

# Creel and Lake Information

## Lake Information

**Lake Name:** Bismark  
**Lake Code:** MCS-Lake-7-000  
**Surface Area:** 9.69 Hectares  
**County:** Custer  
**Start Date:** 5/15/2019  
**End Date:** 9/20/2019  
**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 Bismark during 2018 - 2019. Any Species (ANY), Largemouth Bass (LMB), Rainbow Trout (RBT), Smallmouth Bass (SMB), Yellow Perch (YEP).

Year	Month	# of Interviews	Percent of Anglers Targeting				
			ANY	LMB	RBT	SMB	YEP
2019	May	32	21.9	3.1	68.8	6.3	0.0
	June	114	19.3	0.0	73.7	6.1	0.9
	July	88	27.3	0.0	67.0	4.5	1.1
	August	32	28.1	0.0	71.9	0.0	0.0
	September	4	0.0	0.0	100.0	0.0	0.0
	Overall	270	23.0	0.4	71.1	4.8	0.7

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 Bismark (80% confidence interval).

Year	Month	# Interviews	Angler Hours	Angler Days	Trip Length (h)	Party Size	% SD Residents	% Boat or Shack	% Weekend/Holidays
2019	May	32	2,564 (1,611)	1,232	2.08 (0.48)	1.76 (0.41)	78.13	25	50
	June	114	2,348 (447)	1,290	1.82 (0.23)	1.97 (0.28)	69.30	18	46
	July	88	2,720 (326)	1,447	1.88 (0.34)	2.47 (0.38)	69.32	16	47
	August	32	993 (275)	644	1.54 (0.22)	1.71 (0.33)	65.63	22	44
	September	4	79 (101)	83	0.95	2.00	50.00	0	75
	Overall	270	8,703 (1,728)	5,243	1.66 (0.13)	1.98 (0.14)	69.63	18	47

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

Lake	Month					Total
	May	June	July	August	September	
Bismark (Custer)	2,564 (1,611)	2,348 (447)	2,720 (326)	993 (275)	79 (101)	8,703 (1,728)

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

Species	Month				Total
	May	June	July	August	
Largemouth Bass	0	0	0	0	0
Rainbow Trout	807 (634)	1,055 (324)	1,262 (478)	231 (130)	3,355 (868)
Smallmouth Bass	0	10 (13)	7 (8)	0	16 (16)
Yellow Perch	0	0	0	0	0
Total	807 (634)	1,065 (337)	1,268 (486)	231 (130)	3,371 (883)

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

Year	Month	LMB	RBT	SMB	YEP
		C/h	C/h	C/h	C/h
2019	May	0.00	2.43 (2.83)	0.00	0.02 (0.03)
	June	<0.01 (0.01)	1.67 (0.82)	0.15	0.22
	July	0.01 (<0.01)	0.81 (0.31)	0.03 (0.02)	0.08 (0.04)
	August	0.00	0.62 (0.59)	0.03 (0.03)	0.07 (0.06)
	September	0.00	0.00	0.00	0.00
	Overall	<0.01 (<0.01)	1.49 (0.71)	0.05	0.10 (0.02)

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

Year	Month	LMB	RBT	SMB	YEP
		H/h	H/h	H/h	H/h
2019	May	0.00	0.31 (0.45)	0.00	0.00
	June	0.00	0.45 (0.21)	<0.01 (<0.01)	0.00
	July	0.00	0.46 (0.22)	<0.01 (<0.01)	0.00
	August	0.00	0.23 (0.35)	0.00	0.00
	September	0.00	0.00	0.00	0.00
	Overall	0.00	0.39 (0.18)	<0.01 (<0.01)	0.00

