

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Flynn Creek, Custer County**  
**21-0034-00**  
**2018**

Table 1. Population and Biomass Estimates for Flynn Creek

<b>Site Number:</b> 87	<b>Date Sampled:</b> 07/03/2018	<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> 1.5	<b>Water Temperature (C):</b> 16.0
<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)
Mountain Sucker	All	11	11	12	11	752	10	110	304	8.72	177	93.2	13.0

<b>Site Number:</b> 126	<b>Date Sampled:</b> 07/03/2018	<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> 2.0	<b>Water Temperature (C):</b> 14.0
<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	6	6	7	6	300	7	60	122	6.16	97	70.2	23.0
Mountain Sucker	All	8	7	10	8	350	7	70	142	6.25	113	105.9	20.0

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, 2008-2018

**Site 87**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
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	
	Jun 28, 2016	5	5-7	
	Jun 02, 2017	13	13-13	

Mountain Sucker

Jul 03, 2018

11

11-12

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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>
Creek Chub	Jun 28, 2016	7	7-7	
	Jul 03, 2018	6	6-7	
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	
	Jul 03, 2018	7	8-10	

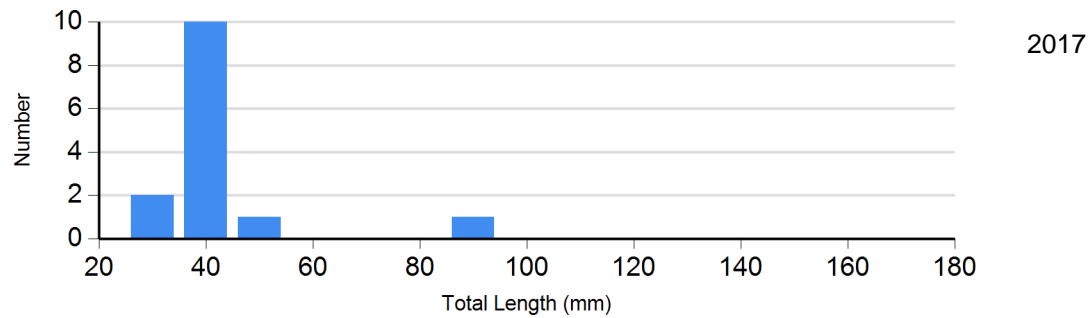
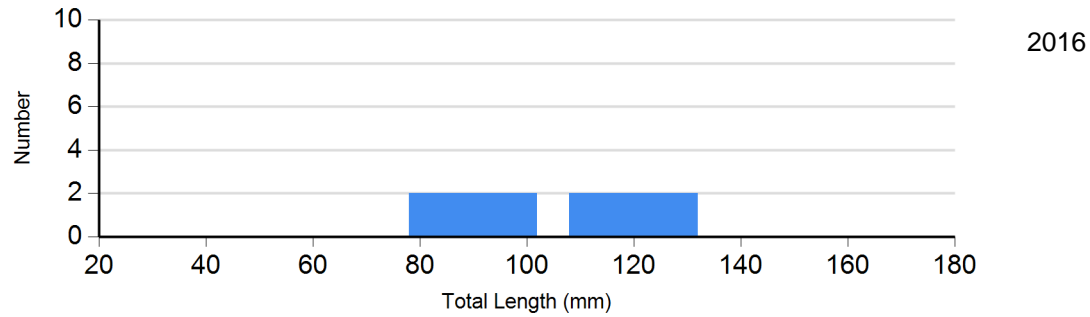
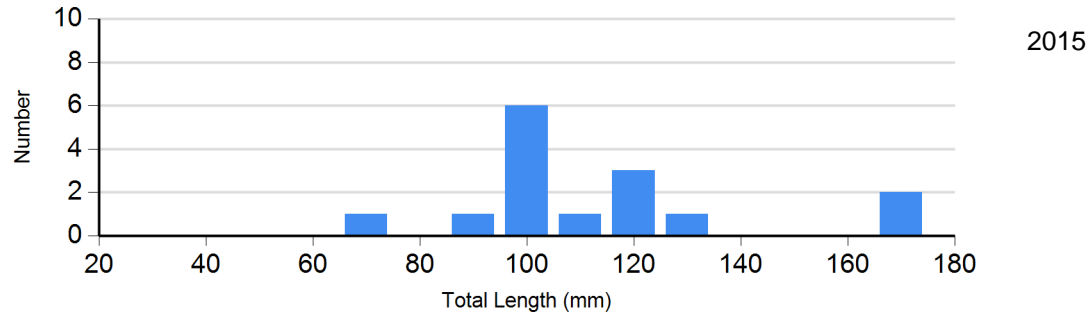
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## Length Frequency Distribution

