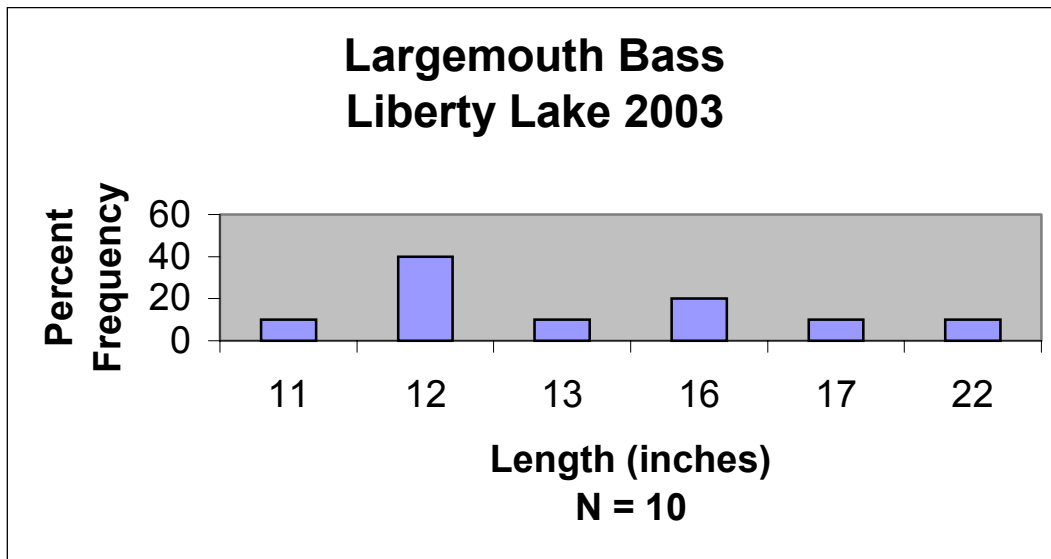


Figure 4. Length frequency distribution of largemouth bass in Liberty Lake (Spokane Co.) in 2003.

A total of 73 largemouth bass, ranging from 6 inches to 20 inches, were caught on 13 fishing trips to Long Lake (Kitsap County) in 2003 (Figure 5).

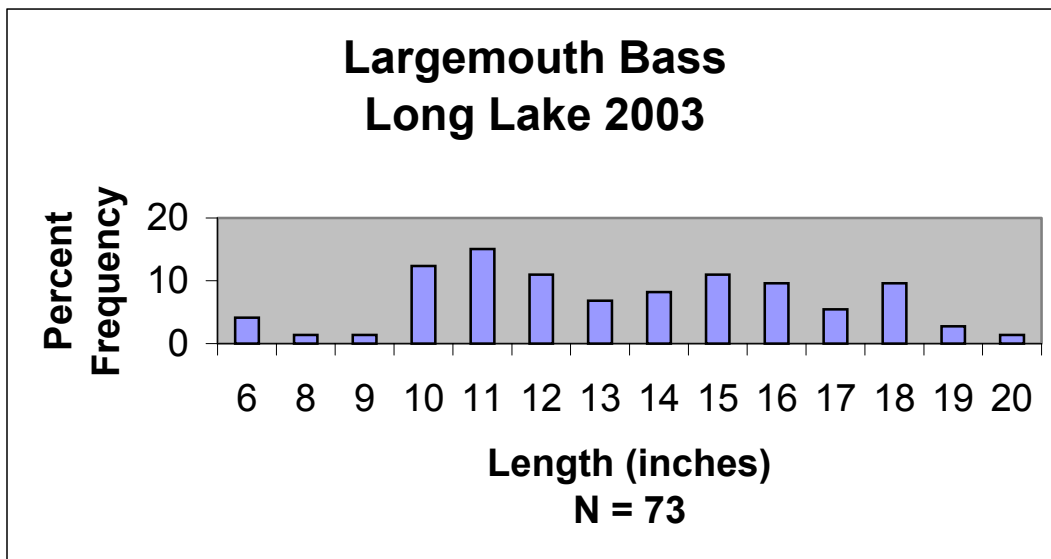


Figure 5. Length frequency distribution of largemouth bass in Long Lake (Kitsap Co.) in 2003.

A total of 26 largemouth bass, ranging from 5 inches to 22 inches, were caught on 2 fishing trips to Nahwatzel Lake (Mason County) in 2003 (Figure 6).

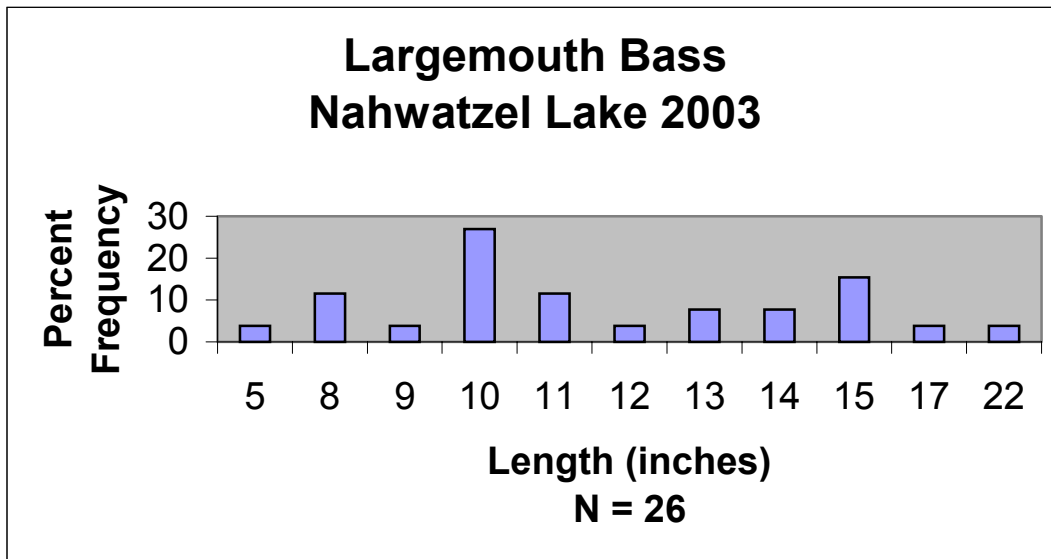


Figure 6. Length frequency distribution of largemouth bass in Nahwatzel Lake (Mason Co.) in 2003.

A total of 18 largemouth bass, ranging from 14 inches to 22 inches, were caught on 2 fishing trips to Palmer Lake (Okanogan County) in 2003 (Figure 7).

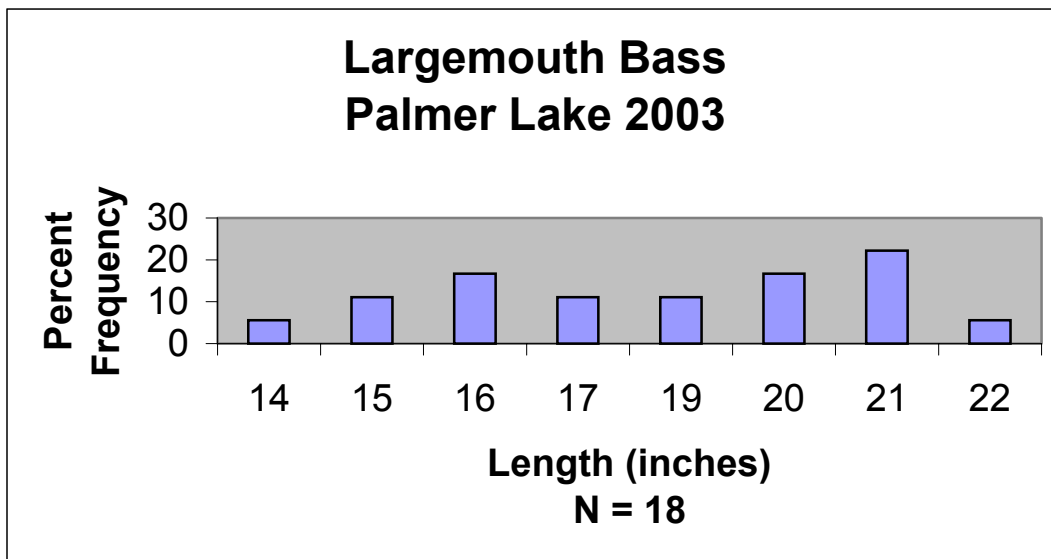


Figure 7. Length frequency distribution of largemouth bass in Palmer Lake (Okanogan Co.) in 2003.

A total of 30 largemouth bass, ranging from 7 inches to 19 inches, were caught on 9 fishing trips to Potholes Reservoir (Grant County) in 2003 (Figure 8).

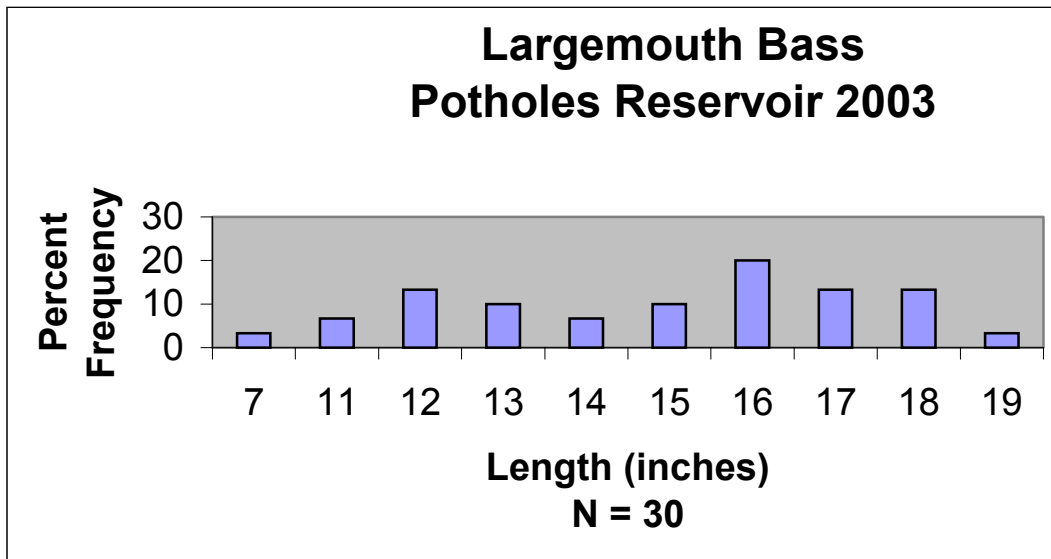


Figure 8. Length frequency distribution of largemouth bass in Potholes Reservoir (Grant Co.) in 2003.

A total of 35 largemouth bass, ranging from 5 inches to 18 inches, were caught on 5 fishing trips to Lake St. Clair (Thurston County) in 2003 (Figure 9).

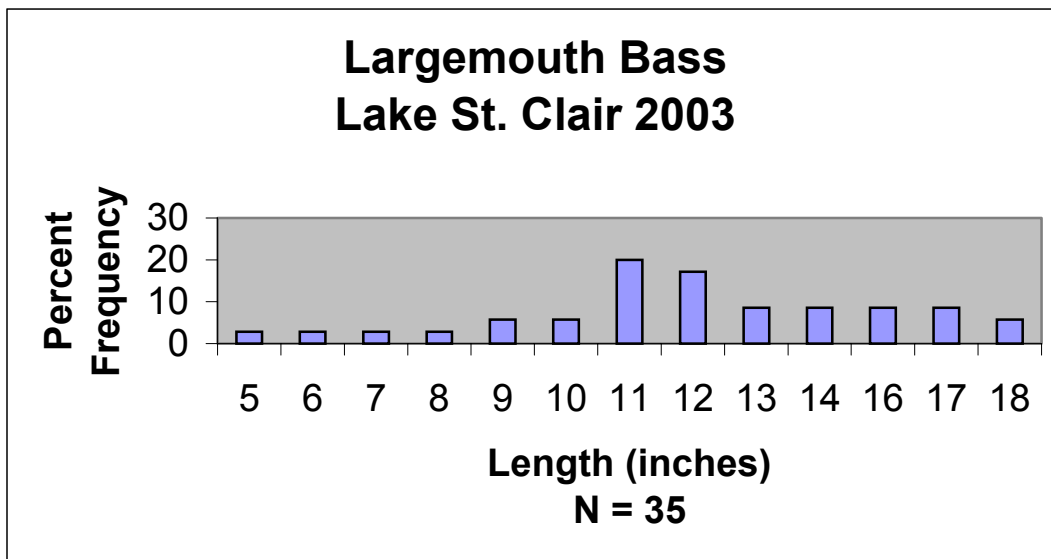


Figure 9. Length frequency distribution of largemouth bass in Lake St. Clair (Thurston Co.) in 2003.

A total of 13 largemouth bass, ranging from 4 inches to 14 inches, were caught on 1 fishing trip to Steel Lake (King County) in 2003 (Figure 10).

