

Creel and Lake Information

Lake Information

Lake Name: Pickerel
Lake Code: UBS-Lake-358-000
Surface Area: 400.41 Hectares
County: Day
Start Date: 1/2/2020
End Date: 12/31/2020
Months Included: January, February, March, December

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Pickerel during 2019 - 2020. Any Species (ANY), Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Walleye (WAE), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting					
			ANY	BLC	BLG	NOP	WAE	YEP
2019	January	21	14.3	0.0	4.8	19.0	0.0	52.4
	February	19	52.6	0.0	5.3	10.5	0.0	31.6
	March	5	40.0	0.0	60.0	0.0	0.0	0.0
	December	35	25.7	8.6	60.0	0.0	0.0	5.7
	Overall	80	30.0	3.8	32.5	7.5	0.0	23.8
2020	January	45	24.4	4.4	28.9	0.0	6.7	35.6
	February	36	30.6	5.6	2.8	8.3	5.6	47.2
	March	12	33.3	0.0	16.7	8.3	8.3	33.3
	December	13	30.8	0.0	53.8	0.0	7.7	7.7
	Overall	106	28.3	3.8	21.7	3.8	6.6	35.8

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 Pickerel (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	11	1,132 (303)	275	4.11 (0.03)	1.49 (0.07)	72.73	82	55
	January	21	6,997 (1,902)	1,612	4.34	3.03	19.05	100	57
	February	19	7,997 (5,768)	1,830	4.37	2.27	31.58	89	32
	March	5	3,105 (1,568)	941	3.30	1.48	60.00	100	80
	Overall	56	19,230 (6,280)	4,784	4.02 (0.01)	2.06 (0.02)	37.50	93	50
2019-2020	December	35	2,219 (1,049)	664	3.34 (0.92)	1.65 (0.24)	80.00	63	51
	January	45	5,851 (1,417)	1,536	3.81 (0.81)	2.16 (0.41)	46.67	87	20
	February	36	4,009 (1,076)	954	4.20 (0.88)	1.63 (0.15)	52.78	81	64
	March	12	9,146 (1,998)	1,654	5.53	2.31 (1.14)	41.67	58	33
	Overall	128	21,226 (2,873)	5,030	4.22 (0.38)	1.94 (0.32)	57.03	76	42

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2020 daylight period on Pickerel (80% confidence interval).

Lake	Month
	Total
Pickerel (Day)	0

Table 4. Estimated number of fish harvested, by species and month, for the summer season 2020 daylight period on Pickerel (80% confidence interval).

Species	Month
	Total
Black Crappie	0
Bluegill	0
Northern Pike	0
Walleye	0
Yellow Perch	0
Total	0

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

Year	Month	BLC	BLG	NOP	WAE	YEP
		C/h	C/h	C/h	C/h	C/h
2018- 2019	December	0.04 (0.07)	0.35 (0.11)	0.01 (0.02)	0.22 (0.25)	1.67 (1.06)
	January	0.01 (0.01)	0.11 (0.08)	0.06	0.04 (0.03)	0.26 (0.25)
	February	0.00	0.01 (<0.01)	<0.01 (<0.01)	0.11 (0.08)	3.27 (2.40)
	March	0.16	2.46	0.02	0.01	0.15
	Overall	0.03 (0.01)	0.46 (0.15)	0.03	0.07 (0.03)	1.58 (0.57)
2019- 2020	December	0.05 (0.03)	3.46 (3.69)	0.07 (0.05)	0.01	0.43 (0.30)
	January	0.01 (<0.01)	0.24 (0.12)	0.02 (0.01)	0.02 (0.01)	1.16 (0.62)
	February	1.23 (0.31)	0.15 (0.04)	0.04 (0.02)	0.03 (0.05)	1.72 (0.62)
	March	0.03 (0.01)	0.57 (0.59)	0.01 (0.01)	0.57 (0.12)	2.20 (0.36)
	Overall	0.25 (0.03)	0.70 (0.39)	0.02 (<0.01)	0.26 (0.04)	1.64 (0.27)

