

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
South Canyon Creek, Pennington County
10120110000318
1997

Table 1. Population and Biomass Estimates for South Canyon Creek

Site Number: 63	Date Sampled: 07/22/1997	Conductivity (umhos/cm): 495
Site Midpoint (Latitude, Longitude): 44.08186366, -103.28971487	Site Length (m): 100	pH: 8.0
Survey Completed by:	Mean Width (m): 1.5	Water Temperature (C): 16.0
Stream Classification: BR1	Number of Pass: 3	Voltage: 200

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	1	1	1	1	67	1	10	27	0.48	16	89.0	8.0
Brown Trout	>=200mm	6	6	6	6	400	112	60	162	100.00	97	302.5	280.0
Brown Trout	All	7	7	7	7	467	113	70	189	100.48	113	272.0	241.1
Fathead Minnow	All	1	1	1	1	67	0	10	27	0.12	16	65.0	2.0

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, 1987-1997

Site 63

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 22, 1997	1	1-1	
Brown Trout >=200mm	Aug 28, 1996	5	5-5	BR2
	Jul 22, 1997	6	6-6	BR1
Fathead Minnow	Jul 22, 1997	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 63

Species: Brown Trout

