

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Blacktail Gulch BLT, Lawrence County
10120202007284
2004

Table 1. Population and Biomass Estimates for Blacktail Gulch BLT

Site Number: 11
Site Midpoint (Latitude, Longitude): 44.37511634, -103.76757570
Survey Completed by: Chadwick Ecological Services
Stream Classification: BK1

Date Sampled: 08/26/2004
Site Length (m): 91
Mean Width (m): 1.2
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	20	20	20	20	1667	41	220	675	36.40	354	126.3	24.5
Brook Trout	>=200mm	13	13	13	13	1083	106	143	439	95.09	230	221.3	98.3
Brook Trout	All	33	33	33	33	2750	150	363	1114	133.73	583	163.7	54.5

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 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, 1994-2004

Site 11

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 26, 2004	20	20-20	
Brook Trout >=200mm	Aug 26, 2004	13	13-13	BK1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 11

Species: Brook Trout

