

Creel and Lake Information

Lake Information

Lake Name: Iron Creek Lake
Lake Code: RED-Lake-8-000
Surface Area: 9.28 Hectares
County: Lawrence
Start Date: 5/31/2019
End Date: 9/23/2019
Months Included: May, June, July, August, September

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Iron Creek Lake during 2018 - 2019. Any Species (ANY), Black Crappie (BLC), Largemouth Bass (LMB), Rainbow Trout (RBT), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting				
			ANY	BLC	LMB	RBT	YEP
2019	May	6	0.0	16.7	0.0	83.3	0.0
	June	106	26.4	2.8	3.8	67.0	0.0
	July	92	21.7	0.0	3.3	73.9	1.1
	August	35	14.3	0.0	0.0	85.7	0.0
	September	4	25.0	0.0	0.0	75.0	0.0
	Overall	243	22.2	1.6	2.9	72.8	0.4

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 Iron Creek Lake (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2019	May	6	2,201	694	3.17	2.33	100.00	17	0
	June	106	3,050 (484)	1,245	2.45 (0.39)	2.39 (0.39)	74.53	16	54
	July	92	3,417 (604)	1,479	2.31 (0.36)	2.73 (0.40)	70.65	8	27
	August	35	1,429 (450)	611	2.34 (0.49)	2.36 (0.40)	82.86	3	49
	September	4	363 (465)	123	2.94	1.50	75.00	0	0
	Overall	243	10,459 (1,009)	4,054	2.58 (0.17)	2.32 (0.16)	74.90	11	41

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

Lake	Month					Total
	May	June	July	August	September	
Iron Creek Lake (Lawrence)	2,201	3,050 (484)	3,417 (604)	1,429 (450)	363 (465)	10,459 (1,009)

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

Species	Month					Total
	May	June	July	August	September	
Black Crappie	0	32 (44)	128	0	0	160 (44)
Largemouth Bass	0	4 (5)	0	4 (6)	0	9 (8)
Rainbow Trout	120	1,019 (355)	2,274 (188)	434 (220)	139	3,986 (458)
Yellow Perch	160	62 (60)	266 (8)	4 (4)	0	493 (61)
Total	280	1,118 (464)	2,668 (196)	443 (231)	139	4,648 (571)

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

Year	Month	BLC	LMB	RBT	YEP
		C/h	C/h	C/h	C/h
2019	May	0.00	0.02	0.05	0.18
	June	0.12	0.05 (0.02)	0.78 (0.41)	0.21 (0.10)
	July	0.06 (0.06)	0.04 (0.03)	1.07 (0.54)	0.14 (0.05)
	August	0.02	0.01 (0.02)	0.63 (0.47)	0.22 (0.11)
	September	0.00	0.00	0.38	0.00
	Overall	0.06 (0.02)	0.03 (0.01)	0.69 (0.20)	0.17 (0.04)

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

Year	Month	BLC	LMB	RBT	YEP
		H/h	H/h	H/h	H/h
2019	May	0.00	0.00	0.05	0.07
	June	0.01 (0.01)	<0.01 (<0.01)	0.33 (0.13)	0.02 (0.02)
	July	0.04 (<0.01)	0.00	0.67 (0.32)	0.08 (0.01)
	August	0.00	<0.01 (<0.01)	0.30 (0.30)	<0.01 (<0.01)
	September	0.00	0.00	0.38	0.00
	Overall	0.02 (<0.01)	<0.01 (<0.01)	0.38 (0.10)	0.05 (<0.01)

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

Year	Month	BLC	LMB	RBT	YEP
		C/h	C/h	C/h	C/h
2019	May	0.00	0.00	0.10	0.00
	June	2.45	0.16 (0.46)	0.91 (0.36)	0.00
	July	0.00	0.08 (0.31)	0.91 (0.39)	0.00
	August	0.00	0.00	0.74 (0.84)	0.00
	September	0.00	0.00	0.43	0.00
	Overall	1.41	0.12 (0.27)	0.77 (0.21)	0.00

