SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Strawberry Creek, Lawrence County 09-0034-00 2003

Table 1. Population and Biomass Estimates for Strawberry Creek

Site Number: 1					Date Sampled: 09/17/20		09/17/2003	•		400			
Site Midpoint (Latitude, Longitude): 44.32376938, -103.65155893 Survey Completed by: South Dakota Game, Fish and Parks							Site Length (m): 100			(umhos/cm): pH:			8.4
•	•		Game, Fish	h and Parks	3		Mean W	idth (m):	1.8	•	er Temper	aturo (C):	8.5
Stream Classi	fication: B	< 0					Number	of Pass:	4		•	ature (C).	
										VOII	age:		300
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	118	118	118	118	6589	36	1180	2668	32.01	1899	81.3	5.4
Brook Trout	All	118	118	118	118	6589	36	1180	2668	32.01	1899	81.3	5.4
Longnose Dace	All	18	18	18	18	1005	5	180	407	4.09	290	78.7	4.6
Site Number:	6						Date Sa	mpled:	09/17/2003		ductivity		650
Site Midpoint ((Latitude, L	.ongitude):	44.323787	28, -103.65	699254		Site Len	gth (m):	100	•	hos/cm):		0.0
Survey Compl	eted by: So	outh Dakota	Game, Fish	h and Parks	3		Mean W	idth (m):	1.5	pH:		-1 (0)	8.2
Stream Classi	fication: B	<0					Number	of Pass:	3		er Temper	ature (C):	8.5
										Volt	age:		300
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	15	15	15	15	1025	17	150	415	15.13	241	114.8	16.5
Brook Trout	All												

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 Strawberry Creek, 1993-2003

Site 1

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 14, 2000	99	97-103	
	Oct 23, 2001	119	59-234	
	Sep 10, 2002	112	112-114	
	Sep 17, 2003	118	118-118	
Brook Trout >=200mm	Sep 14, 2000	1	1-2	ВК3
	Oct 23, 2001	1	1-1	ВК3
Longnose Dace	Sep 14, 2000	42	40-47	

Longnose Dace	Oct 23, 2001	8	6-19
	Sep 10, 2002	8	8-9
	Sep 17, 2003	18	18-18

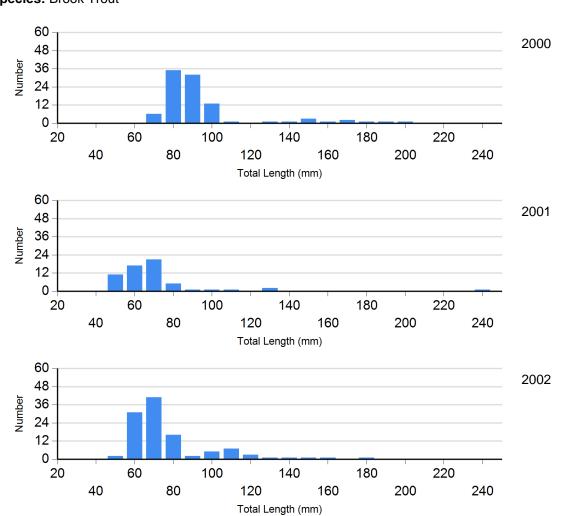
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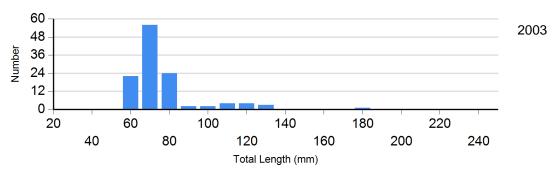
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 20, 2000	8	8-10	
	Oct 23, 2001	4	4-4	
	Sep 10, 2002	7	7-7	
	Sep 17, 2003	15	15-15	
Brook Trout >=200mm	Sep 20, 2000	1	1-1	ВК3
	Oct 23, 2001	1	1-1	BK2

Length Frequency Distribution

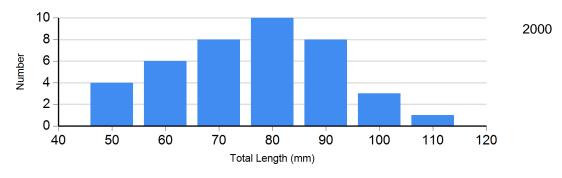
Length frequency histogram of species sampled by year.

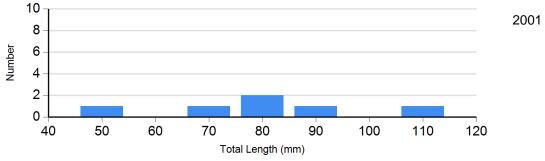
Site: 1 Species: Brook Trout

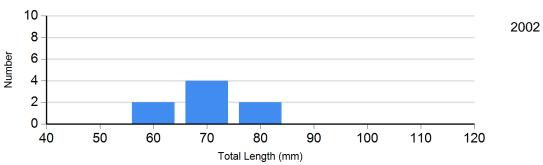


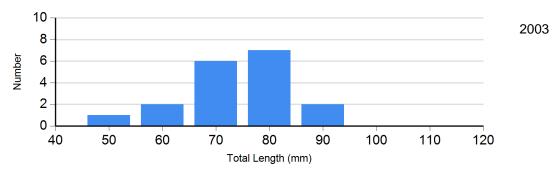


Site: 1 Species: Longnose Dace









Site: 6 Species: Brook Trout

