

Creel and Lake Information

Lake Information

Lake Name: Clear
Lake Code: UJA-Lake-917-001
Surface Area: 492.64 Hectares
County: Marshall
Start Date: 5/12/2018
End Date: 7/27/2018
Months Included: May, June, July, August

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Clear during 2017 - 2018. 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
2017	May	18	0.0	0.0	22.2	0.0	22.2	38.9	0.0
	June	20	5.0	0.0	40.0	10.0	15.0	30.0	0.0
	July	20	25.0	0.0	25.0	0.0	5.0	40.0	0.0
	August	15	6.7	0.0	46.7	0.0	6.7	40.0	0.0
	Overall	73	9.6	0.0	32.9	2.7	12.3	37.0	0.0
2018	May	13	23.1	0.0	23.1	0.0	23.1	30.8	0.0
	June	32	6.3	9.4	28.1	3.1	34.4	18.8	0.0
	July	9	22.2	0.0	33.3	0.0	33.3	0.0	11.1
	Overall	54	13.0	5.6	27.8	1.9	31.5	18.5	1.9

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 Clear (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2017	May	18	3,340 (1,806)	837	3.99	1.96	66.67	100	78
	June	20	7,064 (1,721)	1,268	5.57	2.36	40.00	100	20
	July	20	5,148 (1,841)	1,344	3.83	2.44 (0.43)	70.00	95	60
	August	15	8,182 (425)	1,916	4.27	2.21	46.67	100	53
	Overall	73	23,735 (3,129)	5,382	4.41	2.24 (0.11)	56.16	99	52
2018	May	13	2,310 (1,017)	647	3.57 (0.41)	2.00 (0.76)	61.54	77	62
	June	32	4,441 (1,060)	1,030	4.31 (0.66)	2.54 (0.43)	40.63	91	34
	July	9	5,988 (1,640)	1,711	3.50	2.22	66.67	100	33
	Overall	54	12,739 (2,202)	3,361	3.79 (0.25)	2.25 (0.29)	50.00	89	41

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

Lake	Month			Total
	May	June	July	
Clear (Marshall)	2,310 (1,017)	4,441 (1,060)	5,988 (1,640)	12,739 (2,202)

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

Species	Month			Total
	May	June	July	
Black Crappie	26 (25)	161 (132)	203 (94)	390 (164)
Bluegill	692 (542)	751 (307)	1,828 (740)	3,271 (967)
Northern Pike	52 (32)	13 (17)	0	65 (36)
Smallmouth Bass	0	0	0	0
Walleye	0	44 (25)	0	44 (25)
Yellow Perch	0	0	203 (184)	203 (184)
Total	769 (599)	969 (480)	2,235 (1,018)	3,973 (1,376)

Table 5a. Estimated monthly and overall angler catch rate per hour fished (C/h) for all anglers by species at Clear (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
2017	May	0.02	0.05 (0.04)	0.07	0.32 (0.55)	0.15 (0.08)	0.01 (0.01)
	June	0.04 (0.04)	1.53 (1.21)	0.72 (0.53)	0.47 (0.28)	0.06 (0.07)	<0.01 (<0.01)
	July	0.03 (0.04)	0.59 (0.52)	0.20 (0.20)	0.22 (0.35)	0.08 (0.06)	0.03 (0.02)
	August	0.04 (<0.01)	1.02 (0.12)	0.05 (0.01)	0.11 (0.02)	0.02 (<0.01)	0.00
	Overall	0.03 (0.02)	0.94 (0.35)	0.29 (0.14)	0.27 (0.13)	0.07 (0.02)	0.01 (<0.01)
2018	May	0.01 (0.01)	0.30 (0.27)	0.03 (0.05)	0.33 (0.29)	0.00	0.00
	June	0.05 (0.05)	0.50 (0.35)	0.10 (0.06)	0.43 (0.32)	0.03 (0.02)	0.02 (<0.01)
	July	0.05 (0.03)	0.87 (0.77)	0.03 (0.03)	0.34 (0.30)	0.00	0.14 (0.21)
	Overall	0.04 (0.02)	0.64 (0.37)	0.05 (0.03)	0.37 (0.19)	0.01 (<0.01)	0.07 (0.08)

