SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Whitetail Creek, Lawrence County

09-0059-00

1998

 Table 1. Population and Biomass Estimates for Whitetail Creek

Site Number: 50	Date Sampled: 08/26/1998	Conductivity
Site Midpoint (Latitude, Longitude): 44.32465294, -103.79815239	Site Length (m): 100	(umhos/cm):
Survey Completed by: Chadwick Ecological Services	Mean Width (m): 2.0	pH:
Stream Classification: BK2		Water Temperature (C):
	Number of Pass: 2	Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% Cl	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	16	17	22	16	859	18	170	348	16.02	274	114.1	20.9
Brook Trout	>=200mm	5	5	5	5	253	35	50	102	30.84	80	223.4	136.8
Brook Trout	All	21	22	26	21	1111	54	220	450	48.11	354	140.1	48.5

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 BrookTrout 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 Whitetail Creek, 1988-1998

Site 50

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 04, 1997	19	19-21	
	Aug 26, 1998	17	16-22	
Brook Trout >=200mm	Sep 04, 1997	1	1-1	ВКЗ
	Aug 26, 1998	5	5-5	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.



Site: 50 Species: Brook Trout

