

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Little Spearfish Creek, Lawrence County
09-0017-00
2001

Table 1. Population and Biomass Estimates for Little Spearfish Creek

Site Number: 92

Date Sampled: 08/30/2001

Conductivity
(umhos/cm):

Site Midpoint (Latitude, Longitude): 44.32643606, -103.99361284

Site Length (m): 107

pH:

Survey Completed by: Chadwick Ecological Services

Mean Width (m): 2.1

Water Temperature (C):

Stream Classification: None

Number of Pass: 3

Voltage:

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)
Mountain Sucker	All	18	18	19	18	844	24	168	342	21.78	271	115.6	28.9

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 Little Spearfish Creek, 1991-2001

Site 92

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Mountain Sucker	Aug 30, 2001	18	18-19	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 92

Species: Mountain Sucker

