

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Intake Gulch, Lawrence County
10120203020021
2004

Table 1. Population and Biomass Estimates for Intake Gulch

Site Number: 3	Date Sampled: 07/08/2004	Conductivity (umhos/cm): 295
Site Midpoint (Latitude, Longitude): 44.24444314, -103.92863194	Site Length (m): 100	pH: 8.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 3.3	Water Temperature (C): 10.0
Stream Classification: BK1, BR3	Number of Pass: 3	Voltage: 250

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	42	75	145	42	2266	101	750	918	90.34	1207	150.0	44.6
Brook Trout	>=200mm	13	13	14	13	393	50	130	159	45.01	209	220.7	128.3
Brook Trout	All	55	73	100	55	2206	142	730	893	126.89	1175	166.7	64.4
Brown Trout	>=200mm	1	1	1	1	30	7	10	12	6.66	16	286.0	247.0
Brown Trout	All	1	1	1	1	30	7	10	12	6.66	16	286.0	247.0

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 Intake Gulch, 1994-2004

Site 3

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 08, 2004	75	42-145	
Brook Trout >=200mm	Jul 08, 2004	13	13-14	BK1
Brown Trout >=200mm	Jul 08, 2004	1	1-1	BR3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 3

Species: Brook Trout

