SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Vonderlehr Creek, Pennington County 02-9202-00 1993

Table 1. Population and Biomass Estimates for Vonderlehr Creek

Site Number: 1

Site Midpoint (Latitude, Longitude): 43.86691400, -103.67407526

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3, BR0

Date Sampled: 06/16/1993

Site Length (m): 100

Mean Width (m): 1.7

Number of Pass: 3

Conductivity (umhos/cm):

pH: 8.6

185

Water Temperature (C): 11.0

Voltage: 400

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	88	90	94	88	5357	102	900	2170	91.43	1448	117.4	19.1
Brook Trout	>=200mm	1	1	1	1	60	5	10	24	4.73	16	204.0	89.0
Brook Trout	All	89	91	95	89	5417	108	910	2194	96.24	1464	118.4	19.9
Brown Trout	<200mm	1	1	2	1	60	1	10	24	0.48	16	99.0	9.0
Brown Trout	All	1	1	2	1	60	1	10	24	0.48	16	99.0	9.0
Longnose Dace	All	4	4	7	4	238	2	40	96	1.38	64	88.8	6.5

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 Vonderlehr Creek, 1983-1993

Site 1

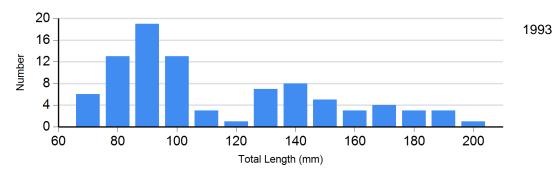
Date	Pop Est.	(95% C.I.)	Stream Classification
Jun 16, 1993	90	88-94	
Jun 16, 1993	1	1-1	ВК3
Jun 16, 1993	1	1-2	
Jun 16, 1993	4	4-7	
	Jun 16, 1993 Jun 16, 1993 Jun 16, 1993	Jun 16, 1993 90 Jun 16, 1993 1 Jun 16, 1993 1	Jun 16, 1993 90 88-94 Jun 16, 1993 1 1-1 Jun 16, 1993 1 1-2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 1

Species: Brook Trout



Site: 1 Species: Longnose Dace

