

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Lime Creek, Pennington County
02-0099-00
2000

Table 1. Population and Biomass Estimates for Lime Creek

Site Number: 12	Date Sampled: 07/04/2000	Conductivity (umhos/cm): 911
Site Midpoint (Latitude, Longitude): 44.07911882, -103.27234080	Site Length (m): 100	pH: 8.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.7	Water Temperature (C): 14.6
Stream Classification: BR1	Number of Pass: 4	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)
Brown Trout	<200mm	88	88	90	88	3302	144	880	1337	128.75	1416	144.3	43.7
Brown Trout	>=200mm	46	46	46	46	1726	307	460	699	273.86	740	240.3	177.7
Brown Trout	All	134	134	135	134	5028	451	1340	2036	402.61	2156	177.2	89.7
Longnose Dace	All	4	4	5	4	150	1	40	61	0.54	64	69.0	4.0

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 Lime Creek, 1990-2000

Site 12

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	May 17, 1993	4	4-6	
	Jun 12, 1995	1	1-2	
	Jul 04, 2000	88	88-90	
Brown Trout >=200mm	May 17, 1993	2	2-2	BR2
	Jun 12, 1995	6	6-6	BR2
	Jul 04, 2000	46	46-46	BR1
Longnose Dace	May 17, 1993	245	154-336	

Longnose Dace

Jun 12, 1995

19

17-25

Jul 04, 2000

4

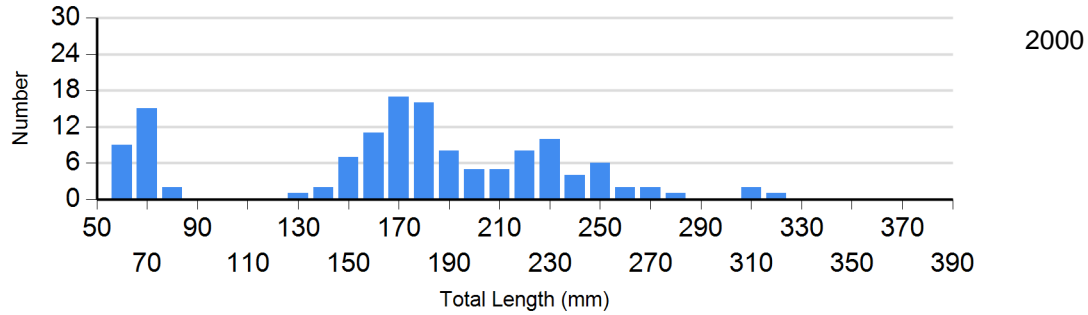
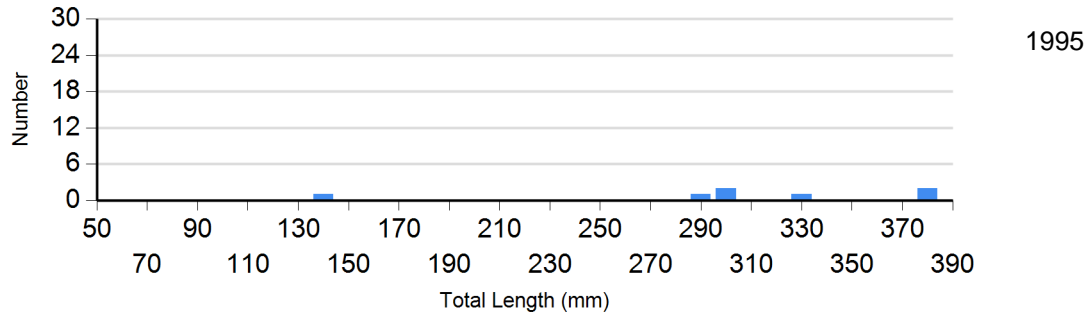
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Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 12

Species: Brown Trout



Site: 12

Species: Longnose Dace

