

# Creel and Lake Information

## Lake Information

**Lake Name:** Belle Fourche Reservoir

**Lake Code:** LBF-Lake-768-000

**Surface Area:** 2,658.83 Hectares

**County:** Butte

**Start Date:** 5/13/2018

**End Date:** 10/30/2018

**Months Included:** May, June, July, September

Table 1. Percent of angling parties interviewed primarily targeting a species (or any species) by month and overall for Belle Fourche Reservoir during 2017 - 2018. Any Species (ANY), Channel Catfish (CCF), Walleye (WAE).

Year	Month	# of Interviews	Percent of Anglers Targeting		
			ANY	CCF	WAE
2018	May	45	11.1	2.2	86.7
	June	52	11.5	0.0	88.5
	July	30	43.3	0.0	56.7
	September	22	27.3	0.0	72.7
	Overall	149	20.1	0.7	79.2

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 Belle Fourche Reservoir (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2018	May	45	15,257 (4,310)	3,033	5.03	2.29 (0.49)	93.33	71	53
	June	52	13,863 (4,835)	2,651	5.23	2.16	82.69	100	29
	July	30	14,508 (3,454)	4,680	3.10	2.70	96.67	100	70
	September	22	2,872 (1,174)	648	4.43	1.50	100.00	100	86
	Overall	149	46,500 (7,434)	10,473	4.44	2.17 (0.12)	91.28	91	53

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

Lake	Month					Total
	May	June	July	August	September	
Belle Fourche Reservoir (Butte)	15,257 (4,310)	13,863 (4,835)	14,508 (3,454)	3,496 (2,284)	2,872 (1,174)	49,997 (7,777)

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

Species	Month			Total
	May	June	July	
Channel Catfish	0	0	0	0
Walleye	3,366 (993)	4,252 (1,627)	2,402 (1,470)	10,020 (2,407)
Total	3,366 (993)	4,252 (1,627)	2,402 (1,470)	10,020 (2,407)

Table 5a. Estimated monthly and overall angler catch rate per hour fished (C/h) for all anglers by species at Belle Fourche Reservoir (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE) and other species (Other).

Year	Month	CCF	WAE
		C/h	C/h
2018	May	0.00	0.75 (0.44)
	June	0.00	0.84 (0.57)
	July	0.00	0.67 (0.38)
	September	0.01 (0.02)	0.01 (<0.01)
	Overall	<0.01 (<0.01)	0.71 (0.24)

Table 5b. Estimated monthly and overall angler harvest rate per hour fished (H/h) for all anglers by species at Belle Fourche Reservoir (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE) and other species (Other).

Year	Month	CCF	WAE
		H/h	H/h
2018	May	0.00	0.22 (0.11)
	June	0.00	0.31 (0.20)
	July	0.00	0.17 (0.11)
	September	0.00	0.00
	Overall	0.00	0.22 (0.07)

Table 6a. Estimated monthly and overall angler catch rate per hour fished (C/h) only for anglers primarily targeting a species at Belle Fourche Reservoir. (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE) and Other Species (Other).

Year	Month	CCF	WAE
		C/h	C/h
2018	May	0.00	0.80 (0.15)
	June	0.00	0.92 (1.59)
	July	0.00	1.18 (1.02)
	September	0.00	0.00
	Overall	0.00	0.74 (0.41)

Table 6b. Estimated monthly and overall angler harvest rate per hour fished (H/h) only for anglers primarily targeting a species at Belle Fourche Reservoir. (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE) and Other Species (Other).

Year	Month	CCF	WAE
		H/h	H/h
2018	May	0.00	0.24 (0.09)
	June	0.00	0.35 (0.34)
	July	0.00	0.32 (0.45)
	September	0.00	0.00
	Overall	0.00	0.23 (0.13)



Table 7a. Estimated monthly and overall angler catch (C) for all anglers by species at Belle Fourche Reservoir (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE) and other species (Other).

Year	Month	CCF	WAE
		C	C
2018	May	0	11,452 (3,743)
	June	0	11,711 (4,993)
	July	0	9,760 (4,494)
	September	32 (42)	16 (21)
	Overall	32 (42)	32,940 (7,690)

Table 7b. Estimated monthly and overall angler harvest (H) for all anglers by species at Belle Fourche Reservoir (80% confidence interval). Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE) and other species (Other).

