

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Flynn Creek, Custer County**  
**21-0034-00**  
**2016**

Table 1. Population and Biomass Estimates for Flynn Creek

**Site Number:** 87 **Date Sampled:** 06/28/2016  
**Site Midpoint (Latitude, Longitude):** 43.66865687, -103.46352358 **Conductivity (umhos/cm):**  
**Survey Completed by:** South Dakota Game, Fish and Parks **pH:**  
**Stream Classification:** None **Water Temperature (C):**  
**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)
Creek Chub	All	4	4	4	4	273	8	40	111	6.71	64	109.8	27.5
Longnose Dace	All	74	74	76	74	5056	40	740	2048	36.11	1191	79.2	8.0
Mountain Sucker	All	5	5	7	5	342	11	50	138	9.82	80	131.8	32.2

**Site Number:** 126 **Date Sampled:** 06/28/2016  
**Site Midpoint (Latitude, Longitude):** 43.68508330, -103.47288268 **Conductivity (umhos/cm):**  
**Survey Completed by:** South Dakota Game, Fish and Parks **pH:**  
**Stream Classification:** None **Water Temperature (C):**  
**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)
Creek Chub	All	7	7	7	7	464	12	70	188	10.60	113	112.3	25.6
Longnose Dace	All	74	80	89	74	5301	146	800	2147	130.17	1287	72.8	27.5
Mountain Sucker	All	14	14	15	14	928	24	140	376	21.54	225	121.1	26.0

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, 2006-2016

**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	
Longnose Dace	Jun 28, 2016	74	74-76	
Mountain Sucker	Aug 06, 2015	16	16-17	
	Jun 28, 2016	5	5-7	

**Site 126**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Creek Chub	Aug 22, 2006	1	1-5	

Creek Chub	Jun 28, 2016	7	7-7
Longnose Dace	Aug 22, 2006	38	37-41
	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

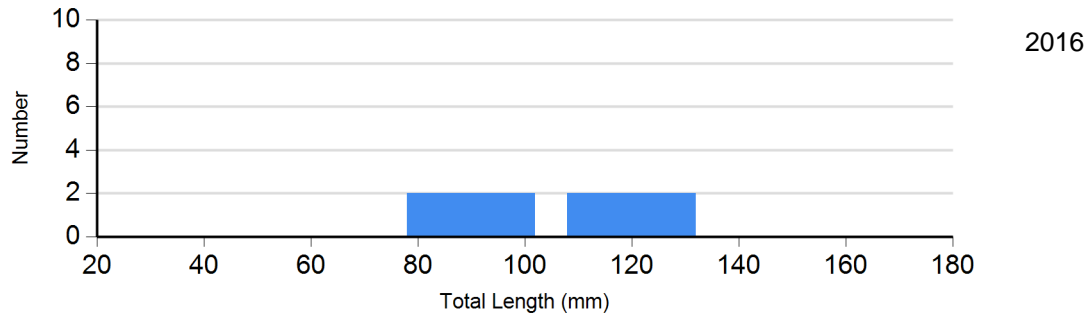
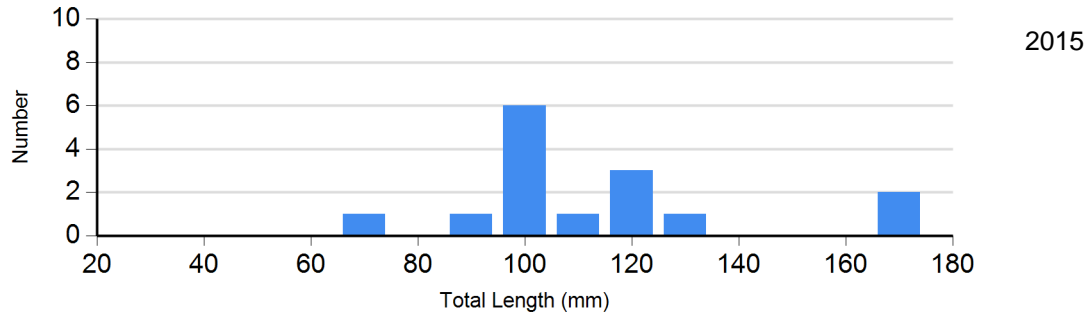
---

