

Creel and Lake Information

Lake Information

Lake Name: Clear
Lake Code: UJA-Lake-917-001
Surface Area: 492.64 Hectares
County: Marshall
Start Date: 5/23/2019
End Date: 8/3/2019
Months Included: May, June, July

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Clear during 2018 - 2019. Any Species (ANY), Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE).

Year	Month	# of Interviews	Percent of Anglers Targeting					
			ANY	BLC	BLG	LMB	SMB	WAE
2018	May	13	23.1	0.0	23.1	0.0	23.1	30.8
	June	32	6.3	9.4	28.1	0.0	34.4	18.8
	July	9	22.2	0.0	33.3	0.0	33.3	0.0
	Overall	54	13.0	5.6	27.8	0.0	31.5	18.5
2019	May	10	20.0	20.0	0.0	0.0	50.0	10.0
	June	20	30.0	10.0	10.0	0.0	50.0	0.0
	July	5	20.0	0.0	20.0	0.0	40.0	20.0
	Overall	35	25.7	11.4	8.6	0.0	48.6	5.7

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
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
2019	May	10	4,116 (2,904)	1,319	3.12	2.37	20.00	100	50
	June	20	4,476 (1,589)	1,053	4.25	2.57 (1.03)	30.00	90	50
	July	5	1,658 (949)	523	3.17	1.80	80.00	100	100
	Overall	35	10,250 (3,444)	2,839	3.61	2.38 (0.44)	37.84	95	59

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

Lake	Month				Total
	May	June	July	August	
Clear (Marshall)	4,116 (2,904)	4,476 (1,589)	1,658 (949)	1,929	12,179 (3,444)

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

Species	Month			Total
	May	June	July	
Black Crappie	122	431 (804)	0	553 (804)
Bluegill	98	708 (403)	1,125 (1,787)	1,931 (1,832)
Largemouth Bass	0	0	0	0
Smallmouth Bass	228 (284)	0	0	228 (284)
Walleye	0	12 (22)	0	12 (22)
Total	447 (284)	1,151 (1,229)	1,125 (1,787)	2,723 (2,942)

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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	SMB	WAE
		C/h	C/h	C/h	C/h	C/h
2018	May	0.01 (0.01)	0.30 (0.27)	0.01 (0.02)	0.33 (0.29)	0.00
	June	0.05 (0.05)	0.50 (0.35)	0.08 (0.08)	0.43 (0.32)	0.03 (0.02)
	July	0.05 (0.03)	0.87 (0.77)	0.00	0.34 (0.30)	0.00
	Overall	0.04 (0.02)	0.64 (0.37)	0.03 (0.03)	0.37 (0.19)	0.01 (<0.01)
2019	May	0.03	0.02	0.00	0.47 (0.98)	0.00
	June	0.15 (0.18)	0.27 (0.13)	1.06 (0.38)	1.09 (0.58)	0.01 (0.01)
	July	0.00	0.91 (1.53)	0.36 (0.48)	0.27 (0.31)	0.00
	Overall	0.08 (0.08)	0.27 (0.25)	0.52 (0.19)	0.71 (0.52)	<0.01 (<0.01)

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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	SMB	WAE
		H/h	H/h	H/h	H/h	H/h
2018	May	0.01 (0.01)	0.30 (0.27)	0.00	0.00	0.00
	June	0.04 (0.03)	0.17 (0.14)	0.00	0.00	0.01 (<0.01)
	July	0.03 (0.02)	0.31 (0.17)	0.00	0.00	0.00
	Overall	0.03 (0.01)	0.26 (0.11)	0.00	0.00	<0.01 (<0.01)
2019	May	0.03	0.02	0.00	0.06 (0.06)	0.00
	June	0.10 (0.18)	0.16 (0.11)	0.00	0.00	<0.01 (<0.01)
	July	0.00	0.68 (1.15)	0.00	0.00	0.00
	Overall	0.05 (0.08)	0.19 (0.19)	0.00	0.02 (0.03)	<0.01 (<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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) and Other Species (Other).

