

Creel and Lake Information

Lake Information

Lake Name: Pickerel
Lake Code: UBS-Lake-358-000
Surface Area: 400.41 Hectares
County: Day
Start Date: 1/2/2022
End Date: 3/20/2022
Months Included: January, February, March, May, June, July, December

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Pickerel during 2021 - 2022. 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
2021	January	49	26.5	2.0	44.9	0.0	2.0	24.5
	February	36	30.6	5.6	5.6	8.3	16.7	33.3
	March	6	16.7	16.7	16.7	33.3	0.0	16.7
	May	14	35.7	0.0	0.0	0.0	42.9	0.0
	June	7	28.6	0.0	0.0	0.0	42.9	0.0
	July	7	85.7	0.0	0.0	0.0	14.3	0.0
	December	16	25.0	12.5	62.5	0.0	0.0	0.0
	Overall	135	31.1	4.4	25.9	3.7	12.6	18.5
2022	January	31	25.8	12.9	22.6	19.4	3.2	16.1
	February	31	41.9	9.7	12.9	12.9	12.9	9.7
	March	11	27.3	36.4	27.3	0.0	0.0	9.1
	Overall	73	32.9	15.1	19.2	13.7	6.8	12.3

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 Pickerel (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2020-2021	December	13	2,557 (750)	870	2.94 (0.67)	2.12 (0.56)	46.15	77	8
	January	49	6,128 (1,115)	1,661	3.69 (0.81)	1.86 (0.41)	51.02	78	59
	February	36	5,584 (1,315)	1,713	3.26	2.14 (0.33)	38.89	83	28
	March	6	597 (392)	297	2.01	1.19	50.00	33	67
	Overall	104	14,866 (1,921)	5,005	2.97 (0.26)	1.82 (0.19)	46.15	77	42
2021	May	14	4,419 (1,222)	847	5.22 (1.18)	1.86 (0.25)	35.71	64	71
	June	7	6,290 (1,763)	1,395	4.51	2.31	85.71	71	57
	July	7	5,568 (2,905)	1,501	3.71 (0.93)	1.57 (0.18)	100.00	71	100
	Overall	28	16,277 (3,611)	3,449	4.72 (0.54)	2.02 (0.11)	64.29	68	75
2021-2022	December	16	1,828 (812)	333	5.49	1.87 (0.59)	25.00	81	50
	January	31	2,795 (750)	350	7.98 (3.71)	1.64 (0.24)	67.74	84	61
	February	31	1,833 (567)	296	6.20 (2.31)	1.57 (0.24)	54.84	94	90
	March	11	2,274 (893)	675	3.37	2.13 (0.34)	36.36	36	73
	Overall	89	8,729 (1,530)	1,383	6.31 (1.35)	1.81 (0.19)	51.69	81	71

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2022 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 2022 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
2020- 2021	December	0.07 (0.17)	1.79 (3.71)	0.00	0.07 (0.07)	2.03
	January	0.09 (0.19)	0.90 (0.29)	0.01 (<0.01)	0.04 (0.03)	2.72 (1.06)
	February	0.04 (0.04)	0.09 (0.05)	0.05 (0.05)	0.05 (0.06)	2.50 (1.71)
	March	0.04	0.04	0.07	0.00	1.28
	Overall	0.07 (0.07)	0.71 (0.44)	0.03 (0.02)	0.05 (0.03)	2.46 (0.91)
2021	May	0.00	0.00	0.41 (0.32)	1.33 (0.82)	0.00
	June	0.00	0.07	0.15 (0.22)	0.63 (0.27)	0.00
	July	0.00	0.00	0.02 (0.03)	0.01 (0.01)	0.00
	Overall	0.00	0.03	0.17 (0.12)	0.61 (0.23)	0.00
2021- 2022	December	0.43 (0.33)	0.84 (0.88)	0.04 (0.03)	0.00	0.15 (0.21)
	January	0.19 (0.37)	0.18 (0.23)	0.05 (0.10)	<0.01 (<0.01)	0.25 (0.29)
	February	0.01 (0.01)	0.02 (0.03)	0.01 (<0.01)	0.03 (0.02)	0.23 (0.19)
	March	1.31 (1.00)	1.00 (0.58)	0.03 (0.03)	0.01 (0.01)	0.37 (0.21)
	Overall	0.49 (0.25)	0.50 (0.24)	0.03 (0.03)	0.01 (<0.01)	0.26 (0.12)