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

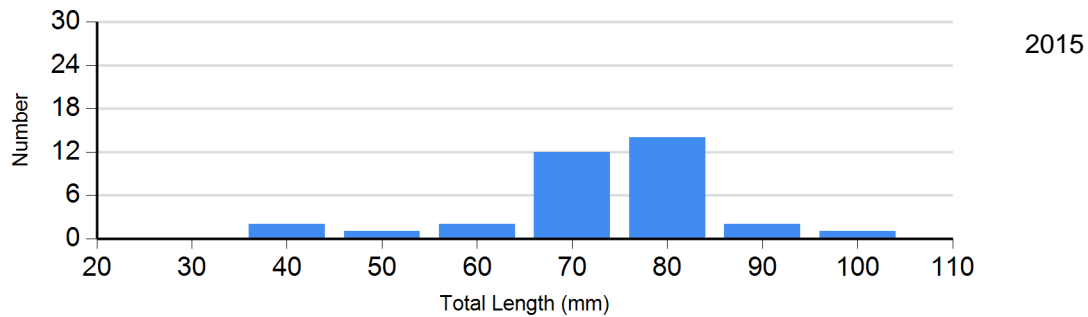
**Site:** 87

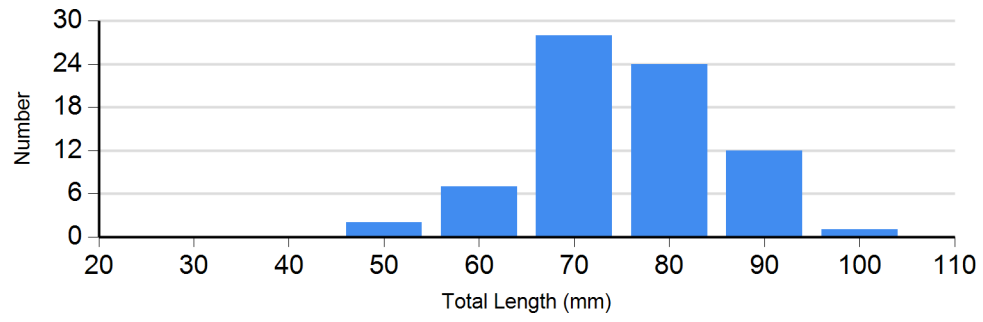
**Species:** Creek Chub



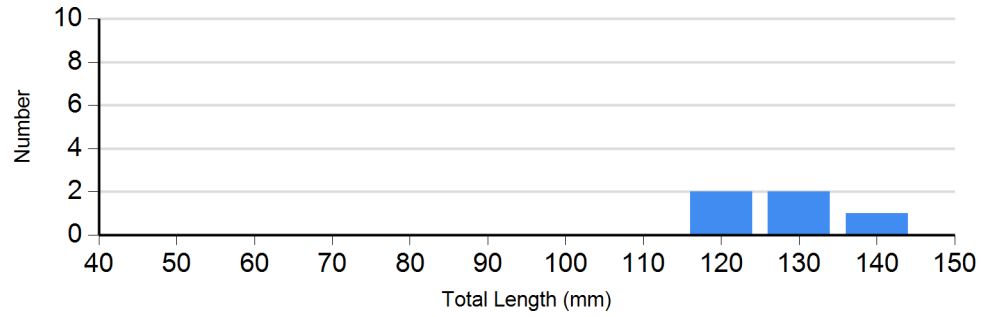
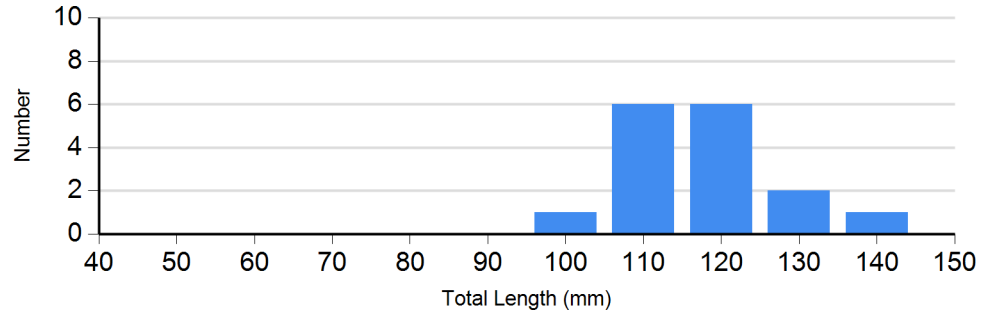
**Site:** 87

