

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Spring Creek (Trib. of Redwater), Lawrence County
09-0029-00
2017

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

Site Number: 51
Site Midpoint (Latitude, Longitude): 44.57389878, -103.83252672
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR3

Date Sampled: 08/17/2017
Site Length (m): 100
Mean Width (m): 8.9
Number of Pass: 3

Conductivity (umhos/cm):
pH:
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)
Brown Trout	<200mm	3	3	3	3	34	0	30	14	0.36	48	94.0	12.0
Brown Trout	>=200mm	3	3	3	3	34	4	30	14	3.83	48	235.7	127.0
Brown Trout	All	6	6	6	6	67	7	60	27	5.92	97	164.8	98.3
Creek Chub	All	651	710	737	683	7986	181	7100	3234	161.90	11424	86.5	22.7
Rock Bass	All	118	123	130	118	1383	26	1230	560	23.47	1979	77.2	19.0
White Sucker	All	49	50	53	49	562	11	500	228	9.87	805	125.7	19.7

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 Spring Creek (Trib. of Redwater), 2007-2017

Site 51

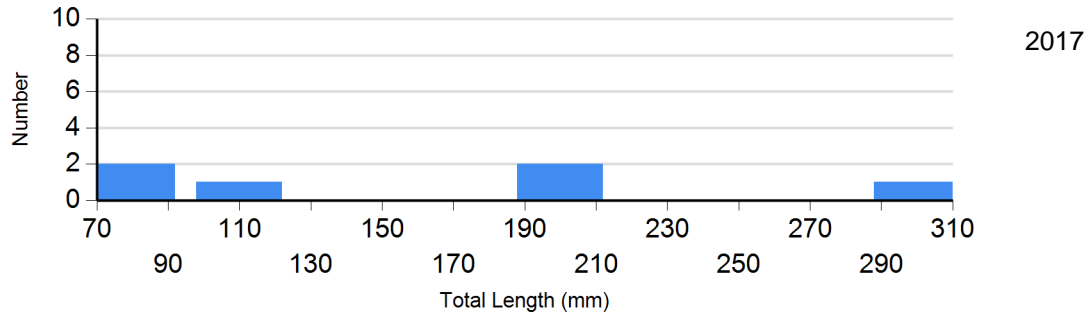
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Aug 17, 2017	3	3-3	
Brown Trout >=200mm	Aug 17, 2017	3	3-3	BR3
Creek Chub	Aug 17, 2017	710	683-737	
Rock Bass	Aug 17, 2017	123	118-130	
White Sucker	Aug 17, 2017	50	49-53	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

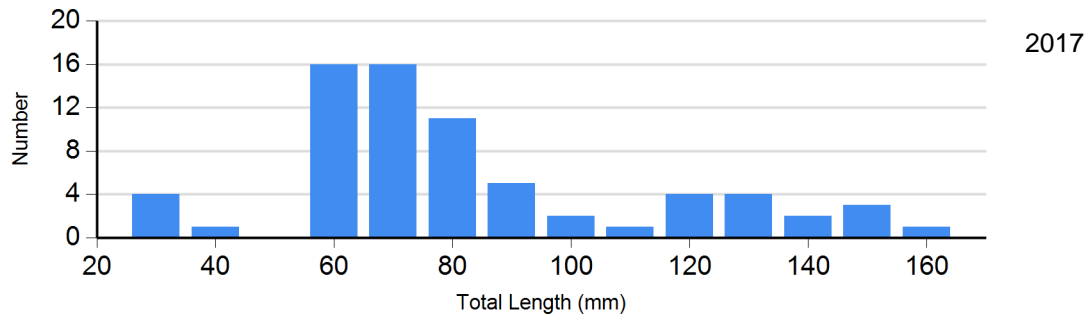
Site: 51

Species: Brown Trout



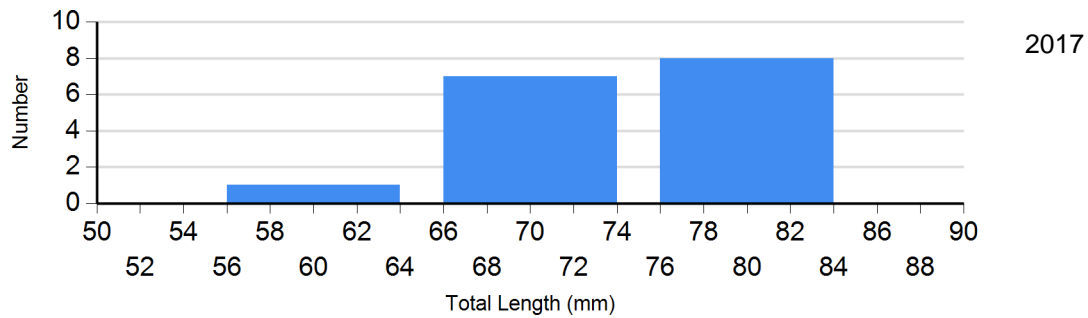
Site: 51

Species: Creek Chub

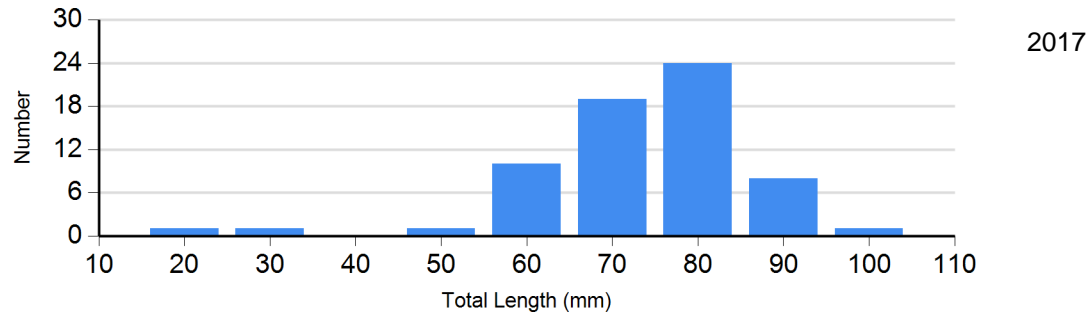


Site: 51

Species: Longnose Dace



Site: 51
Species: Rock Bass



Site: 51
Species: White Sucker

