

Creel and Lake Information

Lake Information

Lake Name: Sheridan
Lake Code: MCS-Lake-11-000
Surface Area: 149.88 Hectares
County: Pennington
Start Date: 5/12/2019
End Date: 7/29/2019
Months Included: May, June, July

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Sheridan during 2018 - 2019. Any Species (ANY), Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Walleye (WAE), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting							
			ANY	BLC	LMB	NOP	RBT	ROB	WAE	YEP
2018	May	37	35.1	5.4	8.1	8.1	29.7	0.0	0.0	5.4
	June	26	65.4	3.8	7.7	7.7	7.7	0.0	0.0	3.8
	July	30	66.7	0.0	3.3	3.3	23.3	0.0	0.0	0.0
	Overall	93	53.8	3.2	6.5	6.5	21.5	0.0	0.0	3.2
2019	May	32	62.5	0.0	3.1	6.3	28.1	0.0	0.0	0.0
	June	26	61.5	7.7	0.0	0.0	23.1	3.8	3.8	0.0
	July	31	48.4	3.2	6.5	6.5	29.0	0.0	0.0	6.5
	Overall	89	57.3	3.4	3.4	4.5	27.0	1.1	1.1	2.2

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 Sheridan (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2018	May	37	4,520 (1,130)	1,845	2.45 (0.58)	1.68 (0.34)	86.49	30	65
	June	26	4,919 (847)	2,423	2.03 (0.91)	2.08 (0.44)	92.31	23	35
	July	30	8,113 (2,049)	2,038	3.98 (0.64)	2.35 (0.55)	83.33	27	33
	Overall	93	17,552 (2,489)	6,202	2.83 (0.42)	2.03 (0.26)	87.10	27	46
2019	May	32	5,927 (87)	2,634	2.25 (0.26)	2.77 (0.10)	93.75	25	84
	June	26	9,419 (2,124)	4,781	1.97 (0.49)	2.50 (0.50)	84.62	15	38
	July	31	11,128 (2,709)	5,919	1.88 (0.24)	2.57 (0.75)	80.65	23	58
	Overall	89	26,473 (3,444)	12,977	2.04 (0.20)	2.62 (0.30)	86.52	21	62

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

Lake	Month			Total
	May	June	July	
Sheridan (Pennington)	5,927 (87)	9,419 (2,124)	11,128 (2,709)	26,473 (3,444)

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

Species	Month			Total
	May	June	July	
Black Crappie	0	936 (1,679)	246 (326)	1,182 (1,710)
Largemouth Bass	0	0	0	0
Northern Pike	0	415 (135)	0	415 (135)
Rainbow Trout	159 (206)	1,311 (635)	93 (54)	1,563 (670)
Rock Bass	0	0	0	0
Walleye	0	0	0	0
Yellow Perch	14 (20)	185 (248)	550 (434)	749 (501)
Total	172 (227)	2,847 (2,696)	889 (814)	3,908 (3,015)

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

Year	Month	BLC	LMB	NOP	RBT	ROB	WAE	YEP
		C/h	C/h	C/h	C/h	C/h	C/h	C/h
2018	May	0.26 (0.22)	0.18 (0.04)	0.02 (0.03)	0.24 (0.20)	0.07 (0.06)	0.00	0.05 (0.05)
	June	0.08 (0.08)	0.95 (0.55)	0.05 (0.04)	0.11 (0.11)	0.00	0.01 (<0.01)	0.06
	July	0.04 (0.04)	0.11 (0.12)	<0.01 (<0.01)	0.16 (0.12)	0.00	0.00	0.17 (0.05)
	Overall	0.11 (0.06)	0.36 (0.15)	0.02 (0.01)	0.17 (0.08)	0.02 (0.01)	<0.01 (<0.01)	0.11 (0.03)
2019	May	0.00	<0.01 (<0.01)	0.00	0.17 (0.03)	<0.01 (<0.01)	0.00	0.01 (<0.01)
	June	0.61 (1.08)	0.12 (0.17)	0.04 (0.02)	0.20 (0.09)	0.03 (0.03)	0.00	0.09 (0.07)
	July	0.20 (0.13)	0.02 (0.02)	0.01 (<0.01)	0.03 (0.02)	0.16 (0.16)	0.00	0.35 (0.13)
	Overall	0.30 (0.39)	0.05 (0.05)	0.02 (<0.01)	0.12 (0.03)	0.08 (0.07)	0.00	0.18 (0.05)

