SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Burno Gulch, Lawrence County 09-0041-00 2016

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: 06/30/2016

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Conductivity (umhos/cm):

133

Site Length (m): 100

Mean Width (m): 3.0

pH:

7.3

13.9

Number of Pass: 3

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	185	185	187	185	6204	172	1850	2513	153.45	2977	120.0	27.7
Brook Trout	>=200mm	4	4	5	4	134	17	40	54	15.27	64	238.5	127.5
Brook Trout	All	189	189	191	189	6338	193	1890	2567	172.45	3041	122.5	30.5

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 BrookTrout 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, 2006-2016

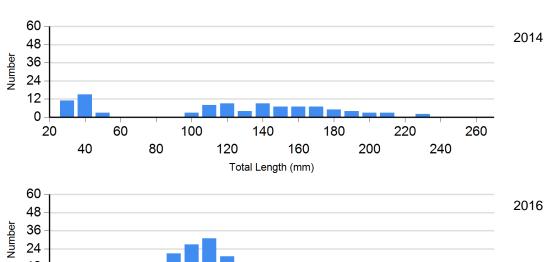
Site 32

Date	Pop Est.	(95% C.I.)	Stream Classification
Jun 16, 2014	101	92-112	
Jun 30, 2016	185	185-187	
Jun 16, 2014	8	8-8	BK2
Jun 30, 2016	4	4-5	BK2
	Jun 16, 2014 Jun 30, 2016 Jun 16, 2014	Jun 16, 2014 101 Jun 30, 2016 185 Jun 16, 2014 8	Jun 16, 2014 101 92-112 Jun 30, 2016 185 185-187 Jun 16, 2014 8 8-8

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 32 Species: Brook Trout



Total Length (mm)