

Creel and Lake Information

Lake Information

Lake Name: Sheridan
Lake Code: MCS-Lake-11-000
Surface Area: 149.88 Hectares
County: Pennington
Start Date: 5/11/2018
End Date: 7/27/2018
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 2017 - 2018. Any Species (ANY), Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Smallmouth Bass (SMB), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting						
			ANY	BLC	LMB	NOP	RBT	SMB	YEP
2018	May	37	35.1	5.4	8.1	8.1	29.7	8.1	5.4
	June	26	65.4	3.8	7.7	7.7	7.7	3.8	3.8
	July	30	66.7	0.0	3.3	3.3	23.3	3.3	0.0
	Overall	93	53.8	3.2	6.5	6.5	21.5	5.4	3.2

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

Table 3. Estimated fishing pressure (angler hours) by month during the summer season 2018 daylight period on Sheridan (80% confidence interval).

Lake	Month			Total
	May	June	July	
Sheridan (Pennington)	4,520 (1,130)	4,919 (847)	8,113 (2,049)	17,552 (2,489)

Table 4. Estimated number of fish harvested, by species and month, for the summer season 2018 daylight period on Sheridan (80% confidence interval).

Species	Month			Total
	May	June	July	
Black Crappie	772 (803)	0	33 (49)	805 (805)
Largemouth Bass	27 (46)	0	0	27 (46)
Northern Pike	0	0	0	0
Rainbow Trout	586 (342)	420 (512)	806 (440)	1,811 (757)
Smallmouth Bass	60 (73)	0	0	60 (73)
Yellow Perch	157 (171)	35 (69)	279 (181)	471 (258)
Total	1,602 (1,434)	455 (581)	1,118 (670)	3,175 (1,938)

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

Year	Month	BLC	LMB	NOP	RBT	SMB	YEP
		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)	0.03 (0.02)	0.05 (0.05)
	June	0.08 (0.08)	0.95 (0.55)	0.05 (0.04)	0.11 (0.11)	0.11 (0.12)	0.06
	July	0.04 (0.04)	0.11 (0.12)	<0.01 (<0.01)	0.16 (0.12)	0.12 (0.09)	0.17 (0.05)
	Overall	0.11 (0.06)	0.36 (0.15)	0.02 (0.01)	0.17 (0.08)	0.09 (0.05)	0.11 (0.03)

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

Year	Month	BLC	LMB	NOP	RBT	SMB	YEP
		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)	0.01 (0.02)	0.03 (0.04)
	June	0.00	0.00	0.00	0.09 (0.11)	0.00	0.01 (0.02)
	July	<0.01 (<0.01)	0.00	0.00	0.10 (0.09)	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)	0.03 (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), Smallmouth Bass (SMB), Yellow Perch (YEP) and Other Species (Other).

Year	Month	BLC	LMB	NOP	RBT	SMB	YEP
		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
	June	0.00	7.32 (8.85)	0.00	0.40	0.00	0.00
	July	0.00	3.57	0.51	0.56 (0.46)	0.33	0.00
	Overall	1.84	2.40 (1.31)	0.15	0.58 (0.36)	0.14	0.00

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

Year	Month	BLC	LMB	NOP	RBT	SMB	YEP
		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
	June	0.00	0.00	0.00	0.40	0.00	0.00
	July	0.00	0.00	0.00	0.45 (0.32)	0.00	0.00
	Overall	1.28	0.03	0.00	0.42 (0.21)	0.00	0.00

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

Year	Month	BLC	LMB	NOP	RBT	SMB	YEP
		C	C	C	C	C	C
2018	May	1,177 (950)	796 (636)	76 (114)	1,092 (580)	115 (90)	231 (200)
	June	382 (400)	4,671 (2,265)	245 (204)	550 (510)	517 (598)	272 (187)
	July	358 (329)	903 (912)	21 (32)	1,272 (546)	939 (694)	1,350 (672)
	Overall	1,917 (1,082)	6,370 (2,523)	341 (236)	2,914 (946)	1,571 (921)	1,854 (725)

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

Year	Month	BLC	LMB	NOP	RBT	SMB	YEP
		H	H	H	H	H	H
2018	May	772 (803)	27 (46)	0	586 (342)	60 (73)	157 (171)
	June	0	0	0	420 (512)	0	35 (69)
	July	33 (49)	0	0	806 (440)	0	279 (181)
	Overall	805 (805)	27 (46)	0	1,811 (757)	60 (73)	471 (258)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Largemouth Bass (LMB), Northern Pike (NOP), Rainbow Trout (RBT), Smallmouth Bass (SMB), 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)
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)
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
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)
Winter	2010-2011	446 (87)	285 (63)	0.03 (<0.01)	0.02 (<0.01)
Winter	2013-2014	0	0	0.00	0.00

Smallmouth 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	1,571 (921)	60 (73)	0.09 (0.05)	<0.01 (<0.01)
Winter	2010-2011	8 (11)	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)
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), Smallmouth Bass (SMB), Yellow Perch (YEP).