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

Year	Month	BLC	LMB	NOP	RBT	ROB	WAE	YEP
		H/h	H/h	H/h	H/h	H/h	H/h	H/h
2018	May	0.17 (0.18)	0.01 (0.01)	0.00	0.13 (0.14)	0.03 (0.03)	0.00	0.03 (0.04)
	June	0.00	0.00	0.00	0.09 (0.11)	0.00	0.00	0.01 (0.02)
	July	<0.01 (<0.01)	0.00	0.00	0.10 (0.09)	0.00	0.00	0.03 (0.03)
	Overall	0.05 (0.05)	<0.01 (<0.01)	0.00	0.10 (0.06)	0.01 (<0.01)	0.00	0.03 (0.02)
2019	May	0.00	0.00	0.00	0.03 (0.04)	0.00	0.00	<0.01 (<0.01)
	June	0.10 (0.18)	0.00	0.04 (0.02)	0.14 (0.07)	0.00	0.00	0.02 (0.03)
	July	0.02 (0.03)	0.00	0.00	0.01 (<0.01)	0.00	0.00	0.05 (0.05)
	Overall	0.04 (0.07)	0.00	0.02 (<0.01)	0.06 (0.03)	0.00	0.00	0.03 (0.02)

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

Year	Month	BLC	LMB	NOP	RBT	ROB	WAE	YEP
		C/h	C/h	C/h	C/h	C/h	C/h	C/h
2018	May	3.09	0.17	0.00	0.74 (0.92)	0.00	0.00	0.00
	June	0.00	7.32 (8.85)	0.00	0.40	0.00	0.00	0.00
	July	0.00	3.57	0.51	0.56 (0.46)	0.00	0.00	0.00
	Overall	1.84	2.40 (1.31)	0.15	0.58 (0.36)	0.00	0.00	0.00
2019	May	0.00	0.00	0.00	1.00 (0.03)	0.00	0.00	0.00
	June	4.11	0.00	0.00	0.46 (0.68)	0.00	0.00	0.00
	July	0.49	0.08	0.00	0.00	0.00	0.00	0.67
	Overall	3.27	0.07	0.00	0.49 (0.22)	0.00	0.00	0.67

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

Year	Month	BLC	LMB	NOP	RBT	ROB	WAE	YEP
		H/h	H/h	H/h	H/h	H/h	H/h	H/h
2018	May	2.15	0.06	0.00	0.39 (0.47)	0.00	0.00	0.00
	June	0.00	0.00	0.00	0.40	0.00	0.00	0.00
	July	0.00	0.00	0.00	0.45 (0.32)	0.00	0.00	0.00
	Overall	1.28	0.03	0.00	0.42 (0.21)	0.00	0.00	0.00
2019	May	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	June	0.46	0.00	0.00	0.40 (0.81)	0.00	0.00	0.00
	July	0.00	0.00	0.00	0.00	0.00	0.00	0.06
	Overall	0.36	0.00	0.00	0.13 (0.26)	0.00	0.00	0.06

