

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Cousin Jack Creek, Lawrence County
10120110000359
All Years

Table 1. Population and Biomass Estimates for Cousin Jack Creek

Site Number: 3	Date Sampled: 07/30/2014	Conductivity (umhos/cm): 196
Site Midpoint (Latitude, Longitude): 44.22157979, -103.78281599	Site Length (m): 100	pH: 8.0
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.0	Water Temperature (C): 10.5
Stream Classification: BK0	Number of Pass: 1	Voltage: 265

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	60	60	60	60	5739	235	600	2324	210.10	965	56.8	41.0
Brook Trout	All	116	116	116	116	11096	455	1160	4494	406.19	1866	56.8	41.0

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 Cousin Jack Creek, 2004-2014

Site 3

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 30, 2014	60	60-60	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 3

Species: Brook Trout