Year	Month	BLC	BLG	LMB	SMB	WAE
		C/h	C/h	C/h	C/h	C/h
2018	May	0.00	0.58	0.00	0.61	0.00
	June	0.39 (0.67)	1.02 (1.21)	0.00	0.76 (1.46)	0.01 (0.02)
	July	0.00	1.85 (2.22)	0.00	0.30 (0.45)	0.00
	Overall	0.39 (0.67)	1.06 (0.75)	0.00	0.56 (0.50)	<0.01 (0.01)
2019	May	0.16	0.00	0.00	0.89	0.00
	June	0.91	0.92	0.00	1.48 (0.63)	0.00
	July	0.00	8.89	0.00	0.95	0.00
	Overall	0.74	4.70	0.00	1.15 (0.27)	0.00

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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) and Other Species (Other).

Year	Month	BLC	BLG	LMB	SMB	WAE
		H/h	H/h	H/h	H/h	H/h
2018	May	0.00	0.58	0.00	0.00	0.00
	June	0.30 (0.80)	0.51 (0.41)	0.00	0.00	0.01 (0.02)
	July	0.00	0.30 (0.67)	0.00	0.00	0.00
	Overall	0.30 (0.80)	0.49 (0.24)	0.00	0.00	<0.01 (<0.01)
2019	May	0.16	0.00	0.00	0.00	0.00
	June	0.91	0.92	0.00	0.00	0.00
	July	0.00	6.67	0.00	0.00	0.00
	Overall	0.74	3.64	0.00	0.00	0.00

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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	SMB	WAE
		C	C	C	C	C
2018	May	26 (25)	692 (542)	26 (39)	772 (489)	0
	June	235 (160)	2,238 (1,152)	377 (345)	1,895 (1,244)	135 (71)
	July	305 (126)	5,181 (3,539)	0	2,027 (1,749)	0
	Overall	566 (205)	8,110 (3,761)	403 (347)	4,694 (2,201)	135 (71)
2019	May	122	98	0	1,918 (2,674)	0
	June	662 (792)	1,205 (408)	4,748 (230)	4,891 (2,015)	35 (65)
	July	0	1,501 (2,383)	600 (373)	450 (440)	0
	Overall	784 (792)	2,803 (2,418)	5,348 (438)	7,260 (3,377)	35 (65)

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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) and other species (Other).

Year	Month	BLC	BLG	LMB	SMB	WAE
		H	H	H	H	H
2018	May	26 (25)	692 (542)	0	0	0
	June	161 (132)	751 (307)	0	0	44 (25)
	July	203 (94)	1,828 (740)	0	0	0
	Overall	390 (164)	3,271 (967)	0	0	44 (25)
2019	May	122	98	0	228 (284)	0
	June	431 (804)	708 (403)	0	0	12 (22)
	July	0	1,125 (1,787)	0	0	0
	Overall	553 (804)	1,931 (1,832)	0	228 (284)	12 (22)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Bluegill (BLG), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE) 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)
Summer	2019	784 (792)	553 (804)	0.08 (0.08)	0.05 (0.08)

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)
Summer	2019	2,803 (2,418)	1,931 (1,832)	0.27 (0.25)	0.19 (0.19)

Largemouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2017	791 (476)	0	0.03 (0.02)	0.00
Summer	2018	403 (347)	0	0.03 (0.03)	0.00
Summer	2019	5,348 (438)	0	0.52 (0.19)	0.00

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
Summer	2019	7,260 (3,377)	228 (284)	0.71 (0.52)	0.02 (0.03)

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)
Summer	2019	35 (65)	12 (22)	<0.01 (<0.01)	<0.01 (<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), Largemouth Bass (LMB), Smallmouth Bass (SMB), Walleye (WAE).

Summer 2018					
Length Group (mm)	BLC (N=16)	BLG (N=42)	LMB (N=0)	SMB (N=0)	WAE (N=4)
140		1			
150					
160		1			
170		3			
180		3			
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

Summer 2019

Length Group (mm)	BLC (N=15)	BLG (N=6)	LMB (N=0)	SMB (N=3)	WAE (N=1)
190		1			
200		2			
210		2			
220	1				
230					
240					
250	2				
260	1				
270		1			
280					
290					
300	2				
310	1				
320	2				
330	5				
340					
350	1				
400				1	
410				1	
420					
430					1
440				1	

