

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Grizzly Bear Creek, Custer County
21-0016-00
2018

Table 1. Population and Biomass Estimates for Grizzly Bear Creek

Site Number: 41

Site Midpoint (Latitude, Longitude): 43.87710125, -103.43943546

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3

Date Sampled: 05/11/2018

Site Length (m): 100

Mean Width (m): 4.6

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

Voltage:

300

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	75	78	83	75	1699	35	780	688	31.66	1255	104.0	20.9
Brook Trout	>=200mm	2	2	2	2	44	4	20	18	3.21	32	216.0	82.5
Brook Trout	All	108	111	116	108	2418	58	1110	979	51.55	1786	106.9	23.9
Longnose Dace	All	10	11	16	10	240	2	110	97	1.71	177	69.4	8.0

Stream sites are classified based on the estimates of adult trout over eight inches that exist within the site. Estimates are derived from 3-pass backpack electrofishing surveys at 100-meter sites within streams. While all fish in the site are collected and measured, only trout species are used for classifications. Sites are numbered in accordance for the distance (m) from the stream confluence of a higher order stream/river.

Based on number of trout in excess of eight inches	
Class BR1	Number of wild Brown Trout exceeds 150 per acre
Class BR2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BR3	Number of wild Brown Trout is less than 25 per acre
Class BK1	Number of wild Brook Trout exceeds 150 per acre
Class BK2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BK3	Number of wild Brook Trout is less than 25 per acre
Class RB1	Number of wild Rainbow Trout exceeds 25 per acre
Class RB2	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Grizzly Bear Creek, 2008-2018

Site 41

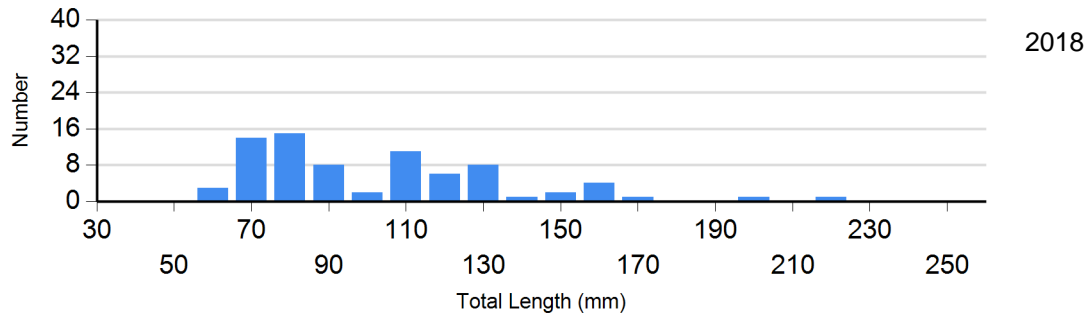
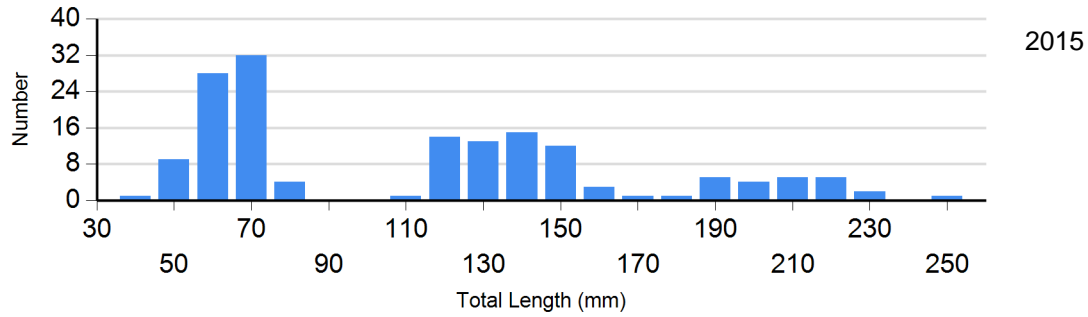
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2009	6	6-6	
	Aug 04, 2015	139	139-140	
	May 11, 2018	78	75-83	
Brook Trout >=200mm	Aug 04, 2015	17	17-17	BK1
	May 11, 2018	2	2-2	BK3
Longnose Dace	May 19, 2009	16	16-16	
	Aug 04, 2015	24	24-24	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

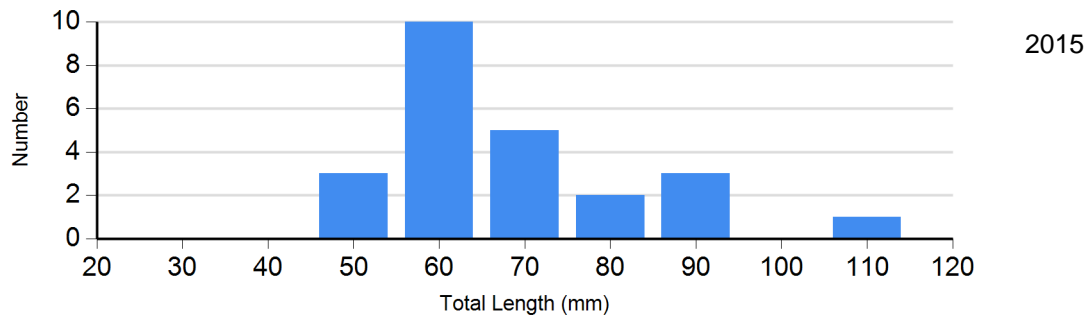
Site: 41

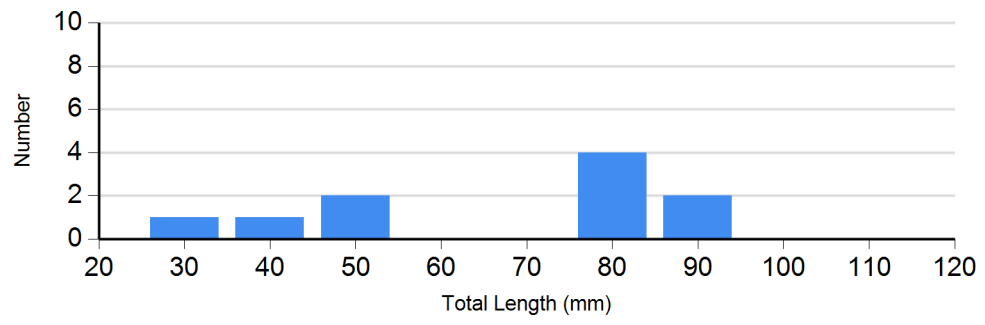
Species: Brook Trout



Site: 41

Species: Longnose Dace





2018