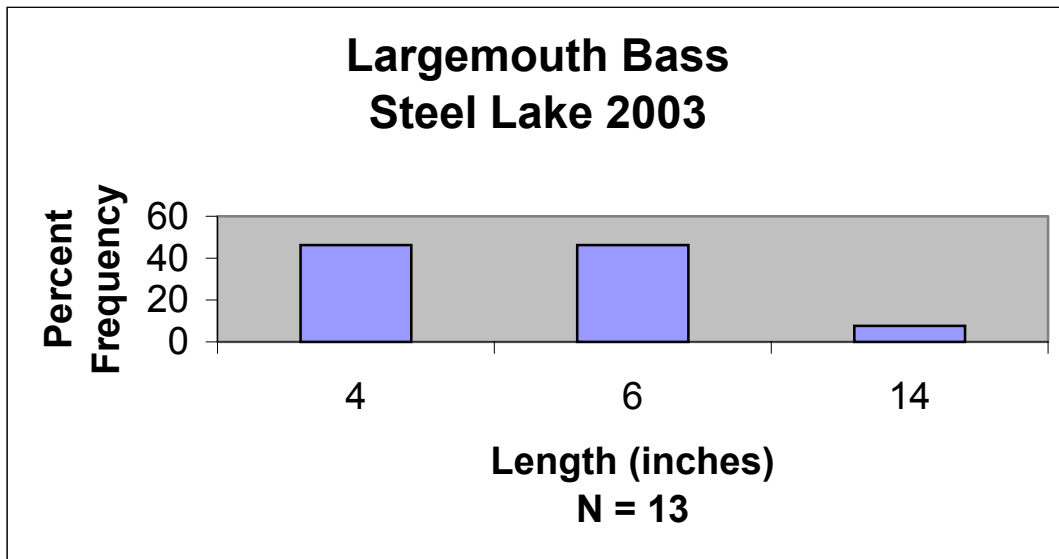


Figure 10. Length frequency distribution of largemouth bass in Steel Lake (King Co.) in 2003.

A total of 147 largemouth bass, ranging from 5 inches to 20 inches, were caught on 24 fishing trips to Terrell Lake (Whatcom County) in 2003 (Figure 11).

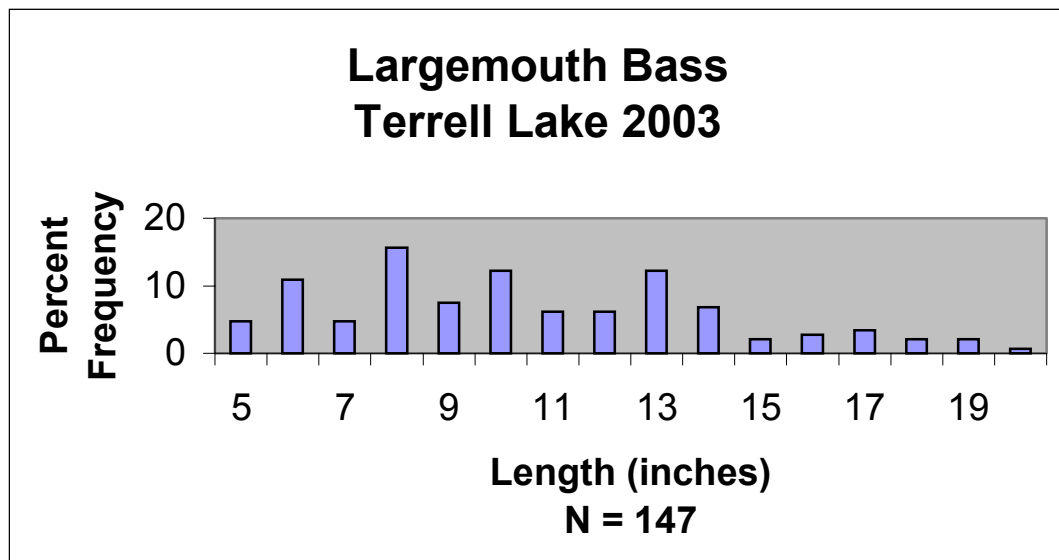


Figure 11. Length frequency distribution of largemouth bass in Terrell Lake (Whatcom Co.) in 2003.

A total of 25 largemouth bass, ranging from 9 inches to 21 inches, were caught on 4 fishing trips to Lake Wallula (Benton, Franklin, Grant, and Walla Walla Counties) in 2003 (Figure 12).

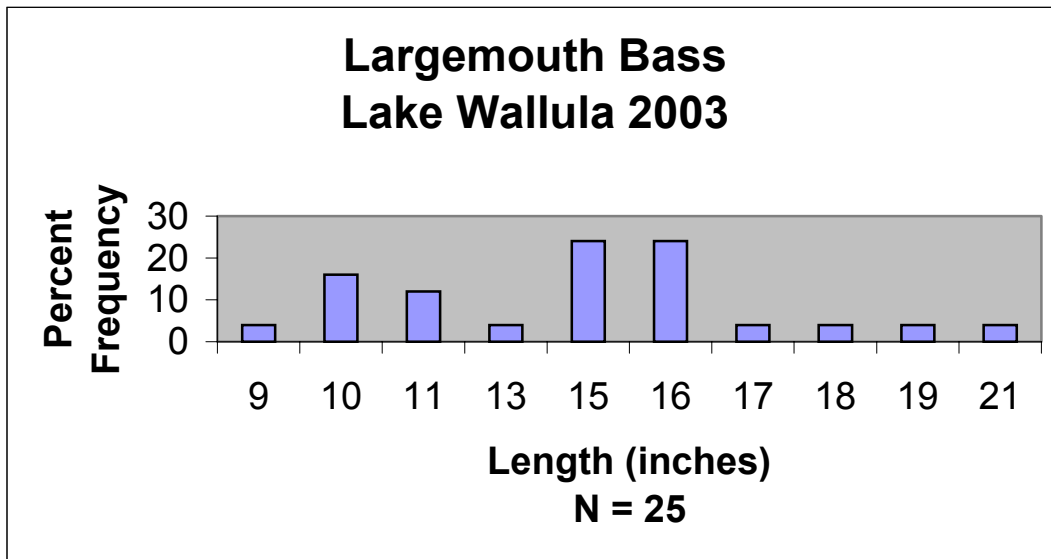


Figure 12. Length frequency distribution of largemouth bass in Lake Wallula (Benton, Franklin, Grant, and Walla Walla Cos.) in 2003.

A total of 41 largemouth bass, ranging from 11 inches to 23 inches, were caught on 3 fishing trips to Washburn Lake (Okanogan County) in 2003 (Figure 13).

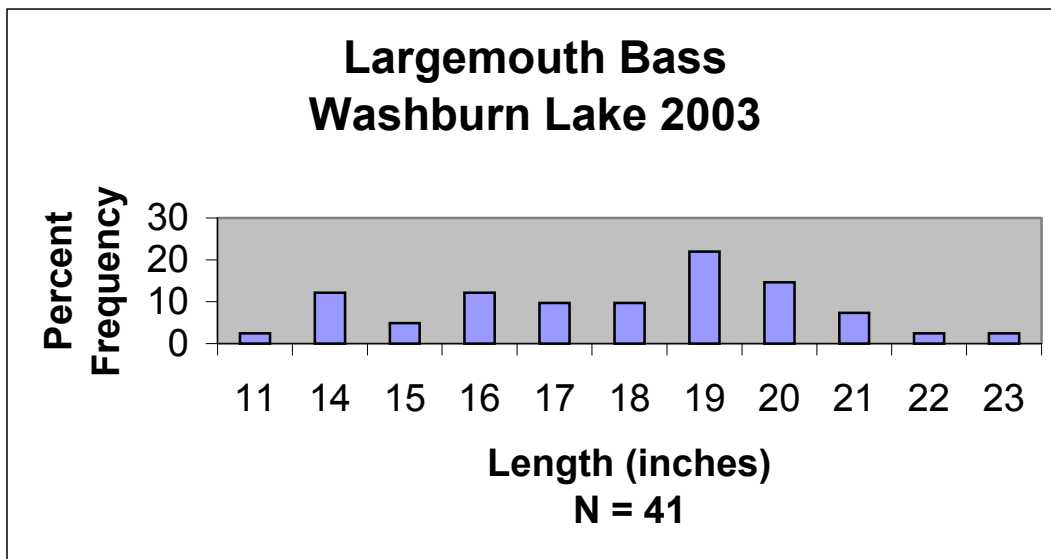


Figure 13. Length frequency distribution of largemouth bass in Washburn Lake (Okanogan Co.) in 2003.

A total of 17 largemouth bass, ranging from 14 inches to 22 inches, were caught on 2 fishing trips to Whitestone Lake (Okanogan County) in 2003 (Figure 14).

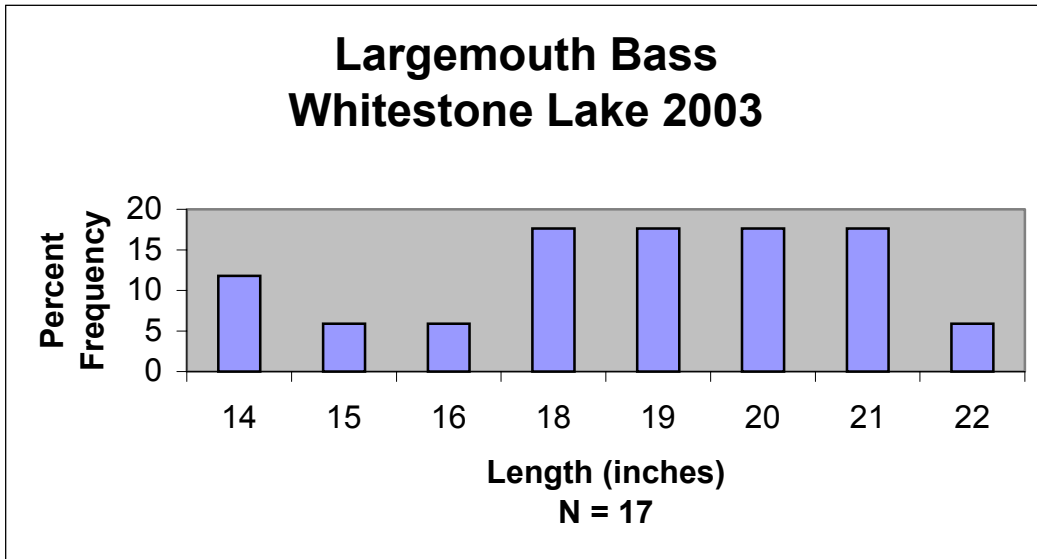


Figure 14. Length frequency distribution of largemouth bass in Whitestone Lake (Okanogan Co.) in 2003.

Comparative Catch Information

The statewide catch rate or catch per unit effort (CPUE) for largemouth bass of any size was 0.94 fish per hour in 2003. This is now highest statewide CPUE for largemouth bass of any size. The previous high CPUE was 0.77 fish per hour in 1993. The CPUE for other years in which data was collected, ranged from 0.39 to 0.73 (Table 3). The statewide CPUE for largemouth bass 12 inches or greater was 0.47 fish per hour in 2003. The statewide catch rate for largemouth bass 12 inches or greater was highest in 1993 at 0.59 fish per hour. The CPUE for other years in which data was collected, ranged from 0.16 to 0.51 (Table 3).

Table 3. Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for largemouth bass caught of any size and for largemouth bass 12 inches or greater, 1990-2003 (No data was available for 1999).

Year	No. of Waters	Hours Fished	All Sizes		≥ 12 inches	
			No. Caught	CPUE	No. Caught	CPUE
1990	27	805.0	573	0.71	291	0.36
1991	48	1,985.0	1,148	0.58	589	0.30
1992	42	2,408.0	1,574	0.65	1,227	0.51
1993	40	1,953.0	1,505	0.77	1,149	0.59
1994	23	1,047.0	573	0.55	402	0.38
1995	16	617.5	290	0.47	186	0.30
1996	25	925.0	494	0.53	295	0.32
1997	23	751.0	316	0.42	145	0.19
1998	16	454.0	178	0.39	71	0.16
1999	no data	no data	no data	no data	no data	no data
2000	17	226.5	122	0.54	40	0.18
2001	30	462.8	336	0.73	168	0.36
2002	45	755.8	531	0.70	337	0.45
2003	47	792.4	744	0.94	369	0.47

Smallmouth Bass

Catch Data

A total of 648 smallmouth bass, 11 inches or greater, were caught in 639.5 hours fished on 140 individual fishing trips to 26 different waters in 2003. Catch and release information was available for all trips. Anglers reported practicing catch and release on 135 (96%) trips. Catch and release information was available for 787 individual smallmouth bass of all sizes caught. Ninety-nine percent (780) of those fish were released. Catch and release information was also available for 648 individual largemouth bass 11 inches or greater caught. Ninety-nine percent (643) of those fish were released.

A complete summary of catch, hours fished and catch rates for smallmouth bass 11 inches or greater are listed for each individual water fished in 2003 in which at least one smallmouth bass greater than 11 inches was caught (Table 4).

