

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Two Bit Creek, Lawrence County
09-0031-00
2008

Table 1. Population and Biomass Estimates for Two Bit Creek

Site Number: 96	Date Sampled: 08/12/2008	Conductivity (umhos/cm): 249
Site Midpoint (Latitude, Longitude): 44.34987486, -103.69481416	Site Length (m): 100	pH: 8.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.8	Water Temperature (C): 19.0
Stream Classification: BK2	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	71	71	71	71	3985	118	710	1614	105.13	1142	138.5	29.5
Brook Trout	>=200mm	3	3	3	3	168	15	30	68	13.83	48	210.7	92.0
Brook Trout	All	196	196	196	196	11000	353	1960	4455	315.09	3154	141.5	32.1

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 Two Bit Creek, 1998-2008

Site 96

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 30, 1998	334	326-342	
	Aug 12, 2008	71	71-71	
Brook Trout >=200mm	Sep 30, 1998	2	2-2	BK2
	Aug 12, 2008	3	3-3	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 96

Species: Brook Trout

