

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Boxelder - North Fork, Lawrence County**  
**09-0069-00**  
**2017**

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

<b>Site Number:</b> 112	<b>Date Sampled:</b> 05/15/2017	<b>Conductivity (umhos/cm):</b> 244
<b>Site Midpoint (Latitude, Longitude):</b> 44.22303907, -103.69113208	<b>Site Length (m):</b> 100	<b>pH:</b>
<b>Survey Completed by:</b> South Dakota Game, Fish and Parks	<b>Mean Width (m):</b> 1.1	<b>Water Temperature (C):</b> 9.7
<b>Stream Classification:</b> BK2	<b>Number of Pass:</b> 3	<b>Voltage:</b>

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	71	72	75	71	6545	267	720	2651	238.74	1158	132.8	40.9
Brook Trout	>=200mm	1	1	2	1	91	12	10	37	10.63	16	226.0	131.0
Brook Trout	All	72	73	76	72	6636	281	730	2688	250.81	1175	134.1	42.3

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 Boxelder - North Fork, 2007-2017

**Site 112**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 11, 2014	31	30-34	
	Jun 06, 2016	43	43-43	
	May 15, 2017	72	71-75	
Brook Trout >=200mm	Jun 11, 2014	1	1-1	BK3
	Jun 06, 2016	3	3-3	BK2
	May 15, 2017	1	1-2	BK2
Longnose Dace	Jun 11, 2014	16	13-26	

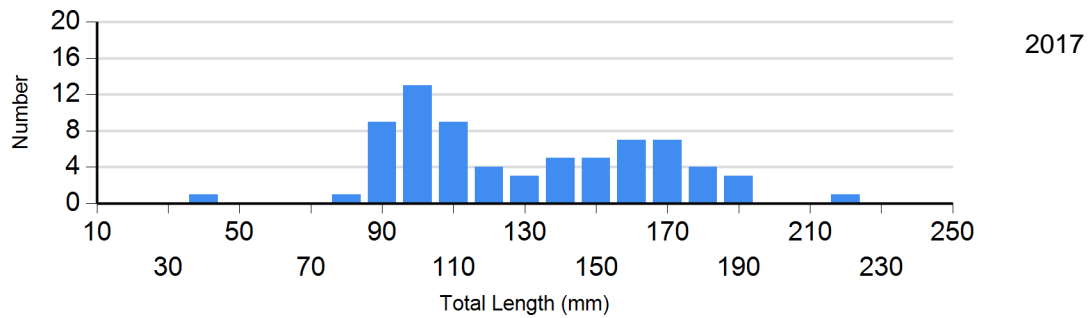
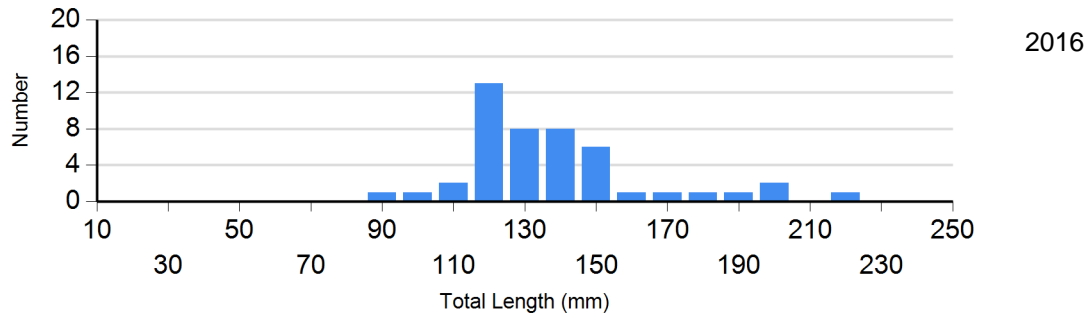
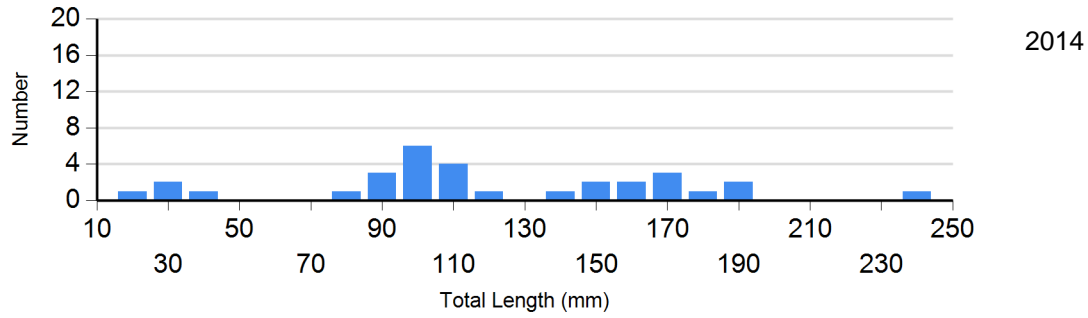


## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site:** 112

**Species:** Brook Trout



Site: 112  
Species: Longnose Dace

