

Creel and Lake Information

Lake Information

Lake Name: Roy
Lake Code: UJA-Lake-866-001
Surface Area: 854.95 Hectares
County: Marshall
Start Date: 5/10/2018
End Date: 7/5/2018
Months Included: May, June, July

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Roy during 2017 - 2018. Any Species (ANY), Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE).

Year	Month	# of Interviews	Percent of Anglers Targeting				
			ANY	BLG	NOP	SMB	WAE
2018	May	24	25.0	0.0	8.3	16.7	50.0
	June	22	27.3	4.5	22.7	18.2	27.3
	July	1	100.0	0.0	0.0	0.0	0.0
	Overall	47	27.7	2.1	14.9	17.0	38.3

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 Roy (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2018	May	24	5,717 (2,008)	996	5.74	2.49 (0.81)	25.00	96	37
	June	22	8,645 (2,304)	1,544	5.60 (1.16)	2.54 (0.24)	50.00	95	64
	July	1	4,878 (2,384)		0.00	2.00	100.00	0	0
	Overall	47	19,240 (3,876)	3,393	5.67 (0.57)	2.38 (0.32)	38.30	94	49

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

Lake	Month			Total
	May	June	July	
Roy (Marshall)	5,717 (2,008)	8,645 (2,304)	4,878 (2,384)	19,240 (3,876)

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

Species	Month		
	May	June	Total
Bluegill	54 (48)	0	54 (48)
Northern Pike	302 (188)	491 (412)	793 (453)
Smallmouth Bass	18 (16)	78 (70)	97 (72)
Walleye	588 (481)	140 (102)	728 (491)
Total	962 (733)	710 (584)	1,672 (1,063)

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

Year	Month	BLG	NOP	SMB	WAE
		C/h	C/h	C/h	C/h
2018	May	0.02 (0.01)	0.19 (0.20)	0.02 (0.02)	0.14 (0.24)
	June	0.01	0.23 (0.24)	0.20 (0.26)	0.02 (0.01)
	Overall	0.01 (<0.01)	0.16 (0.11)	0.10 (0.10)	0.05 (0.05)

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

Year	Month	BLG	NOP	SMB	WAE
		H/h	H/h	H/h	H/h
2018	May	0.01 (<0.01)	0.05 (0.06)	<0.01 (<0.01)	0.10 (0.18)
	June	0.00	0.06 (0.06)	0.01 (<0.01)	0.02 (0.01)
	Overall	<0.01 (<0.01)	0.04 (0.03)	0.01 (<0.01)	0.04 (0.04)

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

Year	Month	BLG	NOP	SMB	WAE
		C/h	C/h	C/h	C/h
2018	May	0.00	0.08	0.00	0.21 (0.29)
	June	0.18	0.26	0.73 (0.93)	0.00
	Overall	0.18	0.17	0.36 (0.46)	0.11 (0.15)

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

Year	Month	BLG	NOP	SMB	WAE
		H/h	H/h	H/h	H/h
2018	May	0.00	0.00	0.00	0.16 (0.19)
	June	0.00	0.26	0.00	0.00
	Overall	0.00	0.13	0.00	0.08 (0.10)

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Roy (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLG	NOP	SMB	WAE
		C	C	C	C
2018	May	91 (79)	1,065 (575)	131 (105)	809 (624)
	June	80	2,028 (876)	1,716 (1,354)	187 (107)
	Overall	171 (79)	3,092 (1,048)	1,847 (1,358)	996 (634)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Roy (80% confidence interval). Abbreviations for species are as follows: Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLG	NOP	SMB	WAE
		H	H	H	H
2018	May	54 (48)	302 (188)	18 (16)	588 (481)
	June	0	491 (412)	78 (70)	140 (102)
	Overall	54 (48)	793 (453)	97 (72)	728 (491)

Table 8. Estimated number and rate (number per hour) of Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE) caught and harvested by anglers during the summer and winter fisheries on Roy, (80% confidence interval).

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2018	171 (79)	54 (48)	0.01 (<0.01)	<0.01 (<0.01)

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2018	3,092 (1,048)	793 (453)	0.16 (0.11)	0.04 (0.03)

Smallmouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2018	1,847 (1,358)	97 (72)	0.10 (0.10)	0.01 (<0.01)

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2018	996 (634)	728 (491)	0.05 (0.05)	0.04 (0.04)

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Roy. Abbreviations for species are as follows: Bluegill (BLG), Northern Pike (NOP), Smallmouth Bass (SMB), Walleye (WAE).