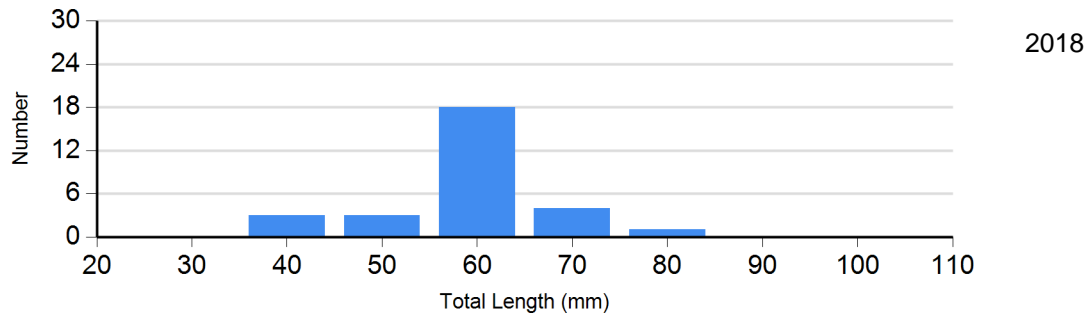
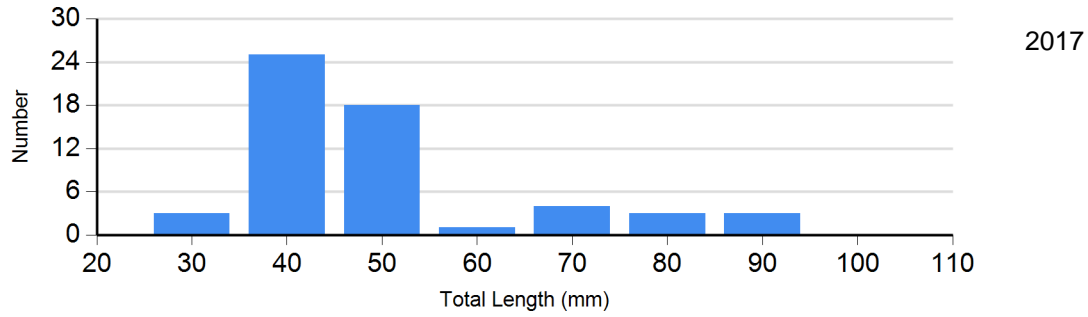
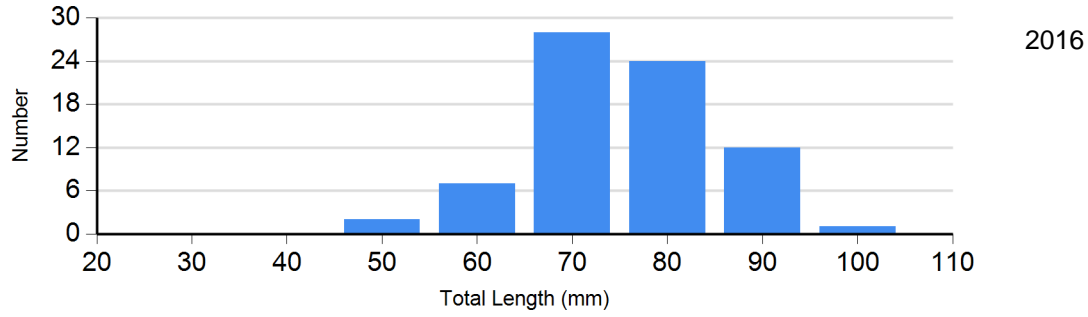
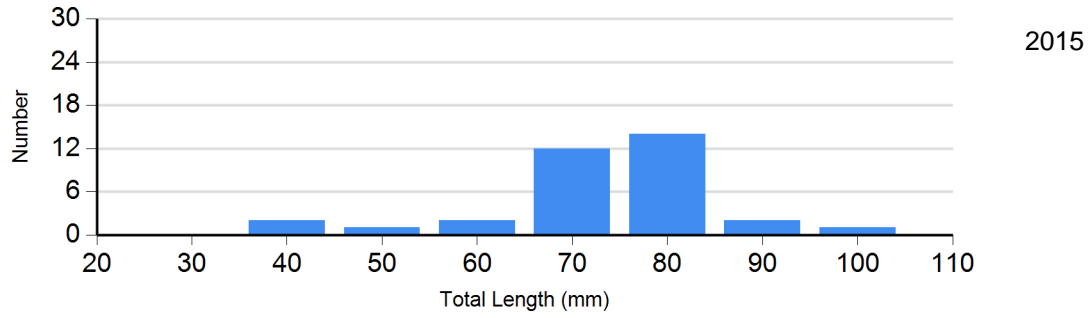
Length frequency histogram of species sampled by year.

