

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Flynn Creek, Custer County**  
**21-0034-00**  
**2017**

Table 1. Population and Biomass Estimates for Flynn Creek

<b>Site Number:</b> 87	<b>Date Sampled:</b> 06/02/2017	<b>Conductivity (umhos/cm):</b>
<b>Site Midpoint (Latitude, Longitude):</b> 43.66865687, -103.46352358	<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> 1.7	<b>Water Temperature (C):</b> 15.5
<b>Stream Classification:</b> None	<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)
Creek Chub	All	14	17	27	14	1016	14	170	412	12.70	274	46.4	14.0
Mountain Sucker	All	13	13	13	13	777	21	130	315	18.62	209	93.2	26.8

<b>Site Number:</b> 126	<b>Date Sampled:</b> 08/10/2017	<b>Conductivity (umhos/cm):</b>
<b>Site Midpoint (Latitude, Longitude):</b> 43.68508330, -103.47288268	<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> 1.4	<b>Water Temperature (C):</b> 15.0
<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	1	1	1	1	70	7	10	28	6.32	16	221.0	101.0
Brook Trout	All	1	1	1	1	70	7	10	28	6.32	16	221.0	101.0

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 Flynn Creek, 2007-2017

**Site 87**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 06, 2015	19	19-20	
Brook Trout >=200mm	Aug 06, 2015	3	3-3	BK2
Creek Chub	Aug 06, 2015	15	15-15	
	Jun 28, 2016	4	4-4	
	Jun 02, 2017	17	14-27	
Longnose Dace	Jun 28, 2016	74	74-76	
Mountain Sucker	Aug 06, 2015	16	16-17	

Mountain Sucker	Jun 28, 2016	5	5-7
	Jun 02, 2017	13	13-13

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**Site 126**

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<b>Species/Size</b>	<b>Date</b>	<b>Pop Est.</b>	<b>(95% C.I.)</b>	<b>Stream Classification</b>
Brook Trout >=200mm	Aug 10, 2017	1	1-1	BK2
Creek Chub	Jun 28, 2016	7	7-7	
Longnose Dace	May 26, 2009	3	3-3	
	Jun 28, 2016	80	74-89	
Mountain Sucker	Aug 06, 2015	8	6-19	
	Jun 28, 2016	14	14-15	

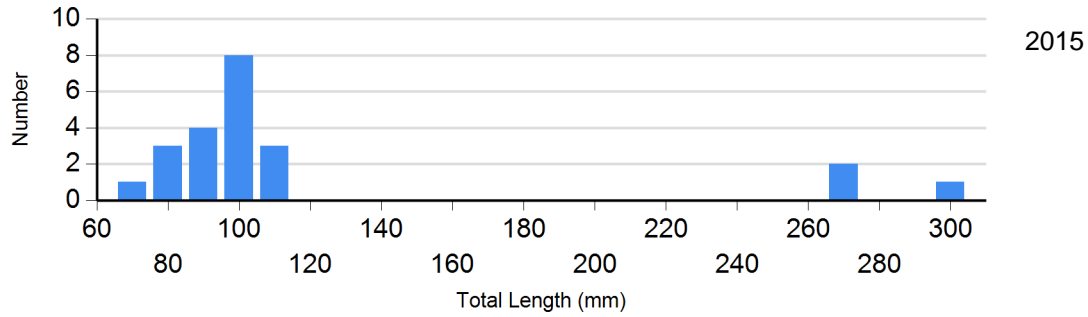
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## Length Frequency Distribution

Length frequency histogram of species sampled by year.

