SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Cascade Creek, Fall River County 27-0026-01 2015

Table 1. Population and Biomass Estimates for Cascade Creek

Site Number: 48

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

Survey Completed by:

Stream Classification: RB2

Date Sampled: 05/20/2015

Site Length (m): 100

Mean Width (m): 3.3

Number of Pass: 3

Conductivity 2510 (umhos/cm):

pH: 7.5

Water Temperature (C): 19.3

Voltage: 145

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)
Rainbow Trout	>=200mm	2	2	2	2	61	12	20	25	10.34	32	260.0	189.5
Rainbow Trout	All	2	2	2	2	61	12	20	25	10.34	32	260.0	189.5
White Sucker	All	9	9	10	9	275	27	90	111	24.22	145	213.2	98.6

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 Cascade Creek, 2005-2015

Site 48

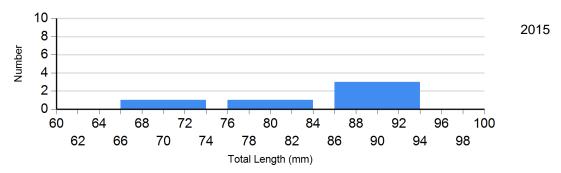
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Rainbow Trout >=200mm	May 20, 2015	2	2-2	RB2
White Sucker	May 20, 2015	9	9-10	

Length Frequency Distribution

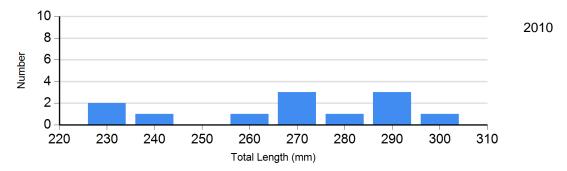
Length frequency histogram of species sampled by year.

Site: 48

Species: Longnose Dace



Site: 48 Species: Rainbow Trout



Site: 48 Species: White Sucker