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

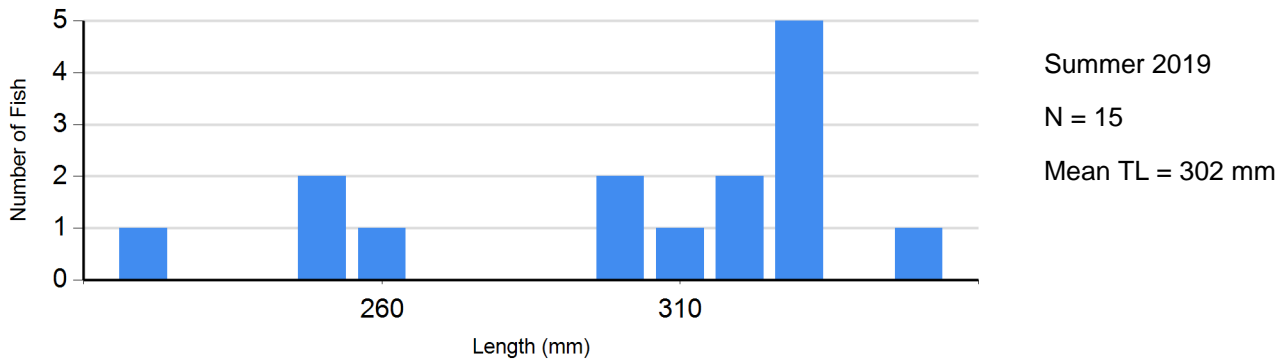
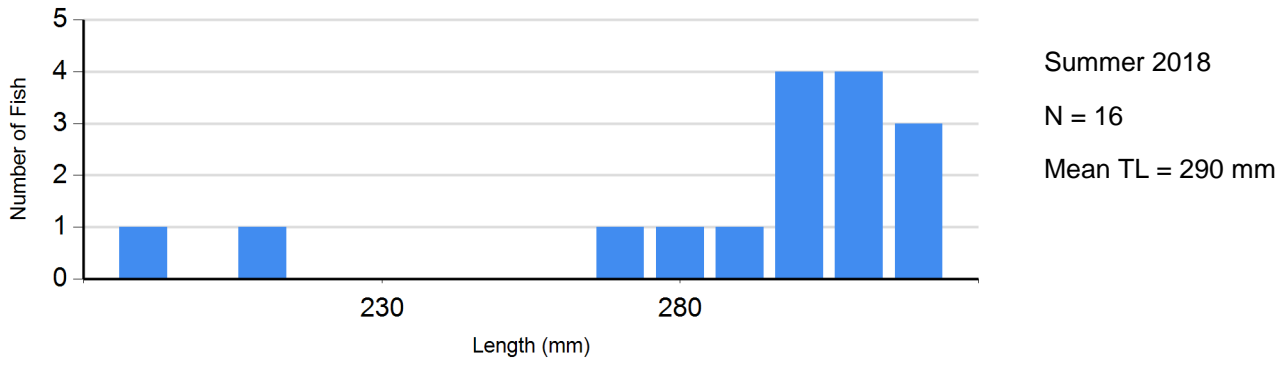


Figure 1b. Length frequency of angler-harvested Bluegill measured by the creel clerk during creel surveys on Clear.

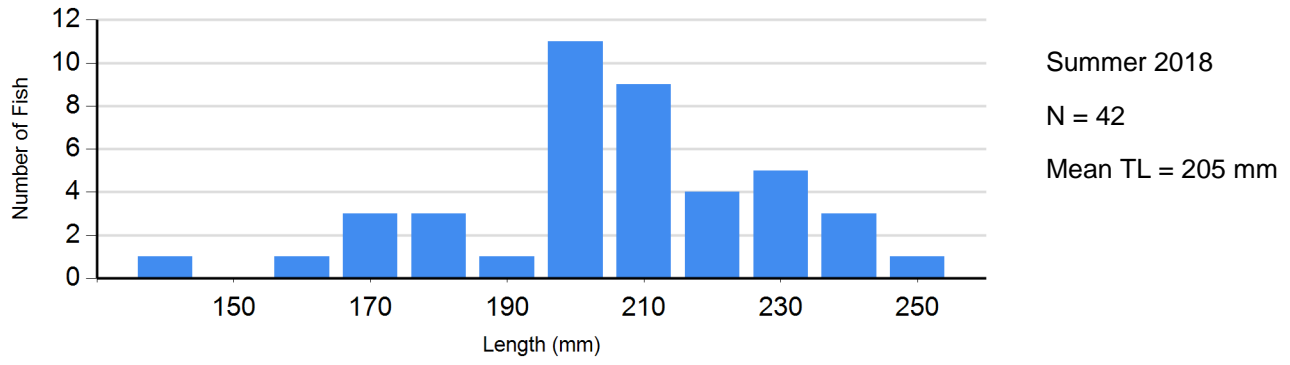


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Clear, South Dakota between May 2018 and August 2019.