**Site:** 87

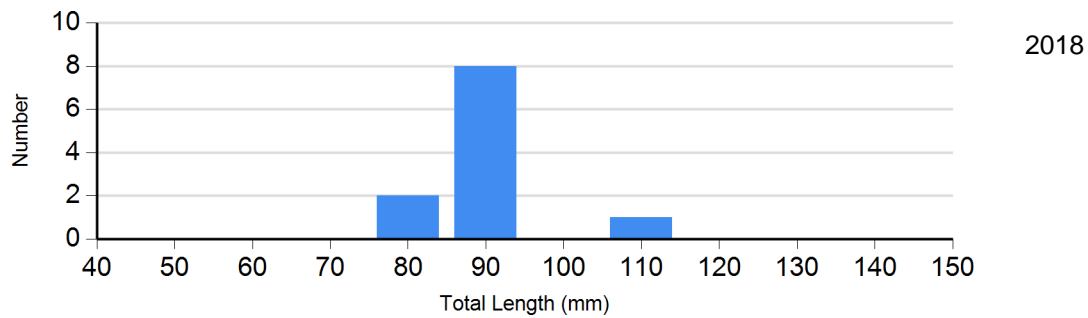
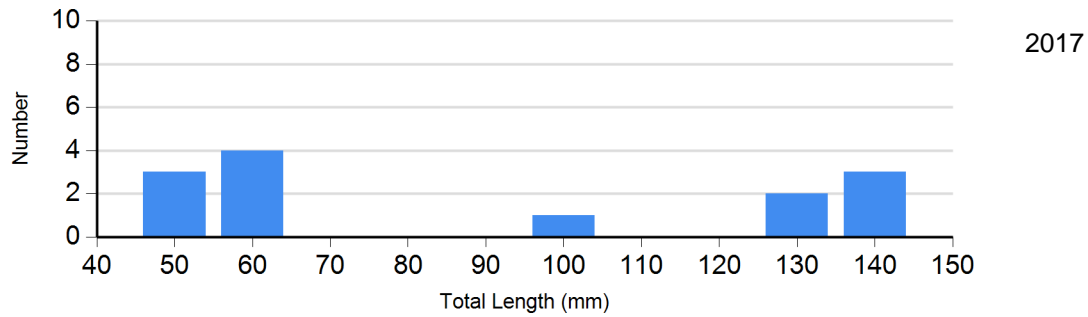
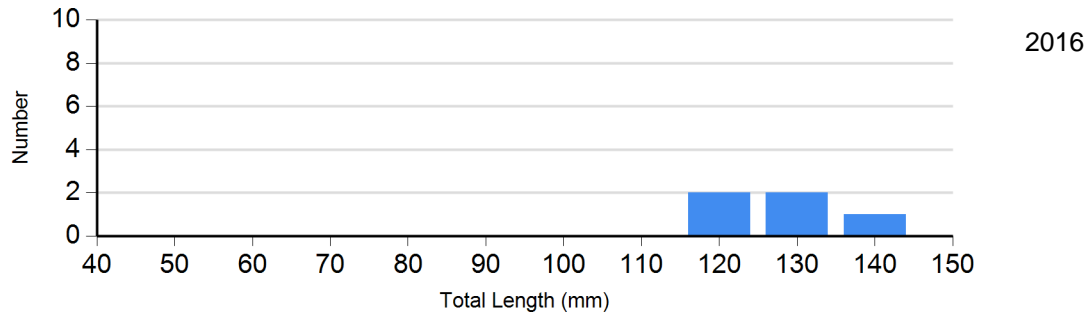
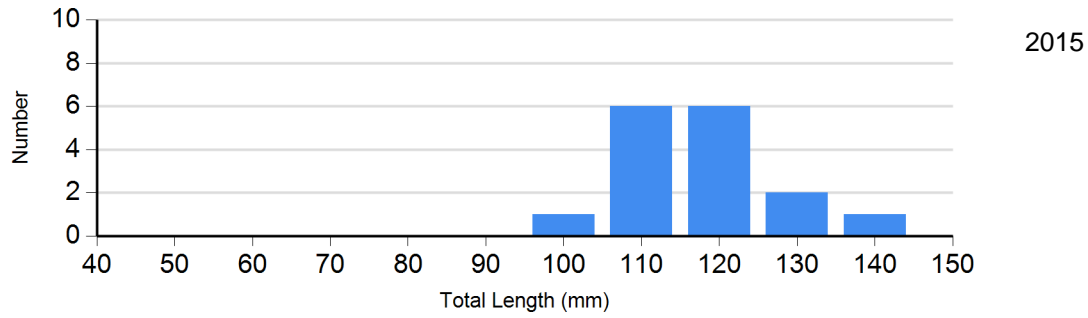
**Species:** Creek Chub



