Enemy Swim Survey Summary

Enemy Swim, located 1.5 miles east and 6.5 miles north of Waubay, is managed as a multiple species fishery including panfish (i.e., black crappie, bluegill, and yellow perch), black bass (largemouth and smallmouth) and walleye.

- **Black crappie.** Black crappies were not abundant (0.6/frame net). Those sampled ranged in length from 5.1 to 13.0 inches, most (11 of 13) were <7.0 inches.
- Bluegill. Bluegill CPUE was considerably lower in 2019 than 2018. However, at 63.2/frame net relative abundance remained high. Sampled bluegills ranged in length from 3.1 to 9.4 inches; 15% were ≥6.0 inches and 2% were 8.0 inches or longer. Individuals from five consecutive year classes (2013 − 2017) contributed to the catch. Bluegills from the 2015 (age 4) cohort were the most abundant accounting for 64% of fish in the sample, those from the 2016 (age 3) year class made up an additional 32%. Since 2010, mean length at capture values for age-5 bluegills have ranged from 5.4 to 7.8 inches. In 2019, age-5 bluegills had a mean length of 5.7 inches.
- Largemouth bass. Spring electrofishing for largemouth bass was not completed in 2019.
- Smallmouth bass. Fewer smallmouth bass were sampled by day electrofishing in 2019 (32.0/hour) than combined day and night electrofishing in 2016 (86.0/hour). Smallmouth bass in the 2019 electrofishing catch ranged in length from 7.1 to 16.5 inches, 63% were ≥11.0 inches and 38% were 14.0 inches or longer. The proportion of catch ≤14.0 inches was comprised of fish from 5 consecutive year classes (2013 − 2017), each represented by seven or fewer individuals. Growth appears to be slow to moderate with mean length at capture values at age 4 from 9.5 to 12.5 inches since 2010. In 2019, the mean length at capture of age-4 fish was 12.5 inches.
- Walleye. Similar to 2018, walleye numbers were low (1.5/gill net). Sampled walleyes ranged in length from 7.9 to 23.2, more than half (13 of 21) were 15.0 inches or longer. Individuals from nine year classes produced between 2001 and 2018 contributed to the catch, each was represented by four or fewer fish. The oldest walleye sampled was from the 2001 (age 18) cohort. Currently, walleyes appear to be growing well with a mean length at capture of 16.7 inches at age 3 in 2019.
- Yellow perch. Yellow perch numbers remain low (4.8/gill net) in Enemy Swim Lake. Sampled yellow perch ranged in length from 5.1 to 5.9 inches, all were from the 2017 (age 2) year class.

For more detailed results see the computer generated South Dakota Statewide Fisheries Survey for Enemy Swim (Day; below).

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

Enemy Swim, Day County UBS-Lake-196-000 2019

Lake Information

Name: Enemy Swim Maximum Depth: 26 Feet

County: Day Mean Depth: 16 Feet

OHWM Elevation: 1,854

Surface Area: 2,186 Acres Outlet Elevation: 1,854

Surveys and Investigations

Survey methods used by gear type, date, and effort.

Gear	Date	Effort
AFS std gill net	Jul 22, 2019	4 net-nights
AFS std gill net	Jul 23, 2019	4 net-nights
AFS std gill net	Jul 24, 2019	4 net-nights
boat shocker (day)	Jun 04, 2019	3600 seconds
fall night EF-WAE	Oct 03, 2019	3600 seconds
frame net (std 3/4 in)	Jul 23, 2019	8 net-nights
frame net (std 3/4 in)	Jul 24, 2019	8 net-nights
frame net (std 3/4 in)	Jul 25, 2019	7 net-nights

Common Fish Species Present

Bluegill

Black Crappie

Largemouth Bass

Walleye

Smallmouth Bass

Yellow Perch

White Bass

Rock Bass

White Sucker

Common Carp

Terminology

Catch per unit effort (**CPUE**) refers to the relative abundance of a species. It is defined as the number of fish captured per unit of effort (i.e., number of fish captured per net-night or number of fish captured per hour electrofishing). In this report CPUE is typically given for only stock-length fish (see length categories table for stock lengths).

A statewide effort to help make netting efforts comparable to all waters sampled across the state, occurred in 2017, with a switch to American Fisheries Society gill nets. Past gill netting efforts were completed with different style/types of nets and are not comparable side by side.

- **AFS std gill net** 80 ft experimental gill net containing eight panels (10 ft each) of varying monofilament meshes of 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25 and 2.50 inches.
- **std experimental gill net for non-Missouri River waters** 150 ft experimental gill net containing six panels (25 ft each) of varying monofilament meshes of 0.5, 0.75, 1.00, 1.25, 1.50 and 2.00 inches.
- std experimental gill net for Missouri River reservoirs 300 ft experimental gill net containing six panels (50 ft each) of varying multifilament meshes of 0.5, 0.75, 1.00, 1.25, 1.50 and 2.00 inches.

$$CPUE = \frac{number\ offish}{effort}$$

Population size structure is quantified using the indices proportional size distribution of quality-length fish (PSD) and proportional size distribution of preferred-length fish (PSD-P). These indices indicate the proportion of stock-length fish that are equal to or greater than a given length. Minimum lengths for stock, quality and preferred length fish are given in the length categories table.