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

Year	Month	BLC	BLG	NOP	WAE	YEP
		H/h	H/h	H/h	H/h	H/h
2018- 2019	December	0.04 (0.07)	0.16 (0.04)	0.01 (0.02)	0.00	0.92 (0.80)
	January	0.00	0.08 (0.06)	0.06	<0.01 (<0.01)	0.08 (0.07)
	February	0.00	<0.01 (<0.01)	<0.01 (<0.01)	0.00	0.22 (0.17)
	March	0.14	1.03	0.01	0.00	0.01
	Overall	0.03 (<0.01)	0.21 (0.07)	0.02	<0.01 (<0.01)	0.18 (0.08)
2019- 2020	December	0.03 (0.02)	1.96 (1.77)	0.06 (0.05)	0.01	0.09 (0.06)
	January	0.01 (<0.01)	0.16 (0.10)	<0.01 (<0.01)	<0.01 (<0.01)	0.20 (0.10)
	February	0.36 (0.11)	0.03 (<0.01)	0.02 (0.02)	<0.01 (<0.01)	0.40 (0.24)
	March	0.01 (<0.01)	0.18 (0.13)	0.01 (0.01)	0.00	0.62 (0.13)
	Overall	0.08 (0.01)	0.33 (0.14)	0.01 (<0.01)	<0.01 (<0.01)	0.41 (0.08)

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

Year	Month	BLC	BLG	NOP	WAE	YEP
		C/h	C/h	C/h	C/h	C/h
2018- 2019	December	0.00	0.00	0.00	0.00	2.40 (2.23)
	January	0.00	0.39	0.64 (2.80)	0.00	0.44 (0.32)
	February	0.00	0.00	0.06	0.00	2.10 (2.46)
	March	0.00	8.00	0.00	0.00	0.00
	Overall	0.00	3.11	0.21 (0.74)	0.00	1.63 (1.09)
2019- 2020	December	0.26	3.69 (1.84)	0.00	0.00	0.10
	January	0.00	0.53 (0.44)	0.00	0.05 (0.13)	1.79 (1.53)
	February	7.02	0.00	0.23 (0.08)	0.00	2.88 (3.42)
	March	0.00	0.00	0.00	0.00	1.93
	Overall	3.49	2.18 (1.01)	0.11 (0.04)	0.02 (0.04)	2.14 (1.45)

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

Year	Month	BLC	BLG	NOP	WAE	YEP
		H/h	H/h	H/h	H/h	H/h
2018- 2019	December	0.00	0.00	0.00	0.00	1.41 (2.59)
	January	0.00	0.36	0.64 (2.39)	0.00	0.16 (0.16)
	February	0.00	0.00	0.06	0.00	0.16 (0.17)
	March	0.00	3.28	0.00	0.00	0.00
	Overall	0.00	1.30	0.21 (0.63)	0.00	0.59 (0.90)
2019- 2020	December	0.22	2.06 (0.88)	0.00	0.00	0.00
	January	0.00	0.46 (0.46)	0.00	0.00	0.43 (0.74)
	February	2.11	0.00	0.23 (0.08)	0.00	0.46 (0.57)
	March	0.00	0.00	0.00	0.00	0.69
	Overall	1.07	1.27 (0.50)	0.11 (0.04)	0.00	0.48 (0.30)

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Pickerel (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	BLG	NOP	WAE	YEP
		C	C	C	C	C
2018- 2019	December	51 (81)	400 (63)	17 (17)	245 (210)	1,889 (609)
	January	38 (71)	761 (508)	385 (302)	247 (290)	1,839 (725)
	February	0	85 (71)	21 (27)	854 (51)	26,169 (873)
	March	498	7,652	67	22	470
	Overall	587 (108)	8,897 (517)	490 (303)	1,368 (362)	30,367 (1,288)
2019- 2020	December	103 (56)	7,679 (5,578)	154 (94)	12	964 (572)
	January	41 (30)	1,409 (570)	96 (59)	97 (72)	6,813 (1,910)
	February	4,915 (169)	593 (35)	176 (87)	139 (123)	6,881 (1,579)
	March	305 (75)	5,188 (4,734)	76 (92)	5,170 (92)	20,115 (2,450)
	Overall	5,365 (195)	14,869 (7,338)	502 (169)	5,418 (170)	34,773 (3,531)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Pickerel (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	BLG	NOP	WAE	YEP
		H	H	H	H	H
2018- 2019	December	51 (81)	181	17 (17)	0	1,040 (548)
	January	0	555 (366)	385 (302)	29 (46)	576 (429)
	February	0	21 (22)	21 (27)	0	1,741 (391)
	March	438	3,194	37	0	45
	Overall	489 (81)	3,951 (367)	460 (303)	29 (46)	3,401 (799)
2019- 2020	December	62 (45)	4,353 (2,269)	133 (96)	12	189 (100)
	January	41 (30)	939 (491)	15 (17)	29 (34)	1,187 (633)
	February	1,444 (27)	108 (17)	88 (83)	13 (15)	1,602 (513)
	March	76 (92)	1,679 (1,011)	76 (92)	0	5,701 (1,558)
	Overall	1,623 (111)	7,078 (2,532)	312 (158)	55 (38)	8,679 (1,761)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Walleye (WAE), Yellow Perch (YEP) caught and harvested by anglers during the summer and winter fisheries on Pickerel, (80% confidence interval).