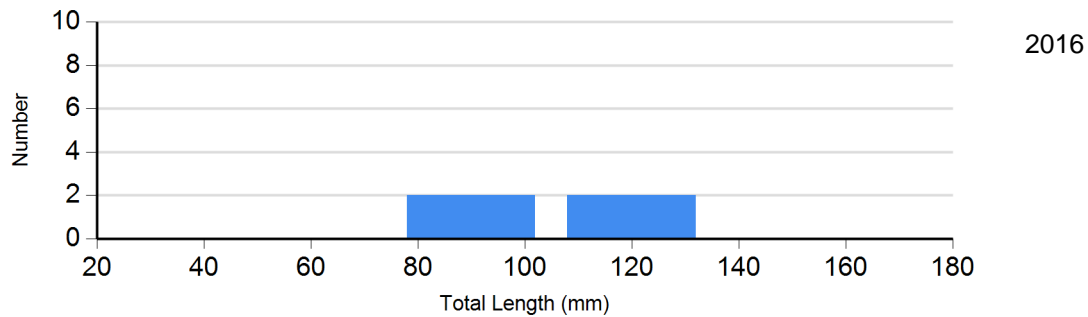
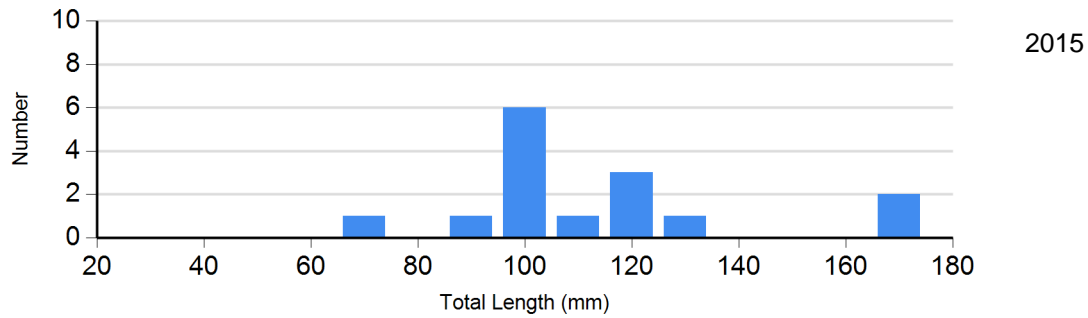
**Site:** 87