$$\textit{PSD} = \left(\frac{number\ of\ fish \geq quality\ length}{number\ of\ fish \geq stock\ length}\right) \ge 100$$

$$\textit{PSD} - \textit{P} = \left(\frac{number\ of\ fish\ \geq\ preferred\ length}{number\ of\ fish\ \geq\ stock\ length}\right) \times 100$$

Relative weight (**Wr**) is used to quantify fish plumpness. Relative weight is the ratio of what a fish weighs (W) compared to a length-specific standard weight (Ws) multiplied by 100. Relative weight values of 95-105 are commonly cited as optimum values, but values in the 80s are common during summer sampling in South Dakota.

$$Wr = \left(\frac{W}{Ws}\right) \times 100$$

Confidence intervals (CI) are provided for many of the estimates calculated in this report. The confidence interval provides a range in which the true mean is expected to fall. For example, with an 80% CI we are 80% confident that the interval contains the true value.

Length categories include stock (S), quality (Q), preferred (P), memorable (M) and trophy (T). Length categories for most species have been defined based on a percentage of the world record length for that species. Some species mentioned in this report do not have defined length categories. Length categories for species used in this report are provided in the following table. Measurements are the minimum total length for each category and are reported in inches (in) and centimeters (cm).

	St	ock	Qu	ality	Pref	erred	Mem	orable	Tro	ophy
Species Name	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)	(in)	(cm)
Black Bullhead	6	15	9	23	12	30	15	38	18	46
Black Crappie	5	13	8	20	10	25	12	30	15	38
Bluegill	3	8	6	15	8	20	10	25	12	30
Brown Trout	8	20	12	30	16	40	20	50	18	46
Channel Catfish	11	28	16	41	24	61	28	71	36	91
Freshwater Drum	8	20	12	30	15	38	20	51	25	63
Lake Trout	12	30	20	50	26	65	31	80	39	100
Largemouth Bass	8	20	12	30	15	38	20	51	25	63
Muskellunge	20	51	30	76	38	97	42	107	50	127
Northern Pike	14	35	21	53	28	71	34	86	44	112
Pumpkinseed	3	8	6	15	8	20	10	25	12	30
Rainbow Trout	10	25	16	40	20	50	26	65	31	80
Rudd	6	15	10	25	12	30	15	38	19	48
Sauger	8	20	12	30	15	38	20	51	25	63
Smallmouth Bass	7	18	11	28	14	35	17	43	20	51
Walleye	10	25	15	38	20	51	25	63	30	76
White Bass	6	15	9	23	12	30	15	38	18	46
White Crappie	5	13	8	20	10	25	12	30	15	38
Yellow Bullhead	4	10	7	18	9	23	11	28	14	36
Yellow Perch	5	13	8	20	10	25	12	30	15	38

Catch Summary of Stock Length Fish

Catch per unit effort (CPUE), proportional size distribution (PSD), proportional size distribution of preferred length fish (PSD-P), and relative weight (Wr) for species sampled in survey with 80% confidence interval (CI-80).

* Methods/Species that ignore stock length

			Abun	dance	St	ock Der	sity Indic	es	Condition	
Gear	Species	Sample Size (n)*	CPUE	CI-80	PSD	CI-80	PSD-P	CI-80	Wr	CI-80
AFS std gill net	Black Crappie	2	0.2	0.2	50		50		100	5
	Bluegill	42	3.5	1.6	98		21	10	116	2
	Common Carp	7	0.6	0.3	100		100		77	14
	Largemouth Bass	1	0.1	0.1	100		100		110	
	Northern Pike	3	0.3	0.2	100		33		84	6
	Rock Bass	6	0.5	0.5	100		50		112	2
	Smallmouth Bass	32	2.3	0.9	50	15	25	13	97	2
	Walleye	21	1.5	0.8	83		11		86	2
	White Bass	47	3.9	1.2	100		100		86	1
	White Sucker	13	1.1	0.4	100		100		95	2
	Yellow Perch	57	4.8	1.5	0		0		97	1
boat shocker (day)	Smallmouth Bass	32	32.0	9.9	63	13	38	13	93	1
fall night EF-WAE*	Walleye	15	15.0	7.8					92	2
frame net (std 3/4	Black Bullhead	7	0.3	0.2	100		100		91	4
in)	Black Crappie	13	0.6	0.3	15		8		105	3
	Bluegill	1453	63.2	13.0	15	1	2	1	103	1
	Northern Pike	2	0.1	0.1	100		0		81	4
	Pumpkinseed	9	0.4	0.3	11		0		111	4
	Rock Bass	70	3.0	0.9	51	9	14	6	102	1
	Smallmouth Bass	320	2.6	0.9	13	7	5		100	1
	Walleye	4	0.1	0.1	100		50		90	3
	White Bass	10	0.4	0.2	100		100		84	2
	White Sucker	3	0.1	0.1	100		100		87	7
	Yellow Perch	18	0.7	0.7	0		0		83	2

10-Year Catch Per Unit Effort by Gear and Species

Catch per unit effort (CPUE) and average (Avg) of species across 10 years using different gear types.