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Sheridan (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	LMB	NOP	RBT	ROB	WAE	YEP
		C	C	C	C	C	C	C
2018	May	1,177 (950)	796 (636)	76 (114)	1,092 (580)	308 (249)	0	231 (200)
	June	382 (400)	4,671 (2,265)	245 (204)	550 (510)	0	38 (36)	272 (187)
	July	358 (329)	903 (912)	21 (32)	1,272 (546)	0	0	1,350 (672)
	Overall	1,917 (1,082)	6,370 (2,523)	341 (236)	2,914 (946)	308 (249)	38 (36)	1,854 (725)
2019	May	0	14 (16)	0	1,012 (169)	14 (16)	0	86 (44)
	June	5,766 (10,072)	1,121 (1,242)	415 (135)	1,857 (740)	309 (297)	0	892 (341)
	July	2,207 (742)	263 (140)	82 (101)	288 (215)	1,751 (1,981)	0	3,880 (484)
	Overall	7,973 (10,100)	1,398 (1,250)	497 (169)	3,157 (789)	2,074 (2,003)	0	4,858 (594)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Sheridan (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Walleye (WAE), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	LMB	NOP	RBT	ROB	WAE	YEP
		H	H	H	H	H	H	H
2018	May	772 (803)	27 (46)	0	586 (342)	151 (151)	0	157 (171)
	June	0	0	0	420 (512)	0	0	35 (69)
	July	33 (49)	0	0	806 (440)	0	0	279 (181)
	Overall	805 (805)	27 (46)	0	1,811 (757)	151 (151)	0	471 (258)
2019	May	0	0	0	159 (206)	0	0	14 (20)
	June	936 (1,679)	0	415 (135)	1,311 (635)	0	0	185 (248)
	July	246 (326)	0	0	93 (54)	0	0	550 (434)
	Overall	1,182 (1,710)	0	415 (135)	1,563 (670)	0	0	749 (501)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Walleye (WAE), Yellow Perch (YEP) caught and harvested by anglers during the summer and winter fisheries on Sheridan, (80% confidence interval).

Black Crappie

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2014	0	0	0.00	0.00
Summer	2018	1,917 (1,082)	805 (805)	0.11 (0.06)	0.05 (0.05)
Summer	2019	7,973 (10,100)	1,182 (1,710)	0.30 (0.39)	0.04 (0.07)
Winter	2010-2011	1,177 (426)	992 (326)	0.08 (0.03)	0.07 (0.02)
Winter	2013-2014	0	0	0.00	0.00

Largemouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2014	0	0	0.00	0.00
Summer	2018	6,370 (2,523)	27 (46)	0.36 (0.15)	<0.01 (<0.01)
Summer	2019	1,398 (1,250)	0	0.05 (0.05)	0.00
Winter	2010-2011	23 (17)	0	<0.01 (<0.01)	0.00
Winter	2013-2014	0	0	0.00	0.00

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2014	0	0	0.00	0.00
Summer	2018	341 (236)	0	0.02 (0.01)	0.00
Summer	2019	497 (169)	415 (135)	0.02 (<0.01)	0.02 (<0.01)
Winter	2010-2011	272 (124)	153 (76)	0.02 (0.01)	0.01 (0.01)
Winter	2013-2014	0	0	0.00	0.00

Rainbow Trout

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2014	0	0	0.00	0.00
Summer	2018	2,914 (946)	1,811 (757)	0.17 (0.08)	0.10 (0.06)
Summer	2019	3,157 (789)	1,563 (670)	0.12 (0.03)	0.06 (0.03)
Winter	2010-2011	446 (87)	285 (63)	0.03 (<0.01)	0.02 (<0.01)
Winter	2013-2014	0	0	0.00	0.00

Rock Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2014	0	0	0.00	0.00
Summer	2018	308 (249)	151 (151)	0.02 (0.01)	0.01 (<0.01)
Summer	2019	2,074 (2,003)	0	0.08 (0.07)	0.00
Winter	2010-2011	199 (126)	107 (67)	0.01 (<0.01)	0.01 (<0.01)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2018	38 (36)	0	<0.01 (<0.01)	0.00

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2014	0	0	0.00	0.00
Summer	2018	1,854 (725)	471 (258)	0.11 (0.03)	0.03 (0.02)
Summer	2019	4,858 (594)	749 (501)	0.18 (0.05)	0.03 (0.02)
Winter	2010-2011	16,076 (3,122)	7,766 (1,112)	1.13 (0.34)	0.55 (0.15)
Winter	2013-2014	0	0	0.00	0.00

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Sheridan. Abbreviations for species are as follows: Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Rock Bass (ROB), Walleye (WAE), Yellow Perch (YEP).