Black Crappie

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Winter	2010-2011	6,752	6,676	1.17	1.15
Winter	2015-2016	45	45	0.01	0.01
Winter	2018-2019	587 (108)	489 (81)	0.03 (0.01)	0.03 (<0.01)
Winter	2019-2020	5,365 (195)	1,623 (111)	0.25 (0.03)	0.08 (0.01)

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Winter	2010-2011	129	43	0.02	0.01
Winter	2018-2019	8,897 (517)	3,951 (367)	0.46 (0.15)	0.21 (0.07)
Winter	2019-2020	14,869 (7,338)	7,078 (2,532)	0.70 (0.39)	0.33 (0.14)

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Winter	2015-2016	130	90	0.02	0.01
Winter	2018-2019	490 (303)	460 (303)	0.03	0.02
Winter	2019-2020	502 (169)	312 (158)	0.02 (<0.01)	0.01 (<0.01)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Winter	2010-2011	80	0	0.01	0.00
Winter	2015-2016	270	139	0.04	0.02
Winter	2018-2019	1,368 (362)	29 (46)	0.07 (0.03)	<0.01 (<0.01)
Winter	2019-2020	5,418 (170)	55 (38)	0.26 (0.04)	<0.01 (<0.01)

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Winter	2010-2011	1,979	372	0.34	0.06
Winter	2015-2016	673	630	0.09	0.09
Winter	2018-2019	30,367 (1,288)	3,401 (799)	1.58 (0.57)	0.18 (0.08)
Winter	2019-2020	34,773 (3,531)	8,679 (1,761)	1.64 (0.27)	0.41 (0.08)

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Pickerel. Abbreviations for species are as follows: Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Walleye (WAE), Yellow Perch (YEP).

Winter 2018-2019					
Length Group (mm)	BLC (N=7)	BLG (N=33)	NOP (N=10)	WAE (N=1)	YEP (N=90)
120					1
130					
140					
150					
160					
170		2			1
180		5			6
190	1	2			8
200	1	9			11
210	2	11			8
220	2	4			15
230	1				9
240					17
250					6
260					5
270					1
280				1	2
530			1		
540			1		
550					
560			2		
570					
580			1		
590					
600					
610					
620					
630			1		
640					
650					
660					
670			1		
680			1		
690					
700					
710					
720					
730					
740					
750					
760					
770					
780			1		
790					
800					
810					
820					
830					
840					
850			1		

Winter 2019-2020

Length Group (mm)	BLC (N=10)	BLG (N=182)	NOP (N=14)	WAE (N=4)	YEP (N=83)
170		6			2
180		4			2
190		10			4
200		27			8
210		73			22
220		36			21
230	2	22			13
240	1	4			4
250	4				4
260	2				2
270					
280	1				1
300				1	
310				1	
320					
330					
340					
350				1	
360					
370					
380				1	
490			1		
500					
510					
520			1		
530					
540					
550			2		
560			1		
570			2		
580					
590			2		
600					
610					
620			1		
630			1		
640					
650					
660					
670					
680			1		
690					
700					
710					
720					
730					
740			1		
750			1		

Figure 1a. Length frequency of angler-harvested Black Crappie measured by the creel clerk during creel surveys on Pickerel.