*Night sampling included prior to 2018 **Method ignores stock length ***AFS standard frame net used in 2016-17

							CPUE					
Gear	Species	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Avg
AFS std gill net	Black Bullhead							0.1	0.2	0.1	0.0	0.1
	Black Crappie							8.0	0.3	0.1	0.2	0.4
	Bluegill							3.8	0.9	6.5	3.5	3.7
	Common Carp							8.0	0.3	0.1	0.6	0.5
	Largemouth Bass							0.1	0.3	0.0	0.1	0.1
	Northern Pike							1.2	1.3	0.3	0.3	8.0
	Pumpkinseed							0.3	0.1	0.0	0.0	0.1
	Rock Bass							0.2	0.1	0.6	0.5	0.4
	Smallmouth Bass							2.4	0.9	2.8	2.3	2.1
	Walleye							7.2	1.3	3.8	1.5	3.5
	White Bass							7.6	3.0	2.1	3.9	4.2
	White Sucker							2.2	3.5	1.6	1.1	2.1
	Yellow Perch							4.9	0.9	1.0	4.8	2.9
boat shocker*	Smallmouth Bass	107.0		299.0		82.0		86.0			32.0	121.2
boat shocker	Largemouth Bass	112.1		67.2		224.3				21.2		106.2
fall night EF- WAE**	Walleye	34.7	31.0	3.0	116.0	8.0	20.0	38.5	9.0	11.0	15.0	28.6
frame net (std	Black Bullhead	0.1	0.5	0.3	0.2	0.7	0.2	0.1	0.3	0.3	0.3	0.3
3/4 in)***	Black Crappie	1.3	8.3	2.1	5.7	1.2	0.3	2.6	0.2	3.7	0.6	2.6
	Bluegill	57.3	90.2	53.8	54.2	31.5	26.1	62.7	39.2	118.0	63.2	59.6
	Channel Catfish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
	Common Carp	0.0	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.1	0.0	0.1
	Northern Pike	0.3	0.3	0.3	0.4	0.3	0.6	0.5	0.2	0.3	0.1	0.3
	Pumpkinseed	1.7	2.3	0.6	2.1	0.4	1.5	1.1	0.3	0.5	0.4	1.1
	Rock Bass	5.3	12.7	8.2	3.8	5.3	6.4	0.8	2.3	4.5	3.0	5.2
	Smallmouth Bass	1.9	14.9	4.6	3.4	3.3	2.0	0.6	0.5	0.8	2.6	3.5
	Walleye	0.0	0.6	1.2	0.7	0.8	8.0	1.0	0.6	0.1	0.1	0.6
	White Bass	0.0	0.1	0.2	0.1	0.2	0.3	0.3	0.0	0.5	0.4	0.2
	White Sucker	0.2	0.1	0.1	0.2	0.0	0.2	0.1	0.1	0.0	0.1	0.1
	Yellow Perch	5.1	7.4	0.9	1.1	0.5	0.3	1.4	0.1	3.8	0.7	2.1
std exp gill net	Black Crappie	0.7	0.7	4.0	8.5	3.5	1.3					3.1
	Bluegill	1.3	0.8	54.8	41.8	10.3	15.5					20.8
	Common Carp	0.1	0.1	1.2	0.0	0.2	0.2					0.3
	Northern Pike	0.4	0.9	3.7	1.0	1.7	0.2					1.3
	Pumpkinseed	0.0	0.0	0.2	0.3	0.2	0.3					0.2
	Rock Bass	0.4	0.1	0.7	2.7	2.0	0.7					1.1
	Smallmouth Bass	0.2	0.5	2.7	2.3	5.3	1.5					2.1
	Walleye	1.9	3.6	7.5	8.7	8.5	8.7					6.5
	White Bass	0.1	0.6	8.0	5.8	1.3	2.0					3.0
	White Sucker	2.6	1.1	1.5	2.2	4.7	1.8					2.3
	Yellow Perch	37.4	50.7	34.0	9.7	1.7	0.0					22.3

10-Year Size Structure and Condition Statistics by Gear and Species

Species proportional size distribution (PSD), proportional size distribution of preferred length fish (PSD-P), and relative weight (Wr) collected by different gear types across 10 years.

*Night sampling included prior to 2018 **AFS standard frame net used in 2016-17

							Ye	ar				
Gear	Species	Index	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
AFS std gill net	Walleye	PSD							52	81	70	83
		PSD-P							1	6	4	11
		Wr							86	83	90	86
	Yellow Perch	PSD							7	18	0	0
		PSD-P							0	0	0	0
		Wr							95	87	94	97
boat shocker	Smallmouth Bass	PSD	72		8		71		50			63
(day)*		PSD-P	41		3		12		10			38
		Wr	95		83		86		92			93
frame net (std	Black Crappie	PSD	23	84	84	99	100	100	37	40	9	15
3/4 in)**		PSD-P	16	5	57	46	93	100	34	20	0	8
		Wr	102	104	96	100	95	98	94	101	104	105
	Bluegill	PSD	41	61	78	68	46	42	43	3	25	15
		PSD-P	7	0	7	32	27	21	18	1	8	2
		Wr	101	103	110	104	103	105	104	107	104	103
std exp gill net	Walleye	PSD	56	14	18	21	16	10				
		PSD-P	9	5	9	17	4	2				
		Wr	92	85	81	80	82	83				
	Yellow Perch	PSD	0	1	3	2	10	0				
		PSD-P	0	0	0	0	0	0				
		Wr	99	93	94	92	92					

Length at Capture

Mean length at capture by age across years sampled, sample size (N).

