

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Pole Creek, Pennington County
02-9209-00
2014

Table 1. Population and Biomass Estimates for Pole Creek

Site Number: 3	Date Sampled: 06/24/2014	Conductivity (umhos/cm): 437
Site Midpoint (Latitude, Longitude): 43.97857014, -103.86292474	Site Length (m): 100	pH: 8.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.1	Water Temperature (C): 9.0
Stream Classification: BK0	Number of Pass: 1	Voltage: 240

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	26	26	26	26	2306	46	260	934	41.03	418	119.2	19.9
Brook Trout	All	26	26	26	26	2306	46	260	934	41.03	418	119.2	19.9

Site Number: 10	Date Sampled: 06/24/2014	Conductivity (umhos/cm): 442
Site Midpoint (Latitude, Longitude): 43.97344756, -103.86675249	Site Length (m): 100	pH: 8.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.8	Water Temperature (C): 7.0
Stream Classification: BK3	Number of Pass: 3	Voltage: 240

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	25	25	27	25	1425	59	250	577	53.08	402	142.2	41.7
Brook Trout	>=200mm	1	1	1	1	57	5	10	23	4.89	16	203.0	96.0
Brook Trout	All	26	26	28	26	1482	65	260	600	57.96	418	144.5	43.8

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 Pole Creek, 2004-2014

Site 3

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 24, 2014	26	26-26	

Site 10

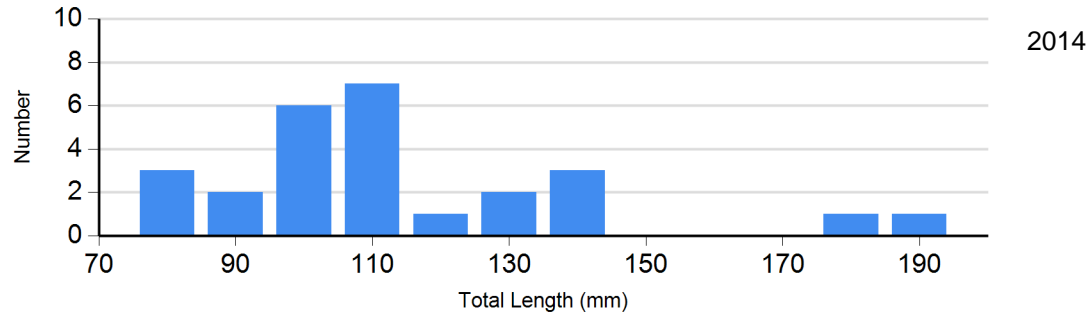
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 24, 2014	25	25-27	
Brook Trout >=200mm	Jun 24, 2014	1	1-1	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 3

Species: Brook Trout



Site: 10

Species: Brook Trout

