

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Gimlet Creek - East Fork, Lawrence County
10120110010015
2014

Table 1. Population and Biomass Estimates for Gimlet Creek - East Fork

Site Number: 8	Date Sampled: 06/06/2014	Conductivity (umhos/cm): 133
Site Midpoint (Latitude, Longitude): 44.11348107, -103.63948048	Site Length (m): 100	pH: 8.0
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.3	Water Temperature (C): 9.0
Stream Classification: BK0, BR0	Number of Pass: 2	Voltage: 275

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	2	2	2	2	151	7	20	61	6.12	32	152.5	45.5
Brook Trout	All	2	2	2	2	151	7	20	61	6.12	32	152.5	45.5
Brown Trout	<200mm	1	1	1	1	75	4	10	31	3.83	16	169.0	57.0
Brown Trout	All	1	1	1	1	75	4	10	31	3.83	16	169.0	57.0

Site Number: 21	Date Sampled: 06/23/2014	Conductivity (umhos/cm): 118
Site Midpoint (Latitude, Longitude): 44.12272644, -103.64000719	Site Length (m): 100	pH: 7.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.7	Water Temperature (C): 8.5
Stream Classification: BK0	Number of Pass: 1	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	16	16	16	16	931	25	160	377	22.40	257	122.1	26.9
Brook Trout	All	16	16	16	16	931	25	160	377	22.40	257	122.1	26.9

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 Gimlet Creek - East Fork, 2004-2014

Site 8

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 06, 2014	2	2-2	
Brown Trout <200mm	Jun 06, 2014	1	1-1	

Site 21

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 23, 2014	16	16-16	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 21

Species: Brook Trout