Species: Bluegill

				Mean Len	gth (expa	nded sam	ple numb	er) at capti	ure by age)	
Year	N	1	2	3	4	5	6	7	8	9	10+
2019	1452		94 (21)	99 (465)	126 (926)	146 (21)	200 (19)				
2018	2500		84 (41)	110 (1854)	151 (193)	187 (299)	223 (28)	237 (29)	242 (36)		251 (22)
2017	2228		75 (1923)	123 (74)	125 (158)	136 (66)	204 (1)	249 (1)		245 (4)	242 (2)
2016	2140	68 (636)	100 (206)	95 (582)	161 (338)	198 (248)	215 (85)	243 (8)	233 (17)	256 (8)	246 (14)
2015	636	77 (6)	77 (3)	93 (327)	163 (122)	187 (61)	205 (22)	224 (81)	226 (10)	224 (5)	242 (1)
2014	757		96 (125)	109 (209)	144 (101)	196 (92)	200 (155)	198 (76)	234 (1)	234 (1)	
2013	1323	94 (12)	84 (91)	116 (328)	173 (124)	190 (249)	199 (431)	201 (77)	214 (14)		
2012	1291		94 (54)	126 (63)	158 (358)	176 (530)	190 (129)	193 (114)	198 (45)		
2011	2164			108 (266)	130 (505)	173 (669)	183 (727)				
2010	1374		93 (57)	106 (196)	130 (307)	153 (728)	212 (77)	216 (6)			261 (3)

Species: Smallmouth Bass

				Mean Ler	ngth (expar	nded sam	ple numbe	er) at capt	ure by age	€	
Year	N	1	2	3	4	5	6	7	8	9	10+
2019	22		191 (5)	255 (7)	318 (6)	346 (3)	355 (1)				
2016	86		181 (1)	221 (30)	258 (13)	299 (20)	327 (10)	359 (6)	401 (6)		
2014	82			202 (2)	264 (15)	293 (17)	304 (36)	332 (8)	403 (4)	460 (1)	
2012	298		184 (1)	209 (59)	241 (208)	307 (25)	295 (1)			444 (3)	478 (1)
2010	107			208 (21)	283 (28)	328 (11)	356 (17)	373 (5)	399 (8)	403 (6)	425 (13)

					•			er) at capt			
Year	N	1	2	3	4	5	6	7	8	9	10-
2019	21	233	325	424	479		480		524	456	500
		(4)	(2)	(2)	(3)		(4)		(1)	(1)	(4)
2018	47	218	316	366	380	434		443	420	462	672
2017	17	(1)	(5)	(10)	(2)	(7)	202	(8)	(2)	(11)	(1)
2017	17		281 (2)	151 (1)	410 (4)		392 (3)		438 (7)		
2016	88	248	281	331	366	381	398	386	(.,		62
20.0		(2)	(4)	(11)	(1)	(28)	(7)	(36)			(1)
2015	54		256		329	360	354				68
			(6)		(7)	(3)	(37)				(1)
2014	55	187		278		356					584
		(4)		(4)		(45)					(2)
2013	56		224	288	334			559	565	559	58
2212	4.0		(6)	(10)	(30)			(1)	(1)	(1)	(7)
2012	48	167 (3)	264 (1)	320 (40)				552 (1)		636 (1)	544 (2)
2011	73	209	298	399	481		478	(1)		536	580
2011	73	(3)	(61)	(1)	(2)		(2)			(2)	(2)
2010	85	210	311	402	446	445	()		478	494	52
		(52)	(13)	(1)	(3)	(4)			(3)	(3)	(6)
ecies: Y	ellow Per	rch									
			1	Mean Len	gth (expa	nded sam	ple numbe	er) at capt	ure by age		
Year	N	1	2	3	4	5	6	7	8	9	10-
2019	57		147								
			(57)								
2017	11			161	192	189		197	206		
				(4)	(2)	(3)		(1)	(1)		
2016	59	136	147	171	199		222	205	240		
	00						(4)	(4)	(4)		
		(1)	(40)	(13)	(2)		(1)	(1)	(1)		
2015	11	(1) 100	(40) 97				(1)	(1)	(1)		
2015	11	(1) 100 (10)	(40) 97 (1)		(2)	194		(1)	(1)		
		(1) 100 (10) 97	(40) 97 (1) 110		(2) 155	184 (3)	195	(1)	(1)		
2015 2014	11 19	(1) 100 (10) 97 (7)	(40) 97 (1) 110 (2)	(13)	(2) 155 (1)	(3)	195 (6)	(1)	(1)		
2015	11	(1) 100 (10) 97	(40) 97 (1) 110 (2) 112		(2) 155		195	(1)	(1)		
2015 2014	11 19	(1) 100 (10) 97 (7) 97	(40) 97 (1) 110 (2)	(13) 142	(2) 155 (1) 158	(3) 169	195 (6) 169	(1)	(1)		
201520142013	11 19 70	(1) 100 (10) 97 (7) 97 (11)	(40) 97 (1) 110 (2) 112 (1)	(13) 142 (2)	(2) 155 (1) 158 (21)	(3) 169 (32)	195 (6) 169	(1)	(1)		
201520142013	11 19 70	(1) 100 (10) 97 (7) 97 (11) 102	(40) 97 (1) 110 (2) 112 (1) 112 (7) 109	(13) 142 (2) 144 (20) 150	155 (1) 158 (21) 165 (168) 169	(3) 169 (32) 187	195 (6) 169	(1)	(1)		
2015201420132012	11 19 70 215	(1) 100 (10) 97 (7) 97 (11) 102	(40) 97 (1) 110 (2) 112 (1) 112 (7)	(13) 142 (2) 144 (20)	155 (1) 158 (21) 165 (168)	(3) 169 (32) 187	195 (6) 169	(1)	(1)		

Fish Condition

Mean relative weight (Wr) by sample size (N), length category stock to quality (S-Q), quality to preferred (Q-P), preferred to memorable (P-M), and memorable (M) for species collected across survey years with standard error (SE).

