

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Meadow Creek, Lawrence County
09-0072-00
1998

Table 1. Population and Biomass Estimates for Meadow Creek

Site Number: 12	Date Sampled: 06/29/1998	Conductivity (umhos/cm): 378
Site Midpoint (Latitude, Longitude): 44.28582280, -103.56238706	Site Length (m): 100	pH: 8.6
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.6	Water Temperature (C): 15.6
Stream Classification: BK2	Number of Pass: 3	Voltage: 200

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	11	11	13	11	696	21	110	282	18.83	177	103.4	30.3
Brook Trout	>=200mm	1	1	1	1	63	8	10	26	6.89	16	226.0	122.0
Brook Trout	All	12	12	13	12	759	32	120	308	28.31	193	113.6	41.8
Longnose Dace	All	605	645	665	625	40823	176	6450	16533	157.06	10378	79.3	4.3
Mountain Sucker	All	44	47	53	44	2975	39	470	1205	34.53	756	103.6	13.0

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 Meadow Creek, 1988-1998

Site 12

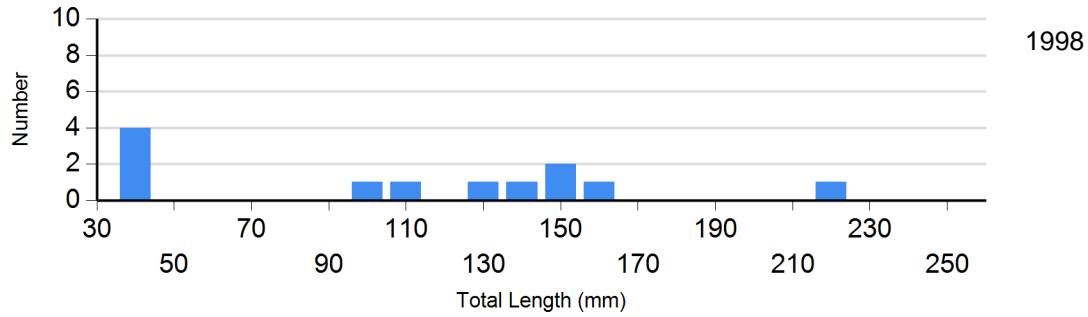
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 29, 1998	11	11-13	
Brook Trout >=200mm	Jun 29, 1998	1	1-1	BK2
Longnose Dace	Jun 13, 1995	466	411-521	
	Jun 29, 1998	645	625-665	
Mountain Sucker	Jun 13, 1995	19	17-25	
	Jun 29, 1998	47	44-53	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

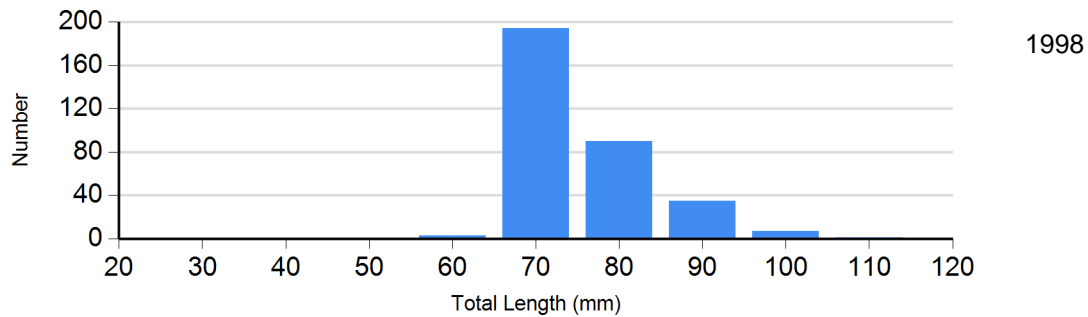
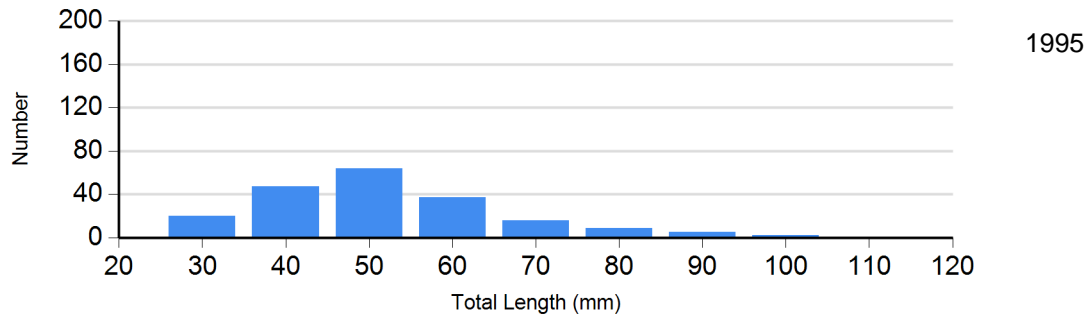
Site: 12

Species: Brook Trout



Site: 12

Species: Longnose Dace



Site: 12
Species: Mountain Sucker

