

Creel and Lake Information

Lake Information

Lake Name: Enemy Swim
Lake Code: UBS-Lake-196-000
Surface Area: 884.65 Hectares
County: Day
Start Date: 1/6/2019
End Date: 12/23/2019
Months Included: January, February, March, May, June, July, August, December

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Enemy Swim during 2018 - 2019. Any Species (ANY), Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE).

Year	Month	# of Interviews	Percent of Anglers Targeting						
			ANY	BLC	BLG	LMB	NOP	SMB	WAE
2018	December	14	14.3	0.0	35.7	0.0	42.9	0.0	7.1
	Overall	14	14.3	0.0	35.7	0.0	42.9	0.0	7.1
2019	January	8	37.5	0.0	50.0	0.0	12.5	0.0	0.0
	February	11	18.2	0.0	63.6	0.0	18.2	0.0	0.0
	March	9	0.0	11.1	55.6	0.0	22.2	11.1	0.0
	May	3	33.3	0.0	0.0	0.0	0.0	0.0	66.7
	June	11	36.4	0.0	18.2	27.3	0.0	9.1	9.1
	July	13	15.4	0.0	7.7	7.7	7.7	7.7	53.8
	August	6	50.0	0.0	16.7	0.0	0.0	0.0	33.3
	December	19	10.5	10.5	57.9	0.0	15.8	0.0	5.3
	Overall	80	21.3	3.8	38.8	5.0	11.3	3.8	16.3

Table 2. Monthly and overall number of interviews, angler hours, angler days, mean trip length, mean party size, percent of parties interviewed that were South Dakota residents, percent of angling activity from a boat or shack and percent of angling activity that occurred on weekends and holidays at Enemy Swim (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2018-2019	December	14	1,091 (544)	472	2.31 (0.67)	1.47 (0.20)	57.14	86	57
	January	8	1,109 (340)	291	3.81	1.32	87.50	100	75
	February	11	1,892 (984)	563	3.36	1.70	9.09	64	82
	March	9	1,693 (545)	508	3.33 (0.28)	2.51 (0.10)	66.67	56	67
	Overall	42	5,785 (1,295)	1,808	3.20 (0.19)	1.75 (0.06)	52.38	76	69
2019	May	3	3,118 (3,587)	962	3.24	2.00	100.00	100	33
	June	11	5,708 (1,841)	1,735	3.29	2.17 (0.38)	54.55	91	55
	July	13	6,722 (2,191)	1,500	4.48	2.25 (0.36)	30.77	92	62
	August	5	2,412	693	3.48	3.00	66.67	100	17
	Overall	32	17,960 (4,589)	4,934	3.64	2.31 (0.14)	51.52	94	48

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2019 daylight period on Enemy Swim (80% confidence interval).

Lake	Month				Total
	May	June	July	August	
Enemy Swim (Day)	3,118 (3,587)	5,708 (1,841)	6,722 (2,191)	2,412	17,960 (4,589)

Table 4. Estimated number of fish harvested, by species and month, for the summer season 2019 daylight period on Enemy Swim (80% confidence interval).

Species	Month				Total
	May	June	July	August	
Black Crappie	0	0	38 (39)	0	38 (39)
Bluegill	0	72 (78)	0	723	795 (78)
Largemouth Bass	0	290 (311)	0	0	290 (311)
Northern Pike	0	0	0	0	0
Smallmouth Bass	250	0	227 (236)	43	520 (236)
Walleye	250	0	902 (811)	43	1,195 (811)
Total	500	362 (389)	1,167 (1,086)	808	2,838 (1,475)

