

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**False Bottom Creek, Lawrence County**  
**09-0040-00**  
**2014**

Table 1. Population and Biomass Estimates for False Bottom Creek

**Site Number:** 577

**Site Midpoint (Latitude, Longitude):** 44.38067497, -103.81715809

**Survey Completed by:**

**Stream Classification:** BK0, BR3

**Date Sampled:** 06/17/2014

**Site Length (m):** 100

**Mean Width (m):** 2.3

**Number of Pass:** 3

**Conductivity (umhos/cm):**

**pH:**

**Water Temperature (C):**

**Voltage:**

300

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	75	76	79	75	3266	91	760	1323	81.29	1223	127.4	27.9
Brook Trout	All	75	76	79	75	3266	91	760	1323	81.29	1223	127.4	27.9
Brown Trout	<200mm	3	3	3	3	129	9	30	52	8.10	48	180.3	70.3
Brown Trout	>=200mm	1	1	1	1	43	5	10	17	4.22	16	224.0	110.0
Brown Trout	All	4	4	4	4	172	14	40	70	12.32	64	191.3	80.3

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	
<b>Class BR1</b>	Number of wild Brown Trout exceeds 150 per acre
<b>Class BR2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BR3</b>	Number of wild Brown Trout is less than 25 per acre
<b>Class BK1</b>	Number of wild Brook Trout exceeds 150 per acre
<b>Class BK2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BK3</b>	Number of wild Brook Trout is less than 25 per acre
<b>Class RB1</b>	Number of wild Rainbow Trout exceeds 25 per acre
<b>Class RB2</b>	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on False Bottom Creek, 2004-2014

**Site 577**

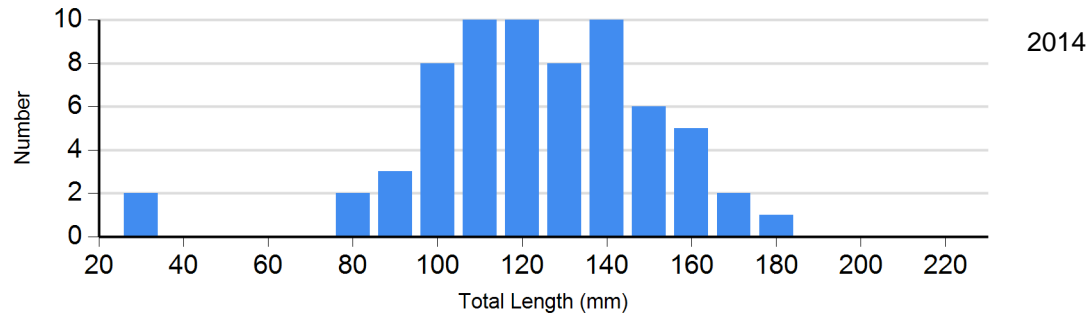
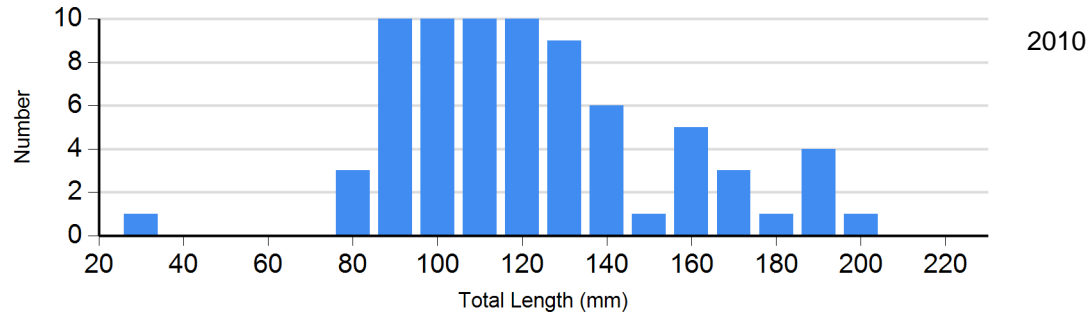
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 28, 2008	42	42-44	
	Jun 17, 2014	76	75-79	
Brown Trout <200mm	Jun 17, 2014	3	3-3	
Brown Trout >=200mm	Jun 17, 2014	1	1-1	BR3

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site:** 577

**Species:** Brook Trout



**Site:** 577

**Species:** Brown Trout

