

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Labrador Creek, Lawrence County**  
**10120203001955**  
**1997**

Table 1. Population and Biomass Estimates for Labrador Creek

<b>Site Number:</b> 2 <b>Site Midpoint (Latitude, Longitude):</b> 44.37483097, -103.86545813 <b>Survey Completed by:</b> OEA Research Inc. <b>Stream Classification:</b> BK1	<b>Date Sampled:</b> 09/06/1997 <b>Site Length (m):</b> 100 <b>Mean Width (m):</b> 2.0 <b>Number of Pass:</b> 3	<b>Conductivity (umhos/cm):</b> <b>pH:</b> <b>Water Temperature (C):</b> 11.0 <b>Voltage:</b>
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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	88	97	108	88	4850	126	970	1964	112.30	1561	116.2	25.9
Brook Trout	>=200mm	15	15	16	15	750	85	150	304	75.80	241	216.1	113.2
Brook Trout	All	103	111	121	103	5550	214	1110	2248	191.48	1786	130.7	38.6

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	
<b>Class BR1</b>	Number of wild Brown Trout exceeds 150 per acre
<b>Class BR2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BR3</b>	Number of wild Brown Trout is less than 25 per acre
<b>Class BK1</b>	Number of wild Brook Trout exceeds 150 per acre
<b>Class BK2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BK3</b>	Number of wild Brook Trout is less than 25 per acre
<b>Class RB1</b>	Number of wild Rainbow Trout exceeds 25 per acre
<b>Class RB2</b>	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Labrador Creek, 1987-1997

**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	
	Sep 19, 1996	45	45-47	
	Sep 06, 1997	97	88-108	
Brook Trout >=200mm	Sep 12, 1993	1	1-1	BK3
	Sep 16, 1994	2	2-3	BK3
	Sep 19, 1996	7	7-8	BK3

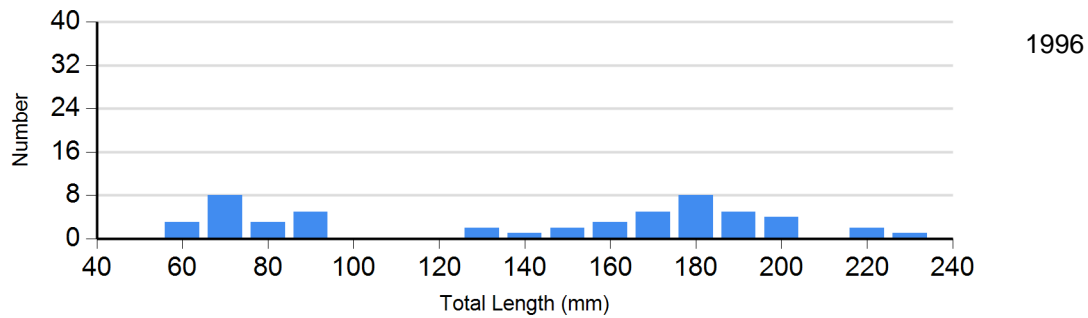
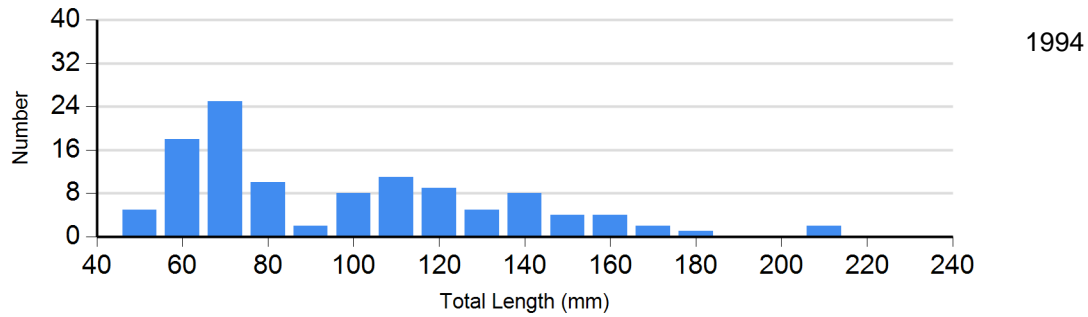
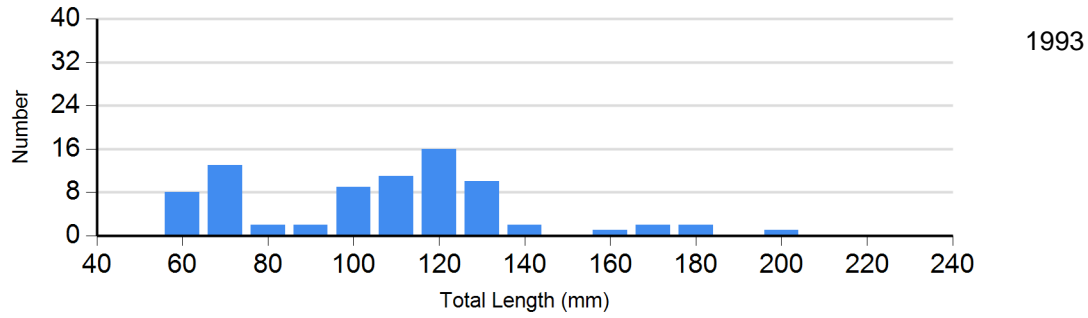


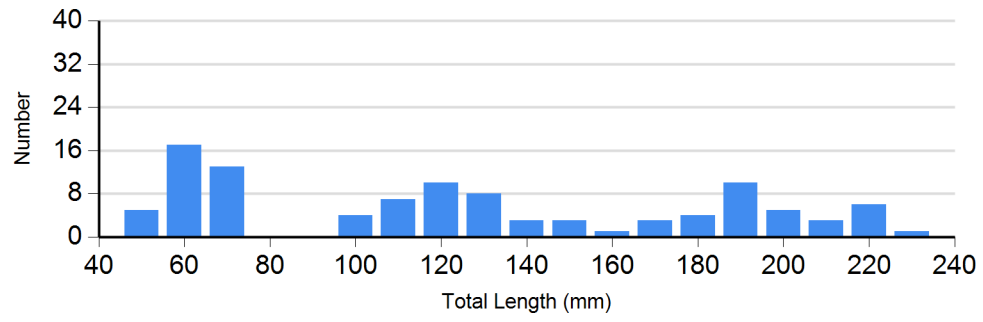
## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site: 2**

**Species: Brook Trout**





1997