

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Cement Plant Creek, Pennington County
10120110001112
2000

Table 1. Population and Biomass Estimates for Cement Plant Creek

Site Number: 13	Date Sampled: 08/08/2000	Conductivity (umhos/cm): 1061
Site Midpoint (Latitude, Longitude): 44.08821134, -103.26639669	Site Length (m): 100	pH: 8.3
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.0	Water Temperature (C): 20.1
Stream Classification: BR1, RB0	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	60	61	64	60	3128	45	610	1267	40.13	981	99.1	14.4
Brown Trout	>=200mm	10	10	10	10	513	76	100	208	68.27	161	231.5	149.1
Brown Trout	All	70	71	74	70	3641	122	710	1475	109.28	1142	118.0	33.6
Green Sunfish	All	8	8	10	8	410	9	80	166	7.92	129	92.5	21.6
Hatchery Rainbow Trout	>=200mm	3	3	3	3	154	47	30	62	42.31	48	311.0	308.0
Hatchery Rainbow Trout	All	3	3	3	3	154	47	30	62	42.31	48	311.0	308.0
Rainbow Trout	<200mm	4	4	4	4	205	1	40	83	1.33	64	77.3	7.3
Rainbow Trout	All	4	4	4	4	205	1	40	83	1.33	64	77.3	7.3
White Sucker	All	1	1	2	1	51	0	10	21	0.09	16	53.0	2.0

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 Cement Plant Creek, 1990-2000

Site 13

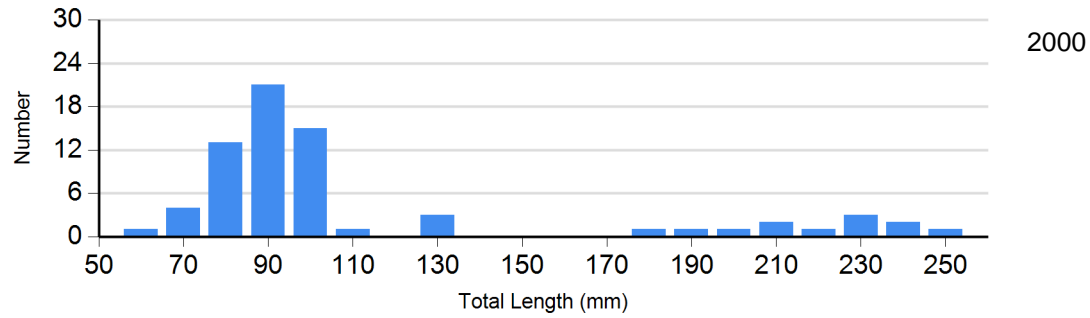
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 08, 2000	61	60-64	
Brown Trout >=200mm	Aug 08, 2000	10	10-10	BR1
Green Sunfish	Aug 08, 2000	8	8-10	
Hatchery Rainbow Trout >=200mm	Aug 08, 2000	3	3-3	
Rainbow Trout <200mm	Aug 08, 2000	4	4-4	
White Sucker	Aug 08, 2000	1	1-2	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

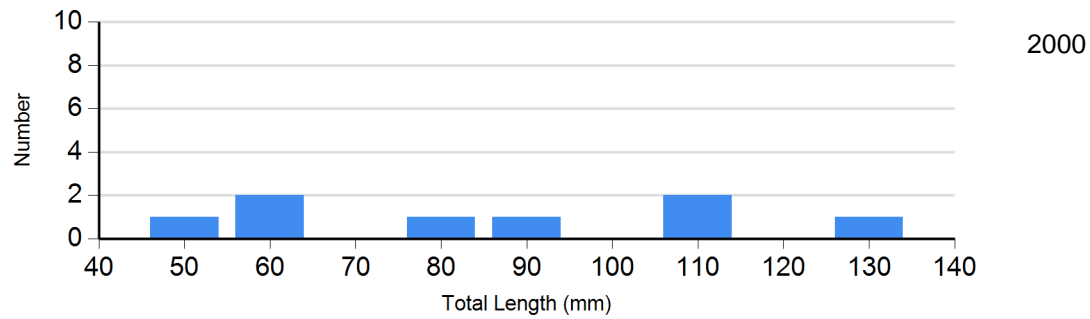
Site: 13

Species: Brown Trout



Site: 13

Species: Green Sunfish



Site: 13

Species: Rainbow Trout

