

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Blacktail Gulch BLT, Lawrence County
10120202007284
2011

Table 1. Population and Biomass Estimates for Blacktail Gulch BLT

Site Number: 11
Site Midpoint (Latitude, Longitude): 44.37511634, -103.76757570
Survey Completed by: Unknown Consultant Firm for mining
Stream Classification: BK3

Date Sampled: 08/29/2011
Site Length (m):
Mean Width (m): 2.0
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	11	11	11	11	0	0	0	0	0.00	0	101.2	15.4
Brook Trout	>=200mm	1	1	1	1	0	0	0	0	0.00	0	268.0	230.0
Brook Trout	All	12	12	12	12	0	0	0	0	0.00	0	115.1	33.3

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 Blacktail Gulch BLT, 2001-2011

Site 11

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 26, 2004	20	20-20	
	Aug 31, 2005	18	18-18	
	Aug 29, 2006	51	51-52	
	Sep 08, 2008	29	29-30	
	Sep 02, 2009	260	253-267	
	Aug 30, 2010	11	11-11	
	Aug 30, 2010	11	11-11	

Brook Trout <200mm	Aug 29, 2011	11	11-11	
Brook Trout >=200mm	Aug 26, 2004	13	13-13	BK1
	Aug 29, 2006	1	1-1	BK3
	Sep 08, 2008	10	10-10	BK3
	Sep 02, 2009	6	6-7	BK3
	Aug 29, 2011	1	1-1	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 11

Species: Brook Trout



