

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
False Bottom East Fork, Lawrence County
10120203002076
2004

Table 1. Population and Biomass Estimates for False Bottom East Fork

Site Number: 2	Date Sampled: 08/31/2004	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.36870600, -103.82577979	Site Length (m): 106	pH:
Survey Completed by: Chadwick Ecological Services	Mean Width (m): 0.8	Water Temperature (C):
Stream Classification: BK0	Number of Pass: 3	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	18	18	19	18	2276	16	170	922	14.34	273	84.9	7.1
Brook Trout	All	18	18	19	18	2276	16	170	922	14.34	273	84.9	7.1

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 East Fork, 1994-2004

Site 2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 27, 1998	118	114-124	
	Aug 31, 2001	106	105-109	
	Aug 28, 2002	45	45-46	
	Aug 28, 2003	22	22-23	
	Aug 31, 2004	18	18-19	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 2

Species: Brook Trout