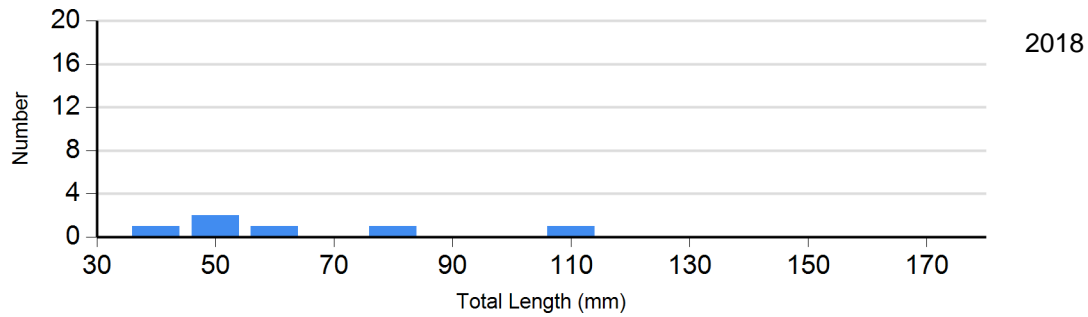
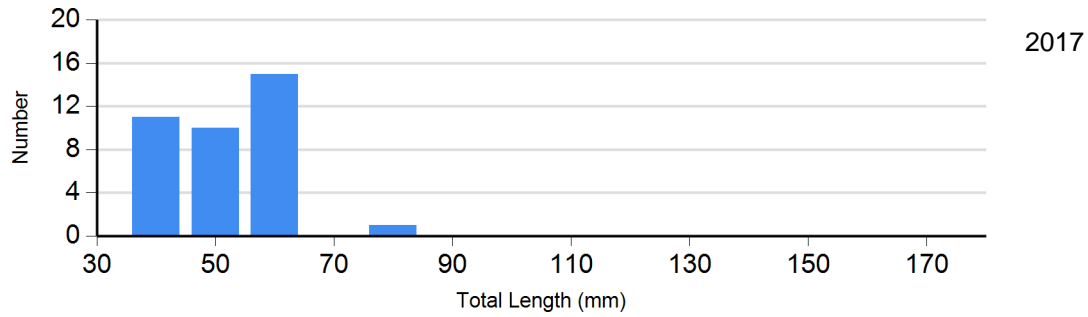
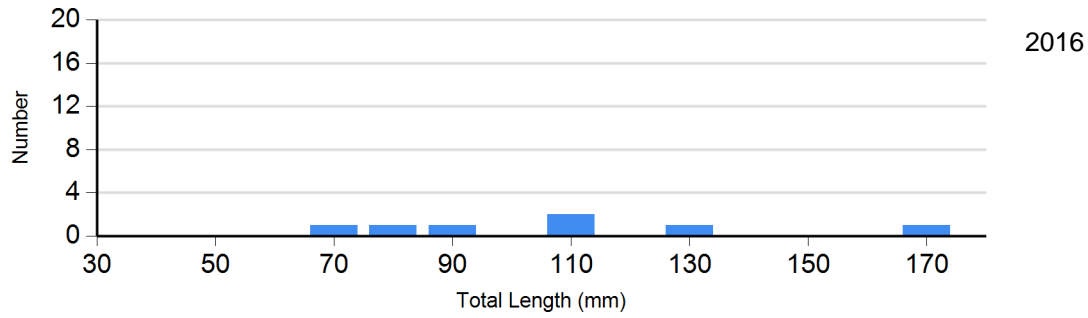
Site: 87  
Species: Longnose Dace