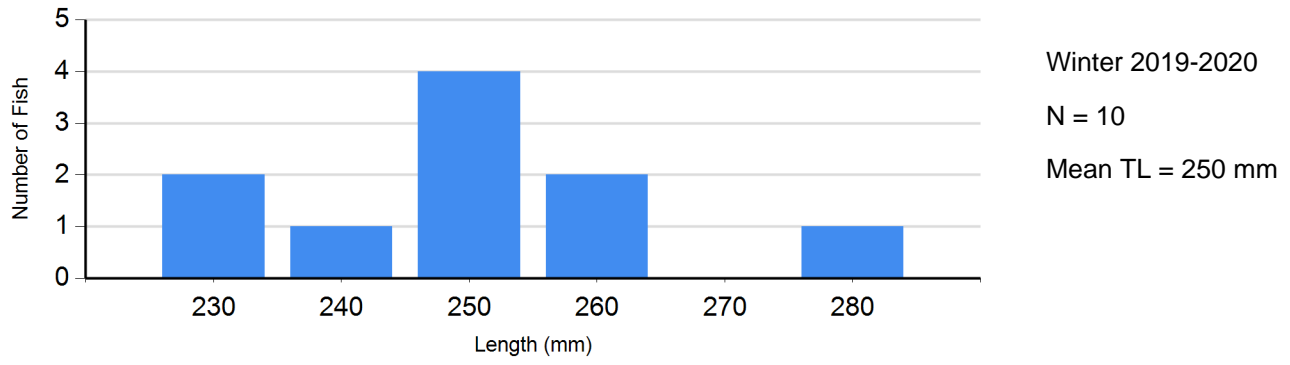


Figure 1b. Length frequency of angler-harvested Bluegill measured by the creel clerk during creel surveys on Pickerel.

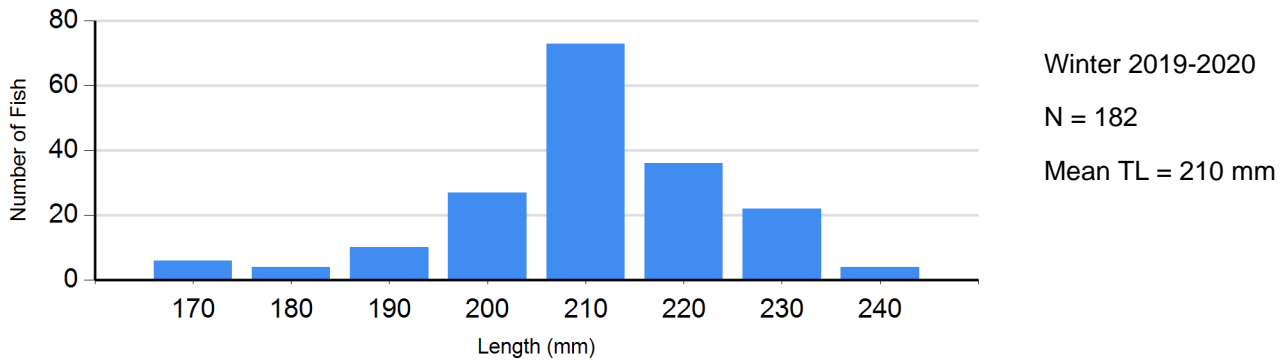
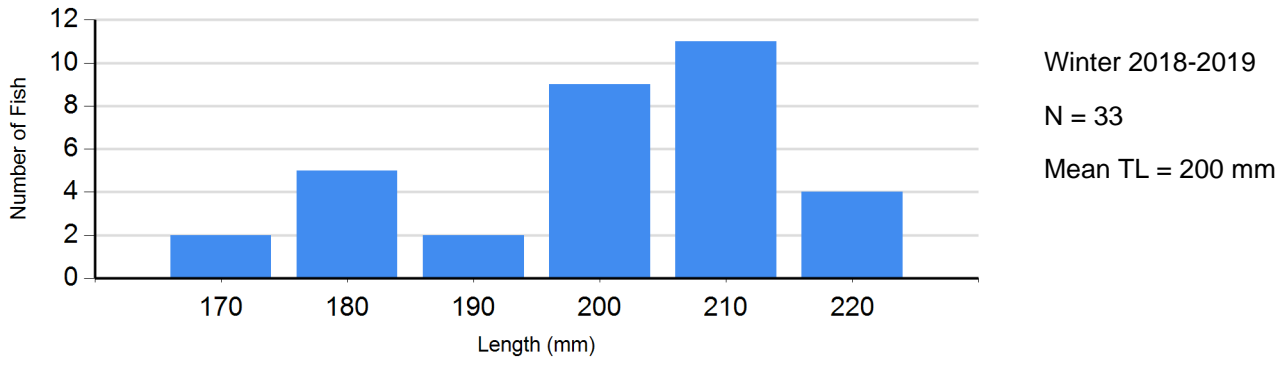