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

Year	Month	BLC	LMB	RBT	YEP
		H/h	H/h	H/h	H/h
2019	May	0.00	0.00	0.10	0.00
	June	0.40	0.00	0.47 (0.28)	0.00
	July	0.00	0.00	0.65 (0.25)	0.00
	August	0.00	0.00	0.42 (0.65)	0.00
	September	0.00	0.00	0.43	0.00
	Overall	0.23	0.00	0.48 (0.16)	0.00

Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Iron Creek Lake (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Largemouth Bass (LMB), Rainbow Trout (RBT), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	LMB	RBT	YEP
		C	C	C	C
2019	May	0	40	120	400
	June	352 (184)	138 (54)	2,388 (1,133)	648 (261)
	July	208 (72)	153 (65)	3,660 (775)	471 (127)
	August	35	20 (17)	901 (351)	310 (60)
	September	0	0	139	0
	Overall	595 (198)	351 (87)	7,208 (1,417)	1,829 (296)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Iron Creek Lake (80% confidence interval). Abbreviations for species are as follows: Black Crappie (BLC), Largemouth Bass (LMB), Rainbow Trout (RBT), Yellow Perch (YEP) and other species (Other).

Year	Month	BLC	LMB	RBT	YEP
		H	H	H	H
2019	May	0	0	120	160
	June	32 (44)	4 (5)	1,019 (355)	62 (60)
	July	128	0	2,274 (188)	266 (8)
	August	0	4 (6)	434 (220)	4 (4)
	September	0	0	139	0
	Overall	160 (44)	9 (8)	3,986 (458)	493 (61)

Table 8. Estimated number and rate (number per hour) of Black Crappie (BLC), Largemouth Bass (LMB), Rainbow Trout (RBT), Yellow Perch (YEP) caught and harvested by anglers during the summer and winter fisheries on Iron Creek Lake, (80% confidence interval).

Black Crappie

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	595 (198)	160 (44)	0.06 (0.02)	0.02 (<0.01)

Largemouth Bass

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	351 (87)	9 (8)	0.03 (0.01)	<0.01 (<0.01)

Rainbow Trout

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2014	0	0	0.00	0.00
Summer	2019	7,208 (1,417)	3,986 (458)	0.69 (0.20)	0.38 (0.10)

Yellow Perch

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2013	0	0	0.00	0.00
Summer	2019	1,829 (296)	493 (61)	0.17 (0.04)	0.05 (<0.01)

Table 9. The number of fish harvested with each species by length group (mm) for the winter and summer fisheries at Iron Creek Lake. Abbreviations for species are as follows: Black Crappie (BLC), Largemouth Bass (LMB), Rainbow Trout (RBT), Yellow Perch (YEP).

Summer 2019				
Length Group (mm)	BLC (N=0)	LMB (N=0)	RBT (N=590)	YEP (N=0)
30			4	
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220			1	
230				
240			1	
250				
260			2	
270			3	
280			6	
290			6	
300			19	
310			32	
320			46	
330			62	
340			87	
350			79	
360			59	
370			67	
380			41	
390			24	
400			29	
410			13	
420			5	
430			4	