Table 5b. Estimated monthly and overall angler harvest rate per hour fished (H/h) for all anglers by species at Clear (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
2017	May	0.02	0.04 (0.04)	0.02 (0.01)	0.00	0.09 (0.05)	0.01 (0.01)
	June	0.02 (0.01)	0.60 (0.51)	0.09 (0.11)	0.01 (0.02)	0.01 (0.01)	0.00
	July	0.03 (0.04)	0.39 (0.37)	0.02	0.04 (0.06)	0.04 (0.03)	0.00
	August	0.03 (0.02)	0.51 (0.14)	0.00	0.00	0.02 (<0.01)	0.00
	Overall	0.03 (0.01)	0.45 (0.17)	0.04 (0.03)	0.01 (<0.01)	0.03 (<0.01)	<0.01 (<0.01)
2018	May	0.01 (0.01)	0.30 (0.27)	0.02 (0.03)	0.00	0.00	0.00
	June	0.04 (0.03)	0.17 (0.14)	<0.01 (<0.01)	0.00	0.01 (<0.01)	0.00
	July	0.03 (0.02)	0.31 (0.17)	0.00	0.00	0.00	0.03 (<0.01)
	Overall	0.03 (0.01)	0.26 (0.11)	0.01 (<0.01)	0.00	<0.01 (<0.01)	0.02 (0.01)

Table 6a. Estimated monthly and overall angler catch rate per hour fished (C/h) only for anglers primarily targeting a species at Clear. (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
2017	May	0.00	0.09	0.00	0.25	1.59 (0.11)	0.00
	June	0.00	3.98 (3.93)	2.11	1.32 (0.78)	0.11 (0.21)	0.00
	July	0.00	1.23 (1.39)	0.00	0.66	0.33 (0.10)	0.00
	August	0.00	1.25 (0.07)	0.00	0.00	0.01	0.00
	Overall	0.00	1.74 (1.02)	2.11	0.67 (0.33)	0.51 (0.06)	0.00
2018	May	0.00	0.58	0.00	0.61	0.00	0.00
	June	0.39 (0.67)	1.02 (1.21)	0.38	0.76 (1.46)	0.01 (0.02)	0.00
	July	0.00	1.85 (2.22)	0.00	0.30 (0.45)	0.00	0.86
	Overall	0.39 (0.67)	1.06 (0.75)	0.38	0.56 (0.50)	<0.01 (0.01)	0.86

Table 6b. Estimated monthly and overall angler harvest rate per hour fished (H/h) only for anglers primarily targeting a species at Clear. (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
2017	May	0.00	0.09	0.00	0.00	0.71 (0.07)	0.00
	June	0.00	1.66 (1.94)	0.14	0.00	0.00	0.00
	July	0.00	1.01 (0.65)	0.00	0.00	0.13 (0.06)	0.00
	August	0.00	0.80 (0.88)	0.00	0.00	0.01	0.00
	Overall	0.00	0.98 (0.57)	0.14	0.00	0.21 (0.02)	0.00
2018	May	0.00	0.58	0.00	0.00	0.00	0.00
	June	0.30 (0.80)	0.51 (0.41)	0.13	0.00	0.01 (0.02)	0.00
	July	0.00	0.30 (0.67)	0.00	0.00	0.00	0.86
	Overall	0.30 (0.80)	0.49 (0.24)	0.13	0.00	<0.01 (<0.01)	0.86