Figure 1c. Length frequency of angler-harvested Northern Pike measured by the creel clerk during creel surveys on Pickerel.

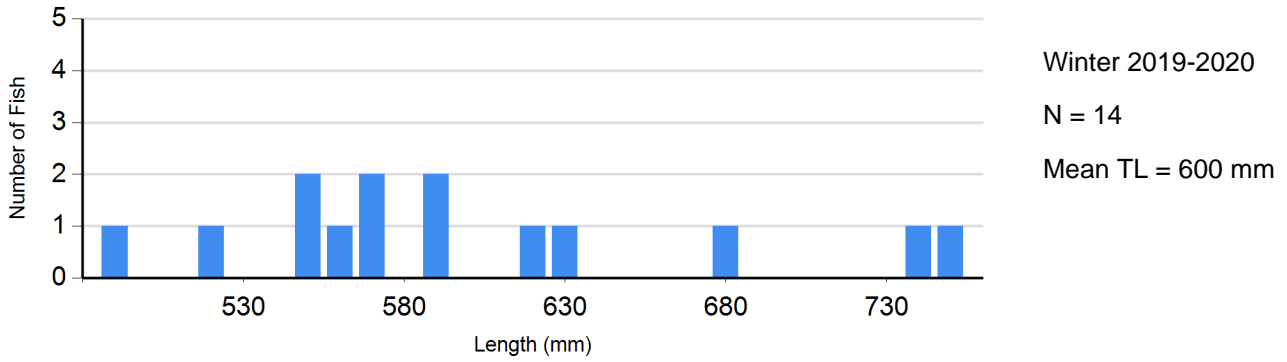
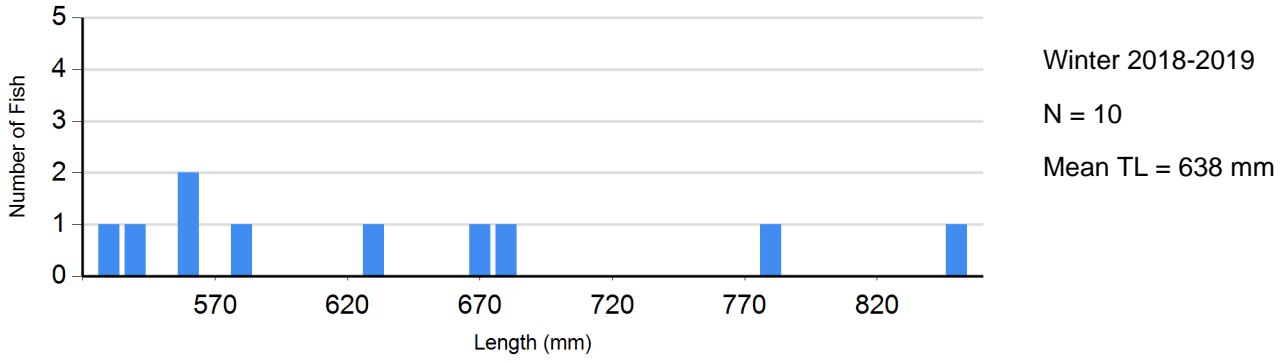


Figure 1d. Length frequency of angler-harvested Yellow Perch measured by the creel clerk during creel surveys on Pickerel.