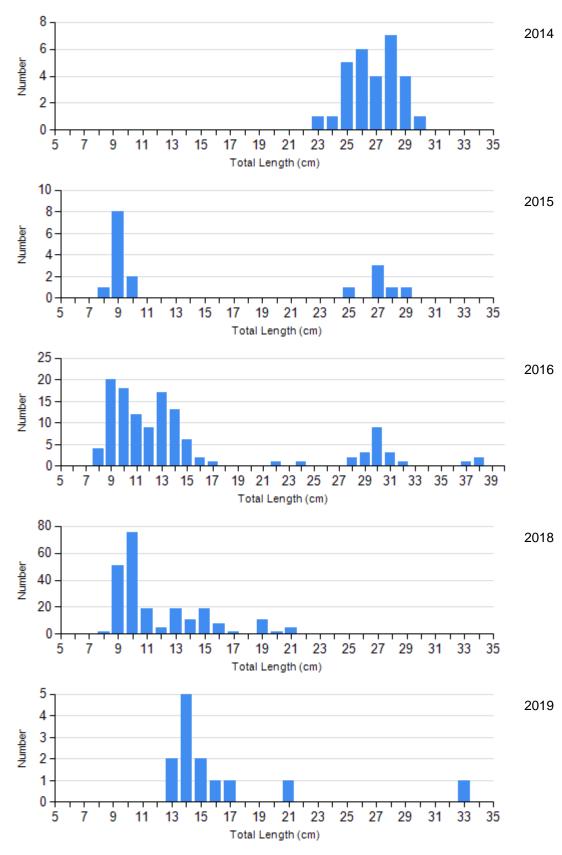
					Length	Group	S		
			S-Q		Q-P		P-M		М
Species	Year	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)	N	Wr (SE)
Black Crappie Frame Net	2015	0		0		6	98 (2.3)	0	
	2016	39	97 (0.9)	2	104 (4.7)	5	90 (2.2)	16	86 (2.3)
	2017	3	108 (4.4)	1	95	0		1	85
	2018	70	104 (2.2)	7	102 (2.0)	0		0	
	2019	11	107 (2.4)	1	105	0		1	84
Bluegill Frame Net	2015	366	104 (0.9)	127	110 (0.6)	134	106 (0.9)	0	
	2016	864	101 (1.1)	368	111 (0.6)	257	103 (1.1)	15	100 (3.8)
	2017	908	106 (0.6)	23	111 (1.7)	7	106 (2.5)	2	95 (4.6)
	2018	1851	102 (0.5)	434	110 (0.6)	165	107 (0.9)	29	104 (3.4)
	2019	1228	101 (0.5)	195	113 (0.8)	30	114 (1.6)	0	
Smallmouth Bass Electro Fishing	2016	43	93 (0.9)	34	91 (0.8)	9	85 (2.3)	0	
	2019	12	91 (1.7)	8	92 (1.4)	12	96 (1.6)	0	
Walleye Gill Net	2015	47	83 (1.5)	4	79 (0.6)	0		1	74
	2016	41	87 (0.8)	44	85 (0.9)	1	80	0	
	2017	3	86 (3.7)	12	83 (1.6)	1	78	0	
	2018	14	94 (1.5)	30	88 (0.8)	1	87	1	79
	2019	3	85 (2.1)	13	87 (1.5)	2	81 (5.9)	0	
Yellow Perch	2015	0		0		0		0	
Gill Net	2016	55	95 (0.9)	4	90 (3.3)	0		0	
	2017	9	88 (2.3)	2	86 (4.7)	0		0	
	2018	12	94 (2.1)	0		0		0	
	2019	57	97 (0.8)	0		0		0	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

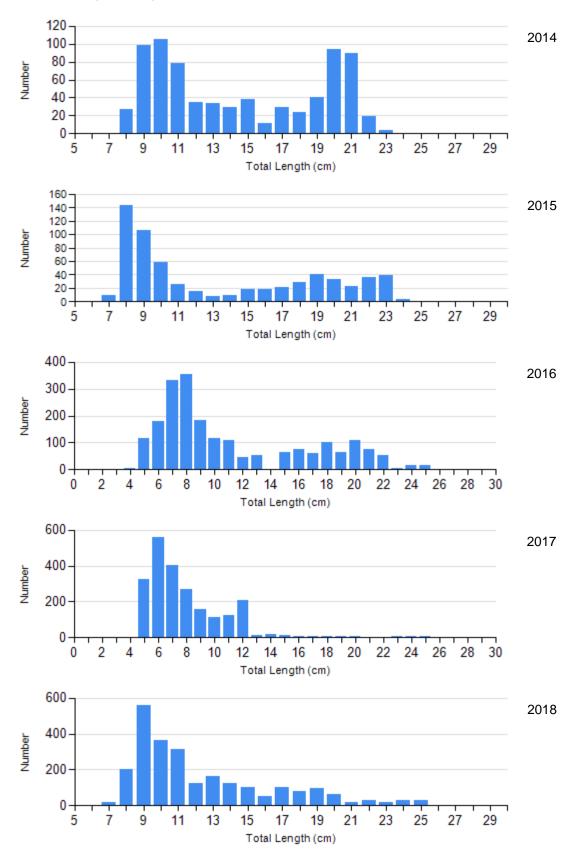
*AFS standard frame nets used in 2016-17

