

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Beaver Creek (Custer Co.), Custer County
21-0014-00
1993

Table 1. Population and Biomass Estimates for Beaver Creek (Custer Co.)

Site Number: 117	Date Sampled: 05/10/1993	Conductivity (umhos/cm): 2020
Site Midpoint (Latitude, Longitude): 43.46163639, -103.30351339	Site Length (m): 100	pH: 7.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 5.0	Water Temperature (C): 17.0
Stream Classification: None	Number of Pass: 3	Voltage: 50

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	16	19	28	16	383	21	190	155	18.62	306	157.7	54.4
Longnose Dace	All	4	4	7	4	81	1	40	33	0.54	64	87.5	7.5
White Sucker	All	7	6	9	7	121	10	60	49	8.81	97	173.3	81.6

Site Number: 574	Date Sampled: 05/12/1993	Conductivity (umhos/cm): 455
Site Midpoint (Latitude, Longitude): 43.61174508, -103.51180953	Site Length (m): 100	pH: 7.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.3	Water Temperature (C): 17.0
Stream Classification: BK0	Number of Pass: 3	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	3	3	3	3	227	6	30	92	5.68	48	133.0	28.0
Brook Trout	All	3	3	3	3	227	6	30	92	5.68	48	133.0	28.0
Longnose Dace	All	7	7	7	7	530	2	70	215	1.69	113	74.6	3.6

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	
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 Beaver Creek (Custer Co.), 1983-1993

Site 117

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Creek Chub	May 10, 1993	19	16-28	
Longnose Dace	May 10, 1993	4	4-7	
White Sucker	May 10, 1993	6	7-9	

Site 574

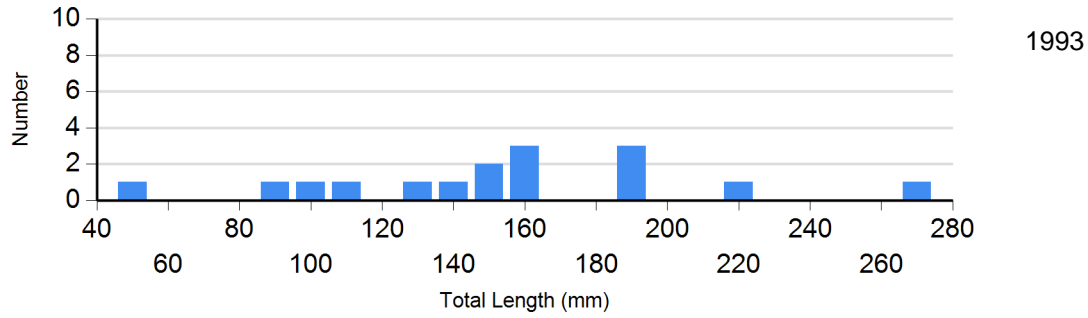
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 12, 1993	3	3-3	
Longnose Dace	May 12, 1993	7	7-7	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

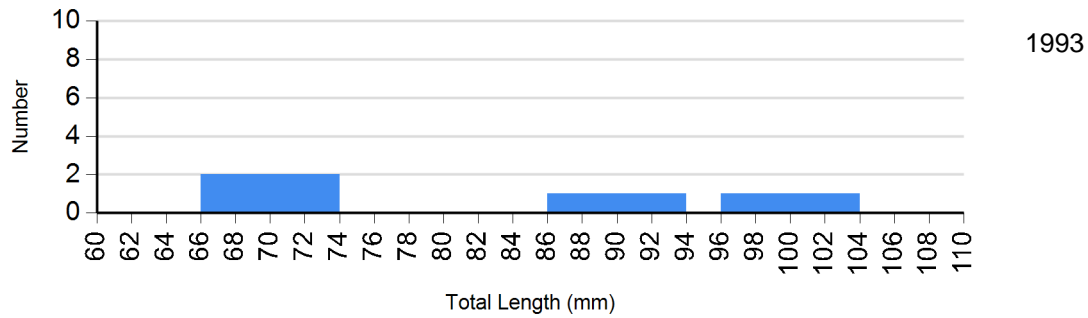
Site: 117

Species: Creek Chub



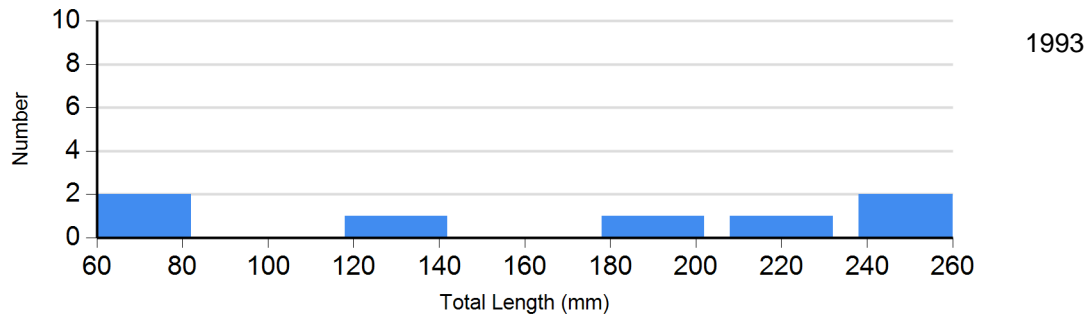
Site: 117

Species: Longnose Dace



Site: 117

Species: White Sucker



Site: 574
Species: Longnose Dace

