

Creel and Lake Information

Lake Information

Lake Name: Pickerel
Lake Code: UBS-Lake-358-000
Surface Area: 400.41 Hectares
County: Day
Start Date: 1/6/2019
End Date: 12/28/2019
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 2018 - 2019. Any Species (ANY), Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting						
			ANY	BLC	BLG	NOP	SMB	WAE	YEP
2018	December	11	18.2	9.1	9.1	0.0	0.0	9.1	54.5
	Overall	11	18.2	9.1	9.1	0.0	0.0	9.1	54.5
2019	January	23	17.4	0.0	4.3	17.4	8.7	4.3	47.8
	February	21	52.4	0.0	9.5	9.5	0.0	0.0	28.6
	March	6	33.3	0.0	50.0	0.0	0.0	16.7	0.0
	December	35	25.7	8.6	60.0	0.0	0.0	0.0	5.7
	Overall	85	30.6	3.5	31.8	7.1	2.4	2.4	22.4

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	23	6,918 (1,860)	1,367	5.06	3.00	21.74	100	61
	February	21	8,150 (5,806)	1,063	7.67	2.32 (0.41)	33.33	90	33
	March	6	3,173 (1,602)	962	3.30	1.52	66.67	100	83
	Overall	61	19,373 (6,310)	3,898	4.97 (0.01)	2.07 (0.10)	39.34	93	52

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

Species	Month
	Total
Black Crappie	0
Bluegill	0
Northern Pike	0
Smallmouth Bass	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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	BLG	NOP	SMB	WAE	YEP
		C/h	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)	0.00	0.22 (0.25)	1.67 (1.06)
	January	<0.01 (<0.01)	0.08 (0.14)	0.04 (0.05)	<0.01 (<0.01)	0.04 (0.03)	0.22 (0.23)
	February	0.02 (0.03)	0.02 (0.02)	<0.01 (<0.01)	0.05	0.10 (0.07)	2.71 (2.79)
	March	0.18	2.51	0.01	0.00	<0.01	0.10
	Overall	0.04 (0.02)	0.47 (0.18)	0.02 (0.01)	0.02 (<0.01)	0.07 (0.03)	1.33 (0.77)

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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	BLG	NOP	SMB	WAE	YEP
		H/h	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	0.00	0.92 (0.80)
	January	0.00	0.06 (0.10)	0.04 (0.05)	0.00	<0.01 (<0.01)	0.08 (0.07)
	February	<0.01 (<0.01)	0.01 (<0.01)	<0.01 (<0.01)	0.00	0.00	0.18 (0.18)
	March	0.15	1.06	0.01	0.00	0.00	0.01
	Overall	0.03 (<0.01)	0.20 (0.09)	0.02 (0.01)	0.00	<0.01 (<0.01)	0.16 (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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP) and Other Species (Other).

Year	Month	BLC	BLG	NOP	SMB	WAE	YEP
		C/h	C/h	C/h	C/h	C/h	C/h
2018- 2019	December	0.00	0.00	0.00	0.00	0.00	2.40 (2.23)
	January	0.00	0.39	0.64 (2.80)	0.10	0.00	0.44 (0.32)
	February	0.00	0.03	0.06	0.00	0.00	2.10 (2.46)
	March	0.00	8.00	0.00	0.00	0.00	0.00
	Overall	0.00	2.81	0.21 (0.74)	0.10	0.00	1.63 (1.09)

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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP) and Other Species (Other).

Year	Month	BLC	BLG	NOP	SMB	WAE	YEP
		H/h	H/h	H/h	H/h	H/h	H/h
2018- 2019	December	0.00	0.00	0.00	0.00	0.00	1.41 (2.59)
	January	0.00	0.36	0.64 (2.39)	0.00	0.00	0.16 (0.16)
	February	0.00	0.01	0.06	0.00	0.00	0.16 (0.17)
	March	0.00	3.28	0.00	0.00	0.00	0.00
	Overall	0.00	1.17	0.21 (0.63)	0.00	0.00	0.59 (0.90)

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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	BLG	NOP	SMB	WAE	YEP
		C	C	C	C	C	C
2018- 2019	December	51 (81)	400 (63)	17 (17)	0	245 (210)	1,889 (609)
	January	26 (46)	553 (549)	262 (150)	17 (30)	242 (290)	1,531 (808)
	February	198 (187)	134 (82)	13 (11)	395	829 (47)	22,052 (3,784)
	March	582	7,963	44	0	15	306
	Overall	857 (209)	9,050 (558)	336 (151)	413 (30)	1,331 (362)	25,779 (3,917)

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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	BLG	NOP	SMB	WAE	YEP
		H	H	H	H	H	H
2018- 2019	December	51 (81)	181	17 (17)	0	0	1,040 (548)
	January	0	387 (409)	262 (150)	0	29 (46)	522 (433)
	February	16 (16)	46 (37)	13 (11)	0	0	1,427 (388)
	March	470	3,357	24	0	0	29
	Overall	538 (82)	3,971 (411)	316 (151)	0	29 (46)	3,019 (800)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), 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
Summer	2010	12,220 (4,746)	10,174 (4,160)	0.44 (0.15)	0.37 (0.15)
Winter	2009-2010	10,949	9,172	0.96	0.80
Winter	2010-2011	6,752	6,676	1.17	1.15
Winter	2015-2016	45	45	0.01	0.01
Winter	2018-2019	857 (209)	538 (82)	0.04 (0.02)	0.03 (<0.01)