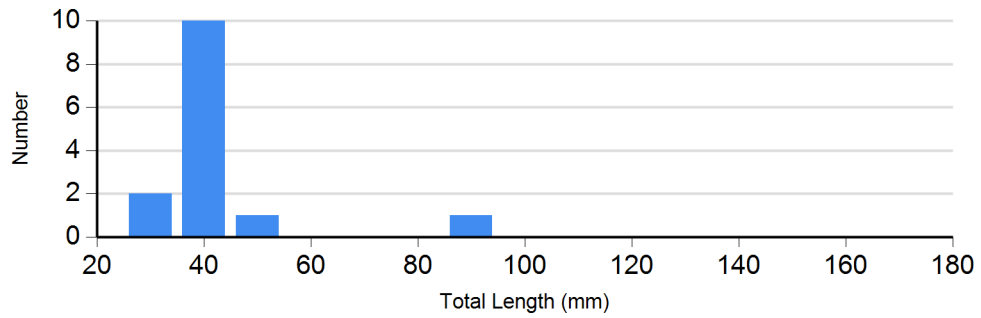
**Species:** Brook Trout



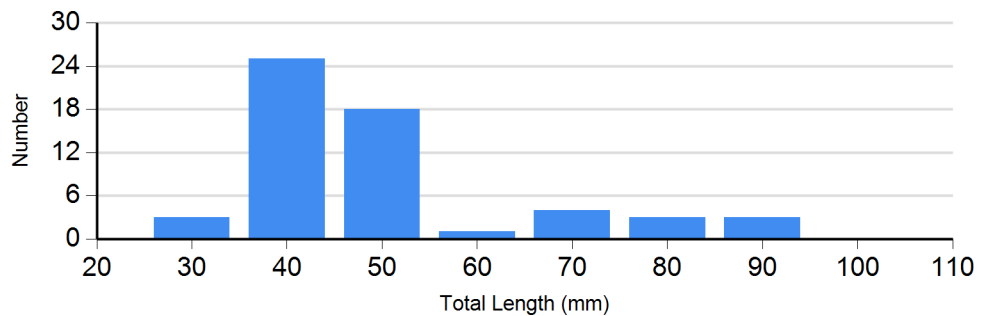
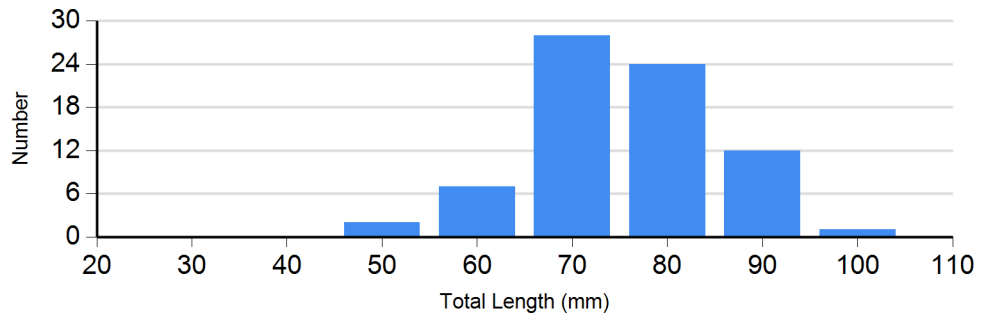
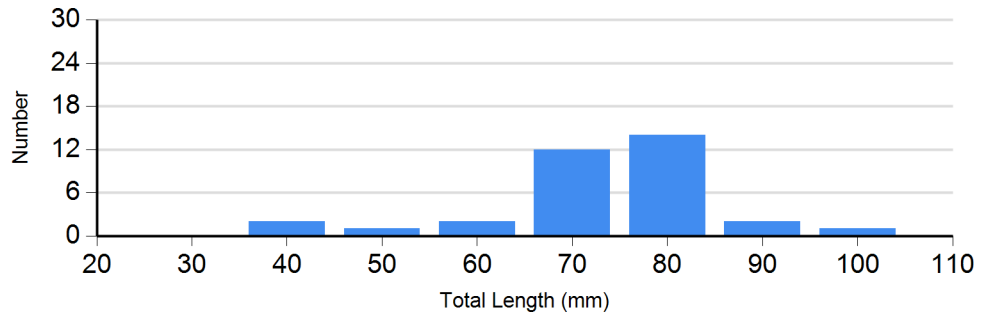
**Site:** 87