Table 5a. Estimated monthly and overall angler catch rate per hour fished (C/h) for all anglers by species at Enemy Swim (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	NOP	SMB	WAE
		C/h	C/h	C/h	C/h	C/h	C/h
2018- 2019	December	0.01 (0.01)	2.98 (1.67)	0.01 (0.01)	0.03 (0.03)	0.00	0.00
	January	0.00	2.84 (2.51)	0.00	0.07	0.00	0.00
	February	0.19 (0.10)	5.92 (2.46)	0.01	0.07 (0.07)	0.00	0.00
	March	0.51 (0.30)	2.70 (1.35)	0.00	0.00	0.34 (0.60)	0.01 (0.02)
	Overall	0.22 (0.09)	3.83 (0.90)	<0.01 (<0.01)	0.04 (0.02)	0.10 (0.17)	<0.01 (<0.01)
2019	May	0.00	0.00	0.00	0.00	0.16	0.16
	June	0.00	0.08 (0.09)	0.37 (0.41)	0.03	0.09 (0.05)	0.00
	July	0.01 (<0.01)	0.03 (0.03)	0.01 (<0.01)	0.01 (0.02)	0.26 (0.12)	0.18 (0.15)
	August	0.00	0.62	0.00	0.00	0.04	0.02
	Overall	<0.01 (<0.01)	0.12 (0.04)	0.12 (0.13)	0.01 (<0.01)	0.16 (0.06)	0.10 (0.06)

Table 5b. Estimated monthly and overall angler harvest rate per hour fished (H/h) for all anglers by species at Enemy Swim (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	NOP	SMB	WAE
		H/h	H/h	H/h	H/h	H/h	H/h
2018- 2019	December	0.01 (0.01)	0.29 (0.16)	0.00	0.02 (0.02)	0.00	0.00
	January	0.00	0.23 (0.30)	0.00	0.02	0.00	0.00
	February	0.00	0.20 (0.12)	0.00	0.07 (0.07)	0.00	0.00
	March	0.05 (0.01)	0.04 (0.01)	0.00	0.00	0.03 (0.05)	0.01 (0.02)
	Overall	0.02 (<0.01)	0.18 (0.07)	0.00	0.03 (0.02)	0.01 (0.01)	<0.01 (<0.01)
2019	May	0.00	0.00	0.00	0.00	0.08	0.08
	June	0.00	0.01 (0.01)	0.05 (0.06)	0.00	0.00	0.00
	July	0.01 (<0.01)	0.00	0.00	0.00	0.03 (0.05)	0.13 (0.13)
	August	0.00	0.30	0.00	0.00	0.02	0.02
	Overall	<0.01 (<0.01)	0.04 (0.01)	0.02 (0.02)	0.00	0.03 (0.02)	0.07 (0.05)

Table 6a. Estimated monthly and overall angler catch rate per hour fished (C/h) only for anglers primarily targeting a species at Enemy Swim. (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and Other Species (Other).

Year	Month	BLC	BLG	LMB	NOP	SMB	WAE
		C/h	C/h	C/h	C/h	C/h	C/h
2018- 2019	December	0.00	3.52 (0.37)	0.00	0.04 (0.12)	0.00	0.00
	January	0.00	0.92	0.00	0.30	0.00	0.00
	February	0.00	13.99	0.00	0.32	0.00	0.00
	March	0.00	3.93 (2.45)	0.00	0.00	5.33	0.00
	Overall	0.00	5.38 (0.63)	0.00	0.16 (0.05)	5.33	0.00
2019	May	0.00	0.00	0.00	0.00	0.00	0.19
	June	0.00	0.94	0.86	0.00	0.25	0.00
	July	0.00	0.00	0.08	0.00	0.67	0.34 (0.61)
	August	0.00	0.88	0.00	0.00	0.00	0.00
	Overall	0.00	0.78	0.68	0.00	0.45	0.16 (0.20)

Table 6b. Estimated monthly and overall angler harvest rate per hour fished (H/h) only for anglers primarily targeting a species at Enemy Swim. (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and Other Species (Other).

