

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Two Bit Creek, Lawrence County
09-0031-00
1996

Table 1. Population and Biomass Estimates for Two Bit Creek

Site Number: 77
Site Midpoint (Latitude, Longitude): 44.35971852, -103.68387538
Survey Completed by: OEA Research Inc.
Stream Classification: BK3

Date Sampled: 09/24/1996
Site Length (m): 100
Mean Width (m): 0.0
Number of Pass: 3
Conductivity (umhos/cm):
pH:
Water Temperature (C): 7.0
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	599	657	684	630	0	0	6570	0	0.00	10571	93.8	13.7
Brook Trout	>=200mm	1	1	1	1	0	0	10	0	0.00	16	218.0	112.0
Brook Trout	All	600	658	685	631	0	0	6580	0	0.00	10587	94.0	13.9

Site Number: 83
Site Midpoint (Latitude, Longitude): 44.35696215, -103.68851660
Survey Completed by: OEA Research Inc.
Stream Classification: BK3

Date Sampled: 09/24/1996
Site Length (m): 100
Mean Width (m): 0.0
Number of Pass: 1
Conductivity (umhos/cm):
pH:
Water Temperature (C): 6.0
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	331	331	331	331	0	0	3310	0	0.00	5326	78.4	8.3
Brook Trout	>=200mm	4	4	4	4	0	0	40	0	0.00	64	210.5	105.5
Brook Trout	All	336	336	336	336	0	0	3360	0	0.00	5406	80.0	9.5

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 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 Two Bit Creek, 1986-1996

Site 77

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 24, 1996	657	630-684	
Brook Trout >=200mm	Sep 24, 1996	1	1-1	BK3

Site 83

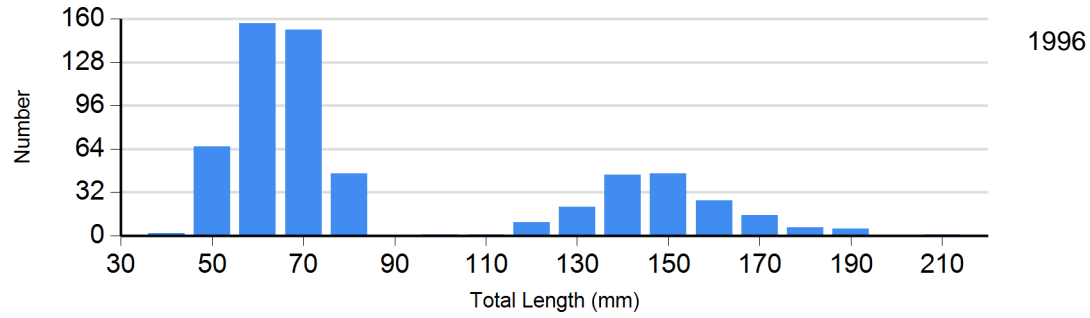
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 24, 1996	331	331-331	
Brook Trout >=200mm	Sep 24, 1996	4	4-4	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 77

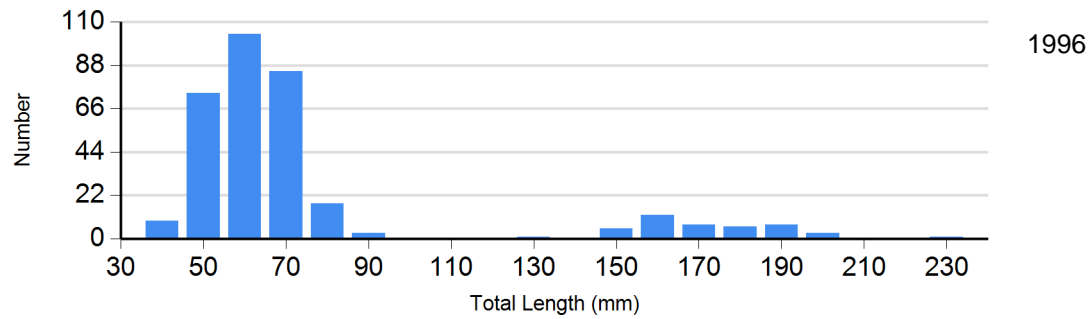
Species: Brook Trout



1996

Site: 83

Species: Brook Trout



1996