Summer 2018				
Length Group (mm)	BLG (N=3)	NOP (N=13)	SMB (N=3)	WAE (N=31)
220	2			
230	1			
290			1	
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				1
410				1
420				2
430			1	5
440			1	5
450				2
460				3
470				3
480				4
490				1
500				1
510				
520		1		
530				2
540				
550		1		
560				
570		1		1
580				
590		2		
600				
610				
620		1		
630		2		
640				
650		1		
660		1		
670				
680				
690		2		
700				
710		1		

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

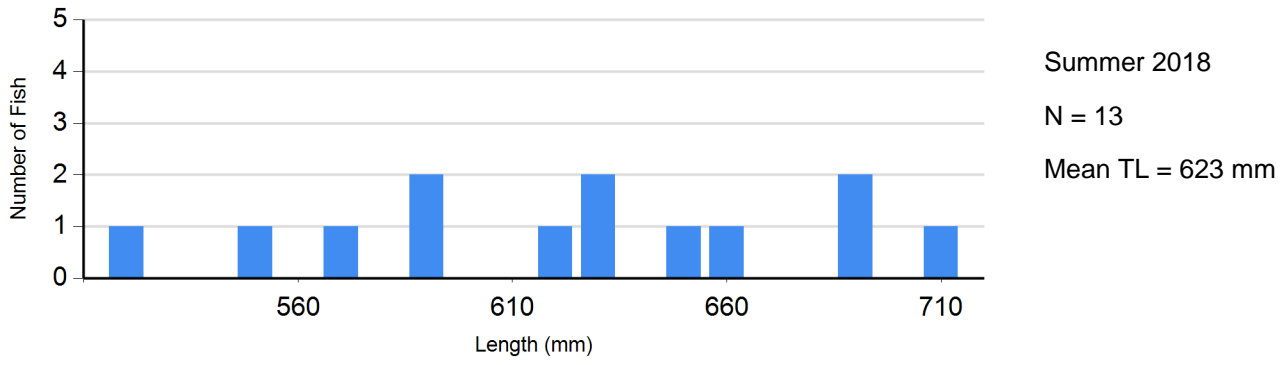


Figure 1b. Length frequency of angler-harvested Walleye measured by the creel clerk during creel surveys on Roy.

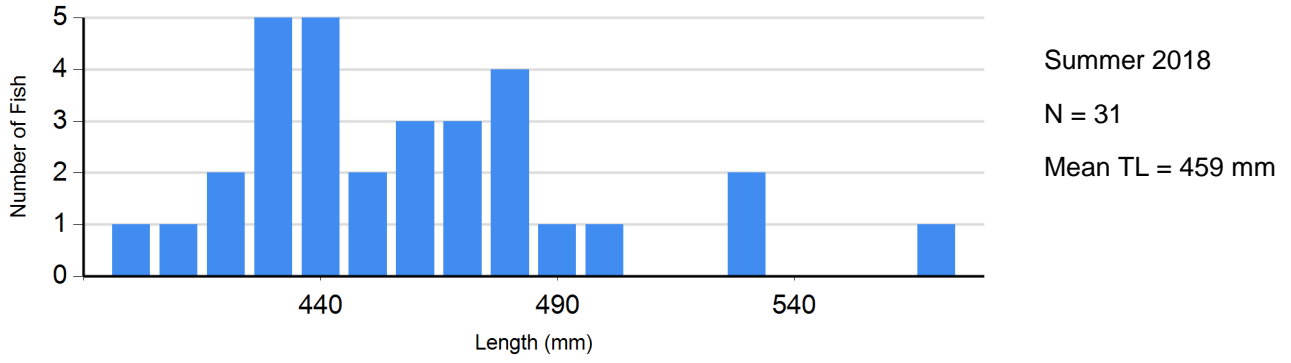


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Roy, South Dakota between May 2018 and July 2018.

Summer 2018

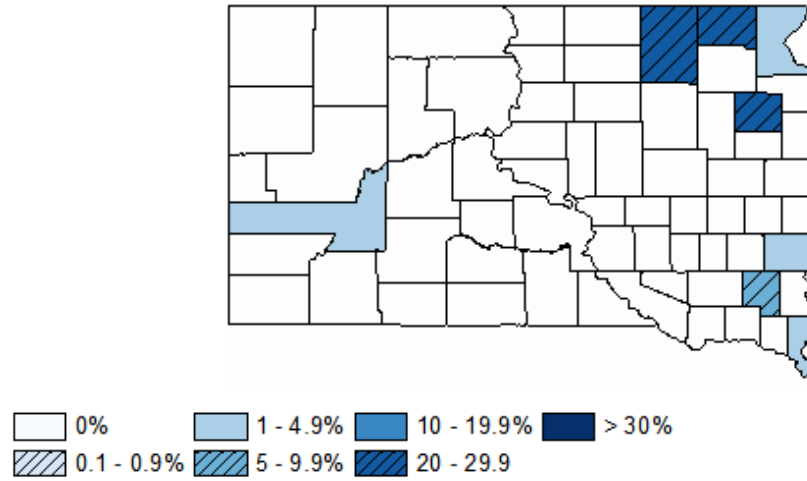


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts			
	BLG (n=47)	NOP (n=47)	SMB (n=47)	WAE (n=47)
0.00	45	38	45	33
0.33	1	0	0	3
0.40	0	0	1	0
0.50	0	0	1	6
1.00	1	4	0	0
2.00	0	3	0	1
2.33	0	0	0	1
2.67	0	0	0	1
3.00	0	0	0	2
4.00	0	2	0	0

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

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

Response	Summer 2018 (n = 47)
Very Satisfied	23%
Moderately Satisfied	19%
Slightly Satisfied	11%
Neutral/No Opinion	30%
Slightly Dissatisfied	11%
Moderately Dissatisfied	4%
Very Dissatisfied	2%