**Species:** Creek Chub

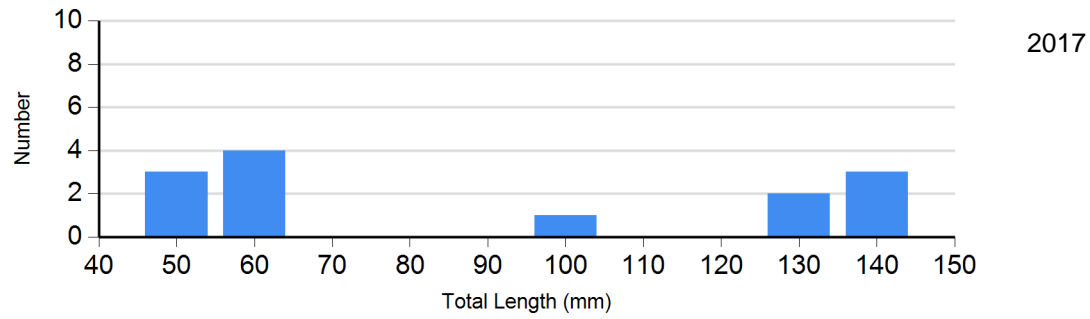
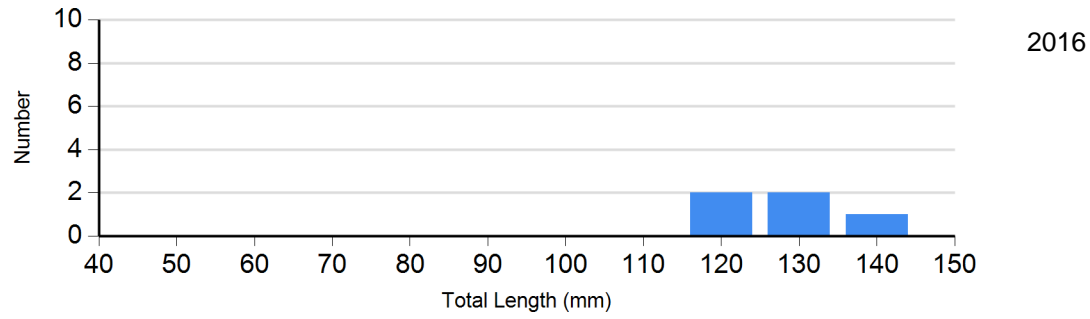
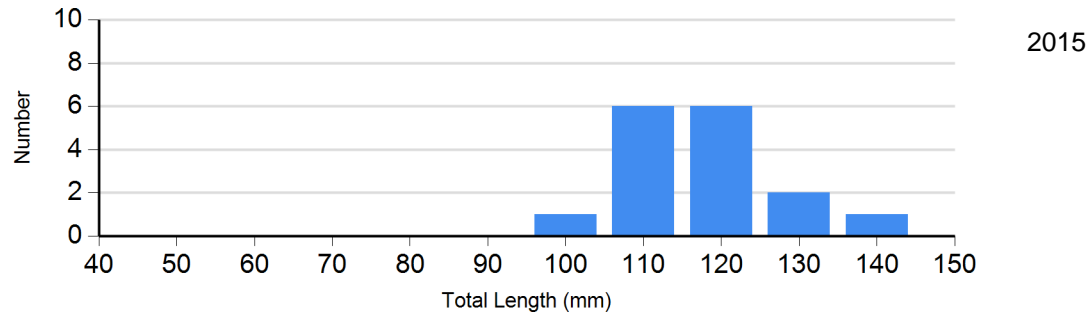




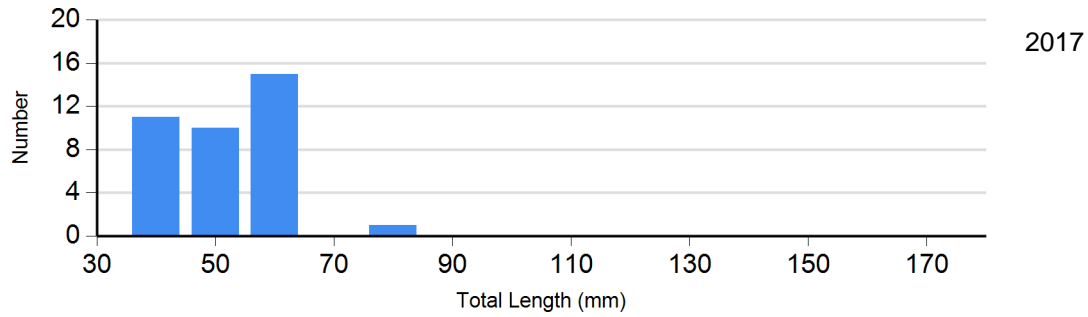
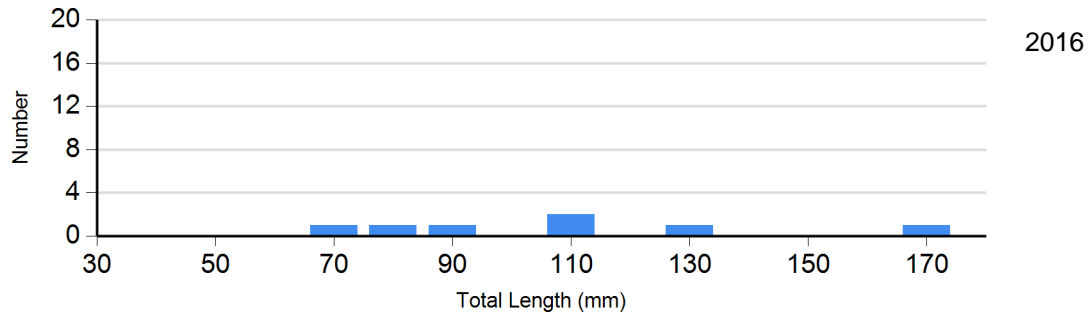
**Site: 87**  
**Species: Longnose Dace**