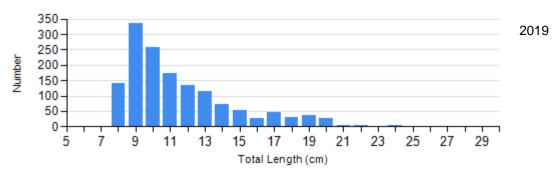
Species: Black Crappie Gear: frame net (std 3/4 in)*



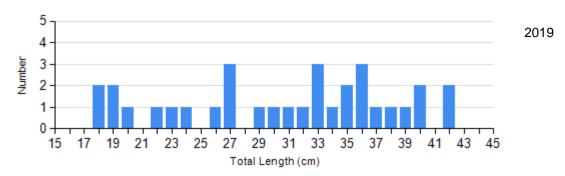
Species: Bluegill

Gear: frame net (std 3/4 in)*

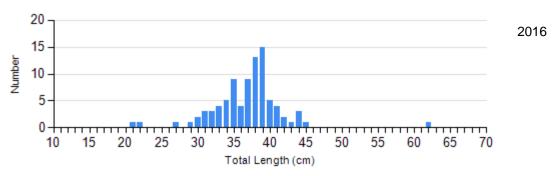


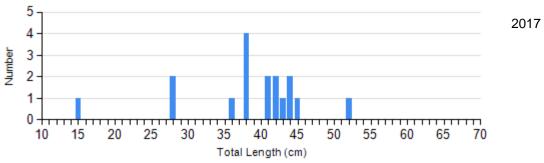


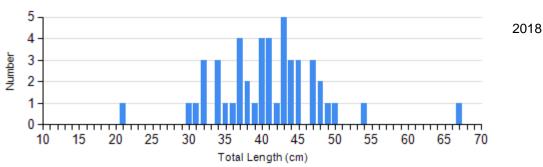
Species: Smallmouth Bass Gear: boat shocker (day)

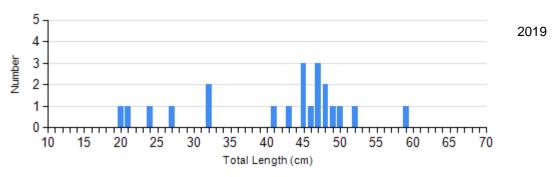


Species: Walleye Gear: AFS std gill net

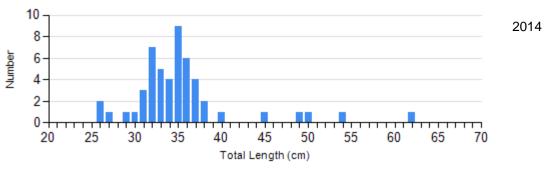


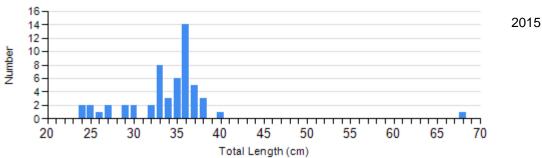




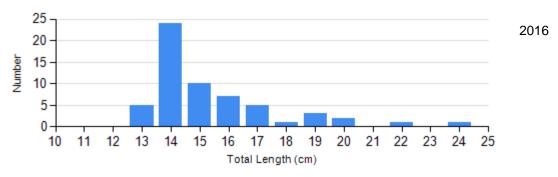


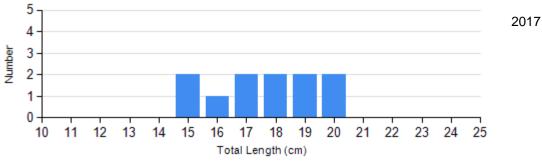
Species: Walleye Gear: std exp gill net

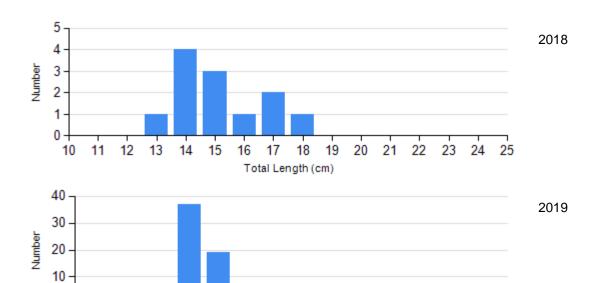




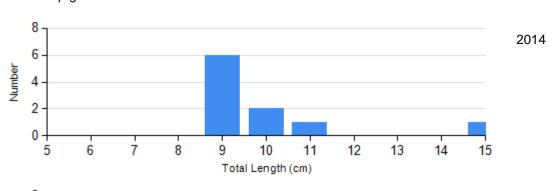
Species: Yellow Perch Gear: AFS std gill net

