SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Cleopatra Creek, Lawrence County 09-0055-00 1992

Table 1. Population and Biomass Estimates for Cleopatra Creek

Site Number: 55

Site Midpoint (Latitude, Longitude): 44.37280607, -103.85650460

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0

Date Sampled: 06/29/1992

Conductivity (umhos/cm):

Site Length (m): 100

pH:

Mean Width (m): 2.2

Number of Pass: 3

Water Temperature (C):

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)
Brook Trout	<200mm	96	97	100	96	4330	106	970	1754	94.29	1561	127.8	24.4
Brook Trout	All	98	99	102	98	4420	108	990	1790	96.23	1593	127.8	24.4

Site Number: 55

Site Midpoint (Latitude, Longitude): 44.37280607, -103.85650460

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0

Date Sampled: 07/11/1992

Site Length (m): 100

Mean Width (m): 0.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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)
Brook Trout	<200mm	81	86	93	81	0	0	860	0	0.00	1384	128.4	22.6
Brook Trout	All	81	86	93	81	0	0	860	0	0.00	1384	128.4	22.6

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 Cleopatra Creek, 1982-1992

Site 55

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 29, 1992	97	96-100	
	Jul 11, 1992	86	81-93	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 55 Species: Brook Trout

