

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Deadwood Creek, Lawrence County
09-0060-00
2002

Table 1. Population and Biomass Estimates for Deadwood Creek

Site Number: 46	Date Sampled: 08/28/2002	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.36428734, -103.77938126	Site Length (m): 91	pH:
Survey Completed by: Chadwick Ecological Services	Mean Width (m): 3.4	Water Temperature (C): 15.0
Stream Classification: BK0	Number of Pass: 3	Voltage: 125

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	50	50	51	50	1482	21	549	600	18.76	884	107.7	14.2
Brook Trout	All	50	50	51	50	1482	21	549	600	18.76	884	107.7	14.2

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 Deadwood Creek, 1992-2002

Site 46

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 20, 1992	191	188-196	
	Aug 20, 1992	285	277-293	
	Oct 13, 1994	31	30-34	
	Sep 25, 1996	70	70-72	
	Sep 11, 1997	104	104-105	
	Oct 17, 2001	204	197-211	
	Aug 28, 2002	50	50-51	
Brook Trout >=200mm	Aug 20, 1992	10	10-10	BK1
	Oct 13, 1994	10	9-15	BK3

Brook Trout >=200mm	Sep 25, 1996	25	25-26	BK3
	Sep 11, 1997	16	16-16	BK1
	Oct 17, 2001	1	1-2	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 46

Species: Brook Trout

