

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Flynn Creek, Custer County
21-0034-00
1993

Table 1. Population and Biomass Estimates for Flynn Creek

Site Number: 126	Date Sampled: 06/21/1993	Conductivity (umhos/cm): 310
Site Midpoint (Latitude, Longitude): 43.68508330, -103.47288268	Site Length (m): 100	pH: 7.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.0	Water Temperature (C): 18.0
Stream Classification: BK3	Number of Pass: 3	Voltage: 250

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	1	1	1	1	25	4	10	10	3.39	16	201.0	151.0
Brook Trout	All	1	1	1	1	25	4	10	10	3.39	16	201.0	151.0
Fathead Minnow	All	2	2	4	2	50	0	20	20	0.04	32	47.0	1.0
Longnose Dace	All	79	78	90	79	1960	5	780	794	4.19	1255	59.6	2.4
Mountain Sucker	All	39	43	51	39	1080	2	430	438	1.78	692	56.2	1.8

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 Flynn Creek, 1983-1993

Site 126

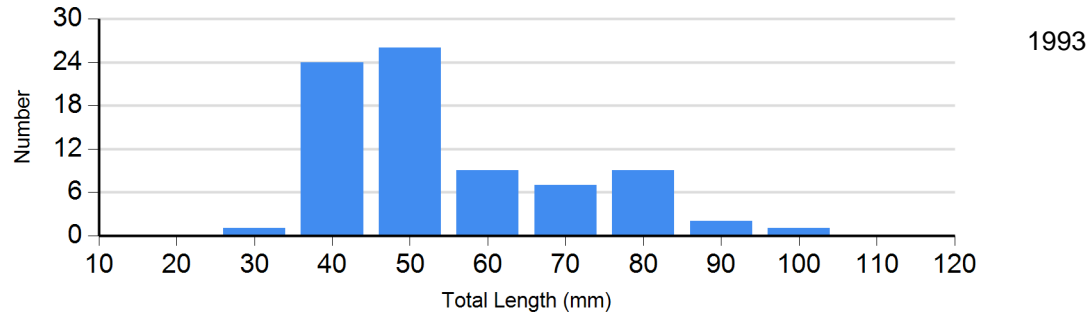
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout >=200mm	Jun 21, 1993	1	1-1	BK3
Fathead Minnow	Jun 21, 1993	2	2-4	
Longnose Dace	Jun 21, 1993	78	79-90	
Mountain Sucker	Jun 21, 1993	43	39-51	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 126

Species: Longnose Dace



Site: 126

Species: Mountain Sucker