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
2020- 2021	December	0.05 (0.14)	0.88 (0.42)	0.00	0.07 (0.07)	0.18 (0.12)
	January	0.06 (0.09)	0.41	<0.01 (<0.01)	0.01 (<0.01)	0.24 (0.11)
	February	0.03 (0.03)	0.07 (0.03)	0.02 (<0.01)	0.03 (0.03)	0.26 (0.02)
	March	0.04	0.04	0.07	0.00	0.04 (0.03)
	Overall	0.05 (0.04)	0.35	0.01 (<0.01)	0.03 (0.01)	0.23 (0.05)
2021	May	0.00	0.00	0.00	0.75 (0.33)	0.00
	June	0.00	0.07	0.14 (0.21)	0.38 (0.24)	0.00
	July	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.03	0.05 (0.08)	0.35 (0.13)	0.00
2021- 2022	December	0.22 (0.25)	0.76 (0.87)	0.01	0.00	0.03 (0.03)
	January	0.17 (0.33)	0.13 (0.17)	0.05 (0.09)	<0.01 (<0.01)	0.12 (0.05)
	February	0.01 (0.01)	0.01 (0.02)	0.00	0.03 (0.02)	0.11 (0.10)
	March	0.72 (0.43)	0.45 (0.28)	0.00	0.01 (0.01)	0.15 (0.09)
	Overall	0.29 (0.14)	0.32 (0.18)	0.02 (0.02)	0.01 (<0.01)	0.11 (0.03)

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
2020- 2021	December	0.00	2.95 (6.54)	0.00	0.14	0.00
	January	0.00	1.45 (1.16)	0.00	0.33	1.56 (3.19)
	February	0.00	0.77	0.25	0.11 (0.37)	1.10 (0.43)
	March	0.21	0.00	0.30	0.00	0.33
	Overall	0.04	1.65 (1.95)	0.26	0.18 (0.15)	0.87 (0.81)
2021	May	0.00	0.00	0.00	0.67 (0.63)	0.00
	June	0.00	0.00	0.00	0.41 (0.24)	0.00
	July	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.47 (0.30)	0.00
2021- 2022	December	0.19	1.00 (3.29)	0.00	0.00	0.00
	January	2.18	0.63 (0.96)	0.18 (0.08)	0.00	0.83 (3.02)
	February	0.04	0.54 (1.24)	0.00	0.07 (0.09)	0.05 (0.31)
	March	1.59 (2.74)	0.79	0.00	0.00	0.00
	Overall	1.03 (0.70)	0.78 (1.05)	0.14 (0.06)	0.02 (0.03)	0.42 (1.49)

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
2020- 2021	December	0.00	1.13 (2.67)	0.00	0.14	0.00
	January	0.00	0.68 (0.52)	0.00	0.33	0.29 (0.70)
	February	0.00	0.69	0.17	0.11 (0.53)	0.19 (0.13)
	March	0.21	0.00	0.30	0.00	0.00
	Overall	0.04	0.76 (0.80)	0.20	0.18 (0.21)	0.14 (0.18)
2021	May	0.00	0.00	0.00	0.33 (0.21)	0.00
	June	0.00	0.00	0.00	0.26 (0.29)	0.00
	July	0.00	0.00	0.00	0.00	0.00
	Overall	0.00	0.00	0.00	0.26 (0.15)	0.00
2021- 2022	December	0.19	0.85 (0.78)	0.00	0.00	0.00
	January	1.97	0.42 (0.80)	0.18 (0.12)	0.00	0.44 (1.07)
	February	0.04	0.46 (1.00)	0.00	0.07 (0.10)	0.00
	March	0.96 (0.41)	0.48	0.00	0.00	0.00
	Overall	0.81 (0.10)	0.57 (0.35)	0.14 (0.09)	0.02 (0.03)	0.21 (0.52)