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Clear (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
2017	May	83 (80)	162 (117)	217 (139)	1,063 (1,122)	507 (221)	24 (41)
	June	274 (186)	10,825 (5,286)	5,096 (2,472)	3,314 (1,256)	433 (317)	28 (37)
	July	158 (83)	3,043 (1,263)	1,032 (440)	1,145 (709)	431 (252)	169 (101)
	August	315 (77)	8,326 (537)	430 (118)	889 (177)	180 (59)	0
	Overall	830 (232)	22,357 (5,463)	6,776 (2,518)	6,411 (1,836)	1,550 (465)	221 (115)
2018	May	26 (25)	692 (542)	78 (67)	772 (489)	0	0
	June	235 (160)	2,238 (1,152)	435 (273)	1,895 (1,244)	135 (71)	73 (35)
	July	305 (126)	5,181 (3,539)	180 (144)	2,027 (1,749)	0	813 (630)
	Overall	566 (205)	8,110 (3,761)	693 (315)	4,694 (2,201)	135 (71)	886 (631)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Clear (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
2017	May	83 (80)	118 (117)	59 (47)	0	285 (146)	24 (41)
	June	141 (112)	4,254 (2,555)	648 (629)	85 (93)	85 (110)	0
	July	158 (83)	2,027 (987)	126 (81)	218 (118)	229 (126)	0
	August	233 (187)	4,210 (1,310)	0	0	139	0
	Overall	615 (247)	10,609 (3,038)	833 (636)	302 (150)	738 (222)	24 (41)
2018	May	26 (25)	692 (542)	52 (32)	0	0	0
	June	161 (132)	751 (307)	13 (17)	0	44 (25)	0
	July	203 (94)	1,828 (740)	0	0	0	203 (184)
	Overall	390 (164)	3,271 (967)	65 (36)	0	44 (25)	203 (184)

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 Clear, (80% confidence interval).

Black Crappie

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	830 (232)	615 (247)	0.03 (0.02)	0.03 (0.01)
Summer	2018	566 (205)	390 (164)	0.04 (0.02)	0.03 (0.01)

Bluegill

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	22,357 (5,463)	10,609 (3,038)	0.94 (0.35)	0.45 (0.17)
Summer	2018	8,110 (3,761)	3,271 (967)	0.64 (0.37)	0.26 (0.11)

Northern Pike

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	6,776 (2,518)	833 (636)	0.29 (0.14)	0.04 (0.03)
Summer	2018	693 (315)	65 (36)	0.05 (0.03)	0.01 (<0.01)

Smallmouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	6,411 (1,836)	302 (150)	0.27 (0.13)	0.01 (<0.01)
Summer	2018	4,694 (2,201)	0	0.37 (0.19)	0.00

Walleye

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	1,550 (465)	738 (222)	0.07 (0.02)	0.03 (<0.01)
Summer	2018	135 (71)	44 (25)	0.01 (<0.01)	<0.01 (<0.01)

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	221 (115)	24 (41)	0.01 (<0.01)	<0.01 (<0.01)
Summer	2018	886 (631)	203 (184)	0.07 (0.08)	0.02 (0.01)

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

Summer 2017						
Length Group (mm)	BLC (N=16)	BLG (N=125)	NOP (N=24)	SMB (N=4)	WAE (N=25)	YEP (N=2)
170		2				
180		7				
190		9				
200		28				
210		22				1
220	2	24				1
230		19				
240		8				
250	1	6				
260	2					
270	2					
280	1					
290	2					
300	2			1		
310	2			1		
320	1					
330				1		
340	1					
350						
360						
370						
380					1	
390						
400					5	
410					2	
420					3	
430					4	
440					2	
450					4	
460					1	
470						
480					1	
490			1	1	1	
500						
510					1	
520			2			
530			1			
540						
550			3			
560						
570			2			
580						
590						
600			1			
610			2			
620						
630			1			
640			1			
650						
660						
670			2			
680			2			
690						
700			1			
710			1			
720						
730						
740			1			
750						
760			3			

