

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Flynn Creek, Custer County
21-0034-00
2015

Table 1. Population and Biomass Estimates for Flynn Creek

Site Number: 87	Date Sampled: 08/06/2015	Conductivity (umhos/cm): 476
Site Midpoint (Latitude, Longitude): 43.66865687, -103.46352358	Site Length (m): 100	pH: 8.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.6	Water Temperature (C): 19.0
Stream Classification: BK2	Number of Pass: 3	Voltage: 200

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	19	19	20	19	1203	16	190	487	14.41	306	99.0	13.4
Brook Trout	>=200mm	3	3	3	3	190	54	30	77	47.81	48	281.0	282.0
Brook Trout	All	22	22	23	22	1392	70	220	564	62.22	354	123.8	50.0
Creek Chub	All	15	15	15	15	949	20	150	384	17.80	241	116.1	21.0
Mountain Sucker	All	16	16	17	16	1013	21	160	410	18.37	257	121.0	20.3

Site Number: 126	Date Sampled: 08/06/2015	Conductivity (umhos/cm): 283
Site Midpoint (Latitude, Longitude): 43.68508330, -103.47288268	Site Length (m): 100	pH: 8.0
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.3	Water Temperature (C): 16.0
Stream Classification: None	Number of Pass: 3	Voltage: 200

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	6	8	19	6	603	14	80	244	12.65	129	128.5	23.5

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	
Class BR1	Number of wild Brown Trout exceeds 150 per acre
Class BR2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BR3	Number of wild Brown Trout is less than 25 per acre
Class BK1	Number of wild Brook Trout exceeds 150 per acre
Class BK2	Number of wild Brook Trout ranges from 25 to 150 per acre
Class BK3	Number of wild Brook Trout is less than 25 per acre
Class RB1	Number of wild Rainbow Trout exceeds 25 per acre
Class RB2	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Flynn Creek, 2005-2015

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	
Mountain Sucker	Aug 06, 2015	16	16-17	

Site 126

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Creek Chub	Aug 22, 2006	1	1-5	
Longnose Dace	Aug 22, 2006	38	37-41	

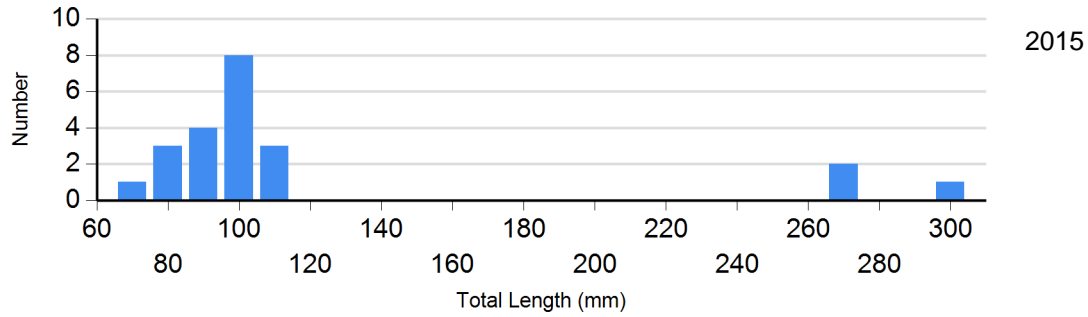
Longnose Dace	May 26, 2009	3	3-3
Mountain Sucker	Aug 06, 2015	8	6-19

Length Frequency Distribution

Length frequency histogram of species sampled by year.