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
2020- 2021	December	179 (142)	4,570 (2,321)	0	191 (26)	5,193
	January	580 (449)	5,514 (435)	78 (51)	215 (142)	16,699 (4,724)
	February	206 (162)	507 (242)	266 (151)	301 (328)	13,963 (8,726)
	March	27	27	44	0	765
	Overall	992 (498)	10,618 (2,374)	387 (160)	706 (359)	36,620 (7,455)
2021	May	0	0	1,797 (1,321)	5,871 (2,204)	0
	June	0	438	917 (1,330)	3,933 (1,330)	0
	July	0	0	95 (133)	47 (66)	0
	Overall	0	438	2,808 (1,879)	9,851 (2,575)	0
2021- 2022	December	779 (294)	1,540 (963)	73 (36)	0	271 (361)
	January	518 (975)	500 (383)	145 (84)	11 (6)	708 (466)
	February	27 (33)	30 (42)	15 (7)	55 (38)	417 (311)
	March	2,968 (1,492)	2,273 (1,219)	58 (56)	15 (22)	847 (248)
	Overall	4,291 (1,807)	4,343 (1,600)	291 (107)	81 (45)	2,243 (711)

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
2020- 2021	December	130 (116)	2,249 (854)	0	191 (26)	464 (378)
	January	359 (231)	2,526	30 (32)	55 (50)	1,442 (539)
	February	181 (134)	365 (193)	127 (67)	181 (172)	1,456 (495)
	March	27	27	44	0	27
	Overall	696 (292)	5,167	201 (74)	427 (181)	3,389 (824)
2021	May	0	0	0	3,333 (1,116)	0
	June	0	438	866 (1,330)	2,399 (1,330)	0
	July	0	0	0	0	0
	Overall	0	438	866 (1,330)	5,732 (1,736)	0
2021- 2022	December	404 (283)	1,390 (958)	23 (17)	0	49 (45)
	January	470 (878)	375 (299)	130 (83)	6 (5)	344 (280)
	February	23 (27)	25 (35)	0	55 (38)	196 (163)
	March	1,636 (426)	1,021 (674)	0	15 (22)	347 (91)
	Overall	2,532 (1,017)	2,811 (1,209)	154 (85)	76 (44)	937 (340)

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	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)
Winter	2020-2021	992 (498)	696 (292)	0.07 (0.07)	0.05 (0.04)
Winter	2021-2022	4,291 (1,807)	2,532 (1,017)	0.49 (0.25)	0.29 (0.14)

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2021	438	438	0.03	0.03
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)
Winter	2020-2021	10,618 (2,374)	5,167	0.71 (0.44)	0.35
Winter	2021-2022	4,343 (1,600)	2,811 (1,209)	0.50 (0.24)	0.32 (0.18)

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2021	2,808 (1,879)	866 (1,330)	0.17 (0.12)	0.05 (0.08)
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)
Winter	2020-2021	387 (160)	201 (74)	0.03 (0.02)	0.01 (<0.01)
Winter	2021-2022	291 (107)	154 (85)	0.03 (0.03)	0.02 (0.02)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2021	9,851 (2,575)	5,732 (1,736)	0.61 (0.23)	0.35 (0.13)
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)
Winter	2020-2021	706 (359)	427 (181)	0.05 (0.03)	0.03 (0.01)
Winter	2021-2022	81 (45)	76 (44)	0.01 (<0.01)	0.01 (<0.01)

