

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Spring Creek (Trib. of Cheyenne), Pennington County
02-0061-00
1994

Table 1. Population and Biomass Estimates for Spring Creek (Trib. of Cheyenne)

Site Number: 1717	Date Sampled: 09/19/1994	Conductivity (umhos/cm): 237
Site Midpoint (Latitude, Longitude): 43.98161836, -103.34838306	Site Length (m): 105	pH: 6.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 6.3	Water Temperature (C): 12.0
Stream Classification: None	Number of Pass: 3	Voltage: 350

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)
Creek Chub	All	843	842	892	843	13323	120	8019	5396	107.06	12903	59.6	9.0
Longnose Dace	All	28	64	180	28	1013	5	610	410	4.45	981	71.1	4.9
Rock Bass	All	136	207	279	136	3275	162	1971	1327	144.31	3172	111.3	49.3
White Sucker	All	2	2	2	2	32	5	19	13	4.29	31	180.5	152.0

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 Spring Creek (Trib. of Cheyenne), 1984-1994

Site 1717

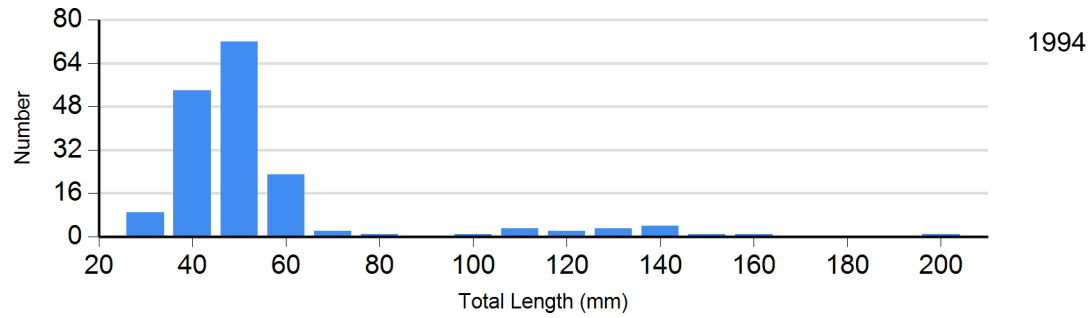
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Creek Chub	Sep 19, 1994	842	843-892	
Longnose Dace	Sep 19, 1994	64	28-180	
Rock Bass	Sep 19, 1994	207	136-279	
White Sucker	Sep 19, 1994	2	2-2	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

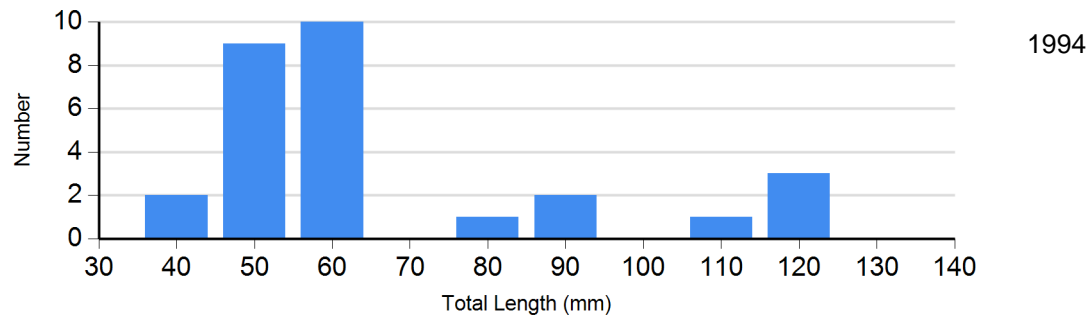
Site: 1717

Species: Creek Chub



Site: 1717

Species: Longnose Dace



Site: 1717

Species: Rock Bass

