SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Deadwood Creek, Lawrence County 09-0060-00 1992

Table 1. Population and Biomass Estimates for Deadwood Creek

Site Number: 46

Site Midpoint (Latitude, Longitude): 44.36428734, -103.77938126

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK0

Date Sampled: 08/20/1992

Conductivity (umhos/cm):

Site Length (m): 100

Mean Width (m): 1.7

Number of Pass: 3

pH:

Water Temperature (C):

Voltage:

Sp 	oecies	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)
Broo	ok Trout	<200mm	188	191	196	188	11235	77	1910	4550	68.62	3073	76.4	6.8
Broo	ok Trout	All	188	191	196	188	11235	77	1910	4550	68.62	3073	76.4	6.8

Site Number: 46

Site Midpoint (Latitude, Longitude): 44.36428734, -103.77938126

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK1

Date Sampled: 08/20/1992

Site Length (m): 100

Mean Width (m): 0.9

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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	277	285	293	277	30978	500	2850	12546	446.55	4586	100.0	16.1
Brook Trout	>=200mm	10	10	10	10	1087	111	100	440	99.38	161	212.6	102.4
Brook Trout	All	288	297	305	289	32283	618	2970	13074	551.98	4779	104.0	19.1
Longnose Dace	All	1	1	1	1	109	1	10	44	0.68	16	85.0	7.0

Site Number: 49

Site Midpoint (Latitude, Longitude): 44.36269958, -103.78234679

Date Sampled: 08/20/1992

Site Length (m): 100

8/12/2020 Page 1 Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK2

Mean Width (m): 1.2

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

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	311	316	322	311	25902	156	3160	10490	139.65	5084	71.4	6.0
Brook Trout	>=200mm	1	1	1	1	82	8	10	33	6.81	16	202.0	93.0
Brook Trout	All	312	317	323	312	25984	164	3170	10523	146.56	5101	71.8	6.3

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 Deadwood Creek, 1982-1992

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	
Brook Trout >=200mm	Aug 20, 1992	10	10-10	BK1
Longnose Dace	Aug 20, 1992	1	1-1	

Site 49

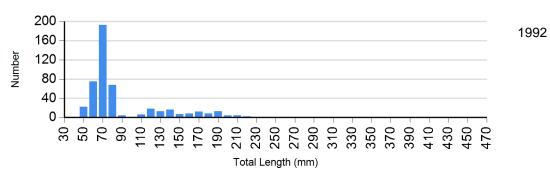
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 20, 1992	316	311-322	
Brook Trout >=200mm	Aug 20, 1992	1	1-1	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 46

Species: Brook Trout



Site: 49 Species: Brook Trout