Table 4. Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for smallmouth bass 11 inches or greater for each individual water fished in 2003.

Water	County	No. of Trips	Hours Fished	No. Fish Caught	CPUE	Avg. Trip Length (hrs)
Banks	Grant	10	31.5	82	2.60	3.2
Below Bonneville	Clark, Cowlitz, Pacific, Wahkiakum, Skamania	1	6.0	11	1.83	6.0
Celilo	Klickitat	3	12.5	14	1.12	4.2
Herbert G. West	Columbia, Franklin, Walla Walla, Whitman	4	33.5	26	0.78	8.8
Long	Spokane, Stevens	3	14.0	3	0.21	8.0
Moses	Grant	6	27.0	4	0.15	4.5
Okanogan	Okanogan	4	10.0	42	4.20	2.5
Palmer	Okanogan	2	9.0	43	4.78	4.5
Pine	King	3	10.5	4	0.38	3.5
Potholes	Grant	7	37.5	17	0.45	5.4
Priest Rapids	Yakima, Grant, Kittitas	2	10.0	10	1.00	5.0
Riffe	Lewis	5	30.5	18	0.59	6.1
Roosevelt	Ferry, Lincoln, Grant, Okanogan, Stevens	3	16.5	11	0.67	7.5
Samish	Whatcom	1	4.0	2	0.50	4.0
Sammamish	King	10	62.0	24	0.39	6.2
Soda	Grant	2	11.5	2	0.17	5.8
Spanaway	Pierce	2	7.0	4	0.57	3.5
Stevens	Snohomish	5	26.0	16	0.62	5.2
Terrell	Whatcom	4	18.5	11	0.59	4.6
Umatilla	Benton, Klickitat	8	45.0	31	0.69	5.3
Wallula	Benton, Franklin, Walla Walla, Grant	20	70.0	142	2.03	3.2
Washington	King	2	13.0	5	0.38	6.5
Whatcom	Whatcom	20	87.0	51	0.59	4.4
Whitestone	Okanogan	2	9.0	17	1.89	4.5
Yakima	Benton	10	32.0	58	1.81	3.2
Total		139	633.5	648	1.02	4.6

Length Frequency Distributions

A total of 92 smallmouth bass, ranging from 8 inches to 20 inches, were caught on 10 fishing trips to Banks Lake (Grant County) in 2003 (Figure 15).

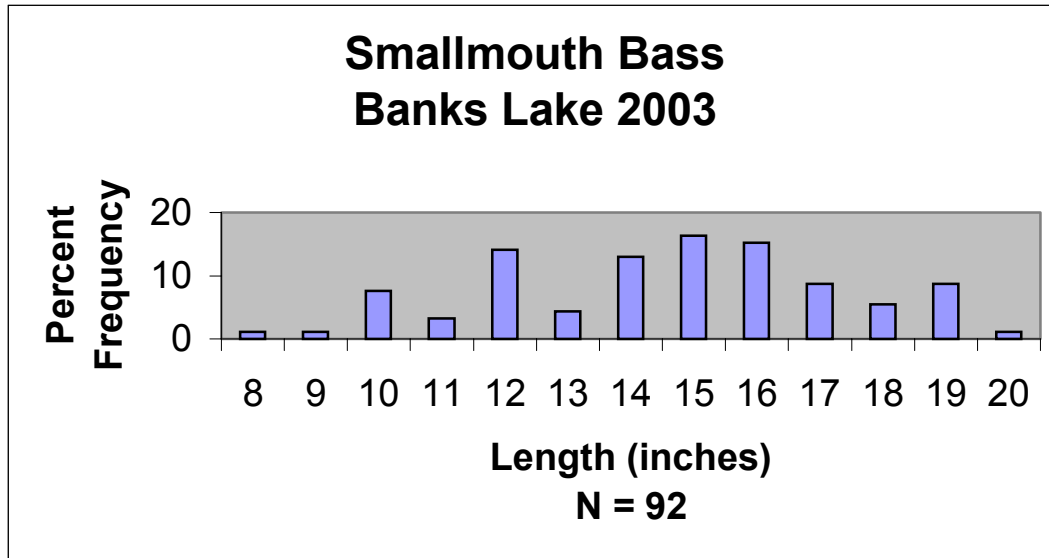


Figure 15. Length frequency distribution of largemouth bass in Banks Lake (Grant Co.) in 2002.

A total of 11 smallmouth bass, ranging from 14 inches to 18 inches, were caught on 1 fishing trip to the lower Columbia River (Clark, Cowlitz, Pacific, Skamania, and Wahkiakum Counties) in 2003 (Figure 16).

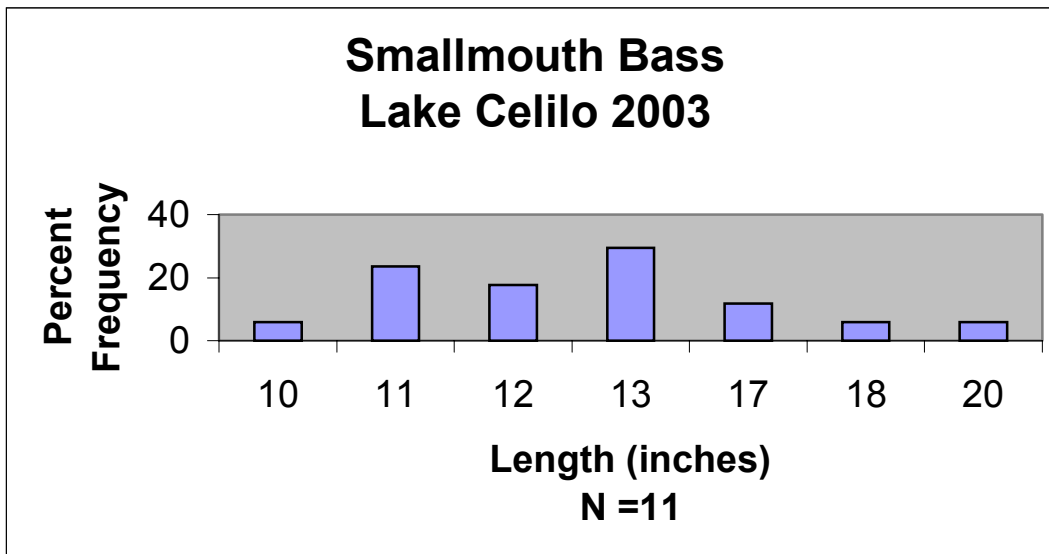


Figure 16. Length frequency distribution of largemouth bass in the lower Columbia River (Clark, Cowlitz, Pacific, Skamania, and Wahkiakum Cos.) in 2003.

A total of 17 smallmouth bass, ranging from 10 inches to 20 inches, were caught on 3 fishing trips to Lake Celilo (Klickitat County) in 2003 (Figure 17).

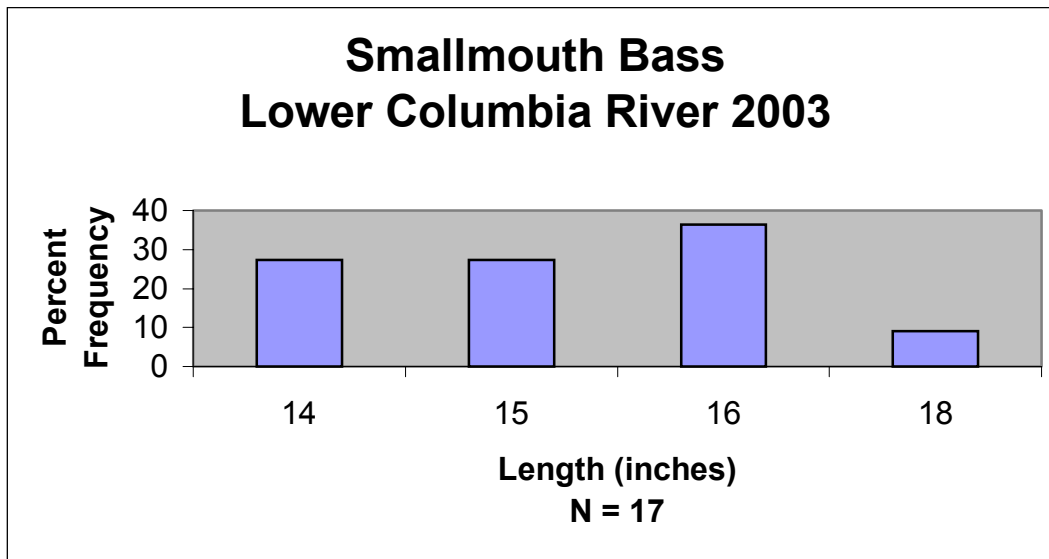


Figure 17. Length frequency distribution of largemouth bass in Lake Celilo (Klickitat Co.) in 2003.

A total of 39 smallmouth bass, ranging from 7 inches to 18 inches, were caught on 4 fishing trips to Lake Herbert G. West (Columbia, Franklin, Walla Walla, and Whitman Counties) in 2003 (Figure 18).

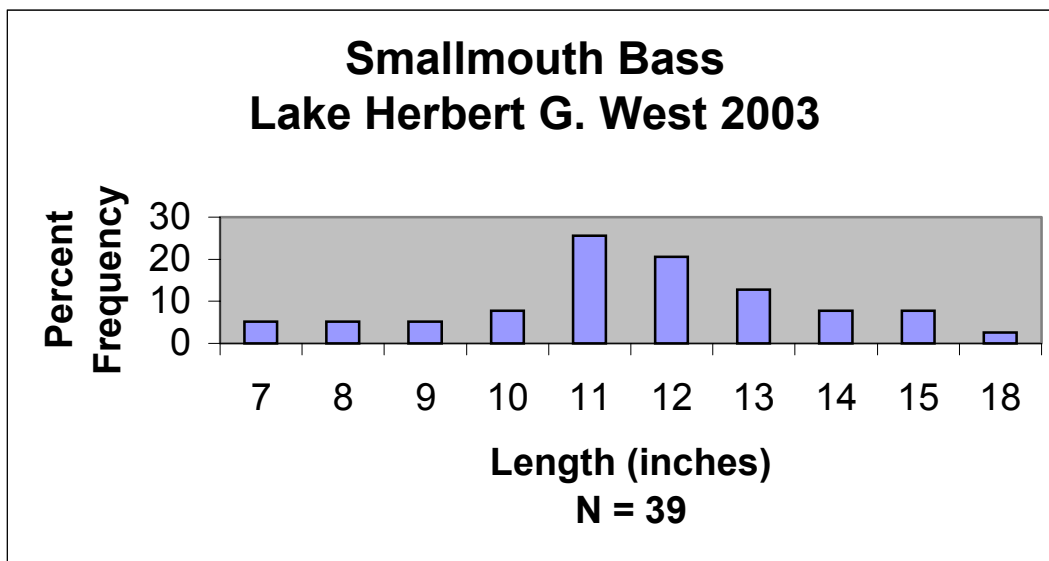


Figure 18. Length frequency distribution of largemouth bass in Lake Herbert G. West (Columbia, Franklin, Walla Walla, and Whitmant Cos.) in 2003.

A total of 22 smallmouth bass, ranging from 6 inches to 13 inches, were caught on 3 fishing trips to Long Lake (Spokane and Stevens Counties) in 2003 (Figure 19).

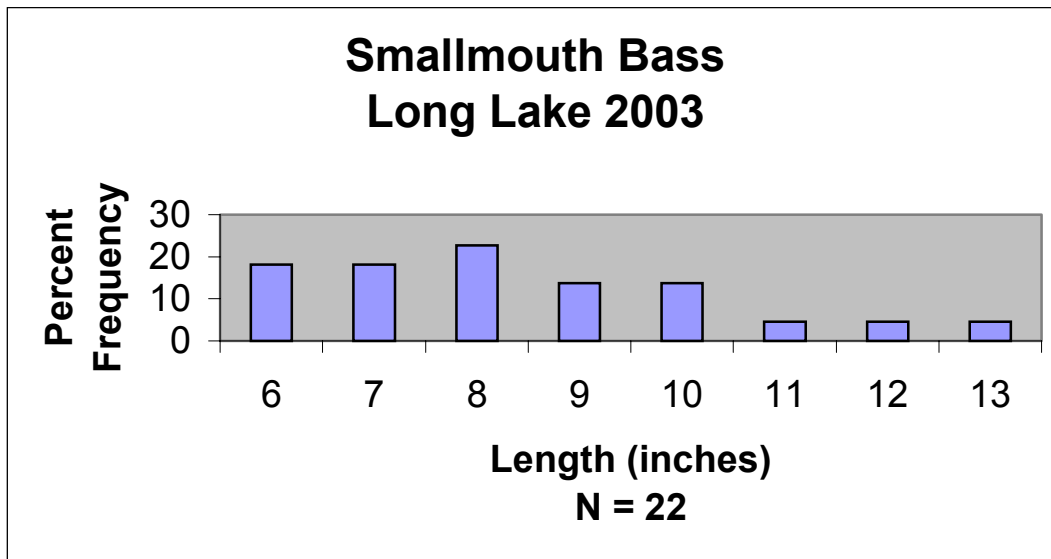


Figure 19. Length frequency distribution of largemouth bass in the Long Lake (Spokane and Stevens Cos.) in 2003.