Summer 2018

Length Group (mm)	BLC (N=16)	BLG (N=42)	NOP (N=3)	SMB (N=0)	WAE (N=4)	YEP (N=2)
140		1				
150						
160		1				1
170		3				
180		3				1
190	1	1				
200		11				
210	1	9				
220		4				
230		5				
240		3			1	
250		1				
260						
270	1					
280	1					
290	1					
300	4					
310	4					
320	3					
330						
340						
350						
360						
370						
380						
390					1	
400						
410						
420						
430						
440						
450						
460						
470						
480					1	
490						
500						
510						
520						
530						
540						
550						
560						
570						
580					1	
770			1			
780						
790						
800						
810						
820						
830						
840						
850						
860						
870						
880						
890						
900						
910			1			
920						
930			1			

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

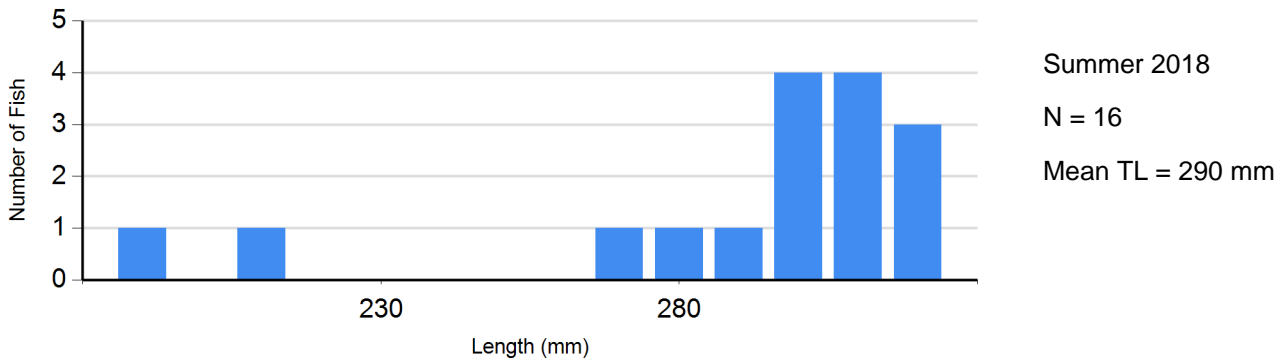
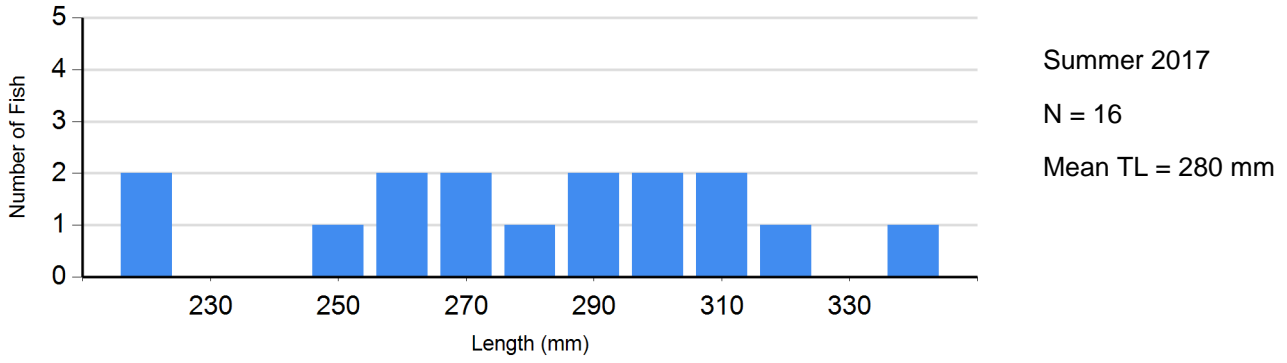


Figure 1b. Length frequency of angler-harvested Bluegill measured by the creel clerk during creel surveys on Clear.

