

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Iron Creek (South), Pennington County**  
**02-0082-00**  
**2018**

Table 1. Population and Biomass Estimates for Iron Creek (South)

**Site Number:** 195

**Site Midpoint (Latitude, Longitude):** 43.82834180, -103.46252843

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

**Stream Classification:** BK0

**Date Sampled:** 07/12/2018

**Site Length (m):** 100

**Mean Width (m):** 2.2

**Number of Pass:** 3

**Conductivity (umhos/cm):**

**pH:**

**Water Temperature (C):** 14.5

**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	185	205	222	188	9396	184	2050	3805	163.95	3298	107.4	19.5
Brook Trout	All	185	205	222	188	9396	184	2050	3805	163.95	3298	107.4	19.5
Longnose Dace	All	19	25	41	19	1146	17	250	464	14.91	402	89.6	14.6

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 Iron Creek (South), 2008-2018

**Site 195**

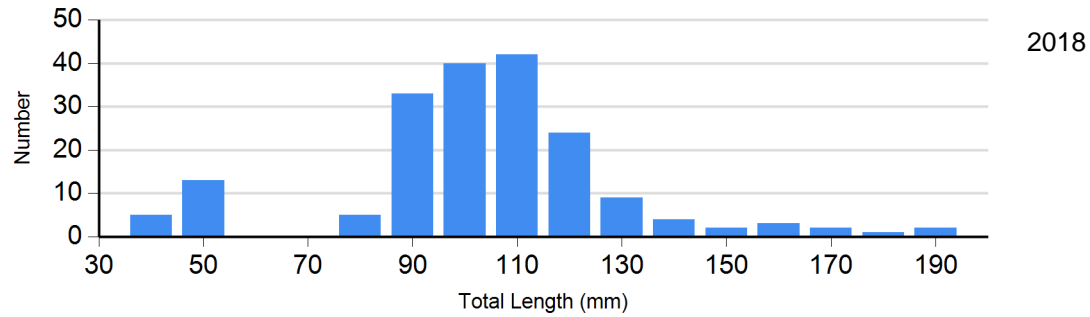
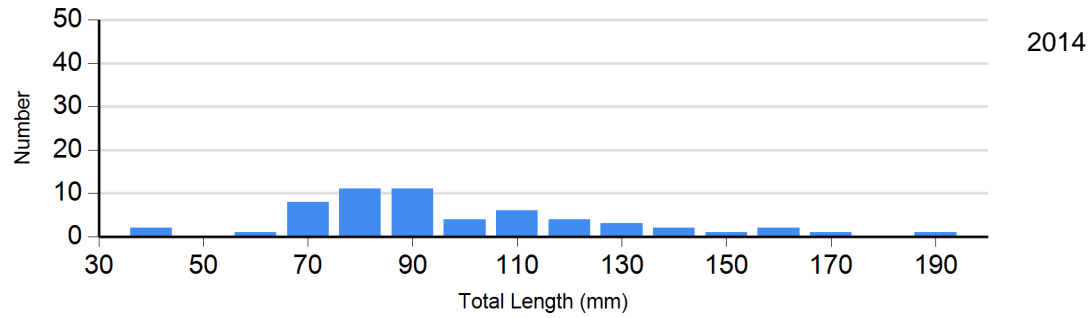
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2009	54	54-54	
	May 29, 2014	66	57-79	
	Jul 12, 2018	205	188-222	
Longnose Dace	May 29, 2014	44	35-61	
	Jul 12, 2018	25	19-41	

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

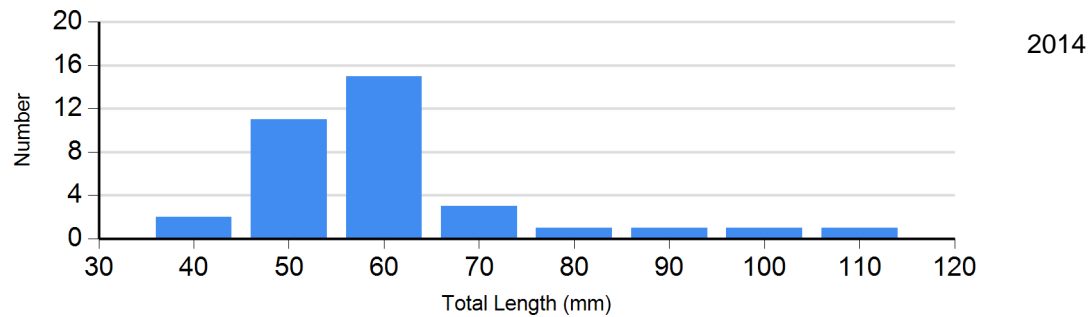
**Site:** 195

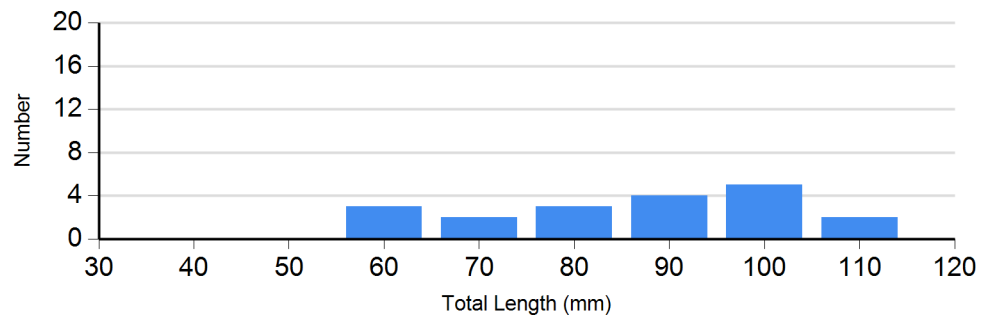
**Species:** Brook Trout



**Site:** 195

**Species:** Longnose Dace





2018