

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Burno Gulch, Lawrence County
09-0041-00
1997

Table 1. Population and Biomass Estimates for Burno Gulch

Site Number: 32	Date Sampled: 09/10/1997	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.42750061, -103.83980411	Site Length (m): 100	pH:
Survey Completed by: OEA Research Inc.	Mean Width (m): 1.4	Water Temperature (C): 13.0
Stream Classification: BK1	Number of Pass: 3	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)
Brook Trout	<200mm	283	294	303	285	21304	244	2940	8628	218.12	4730	94.8	11.5
Brook Trout	>=200mm	11	11	12	11	797	83	110	323	74.28	177	217.2	104.4
Brook Trout	All	294	305	314	296	22101	330	3050	8951	294.87	4907	99.4	14.9

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 Burno Gulch, 1987-1997

Site 32

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 14, 1993	12	12-13	
	Sep 10, 1997	294	285-303	
Brook Trout >=200mm	Sep 10, 1997	11	11-12	BK1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 32

Species: Brook Trout