Year	Month	CCF	WAE
		H	H
2018	May	0	3,366 (993)
	June	0	4,252 (1,627)
	July	0	2,402 (1,470)
	September	0	0
	Overall	0	10,020 (2,407)

Table 8. Estimated number and rate (number per hour) of Channel Catfish (CCF), Walleye (WAE) caught and harvested by anglers during the summer and winter fisheries on Belle Fourche Reservoir, (80% confidence interval).

**Channel Catfish**

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2009	1,238 (392)	781 (287)	0.01 (<0.01)	0.01 (<0.01)
Summer	2010	86 (53)	62 (48)	0.01 (<0.01)	0.01 (<0.01)
Summer	2012	695 (441)	563 (431)	0.01 (<0.01)	0.01 (<0.01)
Summer	2018	32 (42)	0	<0.01 (<0.01)	0.00
Winter	2009-2010	6 (5)	6 (4)	<0.01 (<0.01)	<0.01 (<0.01)

**Walleye**

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2009	39,144 (5,011)	12,706 (1,693)	0.35 (0.08)	0.11 (0.03)
Summer	2010	1,173 (450)	223 (89)	0.10 (0.05)	0.02 (<0.01)
Summer	2012	16,957 (2,339)	7,328 (945)	0.29 (0.07)	0.13 (0.03)
Summer	2018	32,940 (7,690)	10,020 (2,407)	0.71 (0.24)	0.22 (0.07)
Winter	2009-2010	220 (71)	108 (56)	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 Belle Fourche Reservoir. Abbreviations for species are as follows: Channel Catfish (CCF), Walleye (WAE).

<b>Summer 2018</b>		
Length Group (mm)	CCF (N=0)	WAE (N=9)
360		1
370		3
380		
390		
400		
410		
420		
430		
440		1
450		
460		1
470		
480		3

Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Belle Fourche Reservoir, South Dakota between May 2018 and October 2018.

Summer 2018

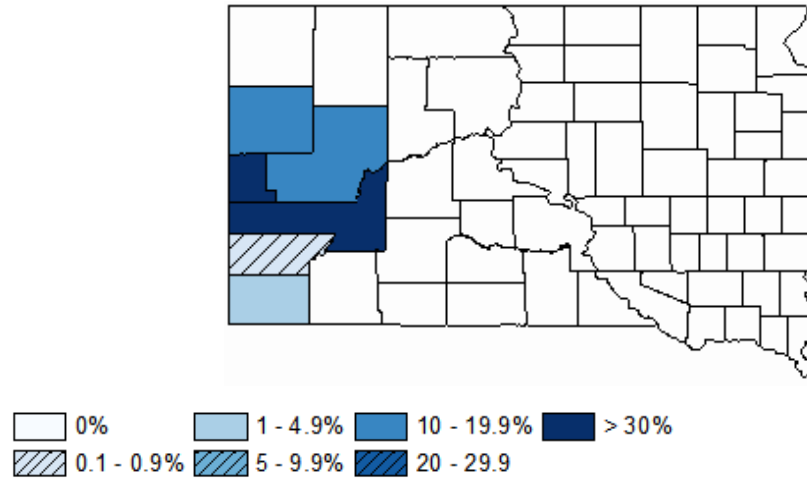


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Summer 2018 Angler Harvest	Counts	
	CCF (n=149)	WAE (n=149)
0.00	149	75
0.25	0	1
0.33	0	3
0.50	0	3
0.67	0	4
0.75	0	1
1.00	0	13
1.33	0	4
1.50	0	5
1.67	0	3
2.00	0	8
2.33	0	1
2.50	0	3
3.00	0	6
3.33	0	1
3.50	0	2
3.67	0	1
4.00	0	9
4.33	0	1
5.00	0	3
7.00	0	1
8.00	0	1

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

Question: What is the method of angling?

Response	Summer 2018 (n = 149)
Bait	91%
Spin	9%

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

Response	Summer 2018 (n = 149)
Very Satisfied	26%
Moderately Satisfied	34%
Slightly Satisfied	18%
Neutral/No Opinion	7%
Slightly Dissatisfied	9%
Moderately Dissatisfied	4%
Very Dissatisfied	1%