

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Labrador Creek, Lawrence County
10120203001955
2014

Table 1. Population and Biomass Estimates for Labrador Creek

Site Number: 2

Site Midpoint (Latitude, Longitude): 44.37483097, -103.86545813

Survey Completed by: Unknown Consultant Firm for mining

Stream Classification: BK2

Date Sampled: 08/28/2014

Site Length (m): 100

Mean Width (m): 2.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

Voltage:

215

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	16	17	21	16	846	21	170	343	18.32	274	117.7	24.3
Brook Trout	>=200mm	5	5	5	5	249	26	50	101	23.07	80	212.8	103.8
Brook Trout	All	21	21	23	21	1045	45	210	423	40.31	338	140.3	43.2

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 Labrador Creek, 2004-2014

Site 2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 26, 2005	106	101-113	
	Aug 31, 2011	18	18-19	
	Aug 28, 2014	17	16-21	
Brook Trout >=200mm	Aug 26, 2005	1	1-1	BK2
	Aug 31, 2011	1	1-1	BK3
	Aug 28, 2014	5	5-5	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 2

Species: Brook Trout

