

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Whitetail Creek, Lawrence County
09-0059-00
1995

Table 1. Population and Biomass Estimates for Whitetail Creek

Site Number: 2

Site Midpoint (Latitude, Longitude): 44.34320234, -103.75974705

Survey Completed by: OEA Research Inc.

Stream Classification: BK3, BR3

Date Sampled: 06/07/1995

Site Length (m): 100

Mean Width (m): 4.8

Number of Pass: 1

Conductivity (umhos/cm):

pH:

Water Temperature (C): 7.2

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	19	19	19	19	393	9	190	159	8.38	306	126.2	23.9
Brook Trout	>=200mm	1	1	1	1	21	2	10	8	1.83	16	211.0	99.0
Brook Trout	All	20	20	20	20	413	11	200	167	10.20	322	130.5	27.7
Brown Trout	<200mm	1	1	1	1	21	1	10	8	0.48	16	134.0	26.0
Brown Trout	>=200mm	1	1	1	1	21	7	10	8	6.38	16	294.0	346.0
Brown Trout	All	2	2	2	2	41	8	20	17	6.86	32	214.0	186.0

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 Brook Trout 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 Whitetail Creek, 1985-1995

Site 2

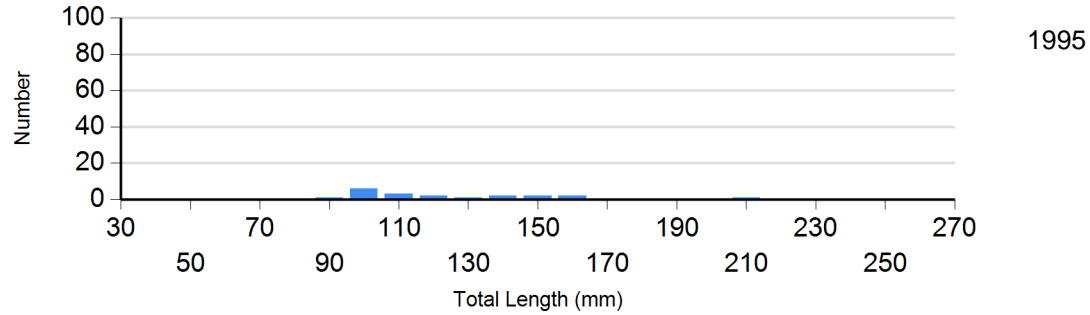
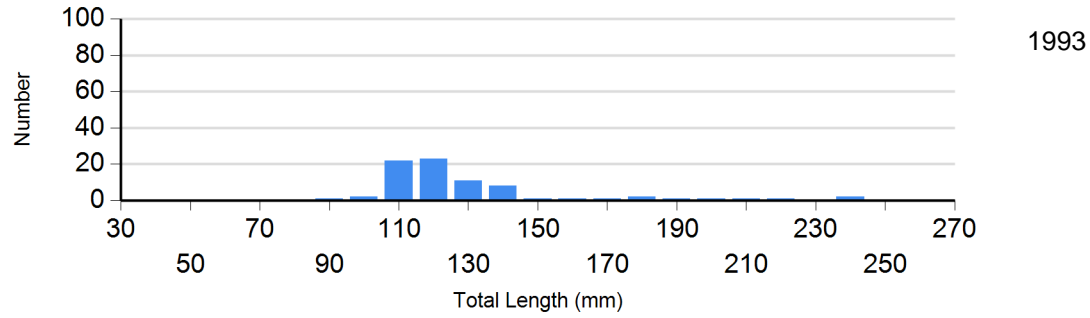
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 15, 1993	75	73-80	
	Jun 07, 1995	19	19-19	
Brook Trout >=200mm	Jul 15, 1993	5	5-5	BK2
	Jun 07, 1995	1	1-1	BK3
Brown Trout <200mm	Jul 15, 1993	10	10-12	
	Jun 07, 1995	1	1-1	
Brown Trout >=200mm	Jun 07, 1995	1	1-1	BR3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 2

Species: Brook Trout



Site: 2

Species: Brown Trout