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	188 (106)	188 (106)	0.01 (<0.01)	0.01 (<0.01)
Winter	2009-2010	281	211	0.02	0.02
Winter	2010-2011	129	43	0.02	0.01
Winter	2018-2019	9,050 (558)	3,971 (411)	0.47 (0.18)	0.20 (0.09)

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	1,741 (441)	184 (80)	0.06 (0.02)	0.01 (<0.01)
Winter	2009-2010	20	0	<0.01	0.00
Winter	2015-2016	130	90	0.02	0.01
Winter	2018-2019	336 (151)	316 (151)	0.02 (0.01)	0.02 (0.01)

Smallmouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	2,009 (1,565)	143 (236)	0.07 (0.07)	0.01 (<0.01)
Winter	2010-2011	7	0	<0.01	0.00
Winter	2015-2016	761	90	0.11	0.01
Winter	2018-2019	413 (30)	0	0.02 (<0.01)	0.00

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	6,329 (3,448)	481 (747)	0.23 (0.11)	0.02 (0.03)
Winter	2009-2010	247	0	0.02	0.00
Winter	2010-2011	80	0	0.01	0.00
Winter	2015-2016	270	139	0.04	0.02
Winter	2018-2019	1,331 (362)	29 (46)	0.07 (0.03)	<0.01 (<0.01)

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2010	75 (65)	75 (65)	<0.01 (<0.01)	<0.01 (<0.01)
Winter	2009-2010	3,072	2,024	0.27	0.18
Winter	2010-2011	1,979	372	0.34	0.06
Winter	2015-2016	673	630	0.09	0.09
Winter	2018-2019	25,779 (3,917)	3,019 (800)	1.33 (0.77)	0.16 (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), Smallmouth Bass (SMB), Walleye (WAE), Yellow Perch (YEP).

Winter 2018-2019						
Length Group (mm)	BLC (N=7)	BLG (N=33)	NOP (N=10)	SMB (N=0)	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			

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

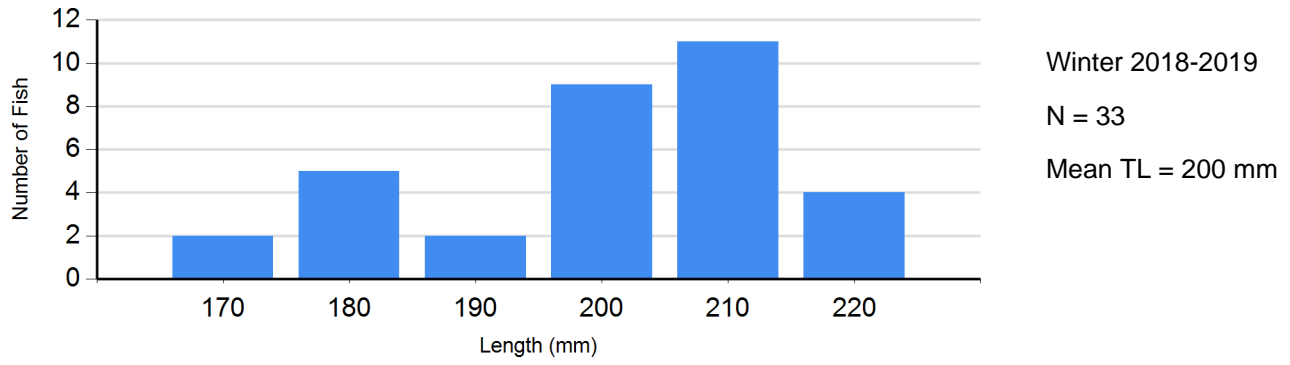


Figure 1b. Length frequency of angler-harvested Northern Pike measured by the creel clerk during creel surveys on Pickerel.

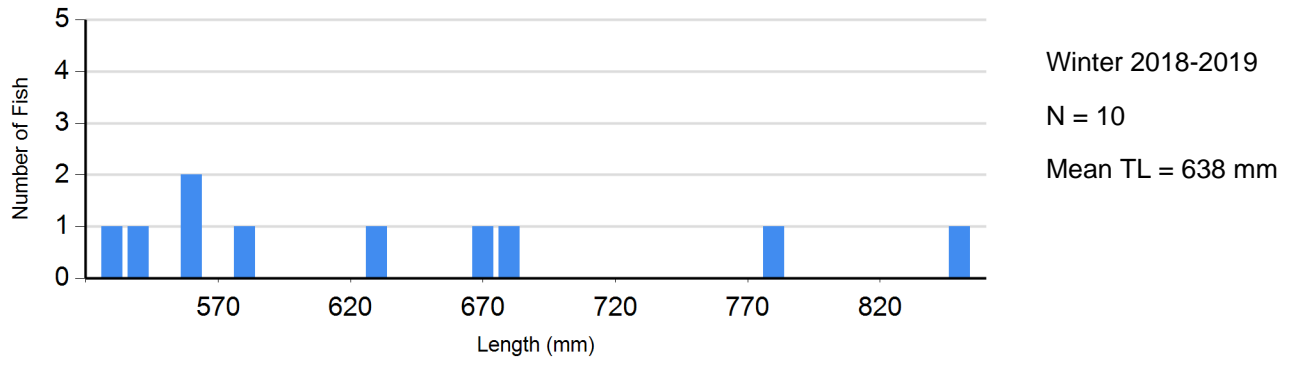


Figure 1c. Length frequency of angler-harvested Yellow Perch measured by the creel clerk during creel surveys on Pickerel.