A total of 56 smallmouth bass, ranging from 8 inches to 19 inches, were caught on 4 fishing trips to the Okanogan River (Okanogan County) in 2003 (Figure 20).

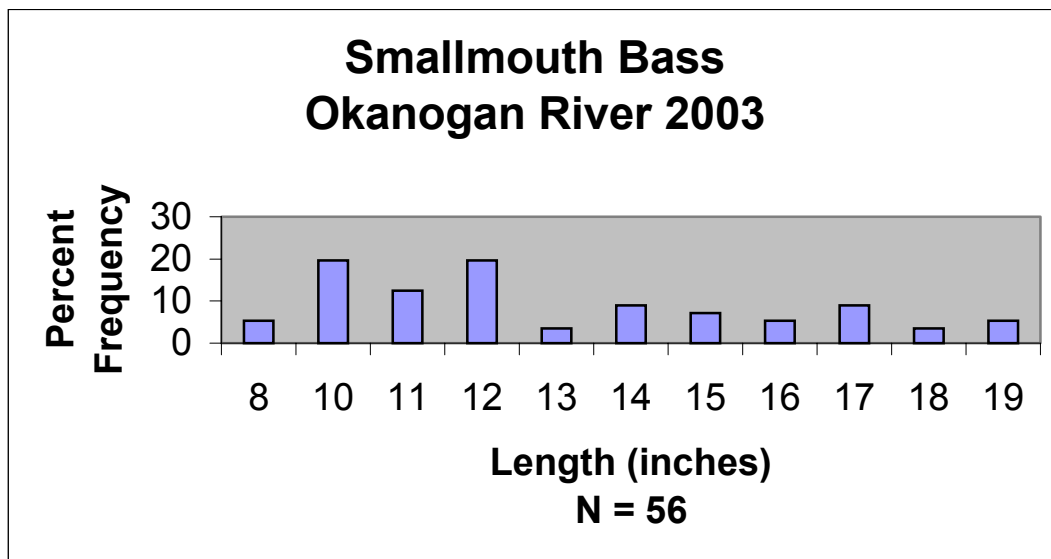


Figure 20. Length frequency distribution of largemouth bass in the Okanogan River (Okanogan Co.) in 2003.

A total of 43 smallmouth bass, ranging from 12 inches to 22 inches, were caught on 2 fishing trips to Palmer Lake (Okanogan County) in 2003 (Figure 21).

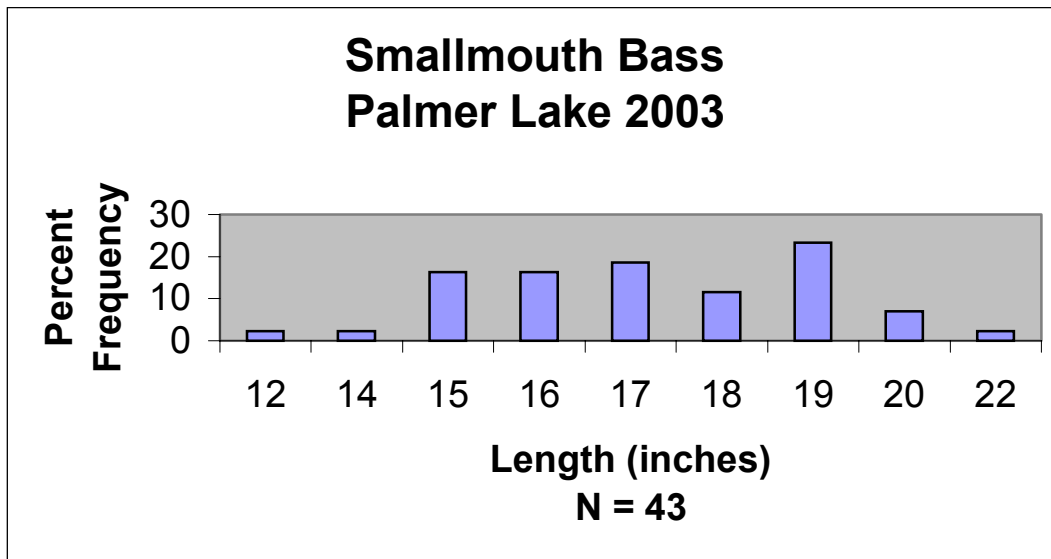


Figure 21. Length frequency distribution of largemouth bass in Palmer Lake (Okanogan Co.) in 2003.

A total of 16 smallmouth bass, ranging from 5 inches to 19 inches, were caught in 3 fishing trips to Pine Lake (King County) in 2003 (Figure 22).

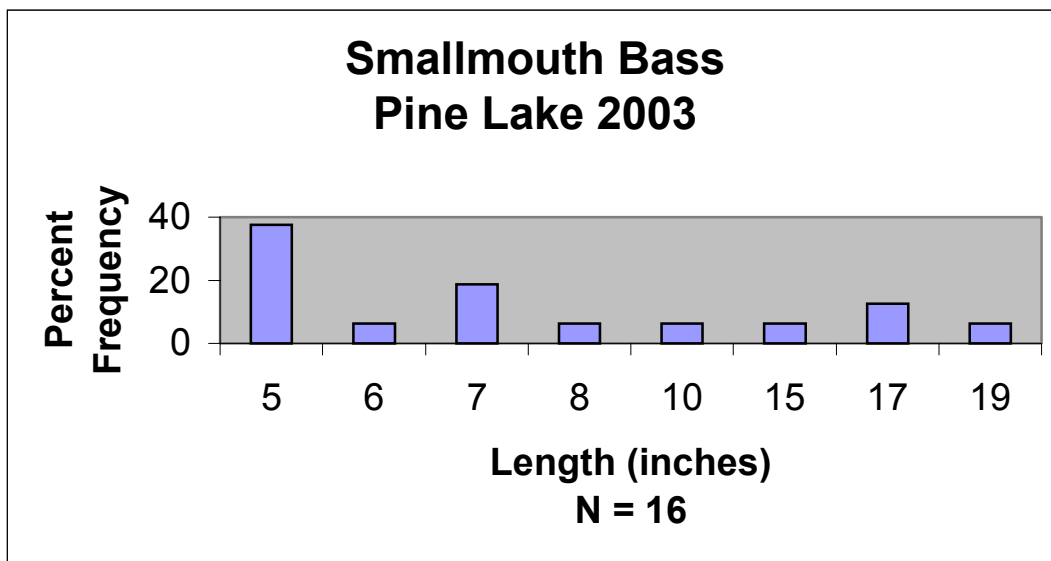


Figure 22. Length frequency distribution of largemouth bass in Pine Lake (King Co.) in 2003.

A total of 24 smallmouth bass, ranging from 6 inches to 15 inches, were caught on 7 fishing trips to Potholes Reservoir (Grant County) in 2003 (Figure 23).

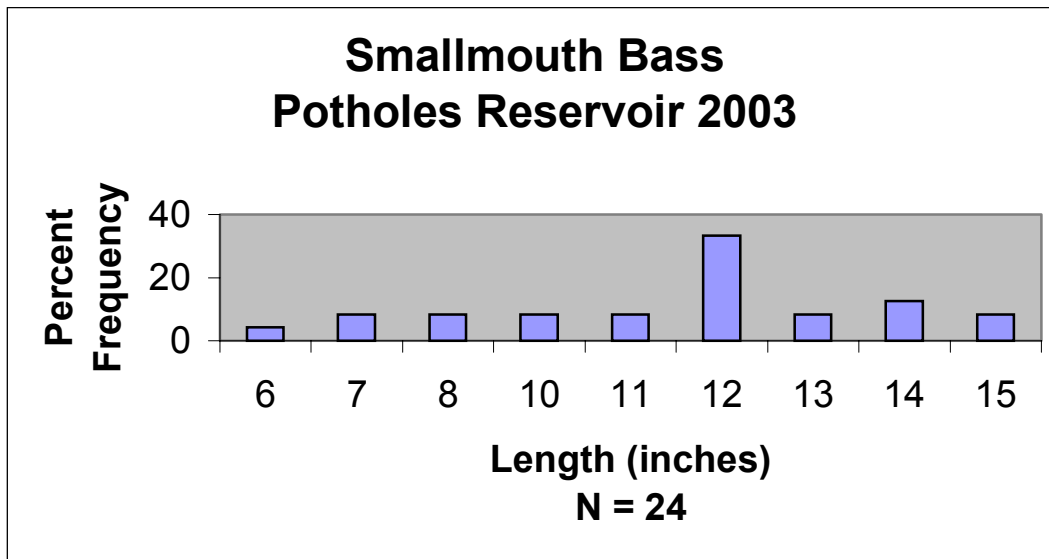


Figure 23. Length frequency distribution of largemouth bass in Potholes Reservoir (Grant Co.) in 2003.

A total of 11 smallmouth bass, ranging from 10 inches to 21 inches, were caught on 2 fishing trips to Priest Rapids Lake (Grant, Kittitas, and Yakima Counties) in 2003 (Figure 24).

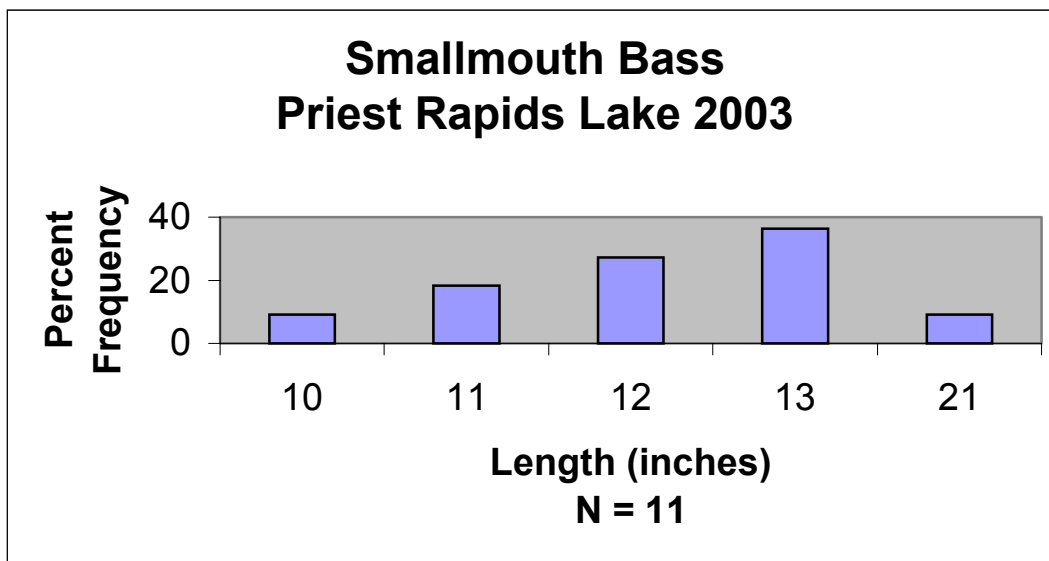


Figure 24. Length frequency distribution of largemouth bass in Priest Rapids Lake (Grant, Kittitas, and Yakima Cos.) in 2003.

A total of 20 smallmouth bass, ranging from 9 inches to 18 inches, were caught on 5 fishing trips to Riffe Lake (Lewis County) in 2003 (Figure 25).

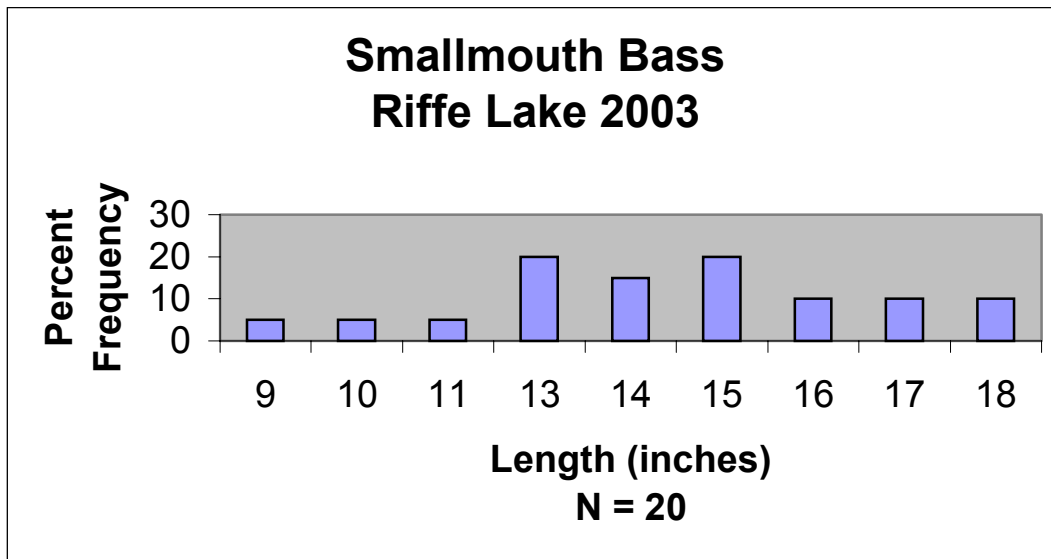


Figure 25. Length frequency distribution of largemouth bass in Riffe Lake (Lewis Co.) in 2003.