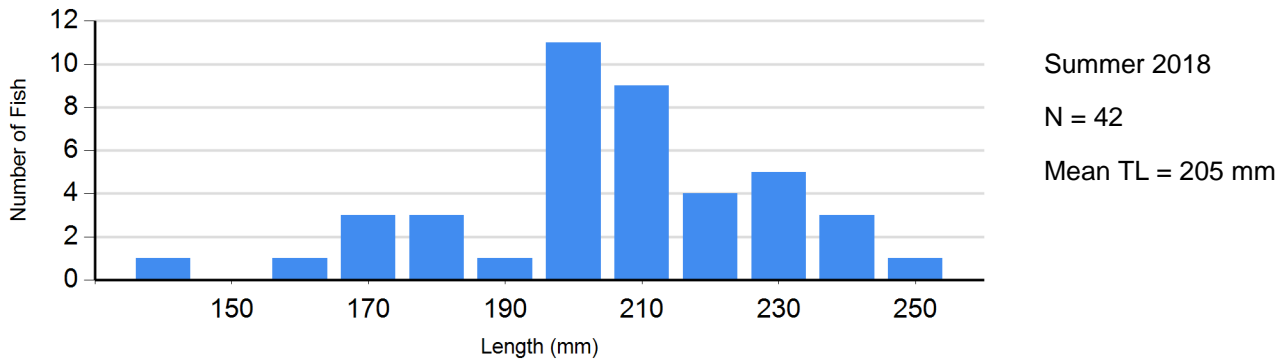
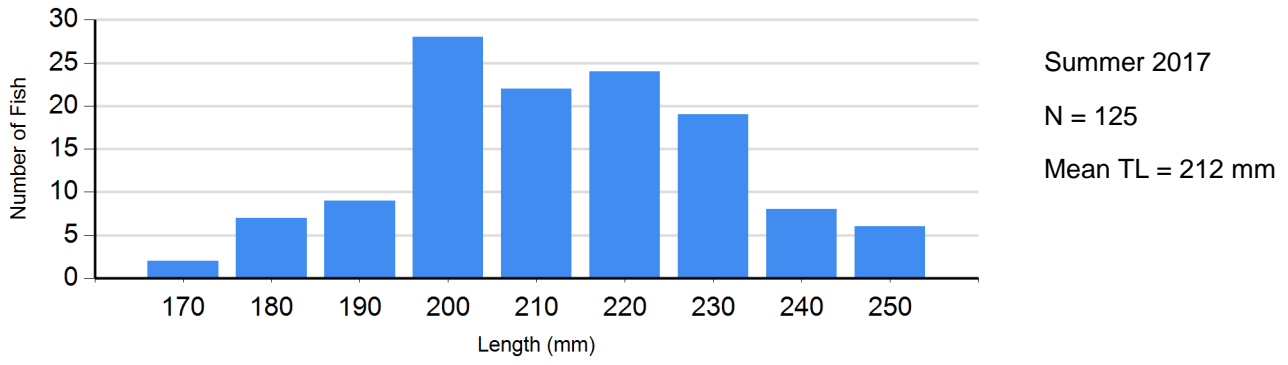


Figure 1c. Length frequency of angler-harvested Northern Pike measured by the creel clerk during creel surveys on Clear.