Summer 2018							
Length Group (mm)	BLC (N=0)	LMB (N=0)	NOP (N=0)	RBT (N=50)	ROB (N=0)	WAE (N=0)	YEP (N=0)
190				1			
200							
210							
220							
230							
240							
250							
260							
270							
280				1			
290				3			
300				4			
310				2			
320				3			
330				5			
340				2			
350				3			
360				3			
370				6			
380				8			
390				3			
400							
410							
420				2			
430							
440				2			
450				2			

Summer 2019							
Length Group (mm)	BLC (N=16)	LMB (N=0)	NOP (N=4)	RBT (N=34)	ROB (N=0)	WAE (N=0)	YEP (N=11)
50			1				
60							
70							
80							
90							
100							
110							
120							
130							
140							
150							
160							
170							
180							2
190							
200	7			3			5
210	4						
220	1						
230	3						
240							
250	1			1			1
260							1
270							2
280							
290				1			
300				1			
310				4			
320							
330			1	3			
340				1			
350				5			
360				1			
370				3			
380				2			
390				2			
400				2			

410		2
420		
430		
440	1	2
450		
460		1
470		
480		
490		
500		
510		
520		
530		
540		
550		
560		
570		
580		
590		
600		
610		
620		
630		
640		
650		
660		
670		
680		
690		
700		
710		
720		
730		
740		
750		
760		
770		
780	1	

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

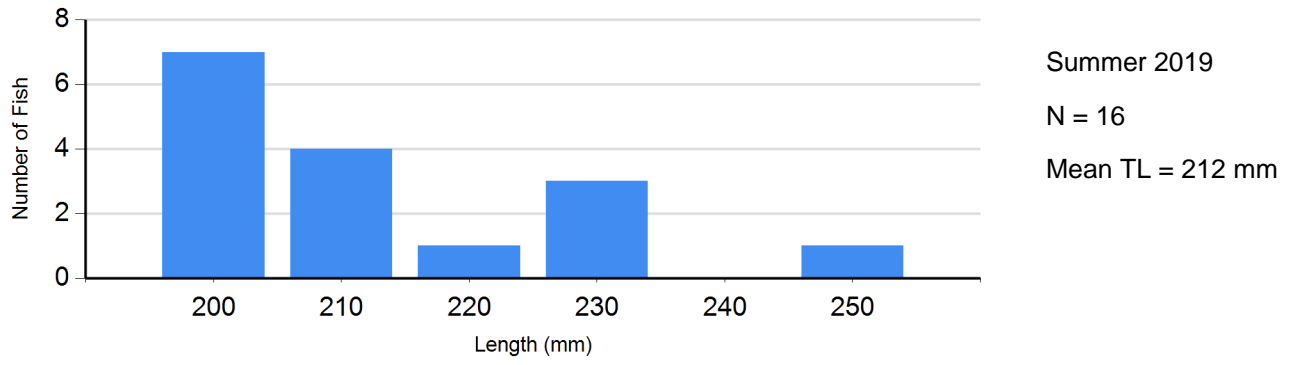


Figure 1b. Length frequency of angler-harvested Rainbow Trout measured by the creel clerk during creel surveys on Sheridan.

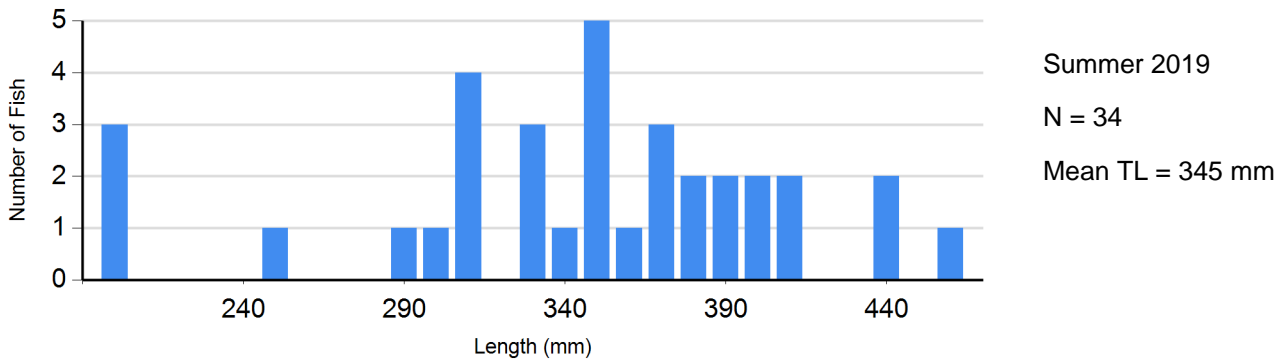
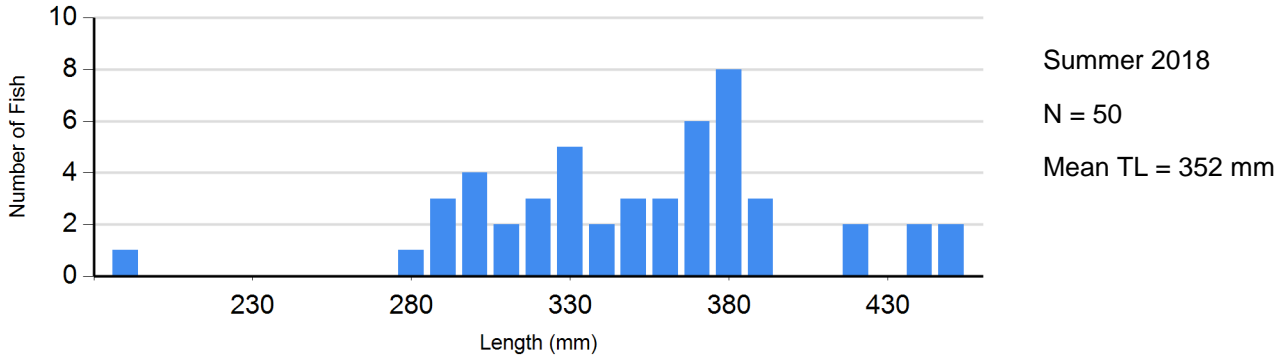