A total of 18 smallmouth bass, ranging from 8 inches to 16 inches, were caught on 3 fishing trips to Lake Roosevelt (Ferry, Grant, Lincoln, Okanogan, and Stevens Counties) in 2003 (Figure 26).

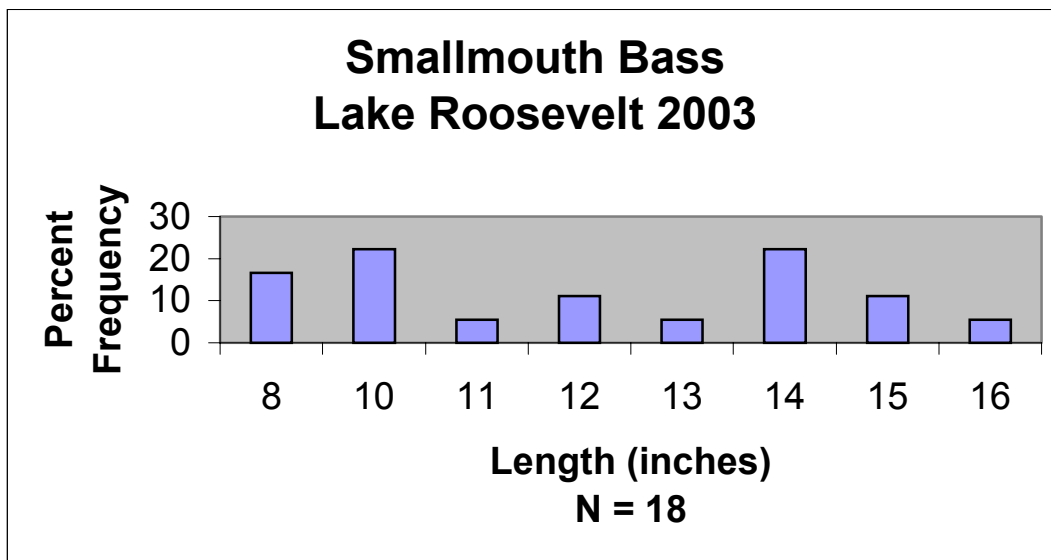


Figure 26. Length frequency distribution of largemouth bass in Lake Roosevelt (Ferry, Grant, Lincoln, Okanogan, and Stevens Cos.) in 2003.

A total of 27 smallmouth bass, ranging from 8 inches to 19 inches, were caught on 10 fishing trips to Lake Sammamish (King County) in 2003 (Figure 27).

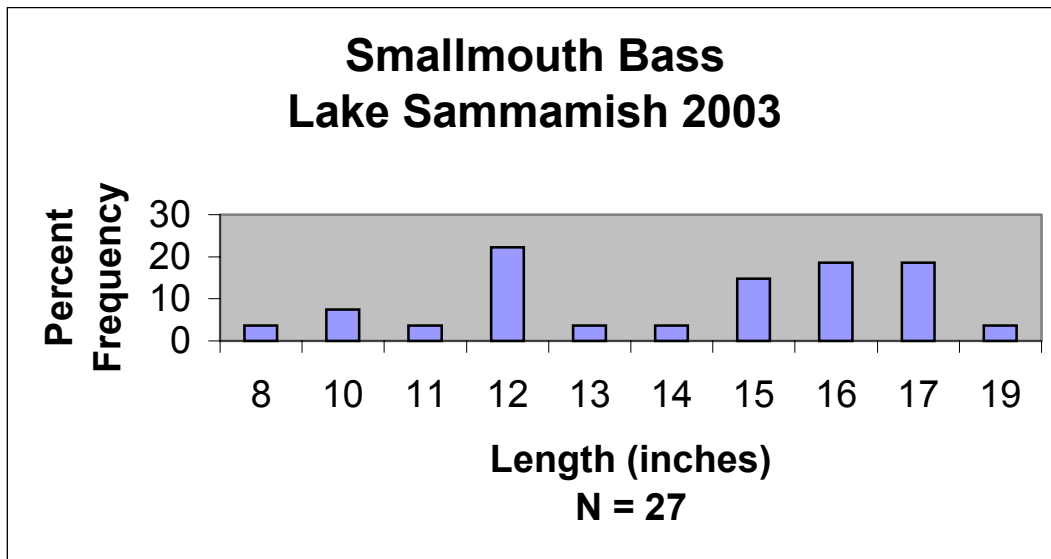


Figure 27. Length frequency distribution of largemouth bass in Lake Sammamish (King Co.) in 2003.

A total of 16 smallmouth bass, ranging from 15 inches to 20 inches, were caught on 5 fishing trips to Stevens Lake (Snohomish County) in 2003 (Figure 28).

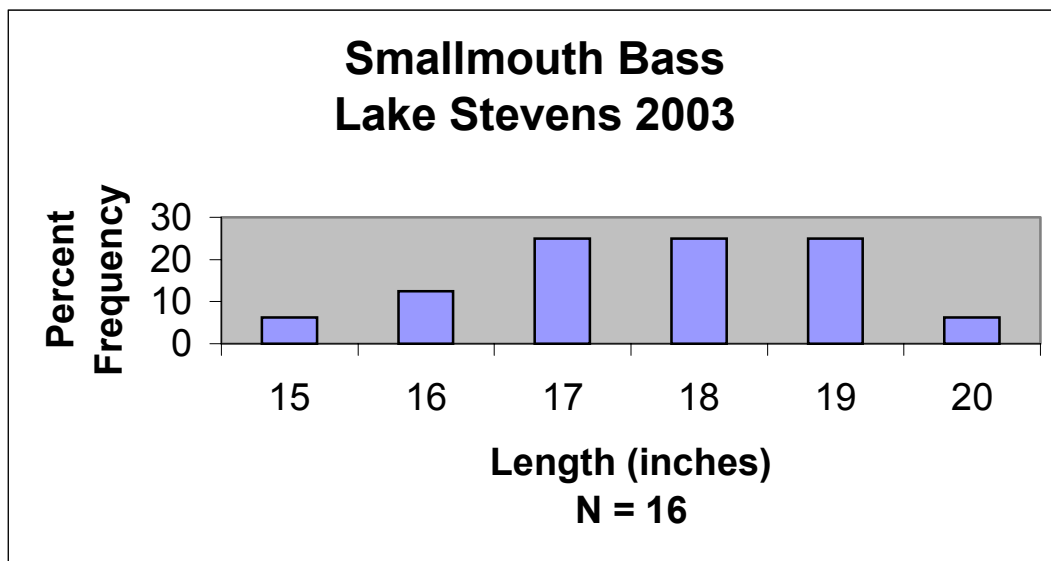


Figure 28. Length frequency distribution of largemouth bass in Stevens Lake (Snohomish Co.) in 2003.

A total of 28 smallmouth bass, ranging from 6 inches to 16 inches, were caught on 4 fishing trips to Terrell Lake (Whatcom County) in 2003 (Figure 29).

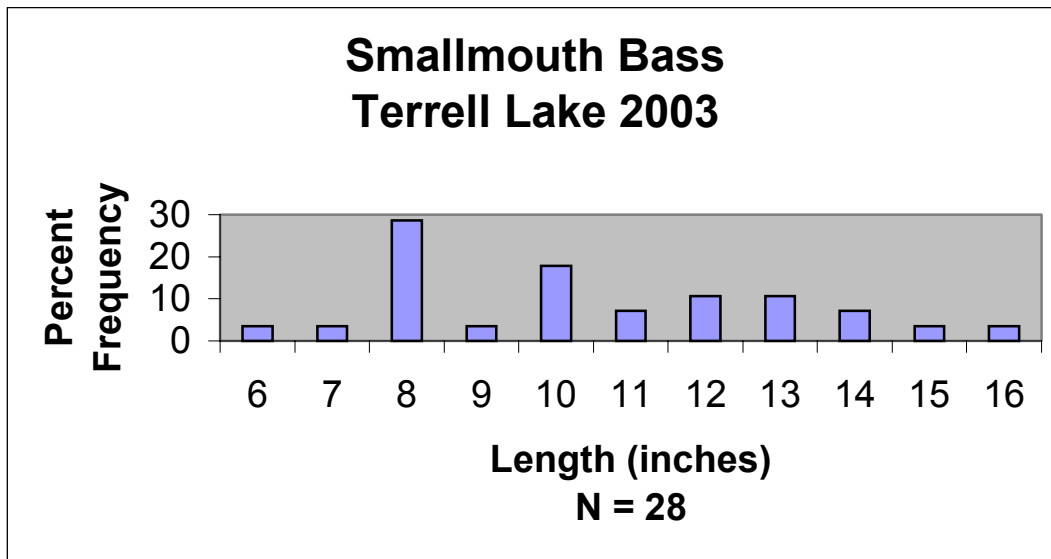


Figure 29. Length frequency distribution of largemouth bass in Terrell Lake (Whatcom Co.) in 2003.

A total of 36 smallmouth bass, ranging from 6 inches to 19 inches, were caught on 8 fishing trips to Lake Umatilla (Benton and Klickitat Counties) in 2003 (Figure 30).

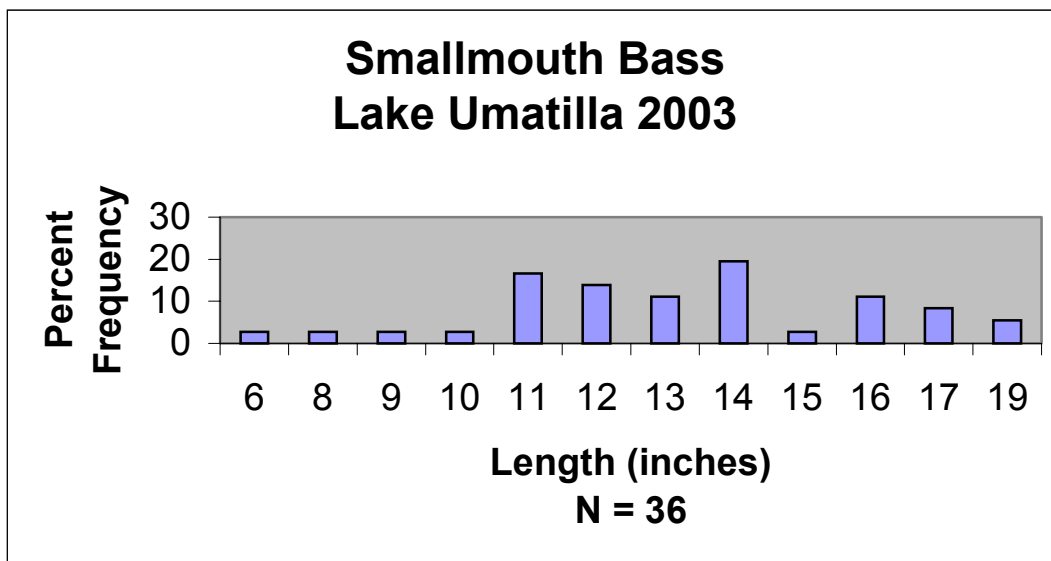


Figure 30. Length frequency distribution of largemouth bass in Lake Umatilla (Benton and Klickitat Cos.) in 2003.

A total of 149 smallmouth bass, ranging from 10 inches to 22 inches, were caught on 20 fishing trips to Lake Wallula (Benton, Franklin, Grant, and Walla Walla Counties) in 2003 (Figure 31).

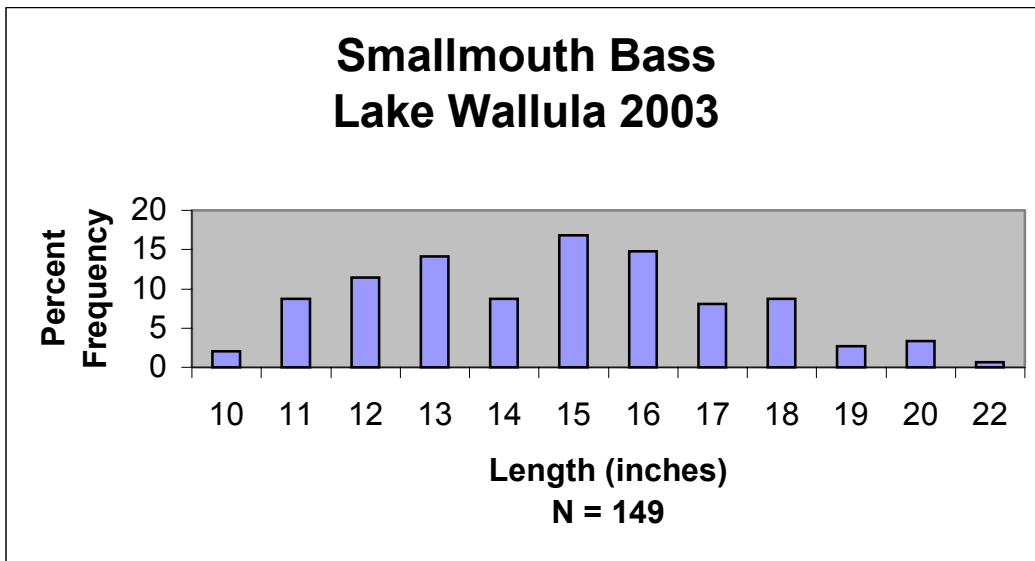


Figure 31. Length frequency distribution of largemouth bass in Lake Wallula (Benton, Franklin, Grant, and Walla Walla Cos.) in 2003.

