

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Grizzly Gulch Creek, Lawrence County
09-0061-00
2016

Table 1. Population and Biomass Estimates for Grizzly Gulch Creek

Site Number: 7	Date Sampled: 06/01/2016	Conductivity (umhos/cm): 362
Site Midpoint (Latitude, Longitude): 44.34325398, -103.73824594	Site Length (m): 100	pH: 7.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 0.9	Water Temperature (C): 12.5
Stream Classification: BK0, BR2	Number of Pass: 3	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)
Brook Trout	<200mm	65	65	66	65	7371	195	650	2985	174.41	1046	128.5	26.5
Brook Trout	All	65	65	66	65	7371	195	650	2985	174.41	1046	128.5	26.5
Brown Trout	<200mm	10	10	10	10	1134	50	100	459	44.41	161	119.0	43.9
Brown Trout	>=200mm	3	3	3	3	340	35	30	138	31.29	48	206.7	103.0
Brown Trout	All	13	13	13	13	1474	91	130	597	81.08	209	139.2	61.6

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 Grizzly Gulch Creek, 2006-2016

Site 7

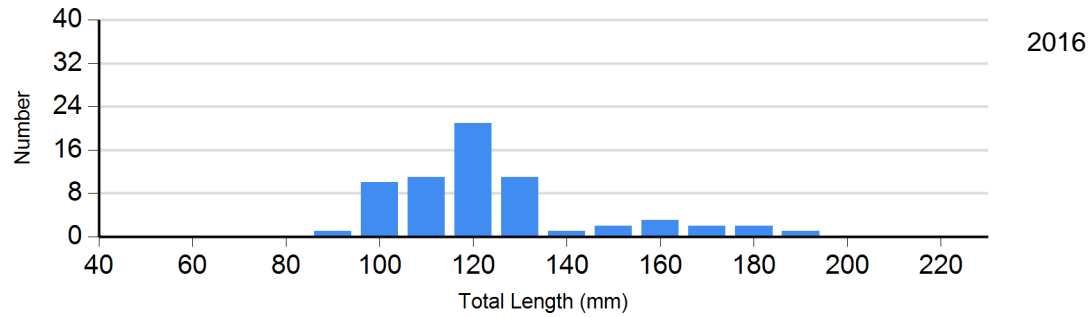
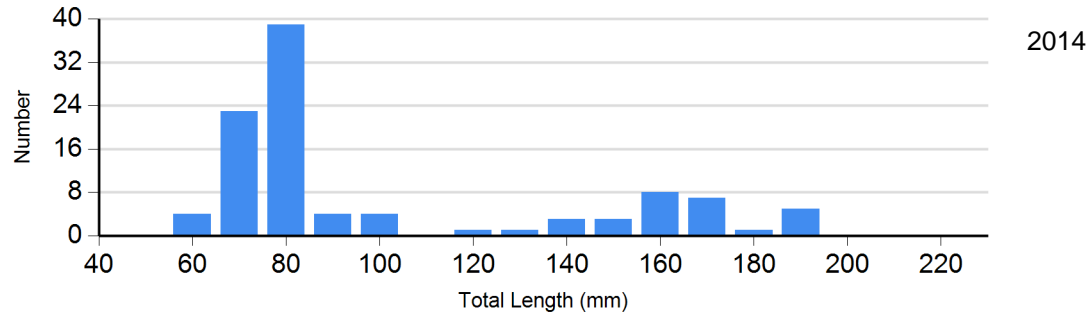
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 07, 2014	39	39-41	
	Aug 25, 2014	64	64-65	
	Jun 01, 2016	65	65-66	
Brown Trout <200mm	Aug 25, 2014	31	30-34	
	Jun 01, 2016	10	10-10	
Brown Trout >=200mm	Aug 07, 2014	2	2-2	BR2
	Jun 01, 2016	3	3-3	BR2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 7

Species: Brook Trout



Site: 7

Species: Brown Trout

