

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Two Bit Creek, Lawrence County
09-0031-00
1993

Table 1. Population and Biomass Estimates for Two Bit Creek

Site Number: 96	Date Sampled: 07/14/1993	Conductivity (umhos/cm): 143
Site Midpoint (Latitude, Longitude): 44.34987486, -103.69481416	Site Length (m): 100	pH: 9.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.7	Water Temperature (C): 9.0
Stream Classification: BK1	Number of Pass: 3	Voltage: 400

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	37	37	38	37	1360	36	370	551	31.91	595	136.7	26.3
Brook Trout	>=200mm	14	14	15	14	515	60	140	208	53.54	225	223.4	116.5
Brook Trout	All	51	51	52	51	1875	96	510	759	85.45	821	160.5	51.0
Unidentified YOY Trout	<200mm	114	120	128	114	4412	8	1200	1787	6.78	1931	57.1	1.7
Unidentified YOY Trout	All	114	120	128	114	4412	8	1200	1787	6.78	1931	57.1	1.7

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 Two Bit Creek, 1983-1993

Site 96

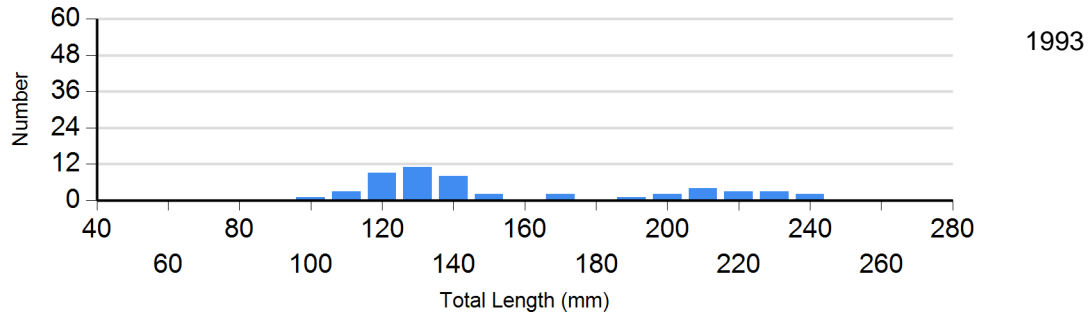
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 14, 1993	37	37-38	
Brook Trout >=200mm	Jul 14, 1993	14	14-15	BK1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 96

Species: Brook Trout



Site: 96

Species: Unidentified YOY Trout

