

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Iron Creek (South), Pennington County**  
**02-0082-00**  
**2006**

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

**Site Number:** 102  
**Site Midpoint (Latitude, Longitude):** 43.84271427, -103.40235933  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BK2, RB0

**Date Sampled:** 08/07/2006  
**Site Length (m):** 100  
**Mean Width (m):** 2.6  
**Number of Pass:** 3  
**Conductivity (umhos/cm):** 115  
**pH:**  
**Water Temperature (C):** 16.0  
**Voltage:** 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	52	53	56	52	2038	17	530	826	15.37	853	81.9	8.4
Brook Trout	>=200mm	3	3	3	3	115	14	30	47	12.71	48	228.0	123.3
Brook Trout	All	55	56	59	55	2154	32	560	872	28.29	901	89.9	14.7
Longnose Dace	All	33	35	40	33	1346	8	350	545	7.21	563	80.9	6.0
Northern Pike	All	2	2	6	2	77	2	20	31	2.06	32	161.0	30.0
Rainbow Trout	<200mm	3	3	5	3	115	0	30	47	0.38	48	69.3	3.7
Rainbow Trout	All	3	3	5	3	115	0	30	47	0.38	48	69.3	3.7

**Site Number:** 193  
**Site Midpoint (Latitude, Longitude):** 43.82768749, -103.46039550  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BK0

**Date Sampled:** 08/07/2006  
**Site Length (m):** 100  
**Mean Width (m):** 2.4  
**Number of Pass:** 3  
**Conductivity (umhos/cm):** 105  
**pH:**  
**Water Temperature (C):** 20.0  
**Voltage:** 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	130	155	179	131	6434	63	1550	2606	55.97	2494	88.0	9.7
Brook Trout	All	180	191	201	181	7928	77	1910	3211	68.96	3073	88.0	9.7

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	
<b>Class BR1</b>	Number of wild Brown Trout exceeds 150 per acre
<b>Class BR2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BR3</b>	Number of wild Brown Trout is less than 25 per acre
<b>Class BK1</b>	Number of wild Brook Trout exceeds 150 per acre
<b>Class BK2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BK3</b>	Number of wild Brook Trout is less than 25 per acre
<b>Class RB1</b>	Number of wild Rainbow Trout exceeds 25 per acre
<b>Class RB2</b>	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Iron Creek (South), 1996-2006

**Site 102**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 07, 2006	53	52-56	
Brook Trout >=200mm	Aug 07, 2006	3	3-3	BK2
Longnose Dace	Aug 07, 2006	35	33-40	
Northern Pike	Aug 07, 2006	2	2-6	
Rainbow Trout <200mm	Aug 07, 2006	3	3-5	

**Site 193**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 28, 1998	203	193-213	

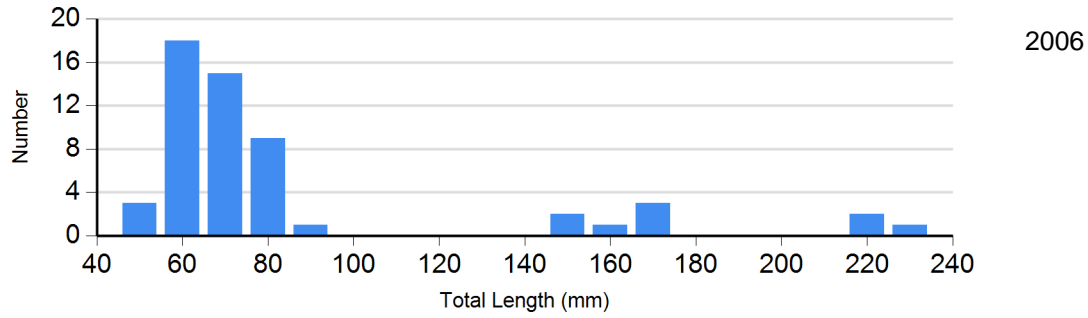
Brook Trout <200mm	Aug 07, 2006	155	131-179	
Brook Trout >=200mm	Aug 28, 1998	3	3-4	BK2

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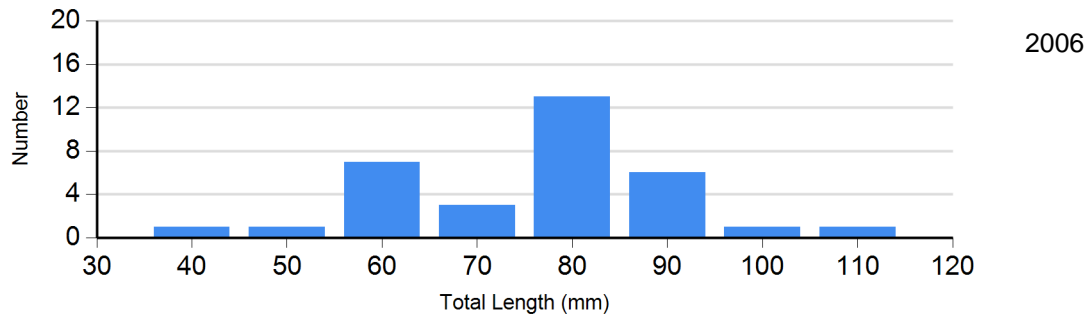
## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site:** 102  
**Species:** Brook Trout



**Site:** 102  
**Species:** Longnose Dace



**Site:** 193  
**Species:** Brook Trout

