

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Grizzly Gulch Creek, Lawrence County
09-0061-00
2014

Table 1. Population and Biomass Estimates for Grizzly Gulch Creek

Site Number: 7	Date Sampled: 08/07/2014	Conductivity (umhos/cm): 330
Site Midpoint (Latitude, Longitude): 44.34325398, -103.73824594	Site Length (m): 100	pH: 7.3
Survey Completed by:	Mean Width (m): 1.5	Water Temperature (C): 15.3
Stream Classification: BK0, BR2	Number of Pass: 2	Voltage: 300

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	39	39	41	39	2569	118	390	1040	105.22	628	97.4	45.9
Brook Trout	All	39	39	41	39	2569	118	390	1040	105.22	628	97.4	45.9
Brown Trout	>=200mm	2	2	2	2	132	29	20	53	25.52	32	273.5	217.0
Brown Trout	All	14	14	14	14	922	156	140	373	138.87	225	102.8	168.7

Site Number: 7	Date Sampled: 08/25/2014	Conductivity (umhos/cm): 205
Site Midpoint (Latitude, Longitude): 44.34325398, -103.73824594	Site Length (m): 100	pH: 8.0
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.5	Water Temperature (C): 11.0
Stream Classification: BK0, BR0	Number of Pass: 3	Voltage: 350

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	64	64	65	64	4324	123	640	1751	109.96	1030	111.0	28.5
Brook Trout	All	64	64	65	64	4324	123	640	1751	109.96	1030	111.0	28.5
Brown Trout	<200mm	30	31	34	30	2095	15	310	848	13.09	499	79.1	7.0
Brown Trout	All	30	31	34	30	2095	15	310	848	13.09	499	79.1	7.0

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	
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, 2004-2014

Site 7

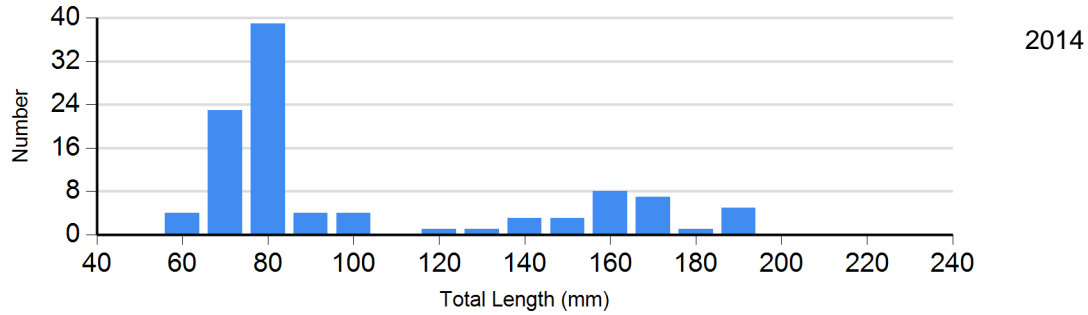
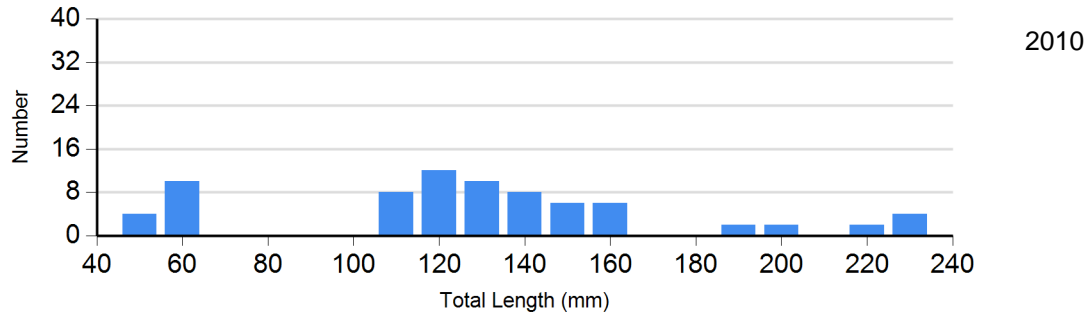
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 07, 2014	39	39-41	
	Aug 25, 2014	64	64-65	
Brown Trout <200mm	Aug 25, 2014	31	30-34	
Brown Trout >=200mm	Aug 07, 2014	2	2-2	BR2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 7

Species: Brook Trout



Site: 7

Species: Brown Trout