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

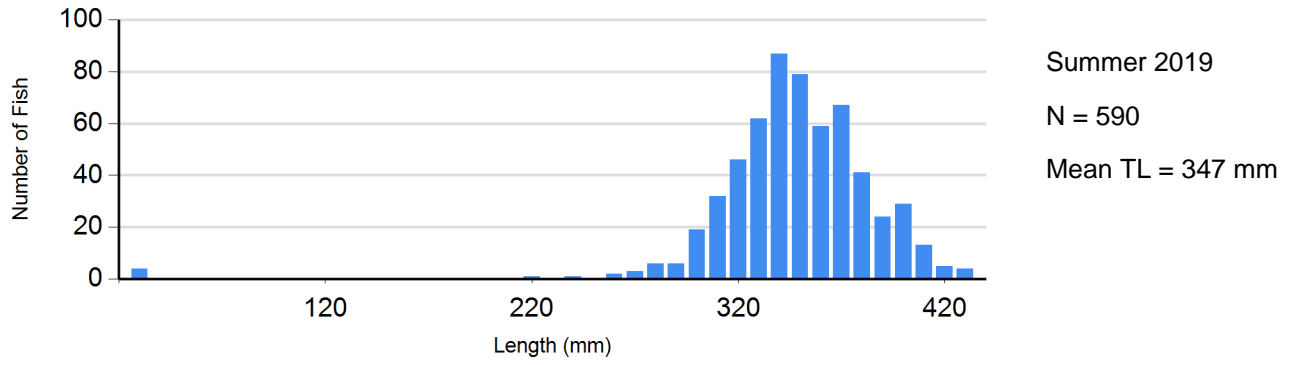


Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Iron Creek Lake, South Dakota between May 2019 and September 2019.

Summer 2019

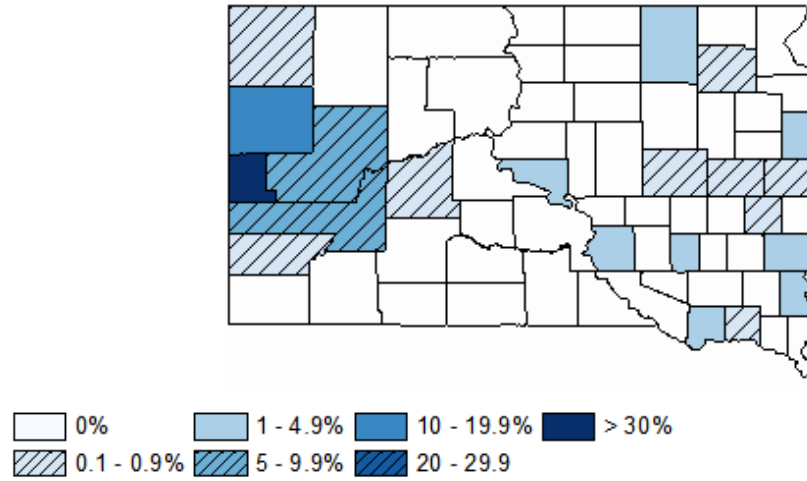


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts			
	BLC (n=243)	LMB (n=243)	RBT (n=243)	YEP (n=243)
0.00	241	241	133	234
0.14	0	0	1	0
0.17	0	0	1	0
0.20	0	0	1	0
0.25	0	1	2	0
0.33	0	0	0	1
0.40	0	0	0	1
0.50	0	1	8	3
0.60	0	0	0	1
0.67	0	0	1	0
0.80	0	0	1	0
1.00	1	0	13	1
1.17	0	0	1	0
1.25	0	0	1	0
1.33	0	0	2	0
1.50	0	0	11	0
1.60	0	0	1	0
1.67	0	0	2	0
2.00	0	0	6	1
2.50	0	0	9	0
2.67	0	0	1	0
2.75	0	0	1	0
3.00	0	0	5	0
3.25	0	0	1	0
3.33	0	0	1	0
3.50	0	0	4	0
4.00	0	0	13	0
4.50	1	0	1	0
4.67	0	0	1	0
5.00	0	0	19	1
5.33	0	0	1	0
6.00	0	0	1	0

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

Question: What is the method of angling?

Response	Summer 2019 (n = 242)
Bait	69%
Fly	9%
Spin	22%

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

Response	Summer 2019 (n = 242)
Very Satisfied	71%
Moderately Satisfied	19%
Slightly Satisfied	5%
Neutral/No Opinion	3%
Slightly Dissatisfied	2%
Very Dissatisfied	1%

Question: How many trout did you release today that swallowed the hook?

Response	Summer 2019 (n = 242)
>5	0%
0	93%
1	5%
2	1%

Question: For the released fish in the previous question, how many fish did you release by cutting your line?

Response	Summer 2019 (n = 242)
0	95%
1	4%
2	0%
3	0%

Question: Are you camping at the lake?

Response	Summer 2019 (n = 242)
No	85%
Yes	15%