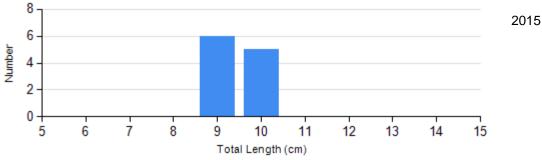












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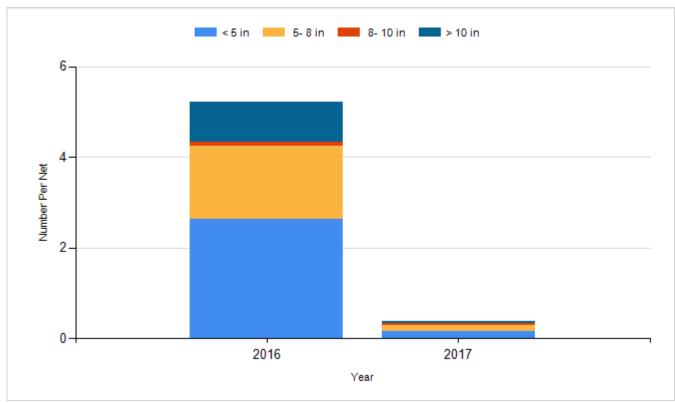
24

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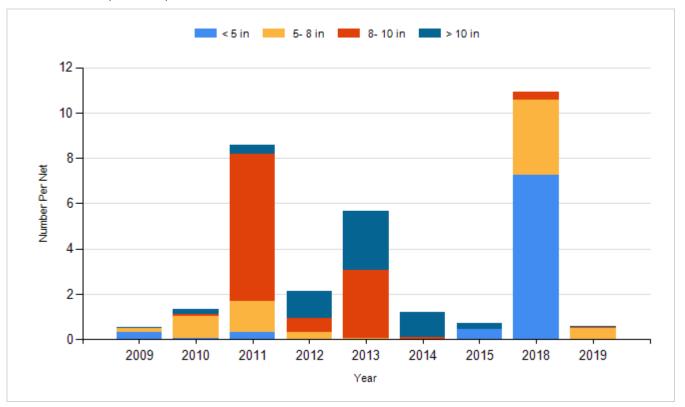
Historic Fish Sizes and Relative Abundance

Size distribution per net by color for species sampled by year.

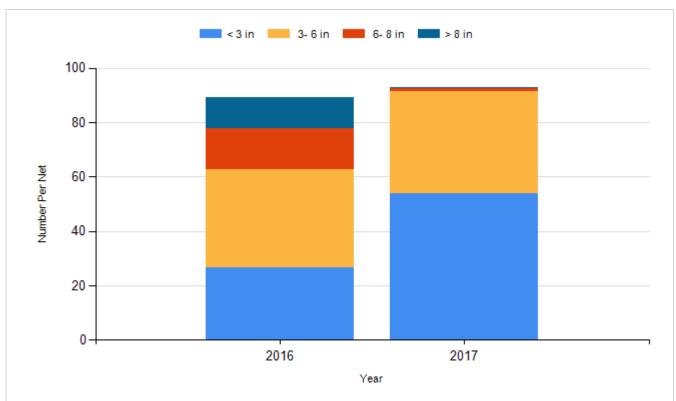
Species: Black Crappie Gear: AFS std frame net



Species: Black Crappie Gear: frame net (std 3/4 in)

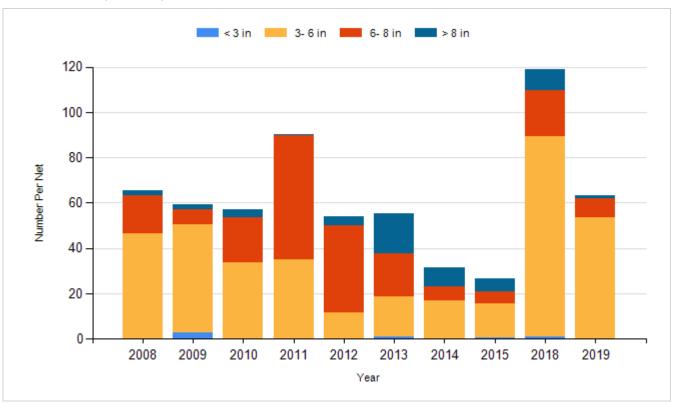


Species: Bluegill Gear: AFS std frame net

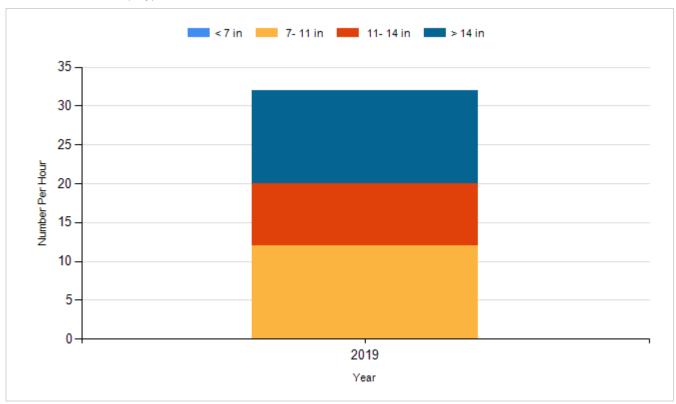


Species: Bluegill

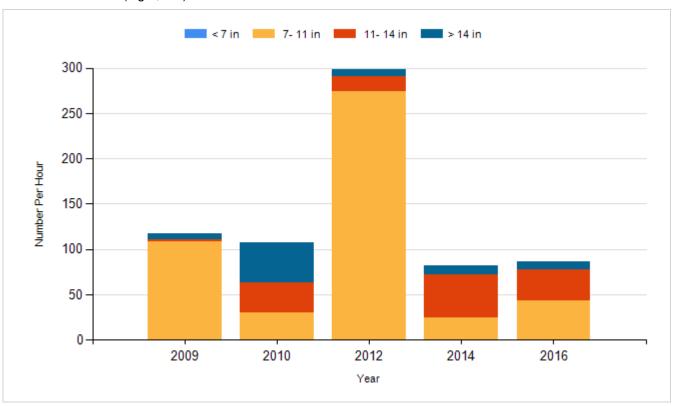
Gear: frame net (std 3/4 in)



