

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
False Bottom Creek, Lawrence County
09-0040-00
1993

Table 1. Population and Biomass Estimates for False Bottom Creek

Site Number: 577	Date Sampled: 08/12/1993	Conductivity (umhos/cm): 255
Site Midpoint (Latitude, Longitude): 44.38067497, -103.81715809	Site Length (m): 100	pH: 8.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.5	Water Temperature (C): 12.0
Stream Classification: BK2	Number of Pass: 3	Voltage: 450

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	73	75	79	73	5068	93	750	2052	82.68	1207	99.8	18.3
Brook Trout	>=200mm	3	3	3	3	203	19	30	82	17.37	48	205.0	96.0
Brook Trout	All	76	78	82	76	5270	112	780	2134	100.43	1255	104.0	21.3

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 False Bottom Creek, 1983-1993

Site 577

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 12, 1993	75	73-79	
Brook Trout >=200mm	Aug 12, 1993	3	3-3	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 577

Species: Brook Trout