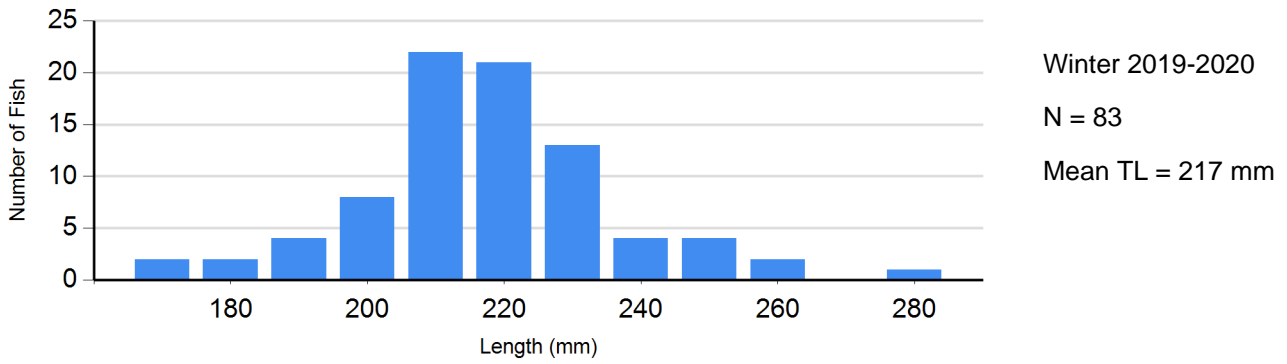
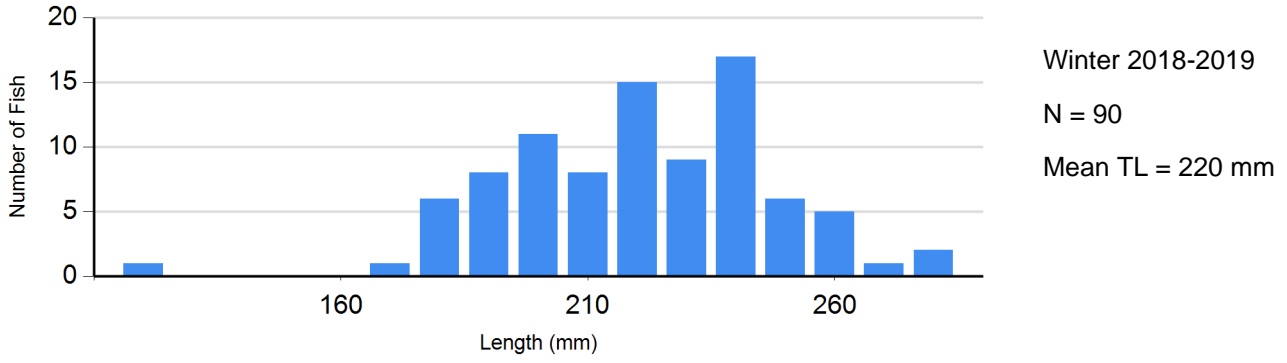


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Pickerel, South Dakota between January 2019 and December 2020.

