

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Spring Creek (Trib. of Cheyenne), Pennington County
02-0061-00
2006

Table 1. Population and Biomass Estimates for Spring Creek (Trib. of Cheyenne)

Site Number: 2304	Date Sampled: 07/31/2006	Conductivity (umhos/cm): 300
Site Midpoint (Latitude, Longitude): 43.86716907, -103.65862030	Site Length (m): 80	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.1	Water Temperature (C): 10.0
Stream Classification: BK0	Number of Pass: 3	Voltage: 275

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	164	167	172	164	7952	106	2088	3221	94.95	3359	98.5	13.4
Brook Trout	All	164	167	172	164	7952	106	2088	3221	94.95	3359	98.5	13.4

Site Number: 2439	Date Sampled: 07/31/2006	Conductivity (umhos/cm): 375
Site Midpoint (Latitude, Longitude): 43.90537261, -103.74603404	Site Length (m): 80	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 0.9	Water Temperature (C): 10.5
Stream Classification: BK0	Number of Pass: 3	Voltage: 275

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	9	9	9	9	1013	22	113	410	19.99	181	123.1	22.1
Brook Trout	All	10	10	11	10	1125	25	125	456	22.21	201	123.1	22.1

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 Spring Creek (Trib. of Cheyenne), 1996-2006

Site 2304

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 31, 2006	167	164-172	

Site 2439

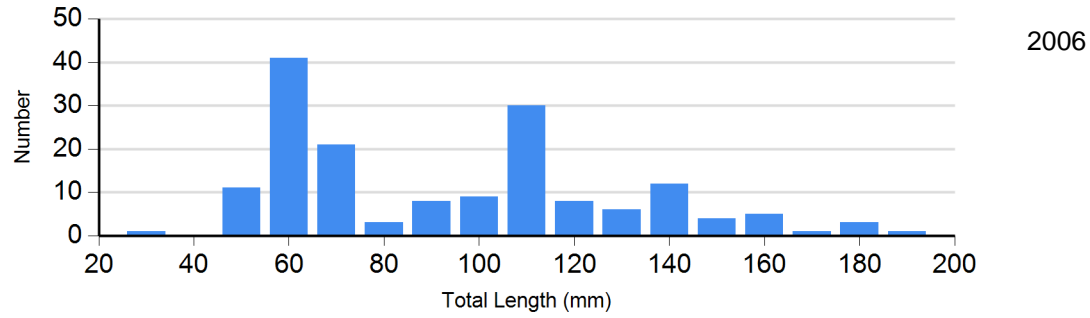
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 31, 2006	9	9-9	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 2304

Species: Brook Trout



Site: 2439

Species: Brook Trout

