

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Bear Butte Creek (unnamed trib 2), Lawrence County
10120202002970
All Years

Table 1. Population and Biomass Estimates for Bear Butte Creek (unnamed trib 2)

Site Number: 35	Date Sampled: 08/18/2014	Conductivity (umhos/cm): 56
Site Midpoint (Latitude, Longitude): 44.30485386, -103.70867874	Site Length (m): 100	pH: 7.8
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.1	Water Temperature (C): 16.5
Stream Classification: BK2	Number of Pass: 1	Voltage: 450

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	8	8	8	8	752	45	80	305	40.20	129	159.5	59.9
Brook Trout	>=200mm	2	2	2	2	188	23	20	76	20.48	32	212.0	122.0
Brook Trout	All	10	10	10	10	940	69	100	381	61.84	161	170.0	73.7
Longnose Dace	All	129	129	129	129	12128	139	1290	4912	124.53	2076	72.5	11.5
Rock Bass	All	1	1	1	1	94	2	10	38	1.51	16	92.0	18.0
White Sucker	All	1	1	1	1	94	5	10	38	4.03	16	158.0	48.0

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 Bear Butte Creek (unnamed trib 2), 2004-2014

Site 35

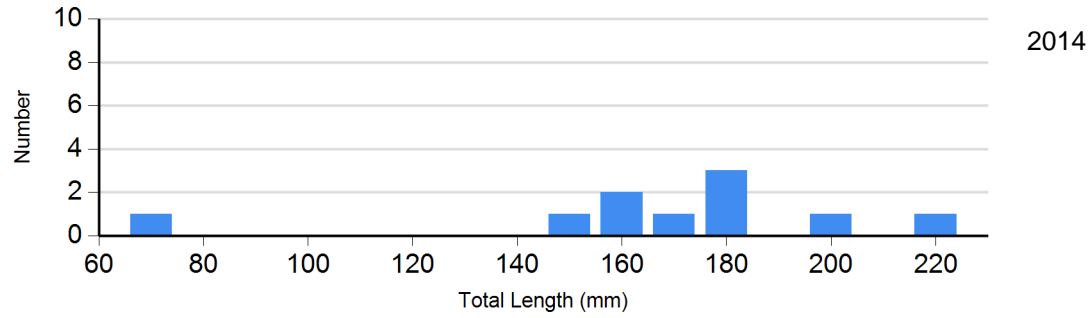
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 18, 2014	8	8-8	
Brook Trout >=200mm	Aug 18, 2014	2	2-2	BK2
Longnose Dace	Aug 18, 2014	129	129-129	
Rock Bass	Aug 18, 2014	1	1-1	
White Sucker	Aug 18, 2014	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 35

Species: Brook Trout



Site: 35

Species: Longnose Dace