A total of 14 smallmouth bass, ranging from 8 inches to 19 inches, were caught on 2 fishing trips to Lake Washington (King County) in 2003 (Figure 32).

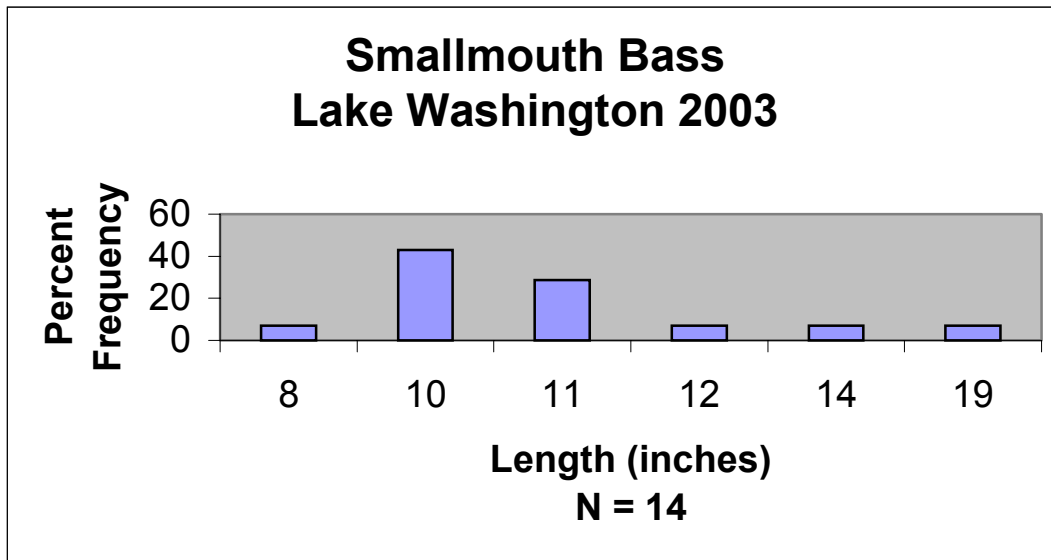


Figure 32. Length frequency distribution of largemouth bass in Lake Washington (King Co.) in 2003.

A total of 55 smallmouth bass, ranging from 6 inches to 23 inches, were caught on 20 fishing trips to Whatcom Lake (Whatcom County) in 2003 (Figure 33).

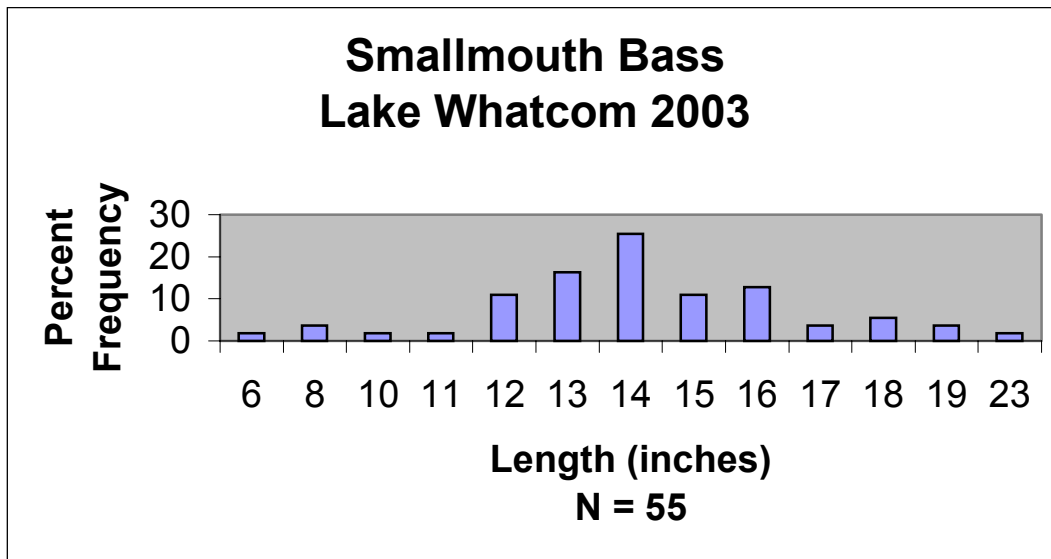


Figure 33. Length frequency distribution of largemouth bass in Lake Whatcom (Whatcom Co.) in 2003.

A total of 17 smallmouth bass, ranging from 13 inches to 22 inches, were caught on 2 fishing trips to Whitestone Lake (Okanogan County) in 2003 (Figure 34).

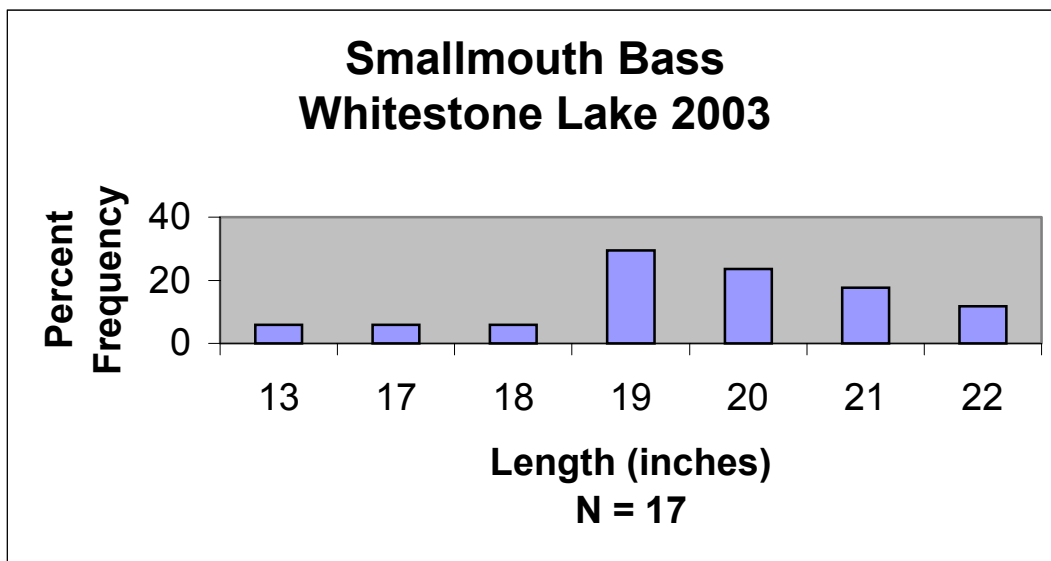


Figure 34. Length frequency distribution of largemouth bass in Whitestone Lake (Okanogan Co.) in 2003.

A total of 58 smallmouth bass, ranging from 12 inches to 21 inches, were caught on 10 fishing trips to the Yakima River (Benton County) in 2003 (Figure 35).

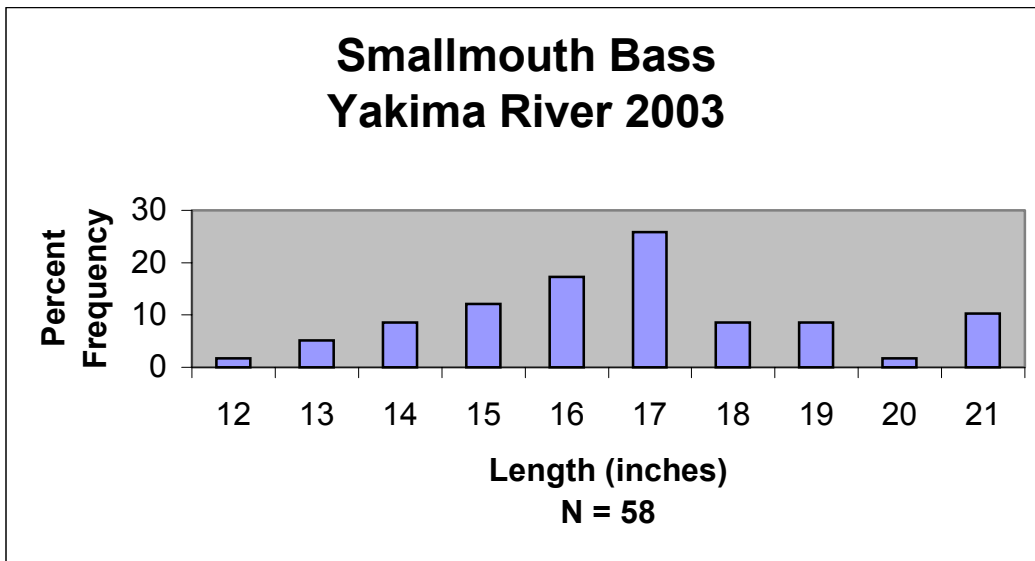


Figure 35. Length frequency distribution of largemouth bass in the Yakima River (Benton Co.) in 2003.

Comparative Catch Information

The statewide CPUE for smallmouth bass of any size was 1.23 fish per hour in 2003. The statewide CPUE for smallmouth bass of any size was highest in 1995 at 1.31 fish per hour. The CPUE for all other years in which data was collected, ranged from 0.34 to 1.06 (Table 5). The statewide CPUE for smallmouth bass 11 inches or greater was 1.01 fish per hour in 2003. The statewide CPUE for smallmouth bass 11 inches or greater was highest in 1995 at 1.14 fish per hour. The CPUE for other years in which data was collected, ranged for 0.25 to 0.84 fish per hour (Table 5).

Table 5. Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for smallmouth bass caught of any size and for smallmouth bass 11 inches or greater, 1990-2003 (No data was available for 1999).

Year	No. of Waters	Hours Fished	All Sizes		≥ 11 inches	
			No. Caught	CPUE	No. Caught	CPUE
1990	19	432.0	378	0.88	240	0.56
1991	25	864.0	525	0.61	315	0.36
1992	19	610.0	525	0.86	403	0.66
1993	21	851.0	900	1.06	609	0.72
1994	17	535.0	294	0.55	227	0.42
1995	6	227.0	297	1.31	253	1.11
1996	14	609.0	563	0.92	512	0.84
1997	11	548.5	344	0.63	253	0.46
1998	8	282.5	96	0.34	71	0.25
1999	no data	no data	no data	no data	no data	no data
2000	14	529.5	418	0.79	295	0.56
2001	21	417.5	323	0.77	190	0.46
2002	29	1,128.8	959	0.85	815	0.72
2003	26	639.5	787	1.23	648	1.01

Walleye

Catch Data

A total of 370 walleye, 15 inches or greater, were caught in 682 hours fished on 145 individual fishing trips to 13 different waters in 2003. Catch and release information was available for all trips. Anglers reported practicing catch and release fishing on walleye in 2003 on 38 (18%) trips. Catch and release information was available for 541 walleye of all sizes caught. Forty-nine percent (263) of those fish were released. Catch and release information was also available for 370 walleye 15 inches or greater caught. Sixty-six percent (245) of those fish were released.

A complete summary of catch, hours fished and catch rates for walleye 15 inches or greater are listed for each individual water fished in 2003 in which at least one walleye greater than 15 inches was caught (Table 6).

Table 6. Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for walleye 15 inches or greater for each individual water fished in 2003.

Water	County	No. of Trips	Hours Fished	No. Fish Caught	CPUE	Avg. Trip Length (hrs)
Banks	Grant	1	3.5	10	2.86	3.5
Liberty	Spokane	19	38.5	25	0.65	2.0
Long	Spokane	1	8.0	2	0.25	8.0
Moses	Grant	24	100.5	56	0.56	4.2
Okanogan	Okanogan	1	4.0	5	1.25	4.0
Palmer	Okanogan	2	9.0	2	0.22	4.5
Potholes	Grant	31	177.5	97	0.55	5.7
Roosevelt	Grant, Lincoln, Stevens	35	164.0	247	1.51	4.7
Soda	Grant	8	36.0	9	0.25	4.5
Spokane	Lincoln	12	81.0	53	0.65	6.8
Umatilla	Benton	8	49.5	28	0.57	6.2
Wanapum	Grant	2	6.0	3	0.50	3.0
Totals		144	677.5	537	0.79	4.7

Length Frequency Distributions

A total of 10 walleye, ranging from 18 inches to 24 inches, were caught on 1 fishing trip to Banks Lake (Grant County) in 2003 (Figure 36).

