SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Cascade Creek, Fall River County 27-0026-01 1998

Table 1. Population and Biomass Estimates for Cascade Creek

Site Number: 48

Site Midpoint (Latitude, Longitude): 43.33510799, -103.56025297

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: None

Date Sampled: 08/26/1998

Conductivity (umhos/cm):

2316

Site Length (m): 100

pH:

7.7

Mean Width (m): 4.5

Water Temperature (C):

20.8

Number of Pass: 3

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)
Hatchery Rainbow Trout	>=200mm	1	1	1	1	22	6	10	9	5.10	16	283.0	256.0
Hatchery Rainbow Trout	All	1	1	1	1	22	6	10	9	5.10	16	283.0	256.0
Longnose Dace	All	241	262	278	246	5848	15	2620	2369	13.61	4216	67.2	2.6
White Sucker	All	9	9	10	9	201	14	90	81	12.10	145	183.6	67.4

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 Cascade Creek, 1988-1998

Site 48

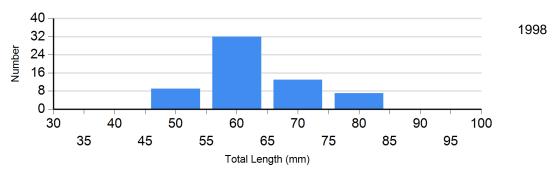
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Hatchery Rainbow Trout >=200mm	Aug 26, 1998	1	1-1	
Longnose Dace	May 11, 1993	2	2-2	
	Aug 26, 1998	262	246-278	
White Sucker	Aug 26, 1998	9	9-10	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 48

Species: Longnose Dace



Site: 48

Species: White Sucker