Year	Month	BLC	BLG	LMB	NOP	SMB	WAE
		H/h	H/h	H/h	H/h	H/h	H/h
2018- 2019	December	0.00	0.34	0.00	0.04 (0.07)	0.00	0.00
	January	0.00	0.03	0.00	0.30	0.00	0.00
	February	0.00	0.11	0.00	0.32	0.00	0.00
	March	0.00	0.06	0.00	0.00	0.44	0.00
	Overall	0.00	0.14	0.00	0.16 (0.03)	0.44	0.00
2019	May	0.00	0.00	0.00	0.00	0.00	0.09
	June	0.00	0.16	0.00	0.00	0.00	0.00
	July	0.00	0.00	0.00	0.00	0.00	0.26 (0.41)
	August	0.00	0.29	0.00	0.00	0.00	0.00
	Overall	0.00	0.18	0.00	0.00	0.00	0.11 (0.13)

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Enemy Swim (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	NOP	SMB	WAE
		C	C	C	C	C	C
2018- 2019	December	16 (14)	3,254 (1,390)	12 (11)	36 (23)	0	0
	January	0	3,154 (2,610)	0	78 (36)	0	0
	February	364 (36)	11,194 (684)	11	126 (109)	0	0
	March	870 (421)	4,570 (1,755)	0	0	581 (1,002)	21 (42)
	Overall	1,250 (423)	22,173 (3,506)	23 (11)	240 (117)	581 (1,002)	21 (42)
2019	May	0	0	0	0	500	500
	June	0	435 (467)	2,101 (2,257)	145	508 (234)	0
	July	38 (39)	189 (171)	38 (55)	75 (124)	1,772 (821)	1,242 (974)
	August	0	1,488	0	0	85	43
	Overall	38 (39)	2,112 (497)	2,139 (2,258)	220 (124)	2,865 (853)	1,785 (974)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Enemy Swim (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	NOP	SMB	WAE
		H	H	H	H	H	H
2018- 2019	December	16 (14)	318 (163)	0	24 (12)	0	0
	January	0	253 (324)	0	26 (55)	0	0
	February	0	377 (36)	0	126 (109)	0	0
	March	77	69	0	0	43 (83)	21 (42)
	Overall	93 (14)	1,016 (364)	0	176 (123)	43 (83)	21 (42)
2019	May	0	0	0	0	250	250
	June	0	72 (78)	290 (311)	0	0	0
	July	38 (39)	0	0	0	227 (236)	902 (811)
	August	0	723	0	0	43	43
	Overall	38 (39)	795 (78)	290 (311)	0	520 (236)	1,195 (811)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) caught and harvested by anglers during the summer and winter fisheries on Enemy Swim, (80% confidence interval).

Black Crappie

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	13 (13)	0	<0.01 (<0.01)	0.00
Summer	2011	136	136	0.01	0.01
Summer	2013	2,018 (655)	1,254 (513)	0.04 (0.02)	0.03 (0.02)
Summer	2014	2,238 (1,008)	1,883 (951)	0.04 (0.03)	0.03 (0.03)
Summer	2015	117 (70)	117 (70)	0.01 (<0.01)	0.01 (<0.01)
Summer	2016	1,650 (277)	381 (284)	0.04 (0.01)	0.01 (<0.01)
Summer	2017	42 (42)	27 (35)	<0.01 (<0.01)	<0.01 (<0.01)
Summer	2019	38 (39)	38 (39)	<0.01 (<0.01)	<0.01 (<0.01)
Winter	2009-2010	4	0	0.02	0.00
Winter	2013-2014	811	690	0.04	0.03
Winter	2014-2015	2,530	2,255	0.11	0.10
Winter	2015-2016	984	804	0.05	0.04
Winter	2016-2017	1,432	208	0.12	0.02
Winter	2018-2019	1,250 (423)	93 (14)	0.22 (0.09)	0.02 (<0.01)

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	7,976 (6,270)	2,041 (1,606)	0.37 (0.31)	0.09 (0.08)
Summer	2011	10,089 (4,497)	2,976 (442)	0.53 (0.27)	0.16 (0.05)
Summer	2013	59,846 (13,046)	33,680 (6,987)	1.31 (0.29)	0.74 (0.18)
Summer	2014	32,097 (11,679)	22,492 (7,689)	0.59 (0.41)	0.41 (0.27)
Summer	2015	8,718 (2,360)	5,668 (1,409)	0.45 (0.22)	0.29 (0.15)
Summer	2016	27,971 (12,260)	16,519 (6,459)	0.71 (0.44)	0.42 (0.23)
Summer	2017	6,892 (4,505)	1,194 (554)	0.37 (0.24)	0.06 (0.03)
Summer	2019	2,112 (497)	795 (78)	0.12 (0.04)	0.04 (0.01)
Winter	2009-2010	421	113	1.59	0.43
Winter	2010-2011	187	94	0.46	0.23
Winter	2013-2014	30,661	17,149	1.48	0.83
Winter	2014-2015	13,148	8,352	0.56	0.36
Winter	2015-2016	30,060	10,252	1.51	0.51
Winter	2016-2017	46,056	7,268	3.98	0.63
Winter	2018-2019	22,173 (3,506)	1,016 (364)	3.83 (0.90)	0.18 (0.07)

Largemouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	1,679 (884)	58 (53)	0.08 (0.05)	<0.01 (<0.01)
Summer	2011	2,219	0	0.12	0.00
Summer	2013	7,523 (3,556)	361 (682)	0.17 (0.09)	0.01 (0.02)
Summer	2014	2,752 (1,599)	0	0.05 (0.03)	0.00
Summer	2015	292 (118)	0	0.02 (<0.01)	0.00
Summer	2016	2,131 (604)	0	0.05 (0.02)	0.00
Summer	2017	1,172 (644)	289 (213)	0.06 (0.04)	0.02 (0.01)
Summer	2019	2,139 (2,258)	290 (311)	0.12 (0.13)	0.02 (0.02)
Winter	2013-2014	96	0	<0.01	0.00
Winter	2014-2015	165	0	0.01	0.00
Winter	2015-2016	73	0	<0.01	0.00
Winter	2016-2017	562	93	0.05	0.01
Winter	2018-2019	23 (11)	0	<0.01 (<0.01)	0.00

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	589 (173)	96	0.03 (0.01)	<0.01 (<0.01)
Summer	2011	1,541 (88)	139 (74)	0.08 (0.02)	0.01 (<0.01)
Summer	2013	1,698 (772)	50 (65)	0.04 (0.02)	<0.01 (<0.01)
Summer	2014	2,590 (869)	490 (502)	0.05 (0.02)	0.01 (<0.01)
Summer	2015	1,168 (918)	104 (67)	0.06 (0.04)	0.01 (<0.01)
Summer	2016	1,083 (426)	153 (119)	0.03 (0.01)	<0.01 (<0.01)
Summer	2017	1,445 (919)	127 (86)	0.08 (0.05)	0.01 (<0.01)
Summer	2019	220 (124)	0	0.01 (<0.01)	0.00
Winter	2009-2010	2	2	0.01	0.01
Winter	2010-2011	16	16	0.04	0.04
Winter	2013-2014	204	96	0.01	<0.01
Winter	2014-2015	249	53	0.01	<0.01
Winter	2015-2016	601	524	0.03	0.03
Winter	2016-2017	1,048	285	0.09	0.02
Winter	2018-2019	240 (117)	176 (123)	0.04 (0.02)	0.03 (0.02)

Smallmouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	12,325 (4,053)	85 (115)	0.57 (0.27)	<0.01 (<0.01)
Summer	2011	18,448 (1,941)	1,823 (306)	0.98 (0.30)	0.10 (0.04)
Summer	2013	20,368 (3,077)	314 (86)	0.45 (0.11)	0.01 (<0.01)
Summer	2014	25,843 (7,216)	905 (506)	0.48 (0.23)	0.02 (0.01)
Summer	2015	4,535 (1,667)	300 (106)	0.24 (0.14)	0.02 (0.01)
Summer	2016	8,041 (3,350)	1,422 (1,074)	0.20 (0.13)	0.04 (0.03)
Summer	2017	4,785 (1,413)	834 (296)	0.26 (0.11)	0.05 (0.02)
Summer	2019	2,865 (853)	520 (236)	0.16 (0.06)	0.03 (0.02)
Winter	2009-2010	7	0	0.03	0.00
Winter	2013-2014	257	0	0.01	0.00
Winter	2014-2015	1,996	0	0.09	0.00
Winter	2015-2016	485	0	0.02	0.00
Winter	2016-2017	86	0	0.01	0.00
Winter	2018-2019	581 (1,002)	43 (83)	0.10 (0.17)	0.01 (0.01)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	451 (272)	201 (335)	0.02 (0.01)	0.01 (0.02)
Summer	2011	2,924 (309)	0	0.15 (0.03)	0.00
Summer	2013	11,166 (2,151)	1,862 (262)	0.25 (0.08)	0.04 (<0.01)
Summer	2014	26,675 (9,103)	3,236 (964)	0.49 (0.26)	0.06 (0.02)
Summer	2015	4,012 (2,223)	554 (274)	0.21 (0.22)	0.03 (0.03)
Summer	2016	5,747 (2,282)	1,990 (717)	0.15 (0.08)	0.05 (0.03)
Summer	2017	2,347 (765)	1,364 (515)	0.13 (0.05)	0.07 (0.03)
Summer	2019	1,785 (974)	1,195 (811)	0.10 (0.06)	0.07 (0.05)
Winter	2009-2010	2	2	0.01	0.01
Winter	2013-2014	721	65	0.03	<0.01
Winter	2014-2015	1,883	435	0.08	0.02
Winter	2015-2016	463	53	0.02	<0.01
Winter	2016-2017	108	72	0.01	0.01
Winter	2018-2019	21 (42)	21 (42)	<0.01 (<0.01)	<0.01 (<0.01)

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Enemy Swim. Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE).

Winter 2018-2019						
Length Group (mm)	BLC (N=3)	BLG (N=46)	LMB (N=0)	NOP (N=7)	SMB (N=0)	WAE (N=0)
150		1				
160		8				
170		7				
180		13				
190		8				
200		4				
210		3				
220		1				
230						
240		1				
250	1					
260	2					
530				1		
540						
550						
560						
570						
580				1		
590						
600						
610				1		
620						
630						
640				1		
650						
660						
670						
680						
690				1		
700				1		
710						
720						
730						
740						
750						
760						
770						
780						
790						
800						
810						
820						
830						
840						
850						
860						
870						
880						
890				1		

Summer 2019

Length Group (mm)	BLC (N=1)	BLG (N=11)	LMB (N=4)	NOP (N=0)	SMB (N=8)	WAE (N=16)
150		1				
160		2				
170						
180		2				
190		1				
200		2				
210						
220						
230						
240						
250		2				
260						
270		1				
320	1					
330					2	
340			1			
350			1			
360			1			
370						1
380			1			1
390					1	1
400					2	2
410					2	3
420						
430					1	1
440						
450						
460						3
470						1
480						2
490						
500						
510						
520						
530						
540						
550						
560						
570						
580						1

Figure 1a. Length frequency of angler-harvested Bluegill measured by the creel clerk during creel surveys on Enemy Swim.