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
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)
Winter	2020-2021	36,620 (7,455)	3,389 (824)	2.46 (0.91)	0.23 (0.05)
Winter	2021-2022	2,243 (711)	937 (340)	0.26 (0.12)	0.11 (0.03)

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 2020-2021					
Length Group (mm)	BLC (N=19)	BLG (N=118)	NOP (N=5)	WAE (N=7)	YEP (N=74)
150					1
160					3
170		5			1
180		3			
190		32			9
200		24			8
210	3	19			15
220		29			12
230	4	5			11
240	2	1			10
250	2				1
260	5				2
270	1				1
280	2				
320				1	
330					
340				1	
350				1	
360				1	
370				1	
380				1	
390					
400					
410					
420			1		
430				1	
440					
450					
460					
470					
480					
490					
500					
510					
520					
530					
540			1		
550					
560					
570					
580			1		
590					
600					
610					
620					
630			1		
640					
650					
660					
670					
680					
690					
700					
710					
720					
730			1		

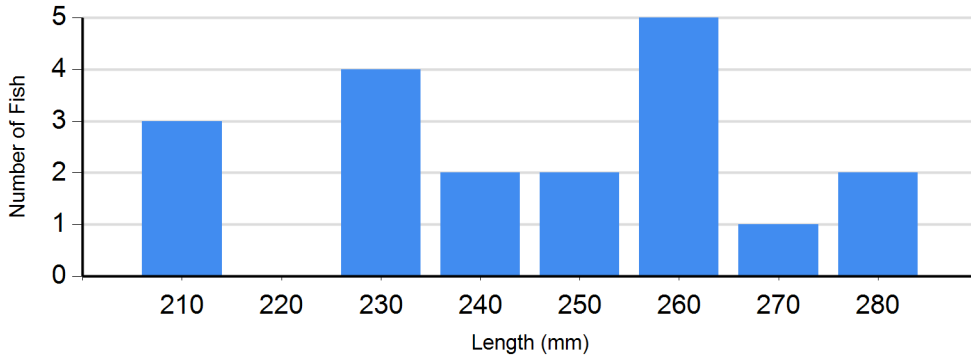
Summer 2021

Length Group (mm)	BLC (N=1)	BLG (N=0)	NOP (N=4)	WAE (N=28)	YEP (N=1)
140					1
300	1				
330				1	
340					
350					
360					
370					
380					
390				2	
400				2	
410				6	
420				3	
430				5	
440				3	
450				4	
460					
470				1	
480				1	
500			1		
510			2		
520					
530					
540					
550					
560					
570					
580					
590					
600					
610			1		

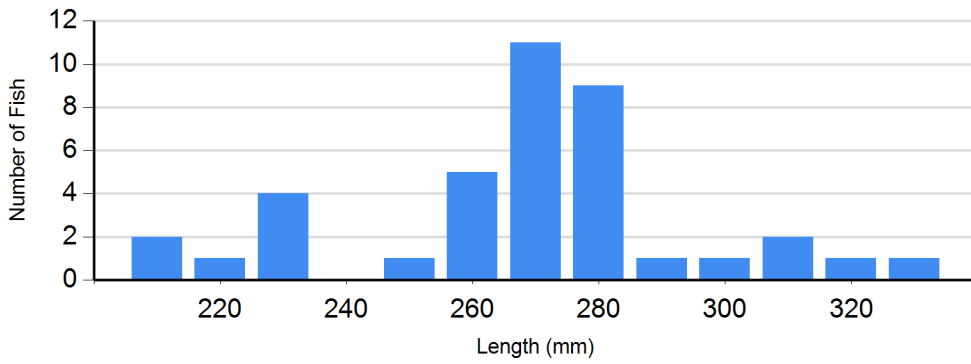
Winter 2021-2022

Length Group (mm)	BLC (N=39)	BLG (N=112)	NOP (N=4)	WAE (N=1)	YEP (N=16)
190		1			2
200		14			3
210	2	34			
220	1	30			3
230	4	21			3
240		10			2
250	1	2			1
260	5				1
270	11				
280	9				1
290	1				
300	1				
310	2				
320	1				
330	1				
360				1	
530			1		
540					
550					
560					
570					
580			1		
590					
600					
610					
620			1		
630					
640					
650					
660					
670					
680					
690					
700					
710					
720			1		

