

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Boxelder - South Fork, Lawrence County**  
**09-0071-00**  
**2017**

Table 1. Population and Biomass Estimates for Boxelder - South Fork

**Site Number:** 110

**Site Midpoint (Latitude, Longitude):** 44.18982200, -103.59672323

**Survey Completed by:** South Dakota Game, Fish and Parks

**Stream Classification:** BK0, BR0

**Date Sampled:** 07/26/2017

**Site Length (m):** 100

**Mean Width (m):** 1.5

**Number of Pass:** 3

**Conductivity (umhos/cm):**

**pH:**

**Water Temperature (C):** 17.0

**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	14	14	14	14	906	28	140	367	25.28	225	116.5	31.3
Brook Trout	All	14	14	14	14	906	28	140	367	25.28	225	116.5	31.3
Brown Trout	<200mm	1	1	1	1	65	2	10	26	1.91	16	148.0	33.0
Brown Trout	All	1	1	1	1	65	2	10	26	1.91	16	148.0	33.0
Longnose Dace	All	105	105	106	105	6794	88	1050	2752	78.86	1689	63.6	13.0

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 Boxelder - South Fork, 2007-2017

**Site 110**

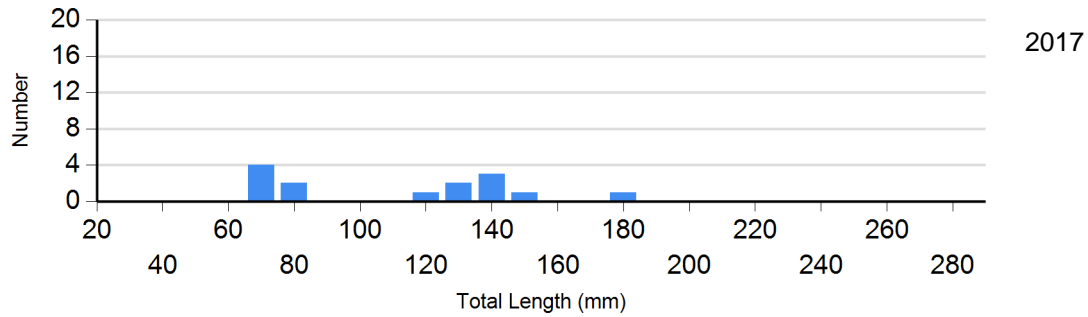
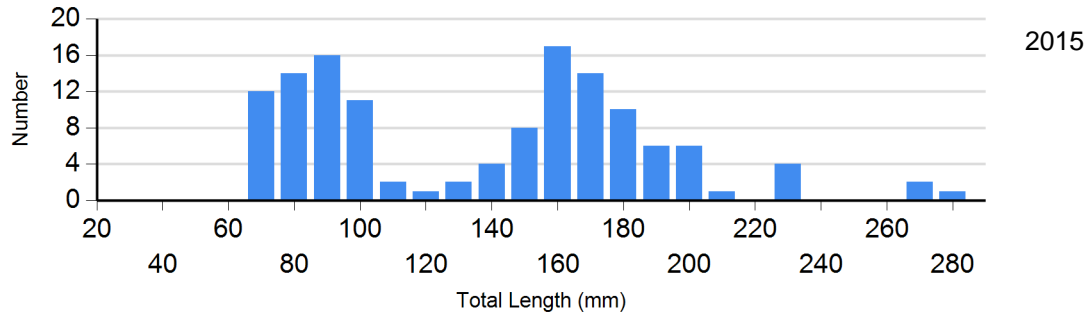
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 10, 2015	117	117-118	
	Jul 26, 2017	14	14-14	
Brook Trout >=200mm	Sep 10, 2015	14	14-14	BK1
Brown Trout <200mm	Jul 26, 2017	1	1-1	
Longnose Dace	Sep 10, 2015	40	39-43	
	Jul 26, 2017	105	105-106	

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

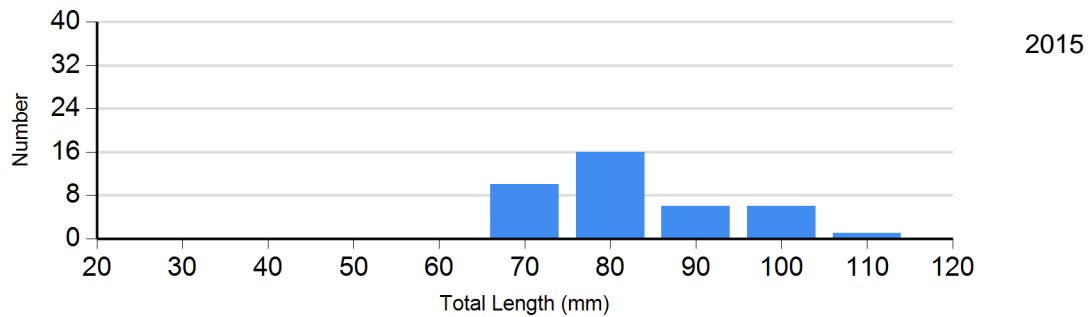
**Site:** 110

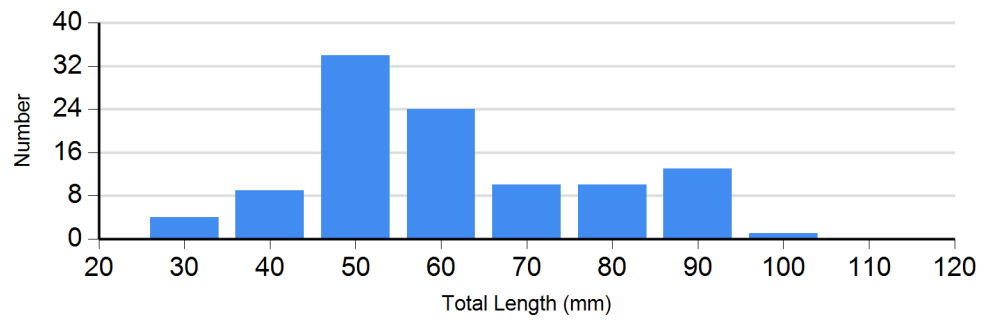
**Species:** Brook Trout



**Site:** 110

**Species:** Longnose Dace





2017