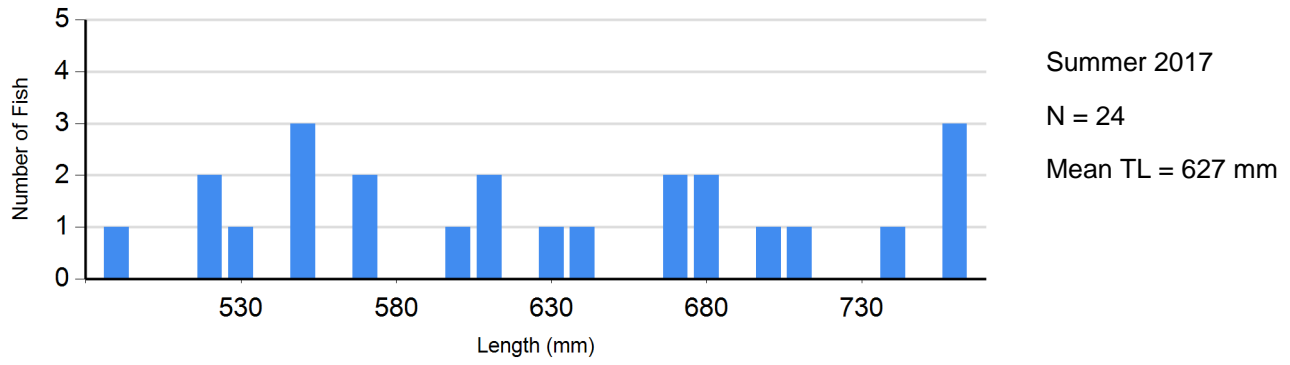


Figure 1d. Length frequency of angler-harvested Walleye measured by the creel clerk during creel surveys on Clear.

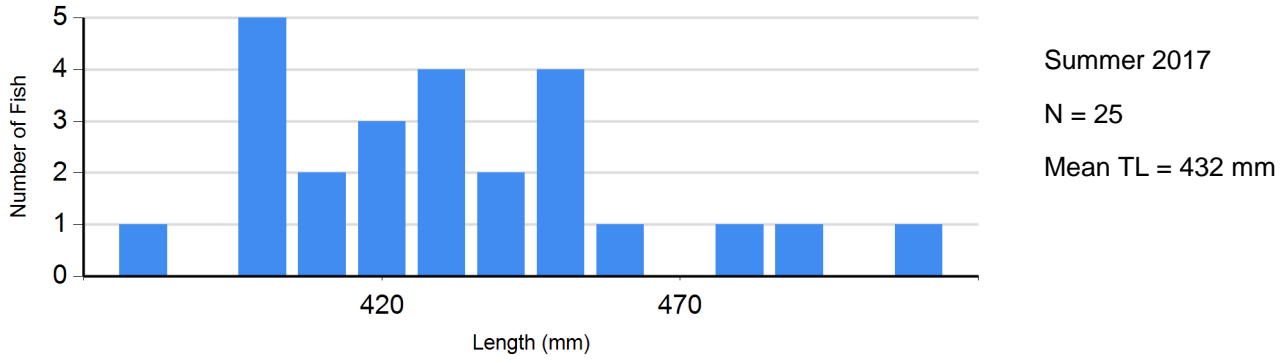


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Clear, South Dakota between May 2017 and July 2018.

