

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Beaver Creek (Law. Co.), Lawrence County
10120203000724
2015

Table 1. Population and Biomass Estimates for Beaver Creek (Law. Co.)

Site Number: 234	Date Sampled: 06/02/2015	Conductivity (umhos/cm): 221
Site Midpoint (Latitude, Longitude): 44.37866611, -104.00672610	Site Length (m): 100	pH: 7.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.5	Water Temperature (C):
Stream Classification: BK2	Number of Pass: 3	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	122	185	253	122	4078	98	1850	1652	87.62	2977	117.4	24.1
Brook Trout	>=200mm	8	8	9	8	176	20	80	71	17.69	129	213.8	112.4
Brook Trout	All	130	186	242	130	4100	123	1860	1661	109.65	2993	123.3	30.0
Longnose Dace	All	31	101	401	31	2226	42	1010	902	37.77	1625	74.6	19.0

Site Number: 289	Date Sampled: 09/16/2015	Conductivity (umhos/cm): 377
Site Midpoint (Latitude, Longitude): 44.35171724, -104.02273331	Site Length (m): 77	pH: 8.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 0.9	Water Temperature (C): 17.5
Stream Classification: BK1	Number of Pass: 3	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	87	100	115	87	10680	370	1299	4325	330.57	2090	112.9	34.7
Brook Trout	>=200mm	7	7	7	7	748	75	91	303	67.23	146	217.0	100.7
Brook Trout	All	125	130	137	125	13883	592	1688	5623	528.55	2716	120.6	42.6

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 Beaver Creek (Law. Co.), 2005-2015

Site 234

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 10, 2008	94	94-94	
	Jun 02, 2015	185	122-253	
Brook Trout >=200mm	Jul 10, 2008	3	3-3	BK2
	Jun 02, 2015	8	8-9	BK2
Longnose Dace	Jun 02, 2015	101	31-401	

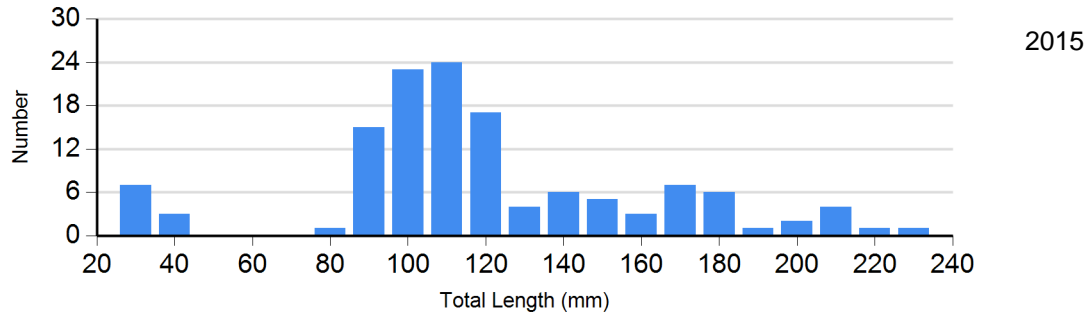
Site 289

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 16, 2015	100	87-115	

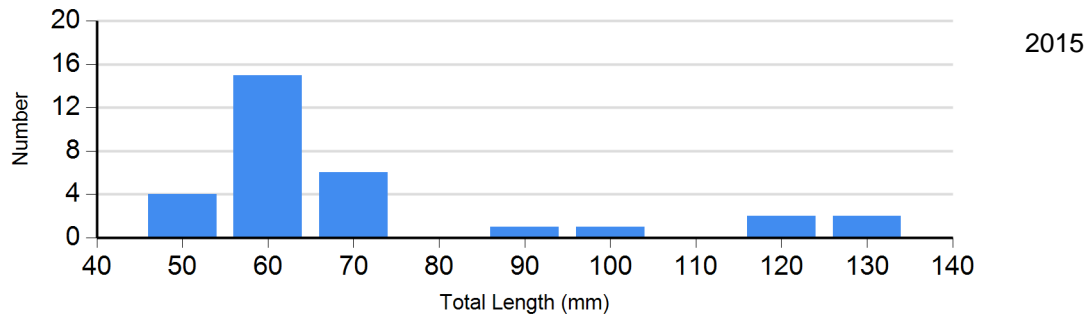
Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 234
Species: Brook Trout



Site: 234
Species: Longnose Dace



Site: 289
Species: Brook Trout