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



Winter 2020-2021
N = 19
Mean TL = 245 mm



Winter 2021-2022
N = 39
Mean TL = 268 mm

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

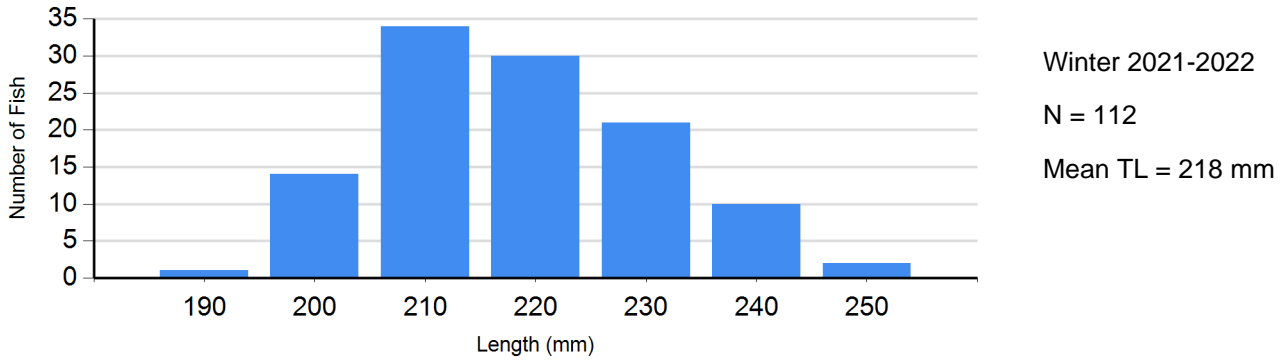
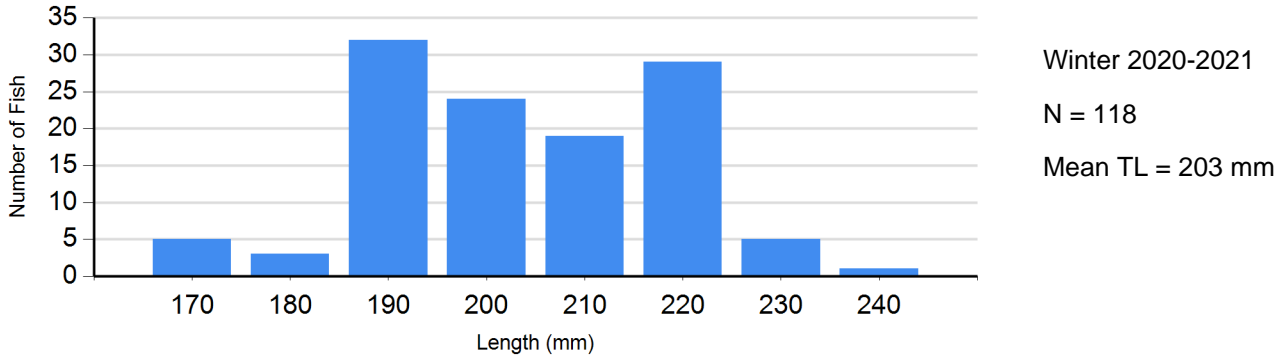


Figure 1c. Length frequency of angler-harvested Walleye measured by the creel clerk during creel surveys on Pickerel.

