

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Labrador Creek, Lawrence County
10120203001955
1994

Table 1. Population and Biomass Estimates for Labrador Creek

Site Number: 2 Site Midpoint (Latitude, Longitude): 44.37483097, -103.86545813 Survey Completed by: OEA Research Inc. Stream Classification: BK3	Date Sampled: 09/16/1994 Site Length (m): 100 Mean Width (m): 0.0 Number of Pass: 3	Conductivity (umhos/cm): pH: Water Temperature (C): Voltage:
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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	112	119	127	112	0	0	1190	0	0.00	1915	100.1	13.3
Brook Trout	>=200mm	2	2	3	2	0	0	20	0	0.00	32	211.0	84.0
Brook Trout	All	114	121	129	114	0	0	1210	0	0.00	1947	102.0	14.6

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, 1984-1994

Site 2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 12, 1993	88	78-101	
	Sep 16, 1994	119	112-127	
Brook Trout >=200mm	Sep 12, 1993	1	1-1	BK3
	Sep 16, 1994	2	2-3	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 2

Species: Brook Trout

