SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Tenderfoot Creek, Pennington County 02-9203-00 1993

Table 1. Population and Biomass Estimates for Tenderfoot Creek

Site Midpoint (Latitude, Longitude): 43.85641017, -103.63088494

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0

Site Number: 18

Date Sampled: 06/16/1993 Conductivity
(umhos/cm):

mean Width (m): 0.9

Water Temperature (C): 13.0

Voltage: 450

138

7.8

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	16	16	17	16	1818	50	160	736	44.64	257	134.6	27.5
Brook Trout	All	16	16	17	16	1818	50	160	736	44.64	257	134.6	27.5

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 Tenderfoot Creek, 1983-1993

Site 18

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification		
Brook Trout <200mm	Jun 16, 1993	16	16-17	_		

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 18 Species: Brook Trout