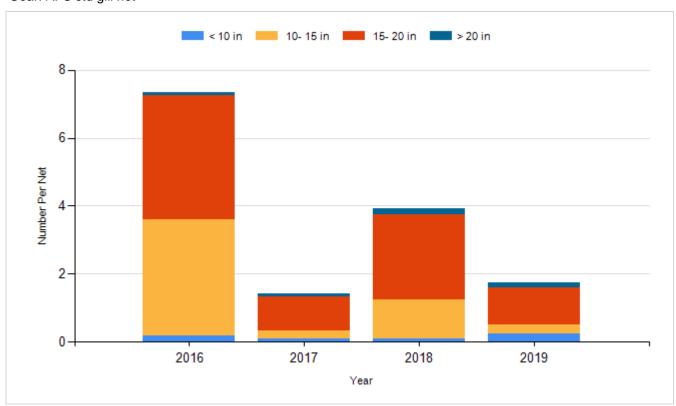
Species: Smallmouth Bass Gear: boat shocker (day)



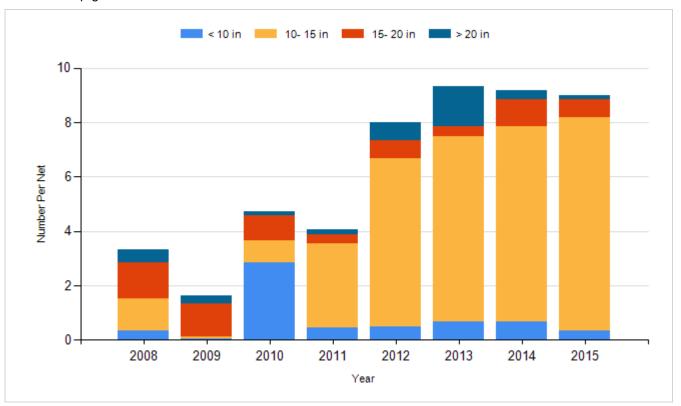
Species: Smallmouth Bass Gear: boat shocker (night, DC)



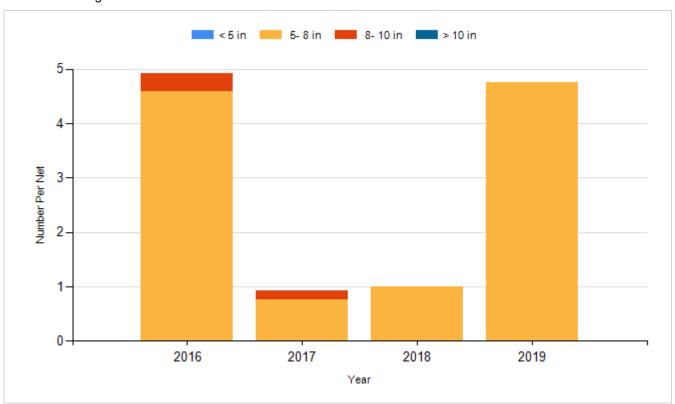
Species: Walleye Gear: AFS std gill net



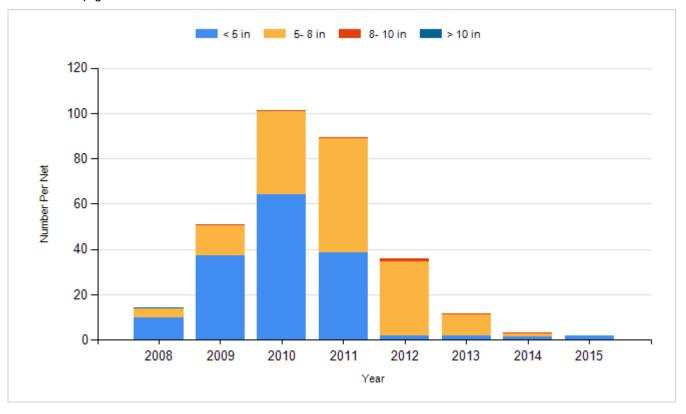
Species: Walleye Gear: std exp gill net



Species: Yellow Perch Gear: AFS std gill net



Species: Yellow Perch Gear: std exp gill net



Fish Stocking

Number of fish stocked by year, species, and size.

Year	Species	Size	Number
2009	Walleye	Large Fingerling	14,949
2011	Walleye	Large Fingerling	38,634
2011	Walleye	Small Fingerling	235,640
2013	Walleye	Small Fingerling	217,450
2015	Walleye	Large Fingerling	13,264
2017	Walleye	Large Fingerling	900
2018	Walleye	Large Fingerling	48,484
2019	Walleye	Large Fingerling	3,800