**Species:** Longnose Dace

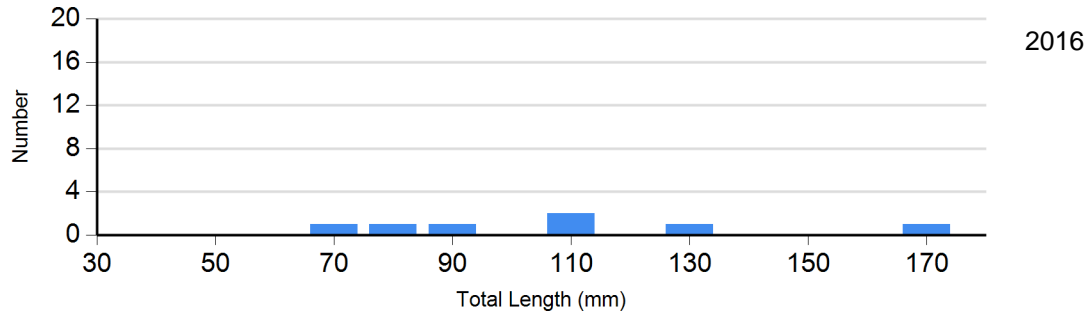




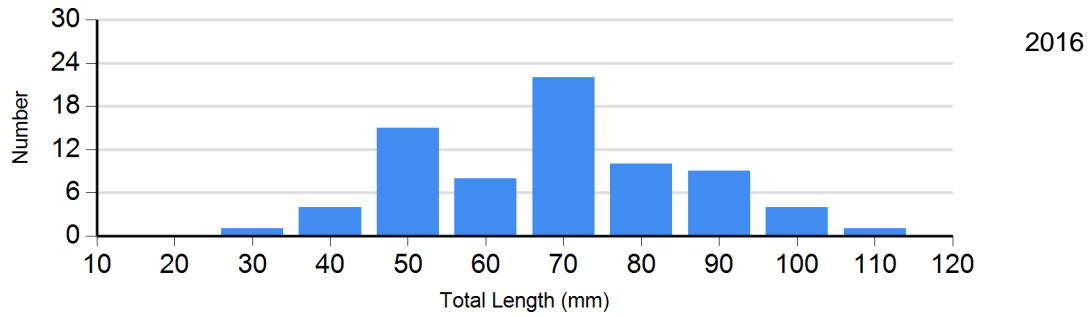
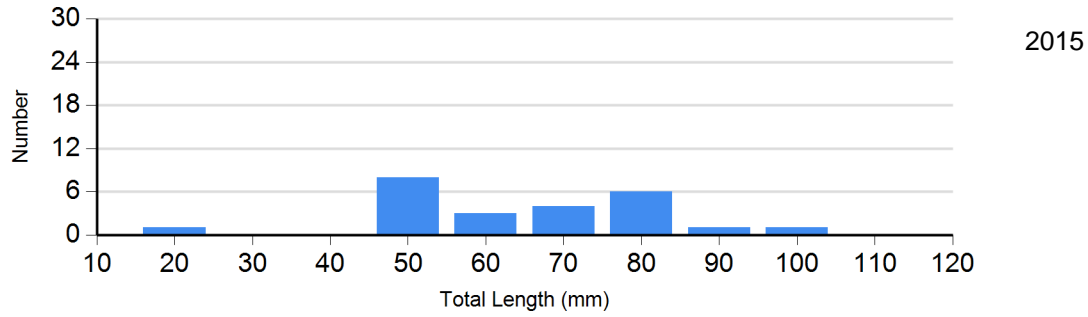
**Site: 87**  
**Species: Mountain Sucker**



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



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



Site: 126  
Species: Mountain Sucker

