

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Iron Creek (North), Lawrence County
09-0049-00
2015

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

Site Number: 27	Date Sampled: 06/02/2015	Conductivity (umhos/cm): 284
Site Midpoint (Latitude, Longitude): 44.37926625, -103.94146537	Site Length (m): 100	pH: 8.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.1	Water Temperature (C): 15.0
Stream Classification: None	Number of Pass: 1	Voltage: 450

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)
Longnose Dace	All	1	1	1	1	24	0	10	10	0.22	16	96.0	10.0

Site Number: 76	Date Sampled: 05/28/2015	Conductivity (umhos/cm): 189
Site Midpoint (Latitude, Longitude): 44.36972596, -103.98788929	Site Length (m): 100	pH: 7.9
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.1	Water Temperature (C): 11.0
Stream Classification: BK0, RB1	Number of Pass: 1	Voltage: 500

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	16	16	16	16	1479	31	160	599	27.56	257	117.3	20.9
Brook Trout	All	16	16	16	16	1479	31	160	599	27.56	257	117.3	20.9
Rainbow Trout	<200mm	32	32	32	32	2958	46	320	1198	41.13	515	72.9	15.6
Rainbow Trout	>=200mm	2	2	2	2	185	60	20	75	53.81	32	324.0	326.0
Rainbow Trout	All	34	34	34	34	3143	266	340	1273	237.28	547	87.7	84.6

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 Brook Trout 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 (North), 2005-2015

Site 27

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Longnose Dace	Jun 02, 2015	1	1-1	

Site 76

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 09, 2008	7	7-7	
	May 28, 2015	16	16-16	
Brook Trout >=200mm	Jul 09, 2008	1	1-1	BK2
Rainbow Trout <200mm	Jul 09, 2008	27	27-27	

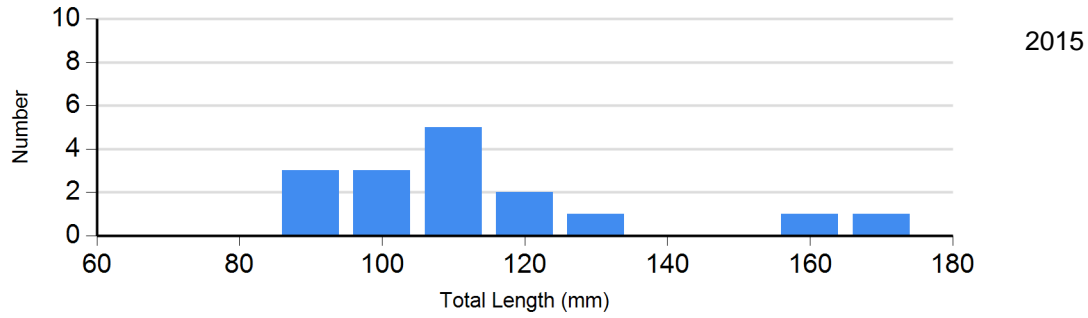
Rainbow Trout <200mm	May 28, 2015	32	32-32	
Rainbow Trout >=200mm	May 28, 2015	2	2-2	RB1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 76

Species: Brook Trout



Site: 76

Species: Rainbow Trout