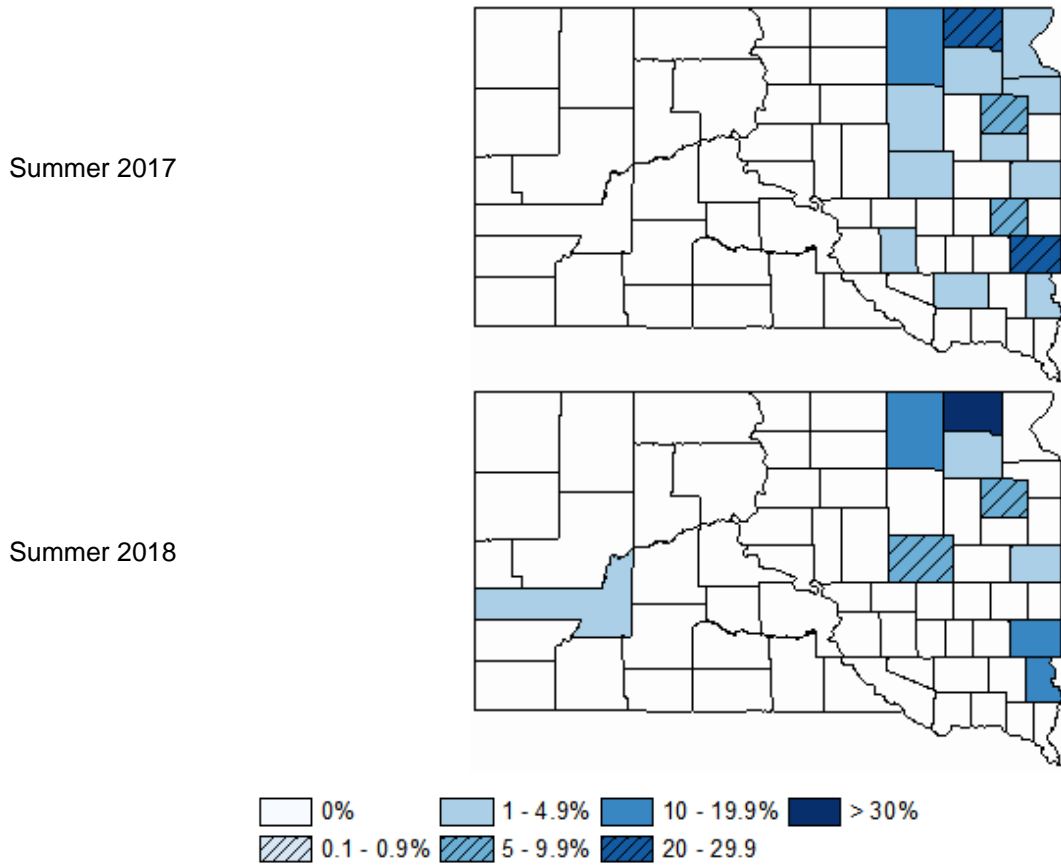


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts					
	BLC (n=73)	BLG (n=73)	NOP (n=73)	SMB (n=73)	WAE (n=73)	YEP (n=73)
0.00	59	45	64	69	59	72
0.25	1	0	0	0	1	0
0.33	3	2	1	0	1	0
0.50	3	1	0	0	3	0
0.67	3	1	1	0	0	1
0.75	0	2	0	1	0	0
1.00	2	1	3	2	4	0
1.33	0	1	0	0	3	0
1.50	2	1	1	1	1	0
1.67	0	1	0	0	0	0
2.00	0	1	1	0	0	0
2.50	0	2	1	0	0	0
2.67	0	1	0	0	0	0
3.00	0	0	0	0	1	0
3.33	0	1	0	0	0	0
3.75	0	1	0	0	0	0
5.00	0	1	0	0	0	0
6.00	0	1	1	0	0	0
6.67	0	1	0	0	0	0
7.50	0	2	0	0	0	0
10.00	0	1	0	0	0	0
11.00	0	1	0	0	0	0
12.00	0	1	0	0	0	0
13.00	0	1	0	0	0	0
15.00	0	3	0	0	0	0

Summer 2018**Counts**

Angler Harvest	BLC (n=54)	BLG (n=54)	NOP (n=54)	SMB (n=54)	WAE (n=54)	YEP (n=54)
0.00	46	39	51	54	50	53
0.33	5	0	1	0	4	0
0.50	0	0	2	0	0	0
0.67	0	1	0	0	0	0
1.00	2	4	0	0	0	0
1.33	0	1	0	0	0	0
1.67	0	1	0	0	0	0
2.00	0	3	0	0	0	1
2.50	0	1	0	0	0	0
2.67	1	0	0	0	0	0
6.00	0	2	0	0	0	0
9.25	0	1	0	0	0	0
12.00	0	1	0	0	0	0

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

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

Response	Summer 2018 (n = 53)
Very Satisfied	23%
Moderately Satisfied	25%
Slightly Satisfied	28%
Neutral/No Opinion	15%
Slightly Dissatisfied	2%
Moderately Dissatisfied	6%
Very Dissatisfied	2%