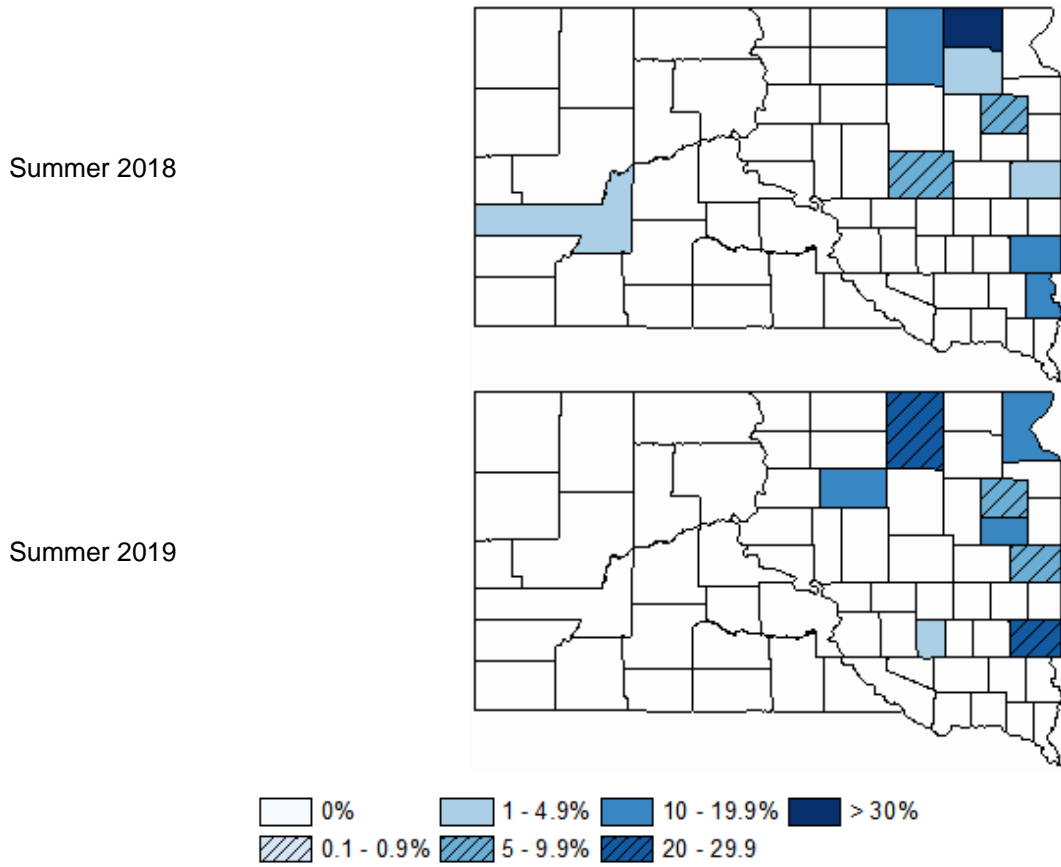


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

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

Angler Harvest	Counts				
	BLC (n=37)	BLG (n=37)	LMB (n=37)	SMB (n=37)	WAE (n=37)
0.00	32	31	37	36	36
0.33	0	1	0	0	1
0.40	1	0	0	0	0
0.50	1	0	0	0	0
0.80	0	1	0	0	0
1.00	1	0	0	0	0
1.50	0	0	0	1	0
3.00	1	0	0	0	0
4.00	0	1	0	0	0
5.00	0	1	0	0	0
6.00	1	0	0	0	0
6.67	0	1	0	0	0
15.00	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 Clear.

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

Response	Summer 2019 (n = 22)
Very Satisfied	36%
Moderately Satisfied	14%
Slightly Satisfied	23%
Neutral/No Opinion	14%
Slightly Dissatisfied	9%
Moderately Dissatisfied	5%