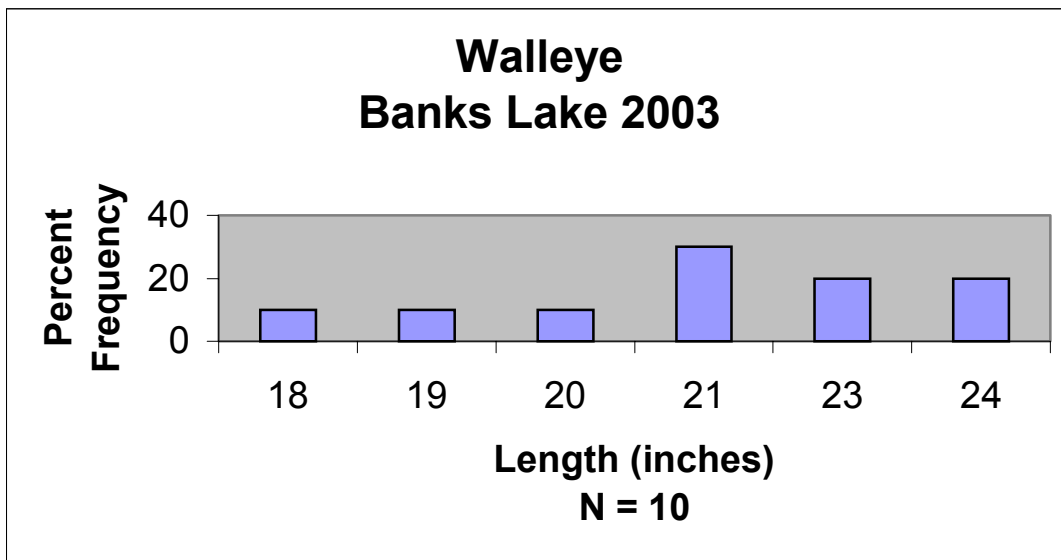


Figure 36. Length frequency distribution of walleye in Banks Lake (Grant Co.) in 2003.

A total of 25 walleye, ranging from 15 inches to 26 inches, were caught on 19 fishing trips to Liberty Lake (Spokane County) in 2003 (Figure 37).

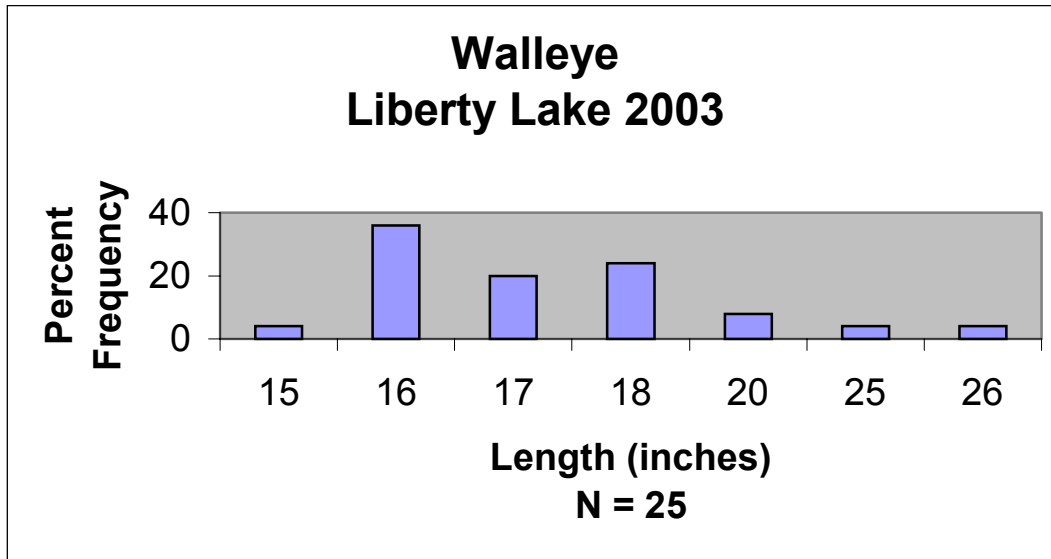


Figure 37. Length frequency distribution of walleye in Liberty Lake (Spokane Co.) in 2003.

A total of 56 walleye, ranging from 6 inches to 24 inches, were caught on 24 fishing trips to Moses Lake (Grant County) in 2003 (Figure 38).

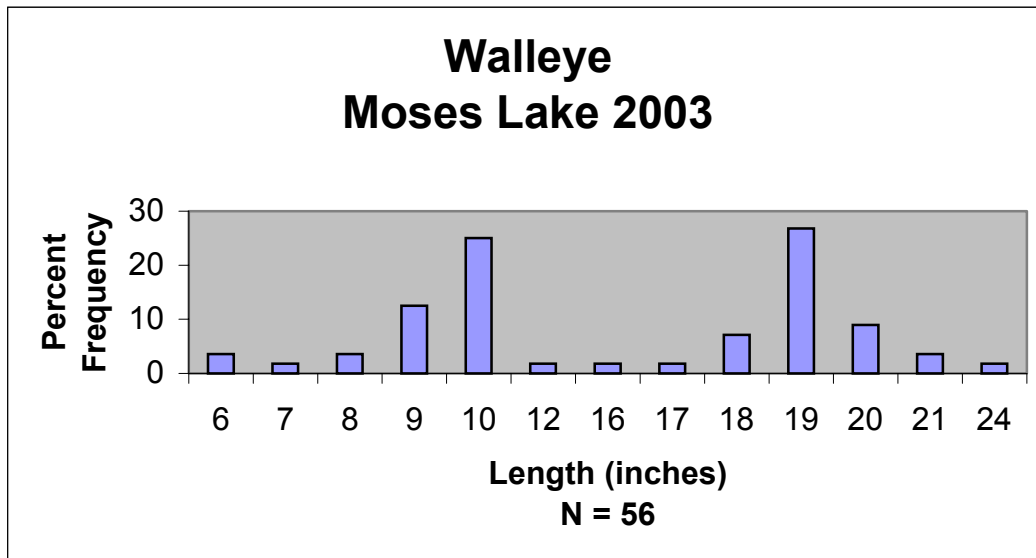


Figure 38. Length frequency distribution of walleye in the Moses Lake (Grant Co.) in 2003.

A total of 97 walleye, ranging from 8 inches to 27 inches, were caught on 31 fishing trips to Potholes Reservoir (Grant County) in 2003 (Figure 39).

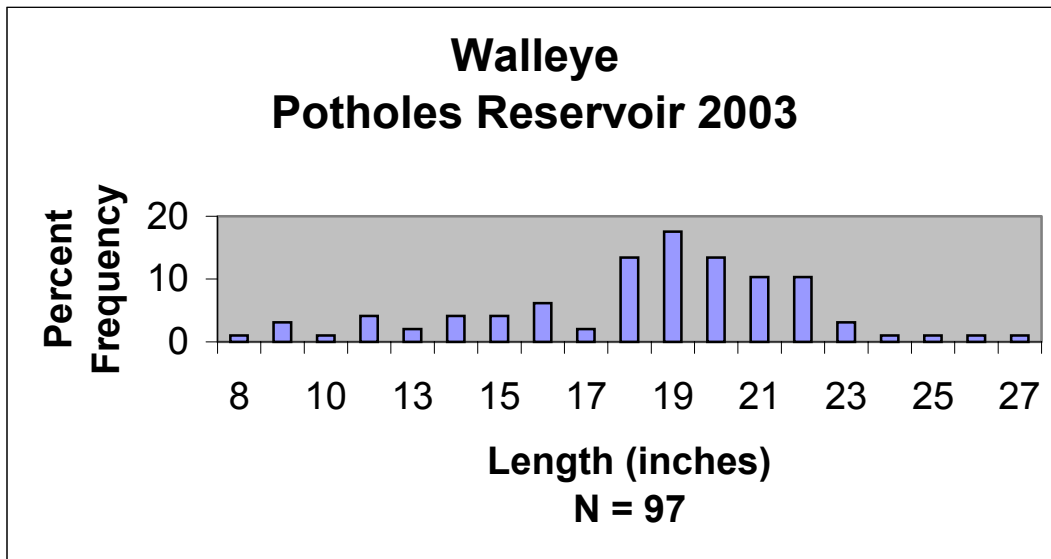


Figure 39. Length frequency distribution of walleye in Potholes Reservoir (Grant Co.) in 2003.

A total of 247 walleye, ranging from 8 inches to 30 inches, were caught on 35 fishing trips to Lake Roosevelt (Ferry, Grant, Lincoln, Okanogan, and Stevens Counties) in 2003 (Figure 40).

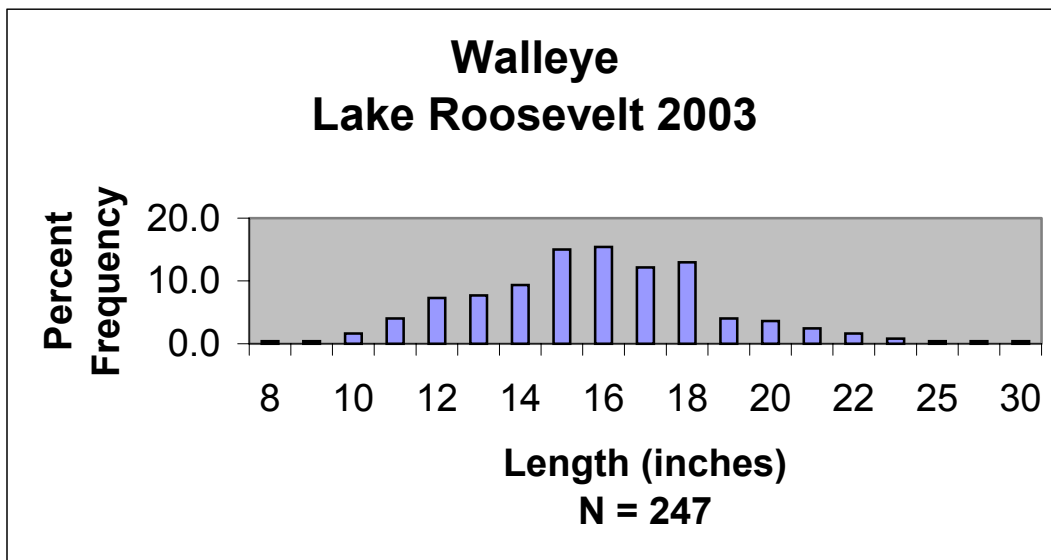


Figure 40. Length frequency distribution of walleye in Lake Roosevelt (Ferry, Grant, Lincoln, Okanogan, and Stevens Cos.) in 2003.

A total of 53 walleye, ranging from 8 inches to 29 inches, were caught on 12 fishing trips to the Spokane River (Spokane County) in 2003 (Figure 41).

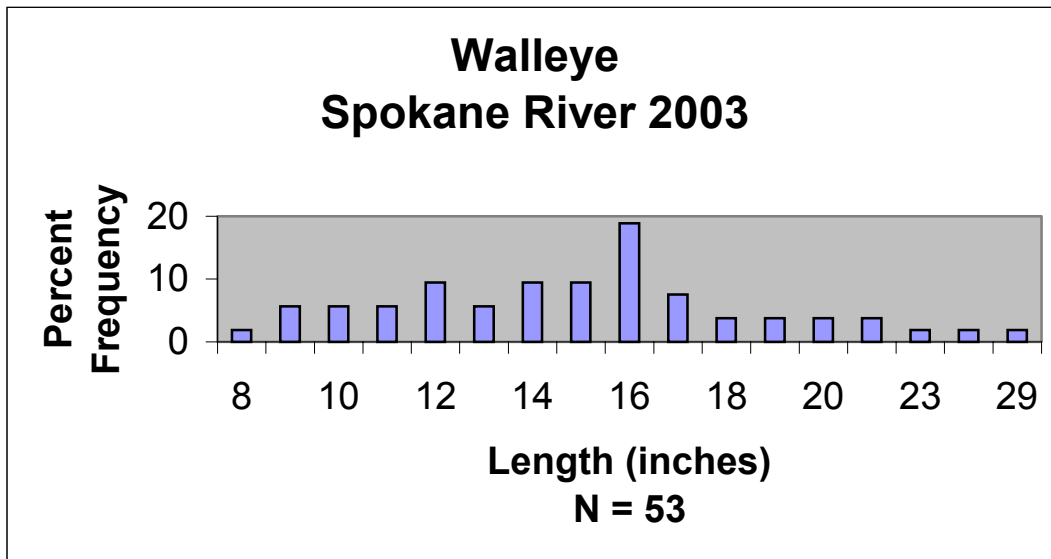


Figure 41. Length frequency distribution of walleye in the Spokane River (Spokane Co.) in 2003.