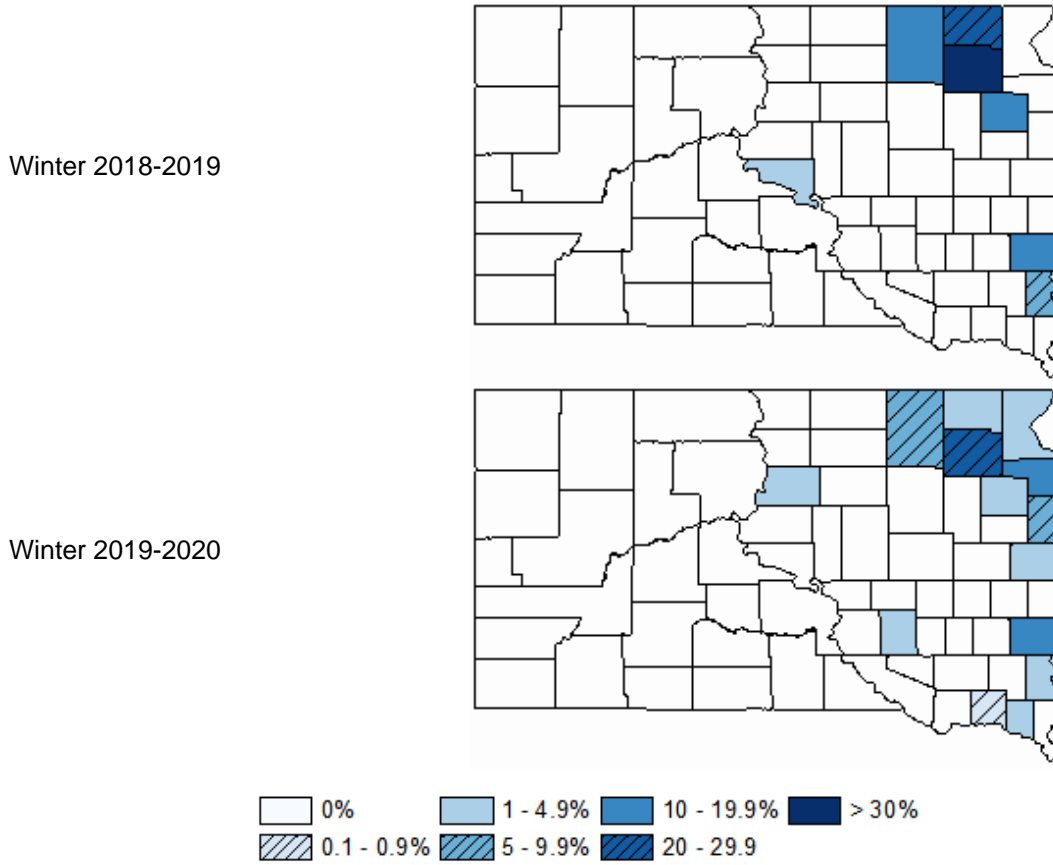


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts				
	BLC (n=56)	BLG (n=56)	NOP (n=56)	WAE (n=56)	YEP (n=56)
0.00	53	47	48	55	32
0.20	0	1	0	0	1
0.33	0	0	0	0	1
0.50	0	1	2	1	5
0.60	1	1	0	0	0
0.67	0	0	0	0	1
0.80	0	0	1	0	0
1.00	0	0	2	0	3
1.20	0	0	0	0	1
1.50	1	1	1	0	1
2.00	1	0	0	0	0
2.20	0	1	0	0	0
2.25	0	0	0	0	1
3.00	0	0	0	0	2
3.67	0	0	0	0	1
3.75	0	1	0	0	0
4.00	0	1	0	0	2
4.33	0	0	1	0	0
5.00	0	0	0	0	2
5.67	0	0	0	0	1
6.00	0	0	1	0	1
11.00	0	1	0	0	0
15.00	0	1	0	0	1

Winter 2019-2020**Counts**

Angler Harvest	BLC (n=128)	BLG (n=128)	NOP (n=128)	WAE (n=128)	YEP (n=128)
0.00	116	91	115	125	85
0.20	1	0	0	0	1
0.25	1	1	0	1	1
0.33	2	0	1	0	1
0.50	4	2	5	0	4
0.67	0	1	1	0	0
0.75	0	0	0	0	1
1.00	3	1	4	2	10
1.25	0	1	0	0	0
1.50	0	2	1	0	3
1.75	0	0	0	0	1
2.00	0	2	0	0	2
2.50	0	1	0	0	1
3.00	0	2	0	0	5
3.50	0	0	0	0	1
4.00	0	1	1	0	1
4.50	0	1	0	0	0
4.67	0	0	0	0	1
5.00	0	4	0	0	3
5.50	0	0	0	0	1
6.00	0	1	0	0	2
7.50	0	2	0	0	0
9.00	0	0	0	0	2
9.33	0	1	0	0	0
10.00	0	2	0	0	0
11.00	0	2	0	0	0
11.50	0	0	0	0	1
13.00	0	1	0	0	0
14.00	0	0	0	0	1
15.00	1	9	0	0	0

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

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

Response	Winter 2019-2020 (n = 125)
Very Satisfied	25%
Moderately Satisfied	28%
Slightly Satisfied	20%
Neutral/No Opinion	16%
Slightly Dissatisfied	7%
Moderately Dissatisfied	2%
Very Dissatisfied	2%