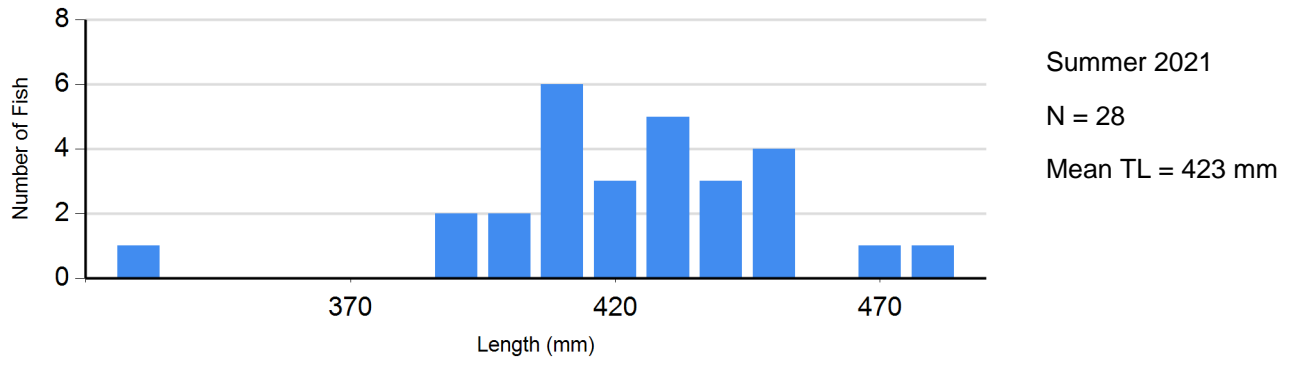


Figure 1d. Length frequency of angler-harvested Yellow Perch measured by the creel clerk during creel surveys on Pickerel.

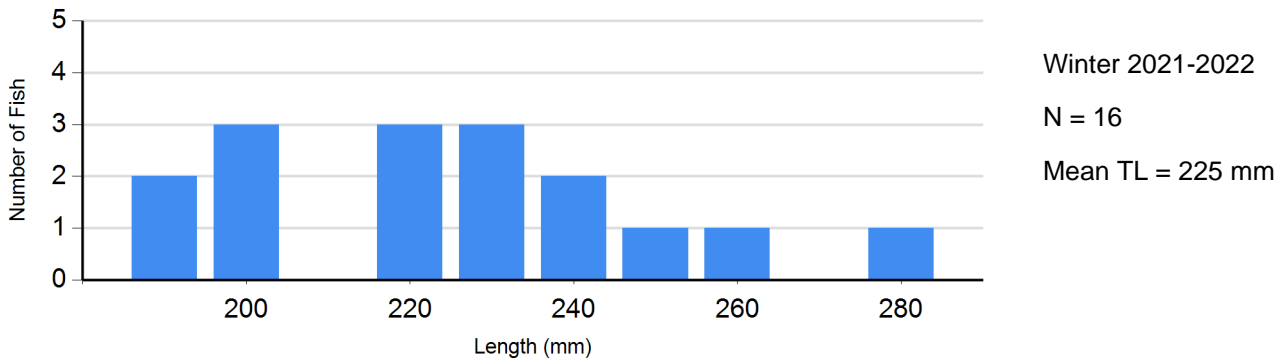
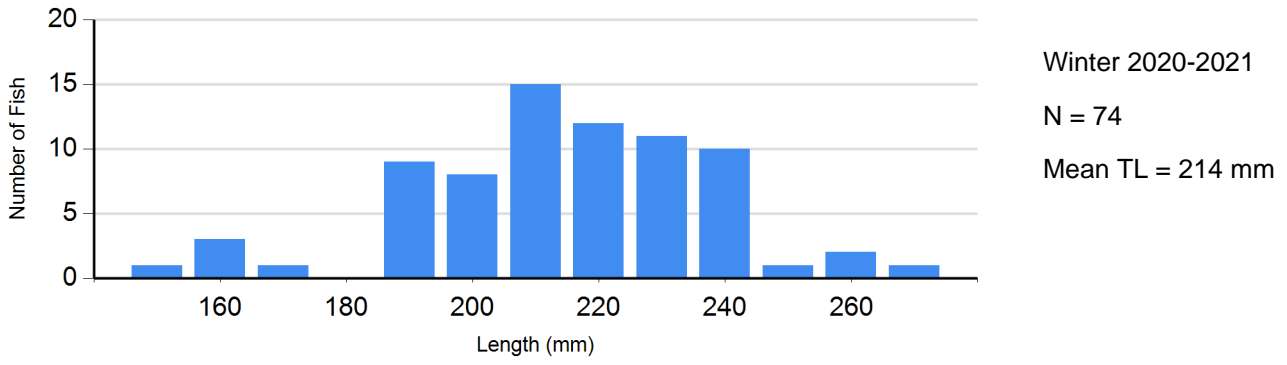


