

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
False Bottom East Fork, Lawrence County
10120203002076
2010

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

Site Number: 2	Date Sampled: 08/25/2010	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.36870600, -103.82577979	Site Length (m): 100	pH:
Survey Completed by: Unknown Consultant Firm for mining	Mean Width (m): 1.3	Water Temperature (C):
Stream Classification: BK0	Number of Pass: 3	Voltage: 250

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	98	98	100	98	7434	104	980	3011	92.93	1577	99.1	14.0
Brook Trout	All	98	98	100	98	7434	104	980	3011	92.93	1577	99.1	14.0

Site Number: 2	Date Sampled: 08/25/2010	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.36870600, -103.82577979	Site Length (m): 100	pH:
Survey Completed by: GEI	Mean Width (m): 1.3	Water Temperature (C):
Stream Classification: BK0	Number of Pass: 3	Voltage: 250

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	98	98	100	98	7434	92	980	3011	82.32	1577	99.0	12.4
Brook Trout	All	98	98	100	98	7434	92	980	3011	82.32	1577	99.0	12.4

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, 2000-2010

Site 2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 31, 2001	106	105-109	
	Aug 28, 2002	45	45-46	
	Aug 28, 2003	22	22-23	
	Aug 31, 2004	18	18-19	
	Aug 28, 2005	7	7-8	
	Aug 31, 2006	32	32-33	
	Aug 29, 2007	28	28-29	

Brook Trout <200mm	Aug 25, 2009	162	157-168
	Aug 25, 2010	98	98-100
	Aug 25, 2010	98	98-100

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 2

Species: Brook Trout



