

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Deadwood Creek, Lawrence County
09-0060-00
1994

Table 1. Population and Biomass Estimates for Deadwood Creek

Site Number: 46	Date Sampled: 10/13/1994	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.36428734, -103.77938126	Site Length (m): 100	pH:
Survey Completed by: OEA Research Inc.	Mean Width (m): 0.0	Water Temperature (C):
Stream Classification: BK3	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)
Brook Trout	<200mm	30	31	34	30	0	0	310	0	0.00	499	112.1	22.9
Brook Trout	>=200mm	9	10	15	9	0	0	100	0	0.00	161	209.4	96.0
Brook Trout	All	39	41	46	39	0	0	410	0	0.00	660	134.6	39.8

Site Number: 49	Date Sampled: 10/13/1994	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.36269958, -103.78234679	Site Length (m): 100	pH:
Survey Completed by: OEA Research Inc.	Mean Width (m): 0.0	Water Temperature (C):
Stream Classification: BK3	Number of Pass: 4	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	75	90	108	75	0	0	900	0	0.00	1448	100.4	16.2
Brook Trout	>=200mm	8	8	9	8	0	0	80	0	0.00	129	221.4	112.3
Brook Trout	All	83	96	111	83	0	0	960	0	0.00	1545	112.0	25.4

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 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 Deadwood Creek, 1984-1994

Site 46

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 20, 1992	191	188-196	
	Aug 20, 1992	285	277-293	
	Oct 13, 1994	31	30-34	
Brook Trout >=200mm	Aug 20, 1992	10	10-10	BK1
	Oct 13, 1994	10	9-15	BK3

Site 49

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 20, 1992	316	311-322	

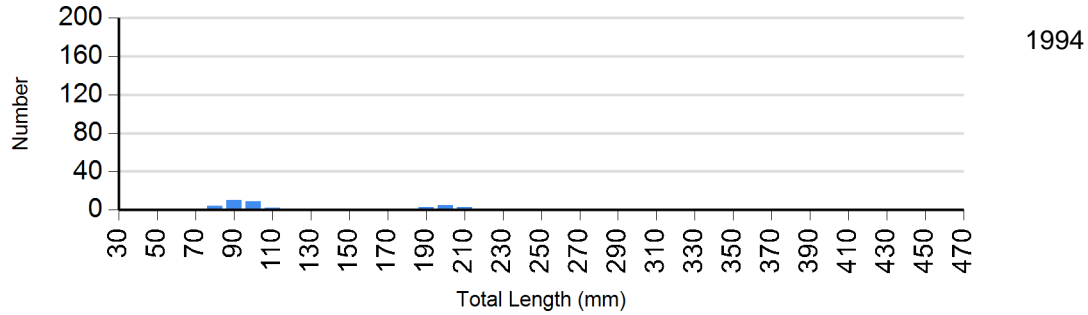
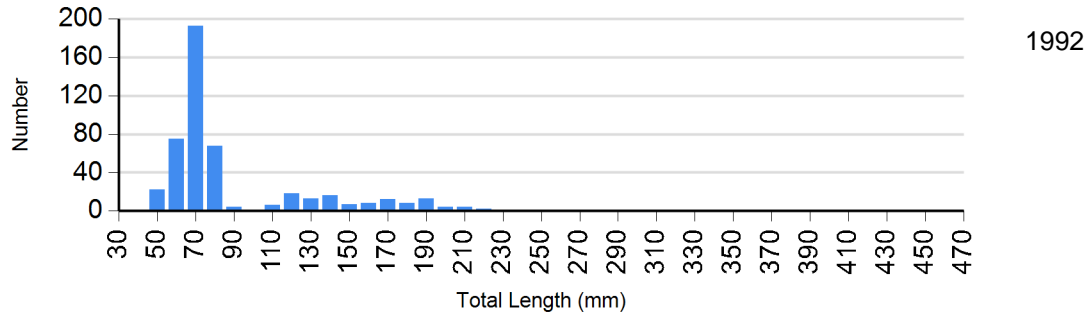
Brook Trout <200mm	Oct 13, 1994	90	75-108	
Brook Trout >=200mm	Aug 20, 1992	1	1-1	BK2
	Oct 13, 1994	8	8-9	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 46

Species: Brook Trout



Site: 49

Species: Brook Trout

