

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**West Strawberry Creek, Lawrence County**  
**09-0058-00**  
**2014**

Table 1. Population and Biomass Estimates for West Strawberry Creek

<b>Site Number:</b> 9	<b>Date Sampled:</b> 08/07/2014	<b>Conductivity (umhos/cm):</b> 374
<b>Site Midpoint (Latitude, Longitude):</b> 44.34822300, -103.73358595	<b>Site Length (m):</b> 100	<b>pH:</b> 8.0
<b>Survey Completed by:</b>	<b>Mean Width (m):</b> 2.3	<b>Water Temperature (C):</b> 15.3
<b>Stream Classification:</b> BK2, BR2	<b>Number of Pass:</b> 3	<b>Voltage:</b> 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	133	142	152	133	6298	197	1420	2551	176.12	2285	91.1	31.3
Brook Trout	>=200mm	3	3	5	3	133	13	30	54	11.88	48	399.0	100.0
Brook Trout	All	136	146	157	136	6476	222	1460	2623	198.35	2349	97.9	34.3
Brown Trout	>=200mm	5	5	5	5	222	42	50	90	37.19	80	258.8	187.8
Brown Trout	All	18	18	19	18	798	150	180	323	133.87	290	116.8	187.8

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	
<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 West Strawberry Creek, 2004-2014

**Site 9**

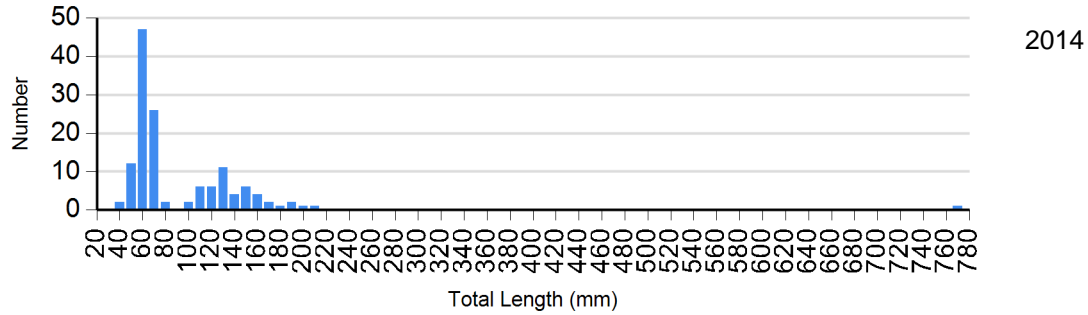
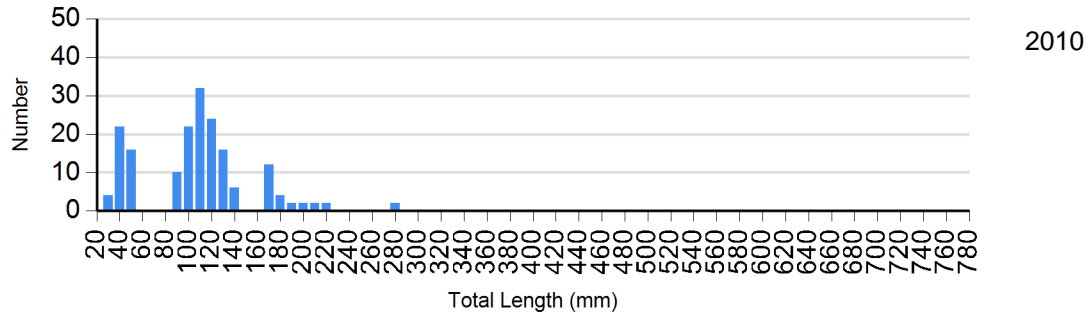
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 01, 2008	50	50-50	
	Aug 07, 2014	142	133-152	
Brook Trout >=200mm	Jul 01, 2008	4	4-4	BK2
	Aug 07, 2014	3	3-5	BK2
Brown Trout <200mm	Jul 01, 2008	2	2-2	
Brown Trout >=200mm	Jul 01, 2008	2	2-2	BR2
	Aug 07, 2014	5	5-5	BR2

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site:** 9

**Species:** Brook Trout



**Site:** 9

**Species:** Brown Trout

