

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Beaver Creek (Law. Co.), Lawrence County
10120203000724
1993

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

Site Number: 234	Date Sampled: 07/20/1993	Conductivity (umhos/cm): 181
Site Midpoint (Latitude, Longitude): 44.37866611, -104.00672610	Site Length (m): 100	pH: 8.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.6	Water Temperature (C): 11.0
Stream Classification: BK3	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)
Brook Trout	<200mm	70	72	76	70	2769	71	720	1122	63.02	1158	132.4	25.5
Brook Trout	>=200mm	1	1	1	1	38	5	10	16	4.29	16	215.0	125.0
Brook Trout	All	71	72	75	71	2769	74	720	1122	66.48	1158	133.5	26.9
Fathead Minnow	All	1	1	2	1	38	0	10	16	0.10	16	64.0	3.0
Longnose Dace	All	80	105	136	80	4038	19	1050	1636	16.61	1689	75.8	4.6
Unidentified YOY Trout	<200mm	70	71	74	70	2731	8	710	1106	6.76	1142	67.0	2.8
Unidentified YOY Trout	All	70	71	74	70	2731	8	710	1106	6.76	1142	67.0	2.8

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 (Law. Co.), 1983-1993

Site 234

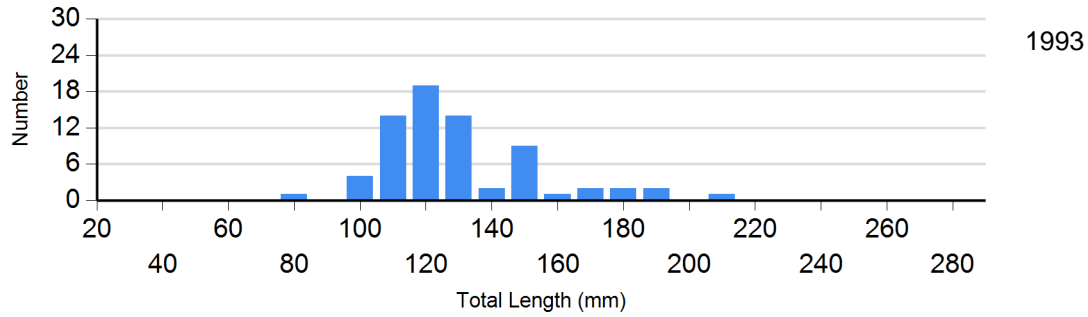
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 20, 1993	72	70-76	
Brook Trout >=200mm	Jul 20, 1993	1	1-1	BK3
Fathead Minnow	Jul 20, 1993	1	1-2	
Longnose Dace	Jul 20, 1993	105	80-136	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

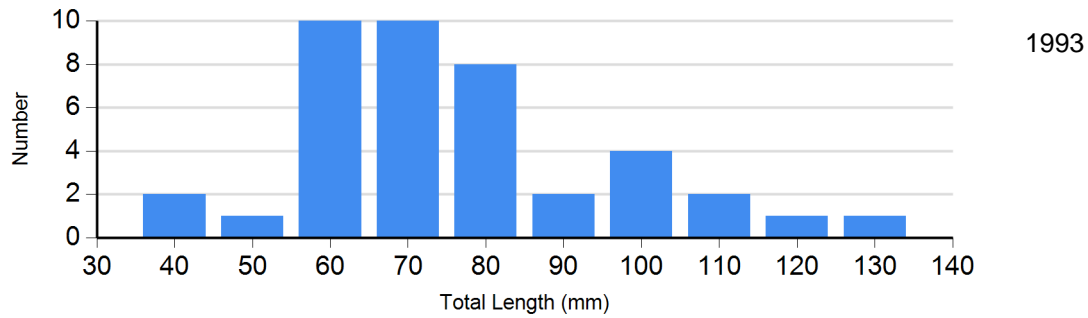
Site: 234

Species: Brook Trout



Site: 234

Species: Longnose Dace



Site: 234

Species: Unidentified YOY Trout

