

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Burno Gulch, Lawrence County
09-0041-00
2017

Table 1. Population and Biomass Estimates for Burno Gulch

Site Number: 32

Site Midpoint (Latitude, Longitude): 44.42750061, -103.83980411

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK2

Date Sampled: 07/08/2017

Site Length (m): 100

Mean Width (m): 2.8

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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	334	342	349	335	12135	320	3420	4915	286.07	5503	100.4	26.4
Brook Trout	>=200mm	5	5	5	5	177	15	50	72	12.96	80	205.4	81.8
Brook Trout	All	339	346	353	339	12277	343	3460	4972	306.57	5567	101.9	28.0

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 Burno Gulch, 2007-2017

Site 32

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 16, 2014	101	92-112	
	Jun 30, 2016	185	185-187	
	Jul 08, 2017	342	335-349	
Brook Trout >=200mm	Jun 16, 2014	8	8-8	BK2
	Jun 30, 2016	4	4-5	BK2
	Jul 08, 2017	5	5-5	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 32

Species: Brook Trout

