## SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Iron Creek (South), Pennington County 02-0082-00 2009

Table 1. Population and Biomass Estimates for Iron Creek (South)

Site Number: 102 Date Sampled: 05/18/2009 Conductivity 78
Site Midpoint (Latitude Longitude): 43 84371437 103 40335033 (umhos/cm):

Site Midpoint (Latitude, Longitude): 43.84271427, -103.40235933

Site Length (m): 100

pH: 7.8

Stream Classification: BK3

Mean Width (m): 3.6

Water Temperature (C): 15.2

Wumber of Pass: 1

Voltage: 350

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	13	13	13	13	360	12	130	146	10.61	209	136.7	33.0
Brook Trout	>=200mm	2	2	2	2	55	8	20	22	6.83	32	229.5	138.0
Brook Trout	All	15	15	15	15	416	20	150	168	17.81	241	149.1	48.0

Site Number: 152 Date Sampled: 05/19/2009 Conductivity 74

Site Midpoint (Latitude, Longitude): 43.83688225, -103.43574684 Site Length (m): 100 (umhos/cm):

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 3.5

Water Temperature (C): 16.7

Stream Classification: BK0

Number of Pass: 1

Voltage: 350

_	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	61	61	61	61	1725	50	610	699	44.31	981	130.7	28.8
	Brook Trout	All	61	61	61	61	1725	50	610	699	44.31	981	130.7	28.8

 Site Number: 195
 Date Sampled:
 05/19/2009
 Conductivity (umhos/cm):
 74

 Site Midpoint (Latitude, Longitude): 43.82834180, -103.46252843
 Site Length (m): 100
 100

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 2.9

PH: 7.6

Stream Classification: BK0

Water Temperature (C): 9.9

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							Number of Pass: 1			Volt	age:		350	
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	54	54	54	54	1862	39	540	754	34.83	869	110.2	21.0	
Brook Trout	All	56	56	56	56	1931	40	560	782	36.12	901	110.2	21.0	

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 Iron Creek (South), 1999-2009

## **Site 102**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 07, 2006	53	52-56	
	May 18, 2009	13	13-13	
Brook Trout >=200mm	Aug 07, 2006	3	3-3	BK2
	May 18, 2009	2	2-2	ВК3
Longnose Dace	Aug 07, 2006	35	33-40	
Site 152				
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2009	61	61-61	

## **Site 195**

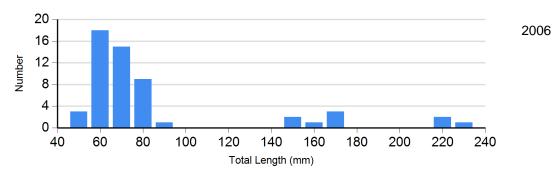
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2009	54	54-54	

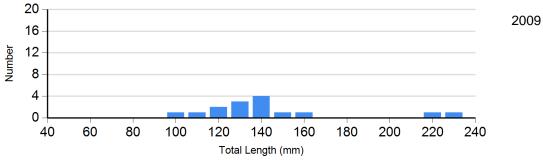
## **Length Frequency Distribution**

Length frequency histogram of species sampled by year.

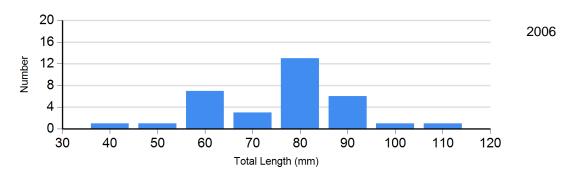
**Site:** 102

Species: Brook Trout



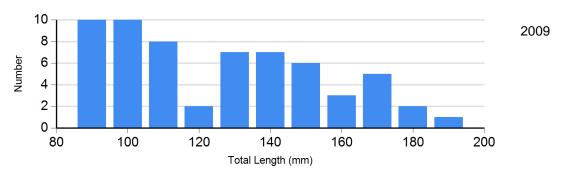


Site: 102 Species: Longnose Dace



**Site:** 152

Species: Brook Trout



**Site:** 195

Species: Brook Trout