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Pickerel, South Dakota between January 2021 and March 2022.

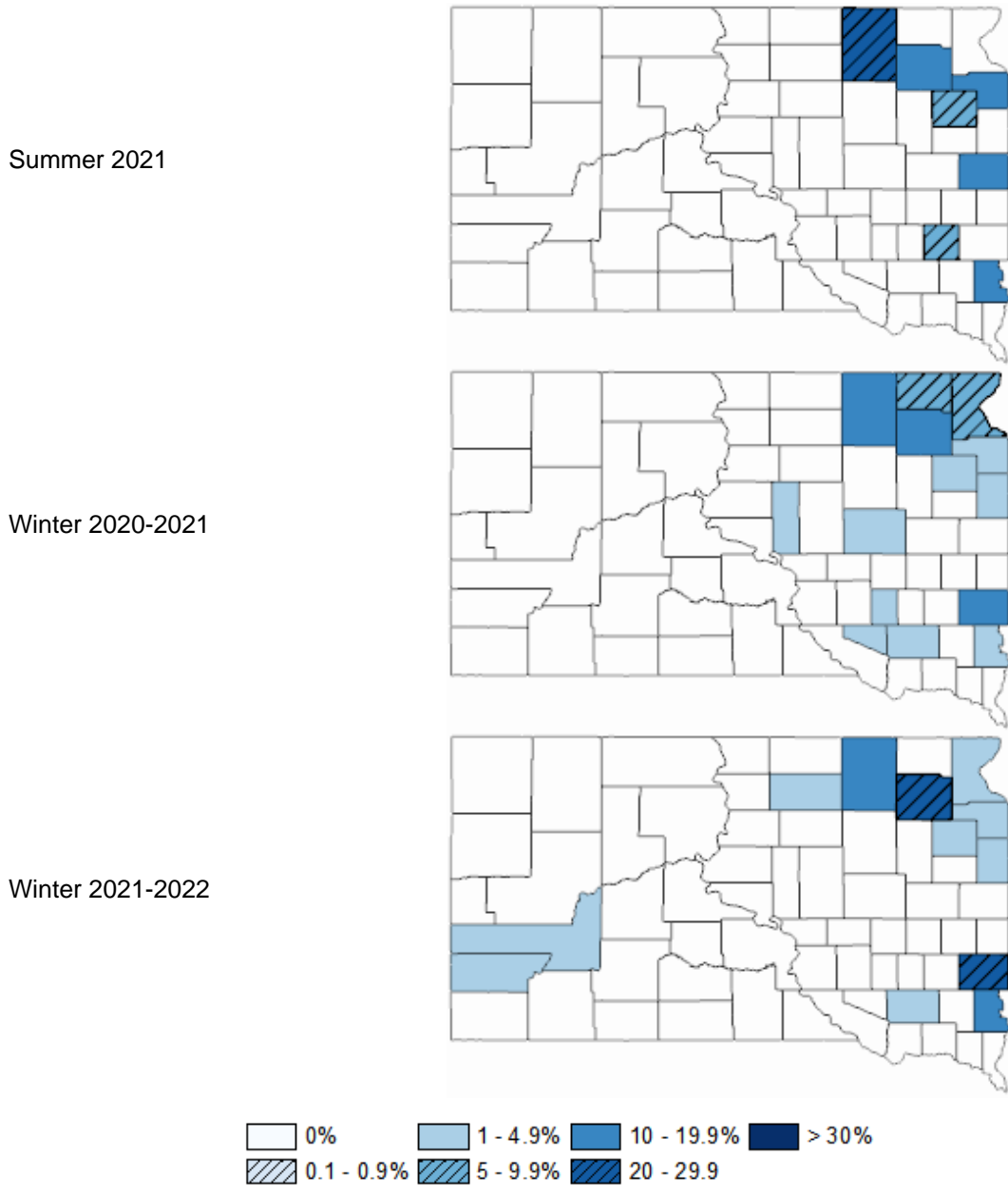


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts				
	BLC (n=25)	BLG (n=26)	NOP (n=30)	WAE (n=36)	YEP (n=25)
0.00	25	24	28	20	25
0.75	0	0	2	2	0
1.00	0	2	0	0	0
2.00	0	0	0	4	0
3.50	0	0	0	2	0
4.00	0	0	0	8	0

Winter 2020-2021

Counts

Angler Harvest	BLC (n=104)	BLG (n=104)	NOP (n=104)	WAE (n=104)	YEP (n=104)
0.00	90	72	97	95	63
0.20	0	0	0	0	1
0.25	0	1	0	0	1
0.33	0	0	0	1	1
0.50	4	3	1	3	7
0.60	0	1	0	0	0
0.67	1	0	0	0	0
0.75	0	0	0	0	1
0.80	0	0	0	0	1
1.00	2	4	3	3	10
1.33	0	0	0	0	1
1.50	0	1	1	0	2
2.00	3	3	2	1	4
2.50	0	2	0	0	2
3.00	0	1	0	1	2
3.67	0	2	0	0	0
4.00	3	4	0	0	2
4.33	0	0	0	0	1
4.50	0	2	0	0	0
5.00	1	2	0	0	1
6.00	0	0	0	0	1
7.00	0	2	0	0	1
9.00	0	0	0	0	1