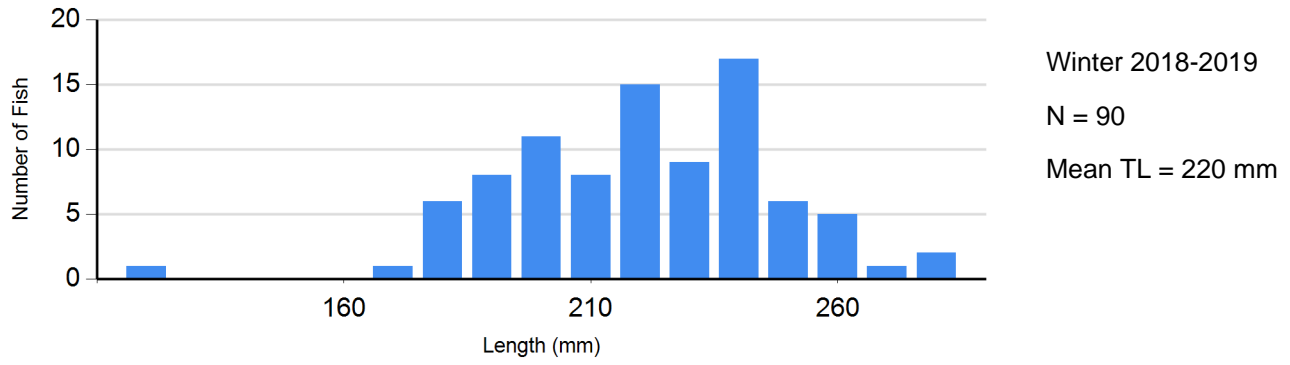


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Pickerel, South Dakota between December 2018 and December 2019.

Winter 2018-2019

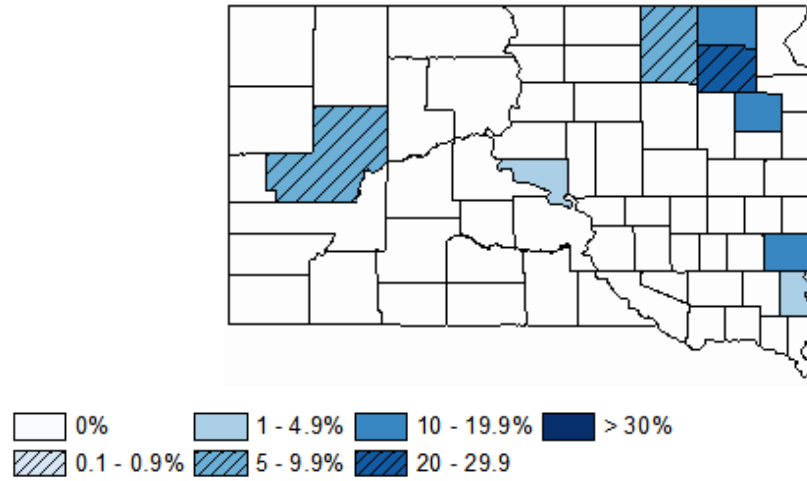


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts					
	BLC (n=61)	BLG (n=61)	NOP (n=61)	SMB (n=61)	WAE (n=61)	YEP (n=61)
0.00	56	51	53	61	60	37
0.20	0	1	0	0	0	1
0.33	1	0	0	0	0	1
0.50	0	1	2	0	1	5
0.60	1	1	0	0	0	0
0.67	0	1	0	0	0	1
0.80	0	0	1	0	0	0
1.00	1	0	2	0	0	3
1.20	0	0	0	0	0	1
1.50	1	1	1	0	0	1
2.00	1	0	0	0	0	0
2.20	0	1	0	0	0	0
2.25	0	0	0	0	0	1
3.00	0	0	0	0	0	2
3.67	0	0	0	0	0	1
3.75	0	1	0	0	0	0
4.00	0	1	0	0	0	2
4.33	0	0	1	0	0	0
5.00	0	0	0	0	0	2
5.67	0	0	0	0	0	1
6.00	0	0	1	0	0	1
11.00	0	1	0	0	0	0
15.00	0	1	0	0	0	1

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 2018-2019 (n = 53)
Very Satisfied	32%
Moderately Satisfied	26%
Slightly Satisfied	8%
Neutral/No Opinion	19%
Slightly Dissatisfied	9%
Very Dissatisfied	6%