

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
False Bottom Creek, Lawrence County
09-0040-00
1998

Table 1. Population and Biomass Estimates for False Bottom Creek

Site Number: 544

Site Midpoint (Latitude, Longitude): 44.39822078, -103.80297429

Survey Completed by: Chadwick Ecological Services

Stream Classification: BK0

Date Sampled: 08/27/1998

Site Length (m): 100

Mean Width (m): 1.5

Number of Pass: 2

Conductivity (umhos/cm):

pH:

Water Temperature (C):

Voltage:

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	159	165	173	159	11301	156	1650	4577	139.66	2655	107.1	13.8
Brook Trout	All	159	165	173	159	11301	156	1650	4577	139.66	2655	107.1	13.8

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 False Bottom Creek, 1988-1998

Site 544

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 21, 1997	300	298-304	
	Aug 27, 1998	165	159-173	
Brook Trout >=200mm	Sep 21, 1997	12	12-12	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 544

Species: Brook Trout