11.00	0	1	0	0	1
12.33	0	1	0	0	0
14.00	0	1	0	0	0
15.00	0	1	0	0	0

Winter 2021-
2022

Counts

Angler Harvest	BLC (n=89)	BLG (n=89)	NOP (n=89)	WAE (n=89)	YEP (n=89)
0.00	65	63	80	85	68
0.33	0	3	0	1	4
0.50	6	1	2	1	7
0.67	1	0	0	0	0
0.80	0	0	0	0	1
1.00	4	3	6	0	4
1.33	1	0	0	0	0
1.50	2	2	0	0	0
2.00	3	0	1	0	0
2.50	2	2	0	0	0
3.00	0	3	0	0	1
3.50	1	1	0	0	0
4.00	1	2	0	2	1
5.00	0	1	0	0	1
6.00	1	4	0	0	0
8.00	0	0	0	0	1
9.00	1	0	0	0	1
10.00	0	2	0	0	0
10.50	1	0	0	0	0
11.00	0	1	0	0	0
13.00	0	1	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

Season	Response	Response Rate
Summer 2021 (n=9)	Very Satisfied	78%
	Neutral/No Opinion	11%
	Slightly Dissatisfied	11%
Winter 2021-2022 (n=81)	Very Satisfied	35%
	Moderately Satisfied	25%
	Slightly Satisfied	20%
	Neutral/No Opinion	16%
	Slightly Dissatisfied	2%
	Very Dissatisfied	2%