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

Year	Month	LMB	RBT	SMB	YEP
		C/h	C/h	C/h	C/h
2019	May	0.00	2.74 (1.86)	0.00	0.00
	June	0.00	1.69 (0.49)	0.17 (0.17)	0.00
	July	0.00	0.96 (0.22)	0.18 (0.43)	0.00
	August	0.00	0.89 (0.73)	0.00	0.00
	September	0.00	0.63	0.00	0.00
	Overall	0.00	1.50 (0.45)	0.11 (0.10)	0.00

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

Year	Month	LMB	RBT	SMB	YEP
		H/h	H/h	H/h	H/h
2019	May	0.00	0.27 (0.19)	0.00	0.00
	June	0.00	0.60 (0.12)	0.00	0.00
	July	0.00	0.61 (0.25)	0.00	0.00
	August	0.00	0.51 (0.36)	0.00	0.00
	September	0.00	0.19	0.00	0.00
	Overall	0.00	0.48 (0.10)	0.00	0.00



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

Year	Month	LMB	RBT	SMB	YEP
		C	C	C	C
2019	May	0	6,238 (3,284)	0	39 (61)
	June	10 (9)	3,916 (987)	360	518 (304)
	July	26 (22)	2,193 (580)	78 (38)	225 (90)
	August	0	617 (224)	31 (27)	71 (61)
	September	0	0	0	0
	Overall	36 (24)	12,963 (3,485)	469	854 (329)

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

Year	Month	LMB	RBT	SMB	YEP
		H	H	H	H
2019	May	0	807 (634)	0	0
	June	0	1,055 (324)	10 (13)	0
	July	0	1,262 (478)	7 (8)	0
	August	0	231 (130)	0	0
	September	0	0	0	0
	Overall	0	3,355 (868)	16 (16)	0

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

**Largemouth Bass**

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2019	36 (24)	0	<0.01 (<0.01)	0.00

**Rainbow Trout**

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2014	0	0	0.00	0.00
Summer	2015	1,412 (853)	1,032 (343)	0.34 (0.28)	0.25 (0.12)
Summer	2019	12,963 (3,485)	3,355 (868)	1.49 (0.71)	0.39 (0.18)
Winter	2013-2014	0	0	0.00	0.00

**Smallmouth Bass**

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2015	47 (36)	0	0.01 (<0.01)	0.00
Summer	2019	469	16 (16)	0.05	<0.01 (<0.01)

**Yellow Perch**

Season	Year	Catch	Harvest	Catch Rate	Harvest Rate
Summer	2014	0	0	0.00	0.00
Summer	2019	854 (329)	0	0.10 (0.02)	0.00

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

<b>Summer 2019</b>				
Length Group (mm)	LMB (N=0)	RBT (N=448)	SMB (N=2)	YEP (N=0)
200		1		
210		1		
220		1		
230		5		
240		5		
250		20		
260		39		
270		66		
280		69		
290		79	1	
300		63		
310		44		
320		27		
330		14		
340		7		
350		2		
360		2	1	
370		1		
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390		1		
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Figure 1a. Length frequency of angler-harvested Rainbow Trout measured by the creel clerk during creel surveys on Bismark.