Figure 1c. Length frequency of angler-harvested Yellow Perch measured by the creel clerk during creel surveys on Sheridan.

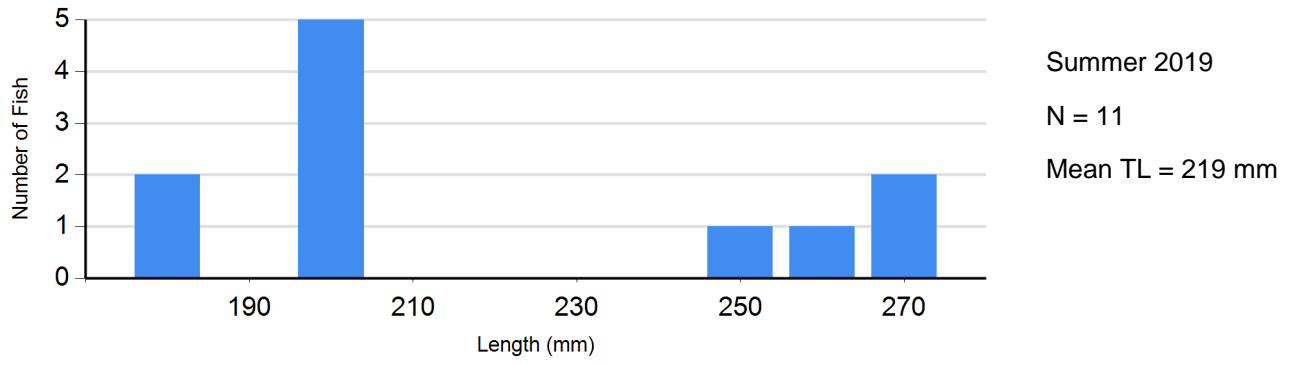


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Sheridan, South Dakota between May 2018 and July 2019.

