

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Strawberry Creek, Lawrence County
09-0034-00
2000

Table 1. Population and Biomass Estimates for Strawberry Creek

Site Number: 1
Site Midpoint (Latitude, Longitude): 44.32376938, -103.65155893
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK3

Date Sampled: 09/14/2000 **Conductivity (umhos/cm):** 360
Site Length (m): 100
Mean Width (m): 2.1 **pH:** 8.2
Number of Pass: 4 **Water Temperature (C):** 12.5
Voltage: 200

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	97	99	103	97	4674	50	990	1893	44.27	1593	98.0	10.6
Brook Trout	>=200mm	1	1	2	1	47	5	10	19	4.26	16	209.0	101.0
Brook Trout	All	100	102	106	100	4815	55	1020	1950	49.36	1641	99.1	11.5
Longnose Dace	All	40	42	47	40	1983	11	420	803	9.65	676	80.3	5.5
Mountain Sucker	All	7	7	8	7	330	10	70	134	8.77	113	138.9	29.7

Site Number: 6
Site Midpoint (Latitude, Longitude): 44.32378728, -103.65699254
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BK3

Date Sampled: 09/20/2000 **Conductivity (umhos/cm):** 4300
Site Length (m): 100
Mean Width (m): 1.8 **pH:** 8.0
Number of Pass: 5 **Water Temperature (C):** 9.0
Voltage: 100

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	8	8	10	8	442	26	80	179	22.85	129	169.9	57.9
Brook Trout	>=200mm	1	1	1	1	55	5	10	22	4.64	16	209.0	94.0
Brook Trout	All	9	9	10	9	497	31	90	201	27.49	145	174.2	61.9

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 Strawberry Creek, 1990-2000

Site 1

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 14, 2000	99	97-103	
Brook Trout >=200mm	Sep 14, 2000	1	1-2	BK3
Longnose Dace	Sep 14, 2000	42	40-47	
Mountain Sucker	Sep 14, 2000	7	7-8	

Site 6

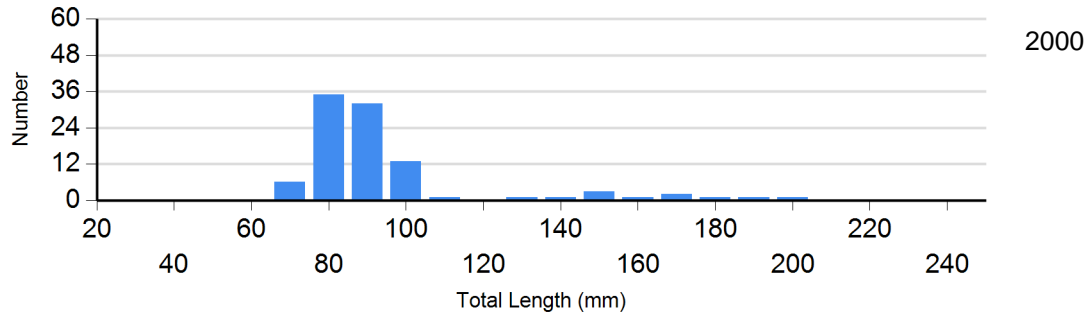
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 20, 2000	8	8-10	
Brook Trout >=200mm	Sep 20, 2000	1	1-1	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

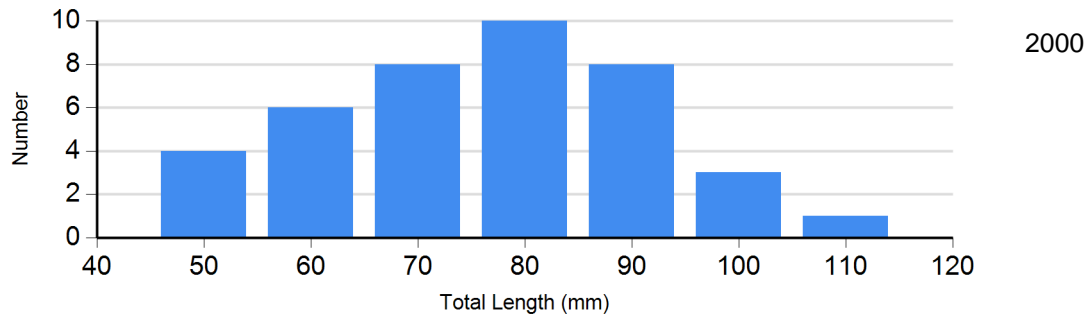
Site: 1

Species: Brook Trout



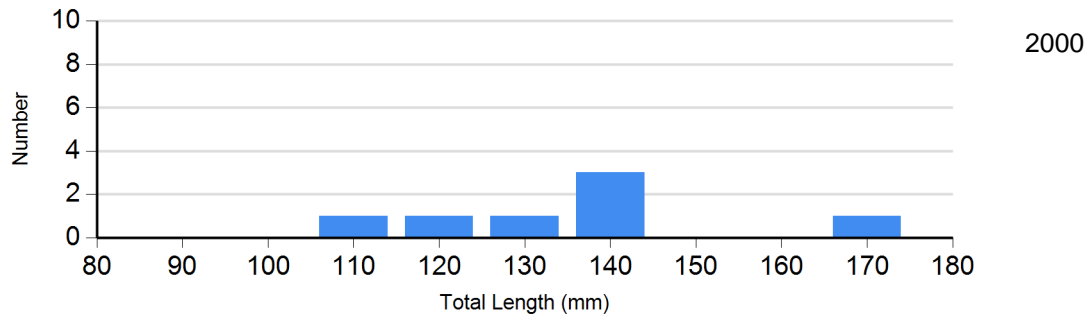
Site: 1

Species: Longnose Dace



Site: 1

Species: Mountain Sucker



Site: 6
Species: Brook Trout