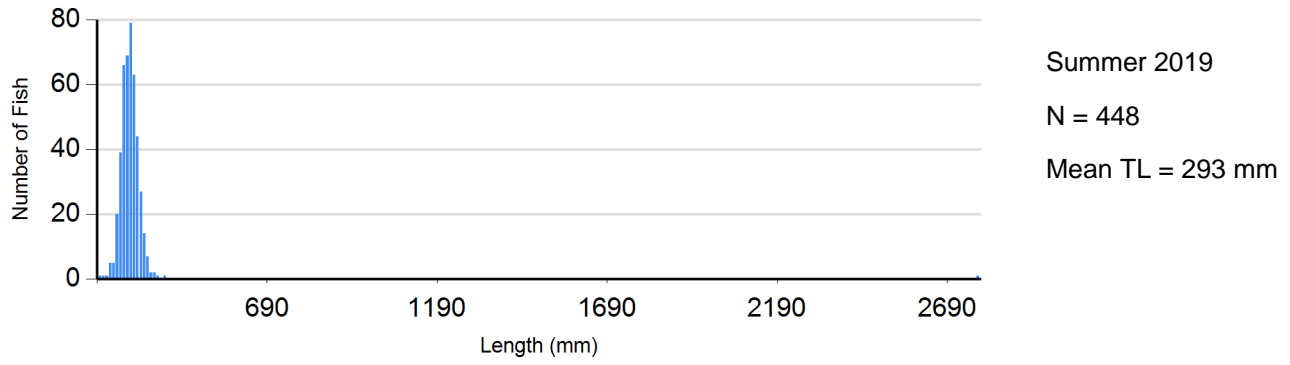




Figure 2. South Dakota county of residence for winter and summer resident anglers fishing Bismark, South Dakota between May 2019 and September 2019.

Summer 2019

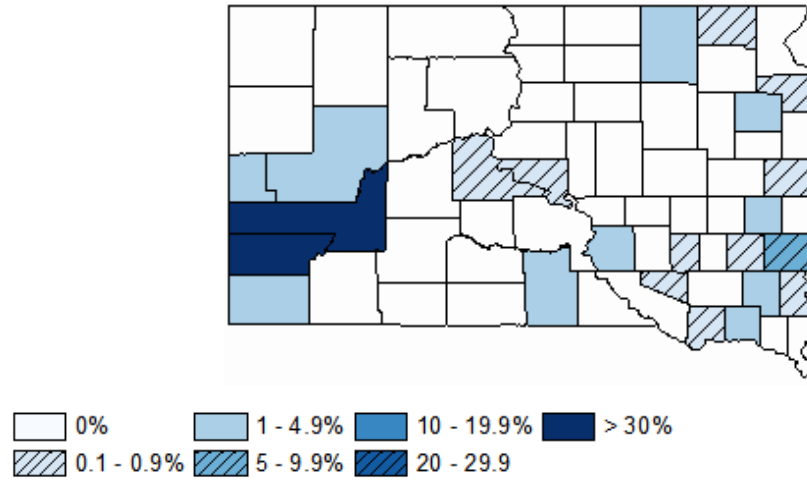


Table 10. Number of parties interviewed that harvested (or caught) a specified number of fish totaled over selected strata for a species.

Angler Harvest	Counts			
	LMB (n=270)	RBT (n=270)	SMB (n=270)	YEP (n=270)
0.00	270	172	268	270
0.17	0	1	0	0
0.25	0	1	0	0
0.33	0	3	2	0
0.50	0	9	0	0
0.67	0	5	0	0
0.75	0	1	0	0
1.00	0	15	0	0
1.33	0	2	0	0
1.50	0	7	0	0
1.67	0	4	0	0
1.83	0	1	0	0
2.00	0	10	0	0
2.25	0	1	0	0
2.33	0	2	0	0
2.50	0	8	0	0
3.00	0	9	0	0
3.50	0	2	0	0
4.00	0	6	0	0
4.29	0	3	0	0
4.33	0	1	0	0
4.50	0	1	0	0
5.00	0	6	0	0

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

Question: What is the method of angling?

Response	Summer 2019 (n = 270)
Bait	62%
Fly	9%
Spin	29%

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

Response	Summer 2019 (n = 270)
Very Satisfied	56%
Moderately Satisfied	18%
Slightly Satisfied	13%
Neutral/No Opinion	6%
Slightly Dissatisfied	5%
Moderately Dissatisfied	1%
Very Dissatisfied	1%

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

Response	Summer 2019 (n = 270)
>5	2%
0	84%
1	9%
2	2%
3	1%
4	1%

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

Response	Summer 2019 (n = 270)
>5	1%
0	88%
1	7%
2	2%
3	1%
4	1%

Question: Are you camping at the lake?

Response	Summer 2019 (n = 270)
No	88%
Yes	12%