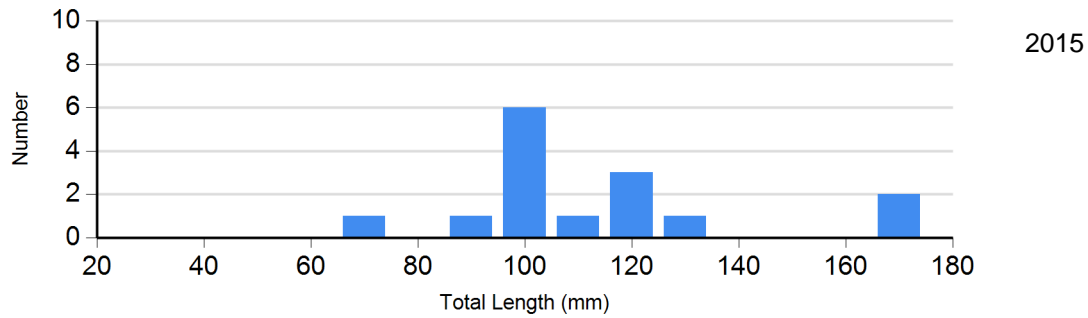
Site: 87

Species: Brook Trout



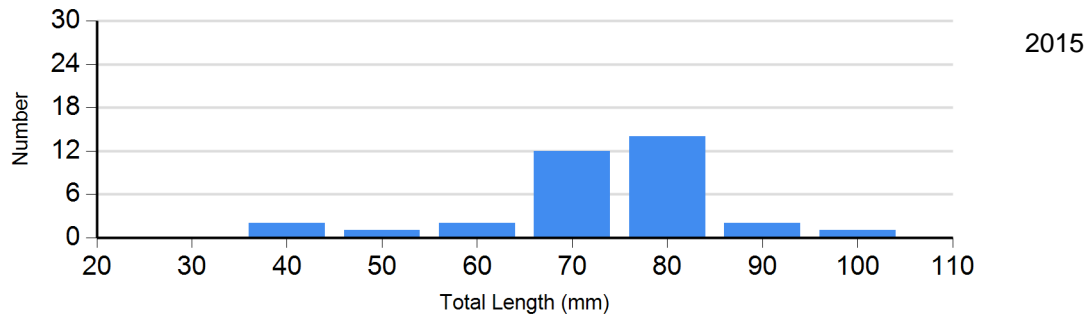
Site: 87

Species: Creek Chub

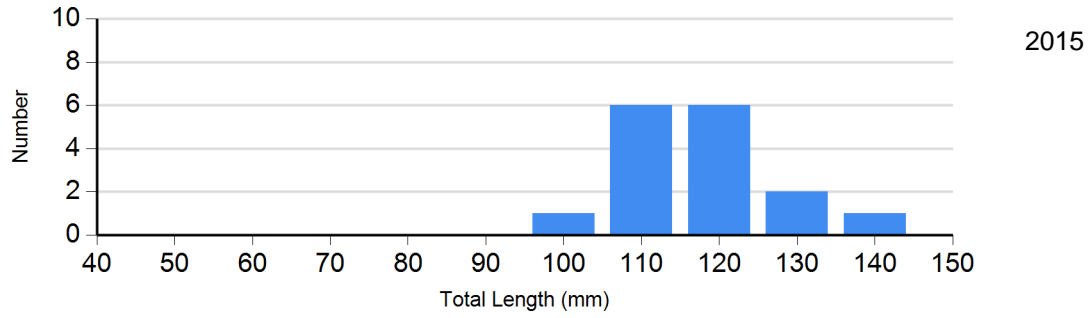


Site: 87

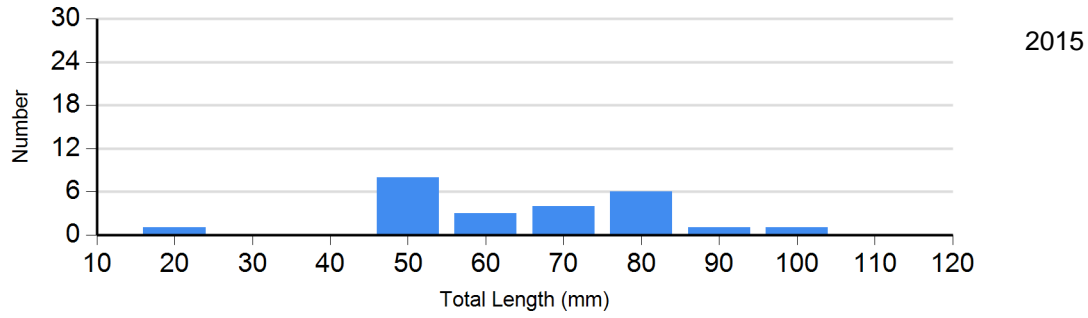
Species: Longnose Dace



Site: 87
Species: Mountain Sucker



Site: 126
Species: Longnose Dace



Site: 126
Species: Mountain Sucker

