

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Estes Creek, Lawrence County
09-0068-00
2014

Table 1. Population and Biomass Estimates for Estes Creek

Site Number: 56

Date Sampled: 06/10/2014

Conductivity (umhos/cm):

Site Midpoint (Latitude, Longitude): 44.16913772, -103.53501782

Site Length (m): 100

pH:

Survey Completed by:

Mean Width (m): 2.3

Water Temperature (C):

Stream Classification: BK3

Number of Pass: 3

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	120	135	150	120	5940	189	1350	2406	168.77	2172	71.5	31.8
Brook Trout	>=200mm	1	1	1	1	44	4	10	18	3.42	16	205.0	87.0
Brook Trout	All	121	135	150	121	5940	200	1350	2406	178.86	2172	72.6	33.7

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 Estes Creek, 2004-2014

Site 56

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 10, 2014	135	120-150	
Brook Trout >=200mm	Jun 10, 2014	1	1-1	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 56

Species: Brook Trout