A total of 28 walleye, ranging from 16 inches to 35 inches, were caught on 8 fishing trips to Lake Umatilla (Benton and Klickitat Counties) in 2003 (Figure 42).

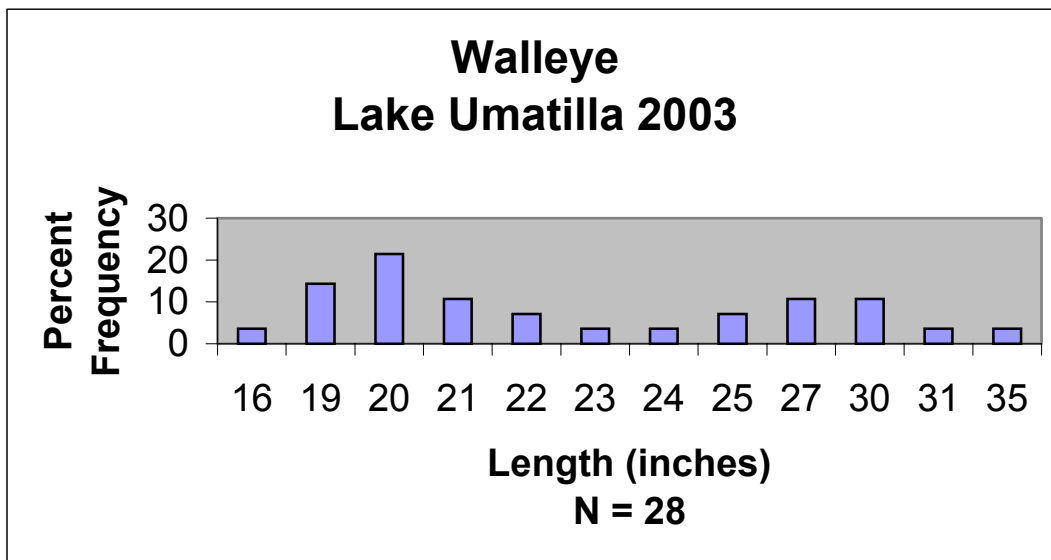


Figure 42. Length frequency distribution of walleye in Lake Umatilla (Benton and Klickitat Cos.) in 2003.

Comparative Catch Information

The statewide CPUE for walleye of any size was 0.79 fish per hour in 2003. The statewide CPUE for walleye of any size was highest in 1994 at 1.34 fish per hour. The CPUE for all other years, in which data was collected, ranged from 0.24 to 1.16 (Table 7). The statewide CPUE for walleye 15 inches or greater was 0.54 fish per hour in 2003. The statewide CPUE walleye 15 inches or greater was highest in 1995 at 0.68 fish per hour. The CPUE for other years, in which data was collected, ranged for 0.14 to 0.67 fish per hour (Table 7).

Table 7. Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for walleye caught of any size and for walleye 15 inches or greater, 1990-2003 (No data was available for 1999).

Year	No. of Waters	Hours Fished	All Sizes		≥ 15 inches	
			No. Caught	CPUE	No. Caught	CPUE
1990	7	272.0	89	0.33	78	0.29
1991	9	323.0	440	1.36	160	0.50
1992	9	1,607.0	1,680	1.05	810	0.50
1993	13	1,584.0	1,335	0.84	804	0.51
1994	10	691.0	927	1.34	466	0.67
1995	7	436.0	506	1.16	297	0.68
1996	10	1,721.0	1539	0.89	1,003	0.58
1997	5	568.0	311	0.55	214	0.38
1998	9	588.3	349	0.59	197	0.33
1999	no data	no data	no data	no data	no data	no data
2000	13	1,382.8	334	0.24	210	0.15
2001	11	641.0	163	0.25	88	0.14
2002	15	597.8	342	0.57	261	0.44
2003	13	682.0	541	0.79	370	0.54

Black Crappie

Catch Data

A total of 71 black crappie, 8 inches or greater, were caught in 37.8 hours fished on 10 individual trips to 6 different waters in 2003. Catch and release information was available for all trips. Anglers reported practicing catch and release fishing on black crappie in 2003 on zero trips. Catch and release information was available for 71 black crappie of any size. Seventeen percent (17) of those fish were released. Catch and release information was also available for 5 black crappie 8 inches or greater caught. Forty percent (2) of those fish were released.

A complete summary of catch, hours fished and catch rates for black crappie 8 inches or greater are listed for each individual water fished in 2003 in which at least one black crappie greater than 8 inches was caught (Table 8).

Table 8. Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for black crappie 8 inches or greater for each individual water fished in 2003.

Water	County	No. of Trips	Hours Fished	No. Fish Caught	CPUE	Avg Trip Length (hrs)
Duck	Grays Harbor	2	4.5	3	0.67	2.3
I-82 Pond #4	Yakima	1	2.0	1	0.50	2.0
I-82 Pond #6	Yakima	1	3.0	1	0.33	3.0
Long	Spokane, Stevens	4	20.8	44	2.12	5.2
Priest Rapids	Yakima	1	2.0	2	1.00	2.0
Thompson-1	Franklin	1	5.5	20	3.64	5.5
Total		10	37.8	71	1.88	2.0

Length Frequency Distribution

A total of 44 black crappie, ranging from 10 inches to 11 inches, were caught on 4 fishing trips to Long Lake (Spokane and Stevens Counties) in 2003 (Figure 43).

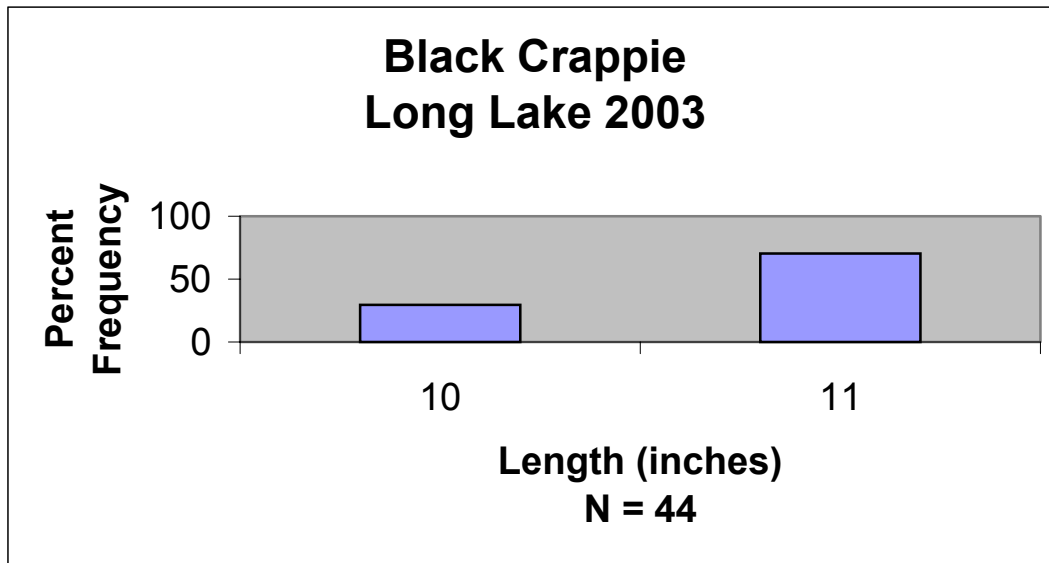


Figure 43. Length frequency distribution of black crappie in Long Lake (Spokane and Stevens Cos.) in 2003.

A total of 20 black crappie, ranging from 6 inches to 11 inches, were caught on 1 fishing trip to Thompson Ponds (Franklin County) in 2003 (Figure 44).

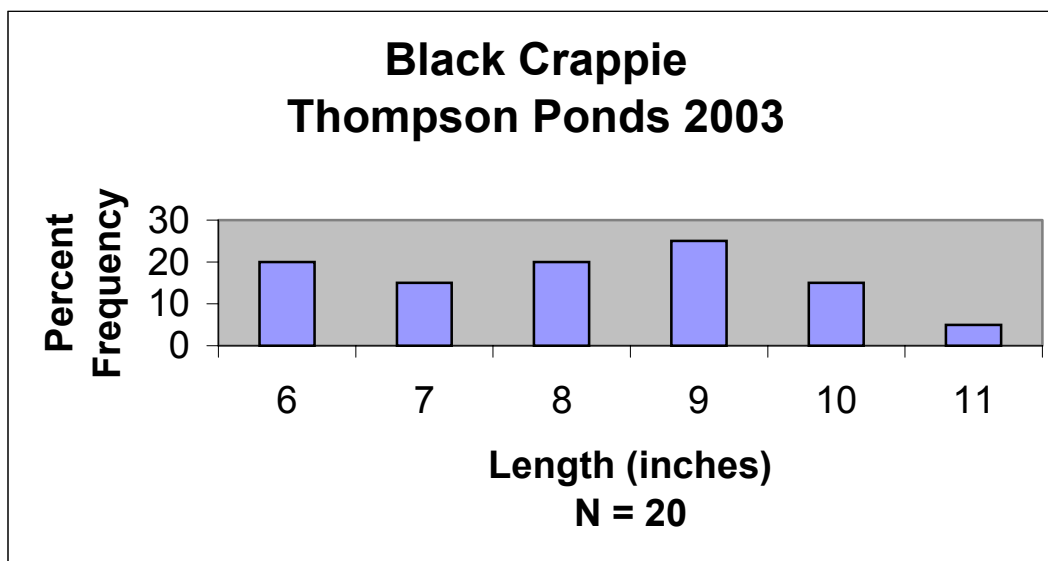


Figure 44. Length frequency distribution of black crappie in Thompson Ponds (Kittitas Co.) in 2003.

Comparative Catch Information

There are only three years of data available (Table 9) to calculate statewide catch per unit effort (CPUE). The statewide CPUE for black crappie of any size was 1.88 fish per hour in 2003. The statewide CPUE for black crappie of any size was highest in 2001 (2.36) and lowest in 2002 (1.41). The statewide CPUE for black crappie 8 inches or greater was 0.13 fish per hour in 2003, which is also the lowest for the three year period. The statewide CPUE black crappie 8 inches or greater was highest in 2002 at 1.22 fish per hour.

Table 9. Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for black crappie caught of any size and for black crappie 8 inches or greater, 2001-2003 (No data prior to 2001).

Year	No. of Waters	Hours Fished	All Sizes		≥ 8 inches	
			No. Caught	CPUE	No. Caught	CPUE
2001	4	81.8	193	2.36	102	1.25
2002	5	46.0	65	1.41	56	1.22
2003	6	37.8	71	1.88	5	0.13

Tiger Muskie

Catch Data

There were no specific trips made targeting tiger muskie in 2003. No tiger muskie were caught incidentally in 2003 either.

Comparative Catch Information

There is insufficient data to make any meaningful comparisons.

Channel Catfish

Catch Data

A total of two channel catfish 16 inches or greater, were caught in five hours on one individual trip to one body of water in 2003 (Table 10). Catch and release information was available for this trip. Both of the channel catfish caught were released (100%). Since both fish were 16 inches or greater, the catch and release information would be the same for channel catfish caught of any size.

Table 10. Summary of catch, hours fished, and catch rates (catch per unit effort (CPUE)) for channel catfish 16 inches or greater for each individual water fished in 2003.

Water	County	No. of Trips	Hours Fished	No. Fish Caught	CPUE	Avg. Trip Length (hrs)
Whitestone	Okanogan	1	5.0	2	0.40	5.0

Comparative Catch Information

There are only three years of data available (Table 11) to calculate statewide catch per unit effort (CPUE). The statewide CPUE for channel catfish of any size was 0.40 fish per hour in 2003. The statewide CPUE for channel catfish of any size was highest in 2002 (1.20) and lowest in 2001 (0.00). The statewide CPUE for channel catfish 16 inches or greater was also 0.40 fish per hour in 2003. The statewide CPUE for channel catfish 16 inches or greater was highest in 2002 (1.00) and lowest in 2001 (0.00).

Table 11. Annual average volunteer angler catch rate (catch per unit effort (CPUE)) for channel catfish caught of any size and for black crappie 8 inches or greater, 2001-2003 (No data prior to 2001).

Year	No. of Waters	Hours Fished	All Sizes		≥ 16 inches	
			No. Caught	CPUE	No. Caught	CPUE
2001	1	7.0	0	0.00	0	0.00
2002	1	10.0	12	1.20	10	1.00
2003	1	37.8	71	1.88	5	0.13



The Washington Department of Fish and Wildlife will provide equal employment opportunities to all potential and existing employees without regard to race, creed, color, sex, sexual orientation, religion, age, marital status, national origin, disability, or Vietnam Era Veteran's Status. The Department is subject to Title VI of the Civil Rights Act of 1964 and Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of race, color, national origin or handicap. If you believe you have been discriminated against in any Department program, activity, or facility, or if you want further information about Title VI or Section 504, write to: Office of Equal Opportunity, U.S. Department of Interior, Washington D.C. 20240, or Washington Department of Fish and Wildlife, 600 Capitol Way N., Olympia, WA 98501-1091.