

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
South Canyon Creek, Pennington County
10120110000318
2000

Table 1. Population and Biomass Estimates for South Canyon Creek

Site Number: 63	Date Sampled: 07/04/2000	Conductivity (umhos/cm): 4282
Site Midpoint (Latitude, Longitude): 44.08186366, -103.28971487	Site Length (m): 100	pH: 8.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.7	Water Temperature (C): 16.8
Stream Classification: BR1	Number of Pass: 4	Voltage:

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)
Brown Trout	<200mm	60	63	69	60	3684	41	630	1492	36.95	1014	95.0	11.2
Brown Trout	>=200mm	13	13	14	13	760	150	130	308	133.51	209	250.2	196.7
Brown Trout	All	73	76	81	73	4444	197	760	1800	175.64	1223	122.6	44.3

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 South Canyon Creek, 1990-2000

Site 63

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 22, 1997	1	1-1	
	Jul 04, 2000	63	60-69	
Brown Trout >=200mm	Aug 28, 1996	5	5-5	BR2
	Jul 22, 1997	6	6-6	BR1
	Jul 04, 2000	13	13-14	BR1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 63

Species: Brown Trout