Summer 2018						
Length Group (mm)	BLC (N=0)	LMB (N=0)	NOP (N=0)	RBT (N=50)	SMB (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		

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

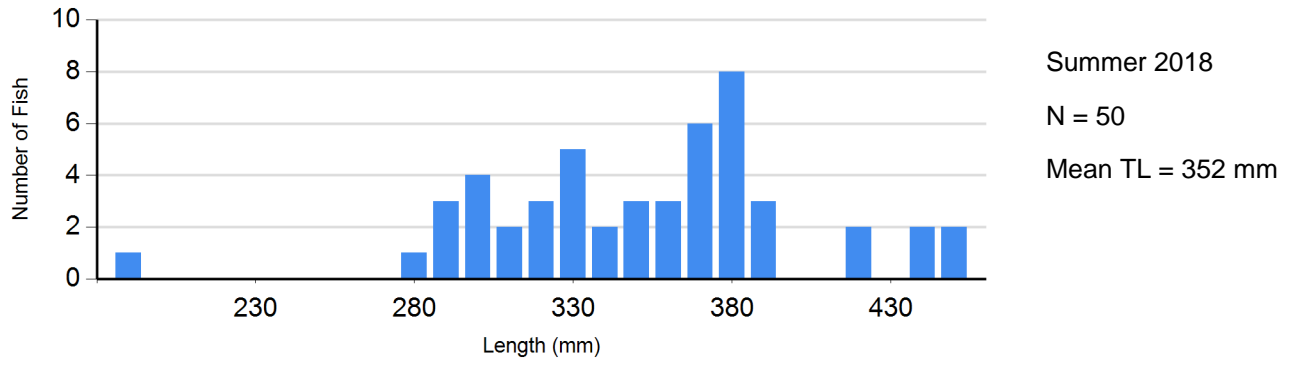


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Sheridan, South Dakota between May 2018 and July 2018.

Summer 2018

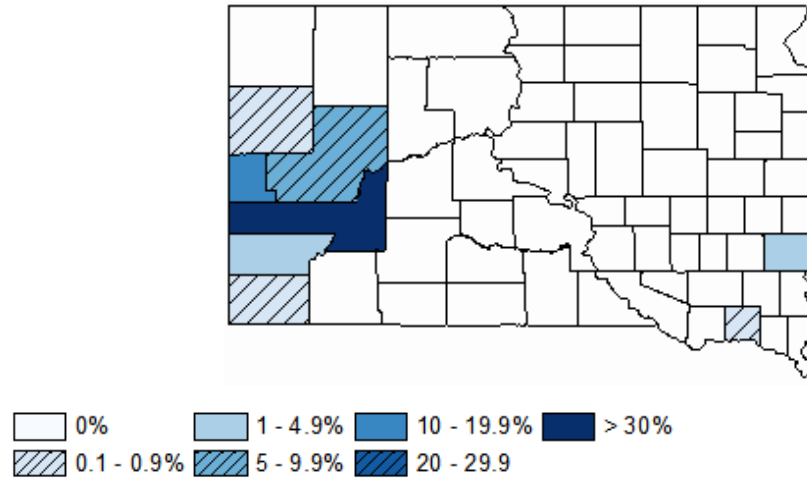


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts					
	BLC (n=93)	LMB (n=93)	NOP (n=93)	RBT (n=93)	SMB (n=93)	YEP (n=93)
0.00	90	92	93	75	92	85
0.25	0	0	0	1	0	0
0.50	0	0	0	2	1	0
0.67	0	0	0	1	0	1
0.75	0	0	0	1	0	1
1.00	2	1	0	5	0	4
1.50	0	0	0	1	0	0
2.00	0	0	0	2	0	1
2.50	0	0	0	1	0	0
3.33	0	0	0	1	0	0
4.00	0	0	0	2	0	0
6.00	0	0	0	0	0	1
7.00	0	0	0	1	0	0
11.00	1	0	0	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 2018 (n = 91)
Bait	62%
Fly	1%
Spin	37%

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

Response	Summer 2018 (n = 91)
Very Satisfied	32%
Moderately Satisfied	23%
Slightly Satisfied	19%
Neutral/No Opinion	9%
Slightly Dissatisfied	13%
Moderately Dissatisfied	3%
Very Dissatisfied	1%

Question: The current trout regulation for this lake is five trout per day with only one over 14-inches, do you support this regulation?

Response	Summer 2018 (n = 91)
No	4%
No Opinion	23%
Yes	73%

Question: Would you support special regulations for Norther Pike?

Response	Summer 2018 (n = 91)
No	29%
No Opinion	32%
Yes	40%