

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Spokane Creek, Custer County
21-0024-00
All Years

Table 1. Population and Biomass Estimates for Spokane Creek

Site Number: 100	Date Sampled: 07/01/2015	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 43.82347209, -103.36242660	Site Length (m): 100	pH: 7.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.9	Water Temperature (C): 18.4
Stream Classification: None	Number of Pass: 1	Voltage: 350

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)
Longnose Dace	All	40	40	40	40	813	6	400	329	5.45	644	59.0	7.5

Site Number: 149	Date Sampled: 07/08/2015	Conductivity (umhos/cm): 100
Site Midpoint (Latitude, Longitude): 43.83205738, -103.39569657	Site Length (m): 100	pH: 7.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.3	Water Temperature (C): 14.5
Stream Classification: BK0	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	35	35	35	35	1540	67	350	624	59.56	563	153.5	43.3
Brook Trout	All	35	35	35	35	1540	67	350	624	59.56	563	153.5	43.3

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 Spokane Creek, 2005-2015

Site 100

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Longnose Dace	Jul 01, 2015	40	40-40	

Site 149

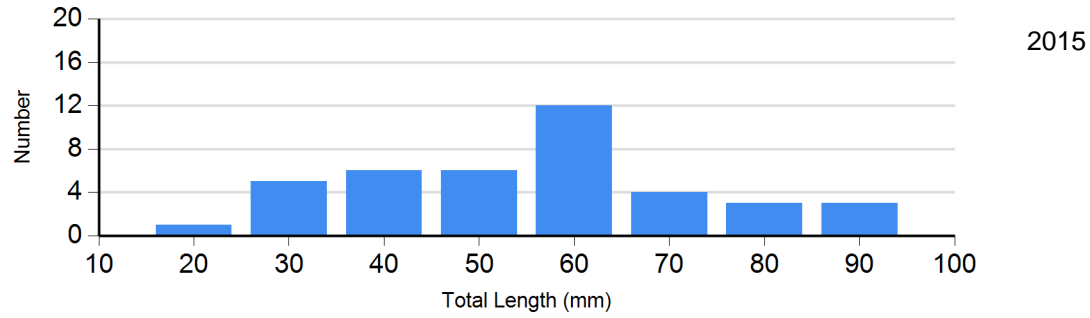
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 08, 2015	35	35-35	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 100

Species: Longnose Dace



Site: 149

Species: Brook Trout