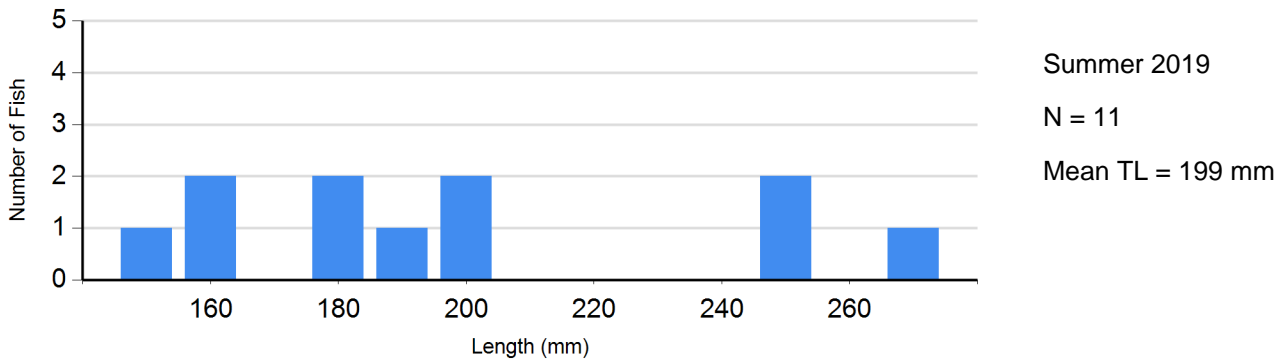
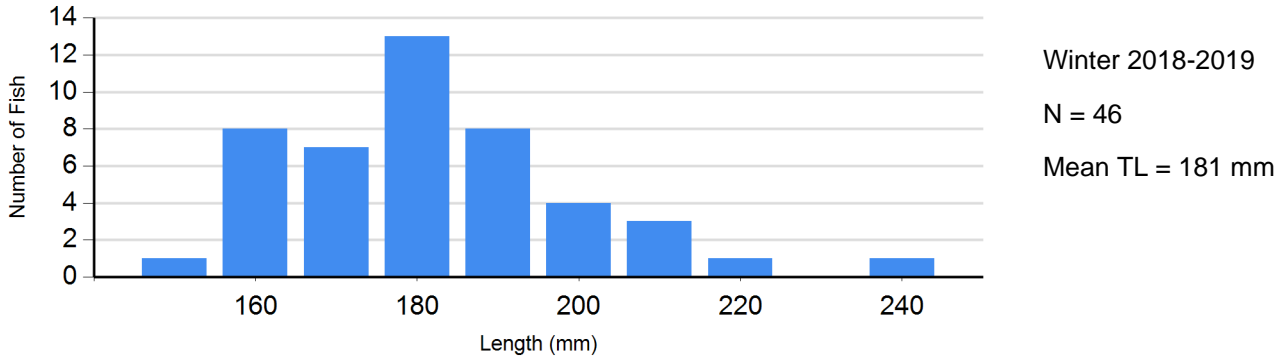


Figure 1b. Length frequency of angler-harvested Walleye measured by the creel clerk during creel surveys on Enemy Swim.

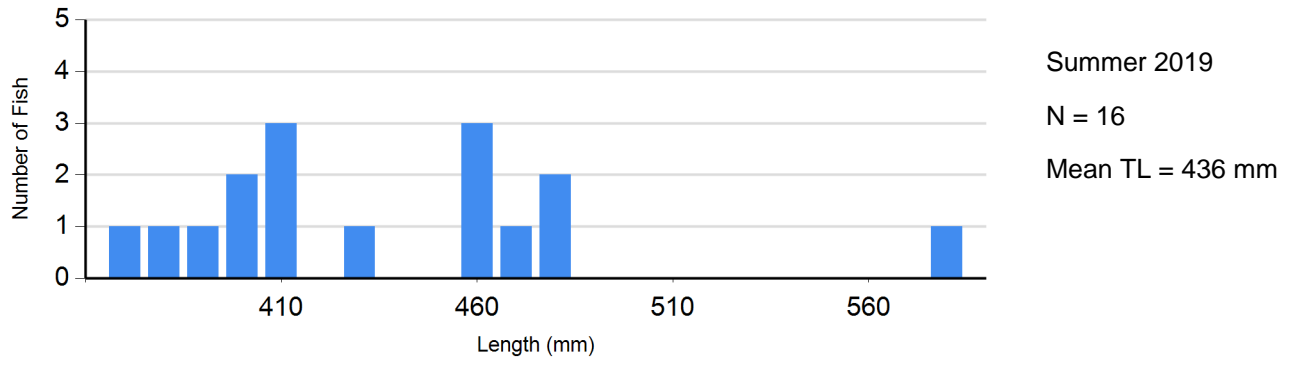


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Enemy Swim, South Dakota between December 2018 and December 2019.

