

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Crow Creek (Trib. of Redwater), Lawrence County**  
**09-0037-00**  
**2015**

Table 1. Population and Biomass Estimates for Crow Creek (Trib. of Redwater)

<b>Site Number:</b> 31	<b>Date Sampled:</b> 07/09/2015	<b>Conductivity (umhos/cm):</b> 1080
<b>Site Midpoint (Latitude, Longitude):</b> 44.56201742, -104.00884914	<b>Site Length (m):</b> 100	<b>pH:</b> 6.2
<b>Survey Completed by:</b>	<b>Mean Width (m):</b> 6.3	<b>Water Temperature (C):</b> 12.4
<b>Stream Classification:</b> BR1	<b>Number of Pass:</b> 1	<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)
Brown Trout	<200mm	16	16	16	16	254	9	160	103	8.06	257	84.4	35.5
Brown Trout	>=200mm	29	29	29	29	461	266	290	187	237.08	467	328.0	576.0
Brown Trout	All	45	45	45	45	715	387	450	290	345.61	724	241.4	541.1
Longnose Sucker	All	4	4	4	4	64	34	40	26	30.25	64	392.0	532.8
White Sucker	All	9	9	9	9	143	66	90	58	59.14	145	334.3	463.0

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 Crow Creek (Trib. of Redwater), 2005-2015

**Site 31**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 21, 2006	188	173-203	
	Jul 28, 2008	5	5-5	
	Jul 09, 2015	16	16-16	
Brown Trout >=200mm	Aug 21, 2006	50	50-51	BR1
	Jul 28, 2008	18	18-18	BR2
	Jul 09, 2015	29	29-29	BR1
Longnose Sucker	Aug 21, 2006	3	3-4	

Longnose Sucker	Jul 09, 2015	4	4-4
White Sucker	Aug 21, 2006	6	6-6
	Jul 09, 2015	9	9-9

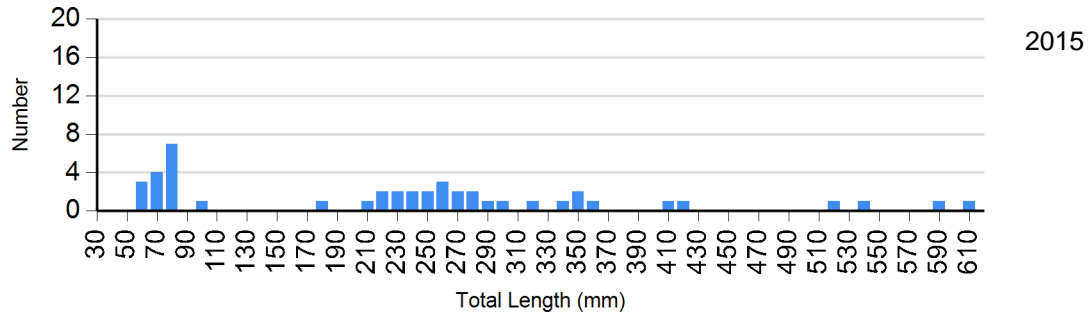
---

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

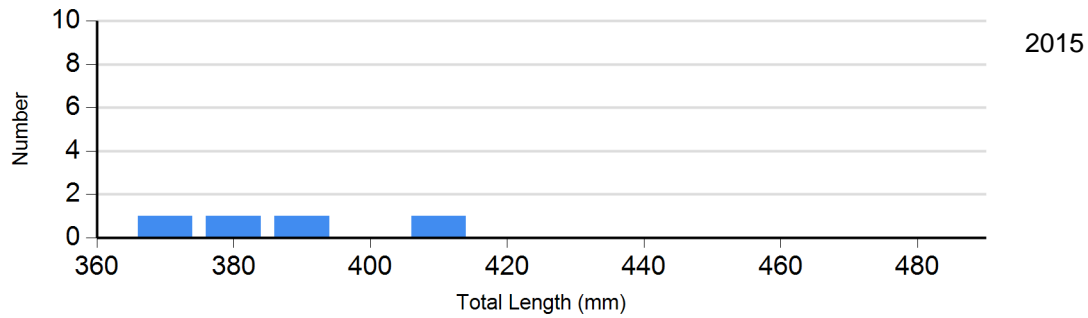
**Site:** 31

**Species:** Brown Trout



**Site:** 31

**Species:** Longnose Sucker



**Site:** 31

**Species:** White Sucker

