

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Iron Creek (North), Lawrence County**  
**09-0049-00**  
**2019**

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

**Site Number:** 2  
**Site Midpoint (Latitude, Longitude):** 44.37359287, -103.92004943  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BR1, RB2

**Date Sampled:** 07/09/2019      **Conductivity (umhos/cm):** 391  
**Site Length (m):** 100  
**Mean Width (m):** 3.2      **pH:** 8.7  
**Number of Pass:** 3      **Water Temperature (C):** 12.1  
**Voltage:** 250

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)
Brown Trout	<200mm	25	25	26	25	790	44	250	320	39.15	402	162.0	55.5
Brown Trout	>=200mm	32	32	32	32	1011	154	320	410	137.39	515	231.3	152.1
Brown Trout	All	57	57	58	57	1802	198	570	730	176.53	917	200.9	109.7
Green Sunfish	All	1	1	2	1	32	0	10	13	0.40	16	90.0	14.0
Rainbow Trout	<200mm	1	1	1	1	32	1	10	13	0.68	16	119.0	24.0
Rainbow Trout	>=200mm	1	1	1	1	32	9	10	13	7.59	16	299.0	269.0
Rainbow Trout	All	2	2	2	2	63	9	20	26	8.27	32	209.0	146.5

**Site Number:** 4  
**Site Midpoint (Latitude, Longitude):** 44.37335015, -103.92202757  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BR1

**Date Sampled:** 07/09/2019      **Conductivity (umhos/cm):** 391  
**Site Length (m):** 100  
**Mean Width (m):** 4.5      **pH:** 8.7  
**Number of Pass:** 3      **Water Temperature (C):** 12.1  
**Voltage:** 250

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)
Brown Trout	<200mm	95	95	96	95	2094	95	950	848	84.52	1529	151.7	45.2
Brown Trout	>=200mm	29	29	29	29	639	84	290	259	75.21	467	227.3	131.8
Brown Trout	All	124	124	125	124	2733	179	1240	1107	159.72	1995	169.4	65.4

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 (North), 2009-2019

**Site 2**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 09, 2019	25	25-26	
Brown Trout >=200mm	Jul 09, 2019	32	32-32	BR1
Green Sunfish	Jul 09, 2019	1	1-2	
Rainbow Trout <200mm	Jul 09, 2019	1	1-1	
Rainbow Trout >=200mm	Jul 09, 2019	1	1-1	RB2

**Site 4**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 09, 2019	95	95-96	

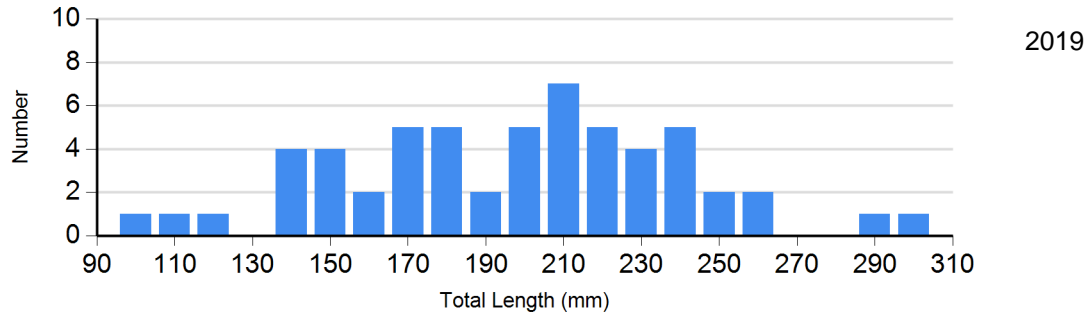


## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site: 2**

**Species:** Brown Trout



**Site: 4**

**Species:** Brown Trout