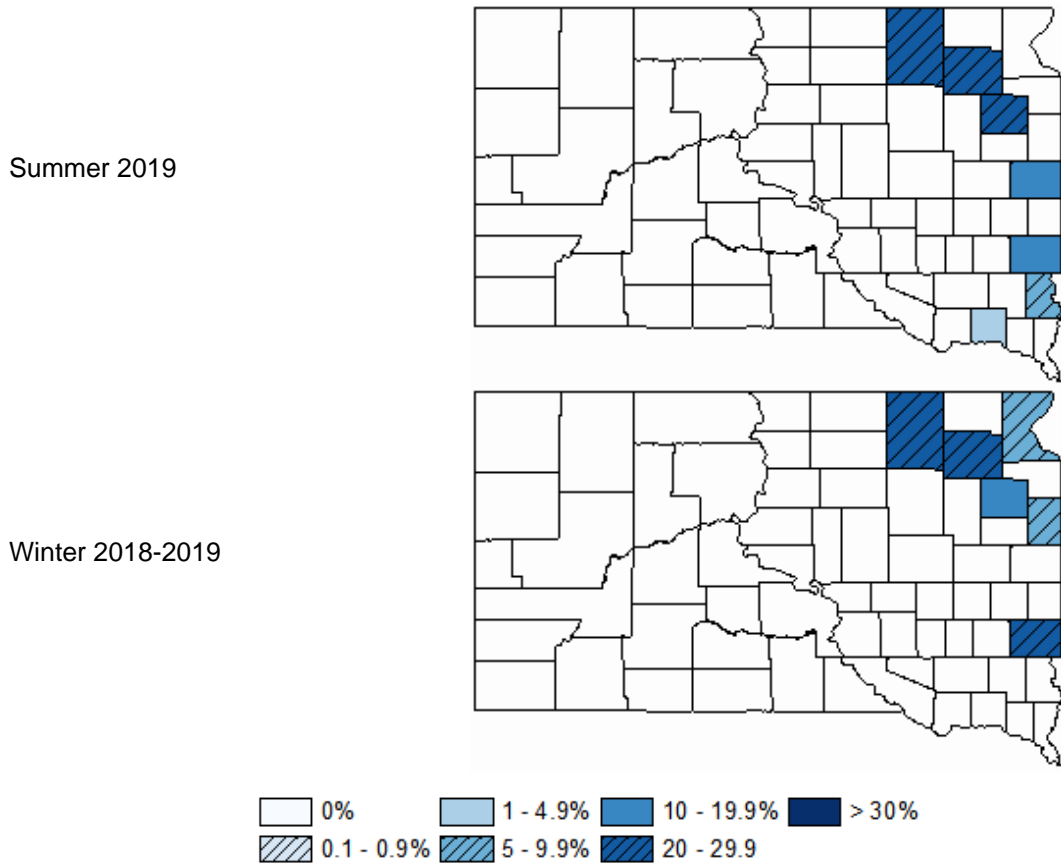


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts					
	BLC (n=33)	BLG (n=33)	LMB (n=33)	NOP (n=33)	SMB (n=33)	WAE (n=33)
0.00	32	29	32	33	29	28
0.33	1	0	0	0	1	1
0.50	0	1	0	0	1	1
0.60	0	0	0	0	1	0
0.67	0	1	0	0	0	0
1.25	0	1	0	0	0	0
1.50	0	0	0	0	1	0
2.00	0	0	1	0	0	2
2.50	0	1	0	0	0	0
6.00	0	0	0	0	0	1

Winter 2018-2019

Counts

Angler Harvest	BLC (n=42)	BLG (n=42)	LMB (n=42)	NOP (n=42)	SMB (n=42)	WAE (n=42)
0.00	39	28	42	37	41	41
0.17	0	1	0	0	0	0
0.33	0	1	0	0	0	0
0.50	1	2	0	1	0	0
1.00	1	1	0	2	0	1
1.50	0	0	0	1	0	0
2.00	1	2	0	1	1	0
2.50	0	1	0	0	0	0
4.50	0	1	0	0	0	0
5.00	0	1	0	0	0	0
10.00	0	2	0	0	0	0
15.00	0	2	0	0	0	0

Table 11 The number (N) and percent of total interviews in supplemental-response categories by question asked during interviews at Enemy Swim.

Question: Considering all factors, how satisfied are you with your fishing trip today?

Response	Summer 2019 (n = 31)
Very Satisfied	42%
Moderately Satisfied	16%
Slightly Satisfied	13%
Neutral/No Opinion	19%
Slightly Dissatisfied	6%
Moderately Dissatisfied	3%