SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

False Bottom Creek, Lawrence County 09-0040-00 1997

8/12/2020 Page 1

Table 1. Population and Biomass Estimates for False Bottom Creek

Site Number: 542	Date Sampled: 09/21/1997	Conductivity
Site Midpoint (Latitude, Longitude): 44.39916853, -103.80488353	Site Length (m): 50	(umhos/cm):
Survey Completed by: Chadwick Ecological Services	Mean Width (m): 2.5	pH:
Stream Classification: BK2		Water Temperature (C): 10.5
	Number of Pass: 3	Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% Cl	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	294	301	308	294	12040	95	6020	4876	84.58	9686	86.6	7.9
Brook Trout	>=200mm	5	5	5	5	200	22	100	81	20.04	161	218.8	112.2
Brook Trout	All	299	306	313	299	12240	118	6120	4957	105.05	9847	88.8	9.6
Longnose Dace	All	10	10	11	10	400	1	200	162	1.32	322	75.1	3.7

Site Number: 544	Date Sampled: 09/21/1997	Conductivity
Site Midpoint (Latitude, Longitude): 44.39822078, -103.80297429	Site Length (m): 50	(umhos/cm):
Survey Completed by: Chadwick Ecological Services	Mean Width (m): 0.0	pH:
Stream Classification: BK3, BR0		Water Temperature (C): 11.1
	Number of Pass: 4	Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% Cl	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	298	300	304	298	0	0	6000	0	0.00	9654	88.4	8.1
Brook Trout	>=200mm	12	12	12	12	0	0	240	0	0.00	386	219.2	114.5
Brook Trout	All	311	313	317	311	0	0	6260	0	0.00	10072	93.4	12.2
Brown Trout	<200mm	2	2	2	2	0	0	40	0	0.00	64	162.0	40.0
Brown Trout	All	2	2	2	2	0	0	40	0	0.00	64	162.0	40.0
Longnose Dace	All	9	9	11	9	0	0	180	0	0.00	290	70.1	3.2

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 False Bottom Creek, 1987-1997

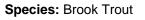
Site 542

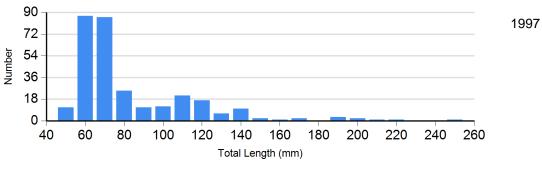
Date	Pop Est.	(95% C.I.)	Stream Classification
Sep 21, 1997	301	294-308	
Sep 21, 1997	5	5-5	BK2
Sep 21, 1997	10	10-11	
Date	Pop Est.	(95% C.I.)	Stream Classification
Sep 21, 1997	300	298-304	
Sep 21, 1997	12	12-12	ВКЗ
	Sep 21, 1997 Sep 21, 1997 Sep 21, 1997 Date Sep 21, 1997	Sep 21, 1997 301 Sep 21, 1997 5 Sep 21, 1997 10 Date Pop Est. Sep 21, 1997 300	Sep 21, 1997 301 294-308 Sep 21, 1997 5 5-5 Sep 21, 1997 10 10-11 Date Pop Est. (95% C.I.) Sep 21, 1997 300 298-304

Length Frequency Distribution

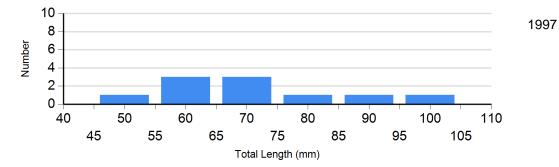
Length frequency histogram of species sampled by year.

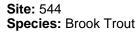


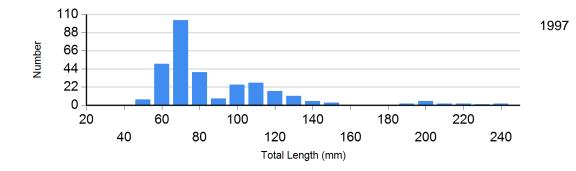












Site: 544 Species: Longnose Dace