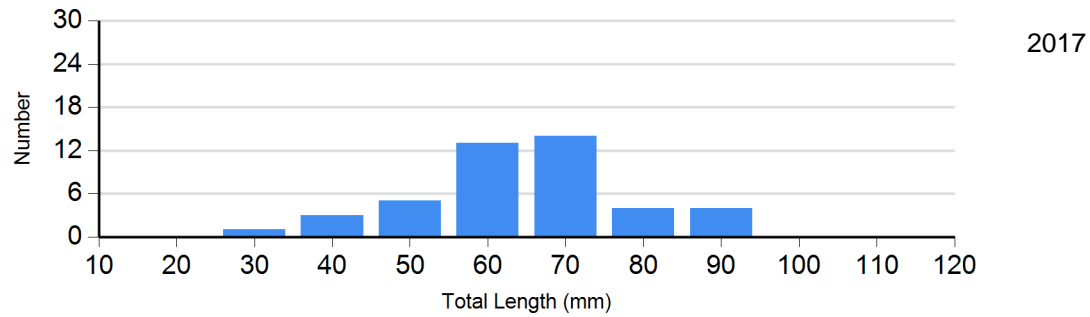
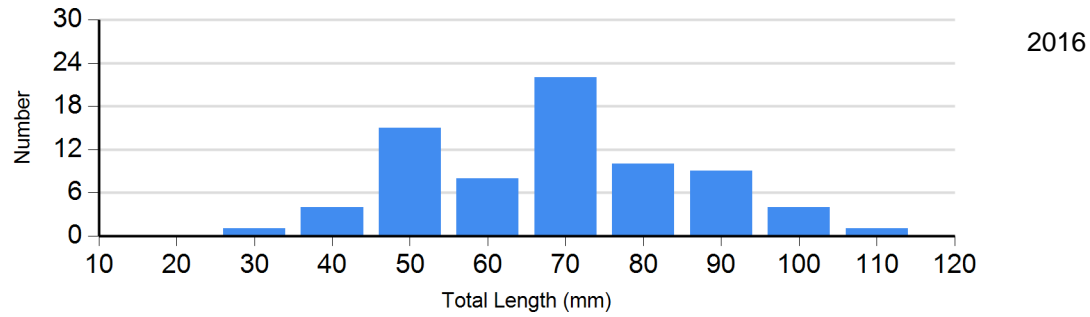
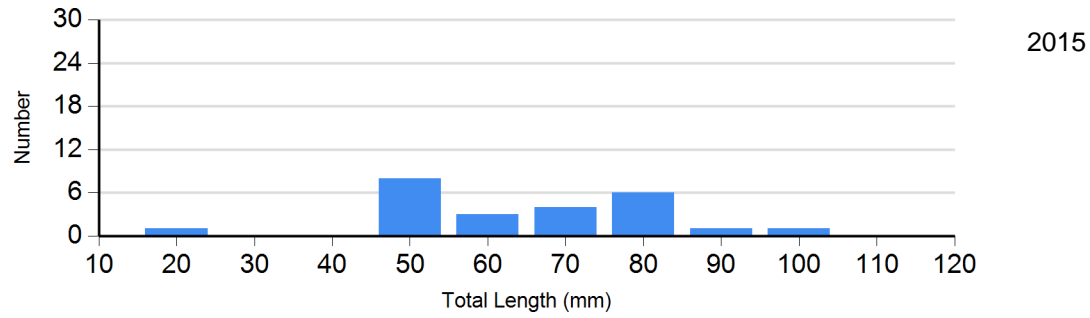
Site: 87  
Species: Mountain Sucker



Site: 126  
Species: Creek Chub



Site: 126  
Species: Longnose Dace





Site: 126  
Species: Mountain Sucker