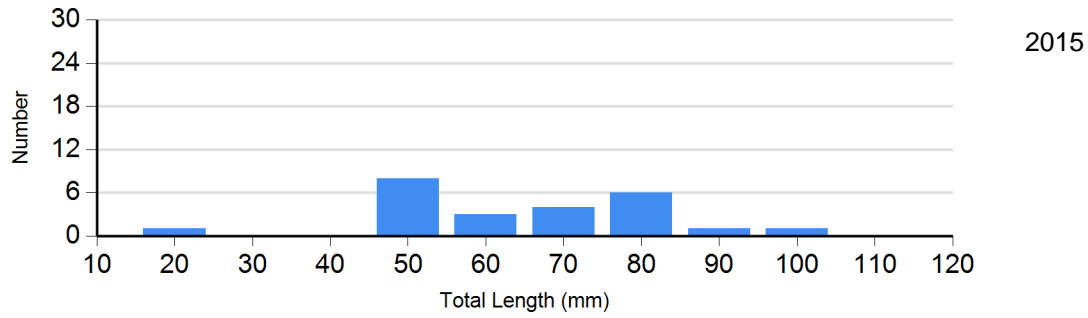
Site: 87  
Species: Mountain Sucker

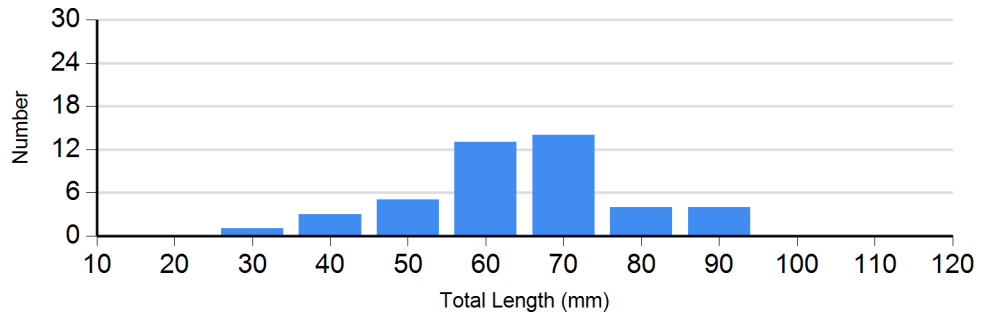
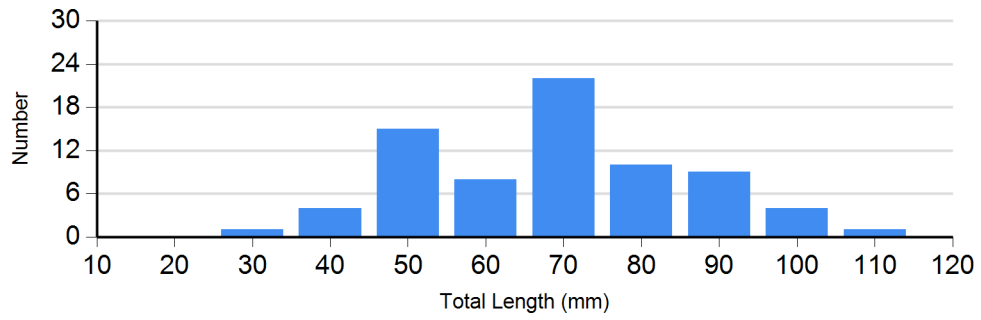


**Site:** 126  
**Species:** Creek Chub



**Site:** 126  
**Species:** Longnose Dace





**Site:** 126  
**Species:** Mountain Sucker