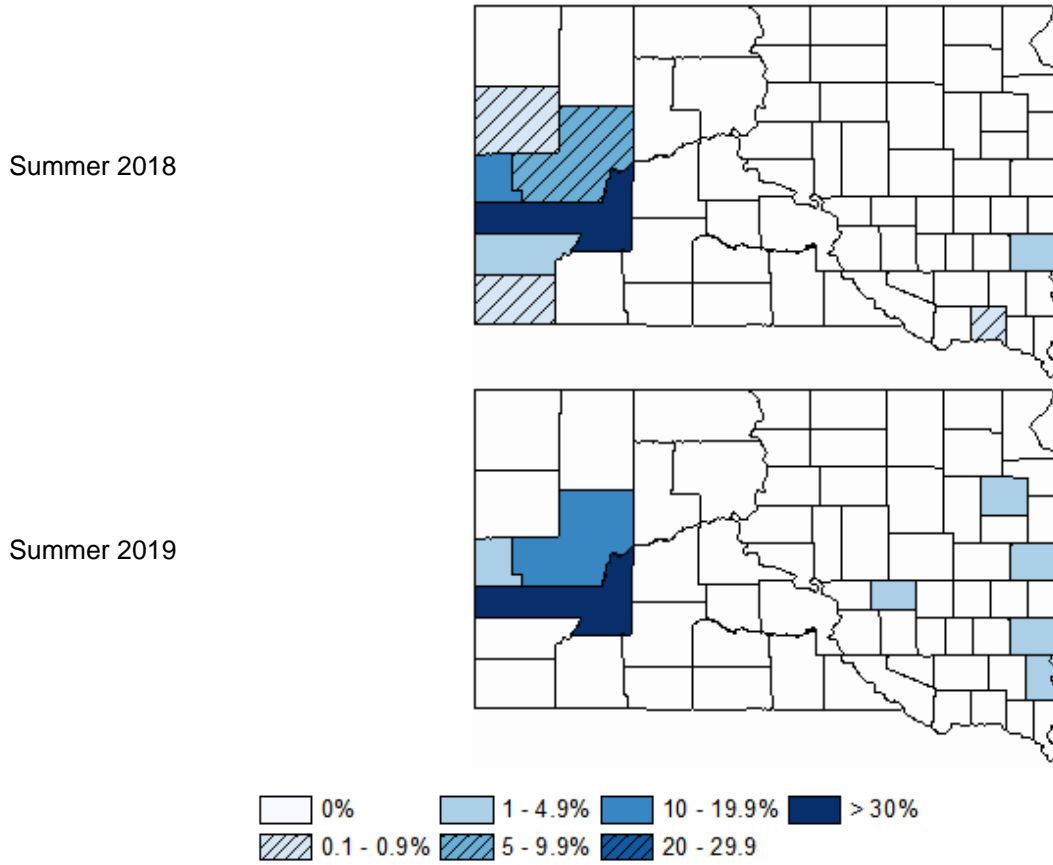


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts						
	BLC (n=93)	LMB (n=93)	NOP (n=93)	RBT (n=93)	ROB (n=93)	WAE (n=93)	YEP (n=93)
0.00	90	92	93	75	92	93	85
0.25	0	0	0	1	0	0	0
0.50	0	0	0	2	0	0	0
0.67	0	0	0	1	0	0	1
0.75	0	0	0	1	0	0	1
1.00	2	1	0	5	0	0	4
1.33	0	0	0	0	1	0	0
1.50	0	0	0	1	0	0	0
2.00	0	0	0	2	0	0	1
2.50	0	0	0	1	0	0	0
3.33	0	0	0	1	0	0	0
4.00	0	0	0	2	0	0	0
6.00	0	0	0	0	0	0	1
7.00	0	0	0	1	0	0	0
11.00	1	0	0	0	0	0	0

Summer 2019**Counts**

Angler Harvest	BLC (n=89)	LMB (n=89)	NOP (n=89)	RBT (n=89)	ROB (n=89)	WAE (n=89)	YEP (n=89)
0.00	87	89	85	78	89	89	83
0.14	0	0	1	0	0	0	0
0.17	0	0	0	1	0	0	0
0.20	0	0	0	1	0	0	0
0.25	0	0	1	0	0	0	1
0.50	0	0	2	2	0	0	2
0.67	0	0	0	0	0	0	1
1.00	1	0	0	1	0	0	1
1.33	0	0	0	1	0	0	0
1.50	0	0	0	1	0	0	1
1.67	0	0	0	1	0	0	0
2.00	0	0	0	1	0	0	0
2.50	0	0	0	1	0	0	0
3.50	1	0	0	0	0	0	0
5.00	0	0	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 Sheridan.

Question: What is the method of angling?

Response	Summer 2019 (n = 89)
Bait	65%
Fly	4%
Spin	30%

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

Response	Summer 2019 (n = 89)
Very Satisfied	76%
Moderately Satisfied	20%
Slightly Satisfied	1%
Slightly Dissatisfied	2%

Question: Would you support special regulations for Norther Pike?

Response	Summer 2019 (n = 89)
No	16%
No Opinion	30%
Yes	54%