

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Jim Creek, Lawrence County
09-0067-00
2008

Table 1. Population and Biomass Estimates for Jim Creek

Site Number: 44	Date Sampled: 06/23/2008	Conductivity (umhos/cm): 308
Site Midpoint (Latitude, Longitude): 44.14568942, -103.50326089	Site Length (m): 100	pH: 8.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 3.9	Water Temperature (C): 16.0
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	26	26	26	26	665	26	260	269	23.04	418	131.8	38.8
Brook Trout	All	26	26	26	26	665	26	260	269	23.04	418	131.8	38.8

Site Number: 105	Date Sampled: 06/23/2008	Conductivity (umhos/cm): 280
Site Midpoint (Latitude, Longitude): 44.14548613, -103.55011650	Site Length (m): 100	pH: 7.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.8	Water Temperature (C): 16.0
Stream Classification: BK3	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	9	9	9	9	319	15	90	129	13.59	145	159.7	47.7
Brook Trout	>=200mm	1	1	1	1	35	4	10	14	3.58	16	206.0	113.0
Brook Trout	All	10	10	10	10	355	19	100	144	17.17	161	164.3	54.2

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 Jim Creek, 1998-2008

Site 44

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 23, 2008	26	26-26	

Site 105

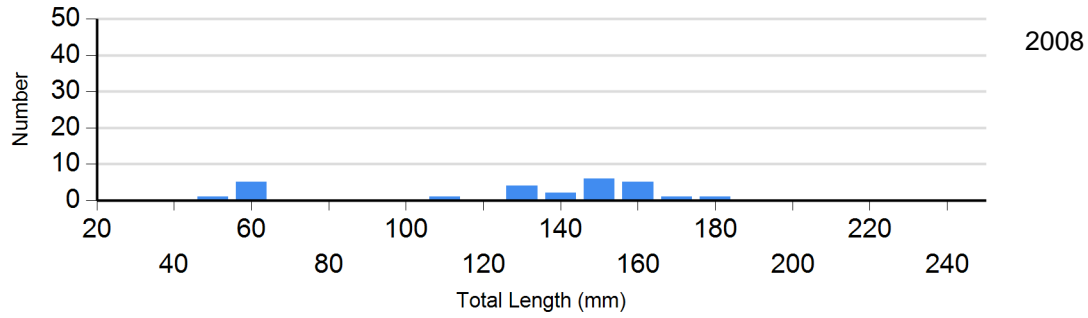
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 23, 2008	9	9-9	
Brook Trout >=200mm	Jun 23, 2008	1	1-1	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 44

Species: Brook Trout



Site: 105

Species: Brook Trout

