

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Iron Creek (North), Lawrence County
09-0049-00
2014

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

Site Number: 3

Site Midpoint (Latitude, Longitude): 44.37387285, -103.92121334

Survey Completed by:

Stream Classification: BR1, RB1

Date Sampled: 06/25/2014

Site Length (m): 100

Mean Width (m): 3.4

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C):

Voltage:

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	40	41	44	40	1212	51	410	491	45.73	660	140.1	42.2
Brown Trout	>=200mm	31	31	32	31	917	144	310	371	128.63	499	237.4	157.2
Brown Trout	All	71	71	73	71	2099	199	710	850	177.39	1142	182.6	94.6
Green Sunfish	All	1	1	5	1	30	1	10	12	0.53	16	99.0	20.0
Rainbow Trout	>=200mm	5	5	5	5	148	44	50	60	39.60	80	325.2	300.0
Rainbow Trout	All	5	5	5	5	148	44	50	60	39.60	80	325.2	300.0

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 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), 2004-2014

Site 3

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jul 21, 2004	14	14-16	
	Jul 08, 2008	23	23-23	
	Jun 25, 2014	41	40-44	
Brown Trout >=200mm	Jul 21, 2004	52	52-52	BR1
	Jul 08, 2008	38	38-38	BR1
	Jun 25, 2014	31	31-32	BR1
Green Sunfish	Jun 25, 2014	1	1-5	

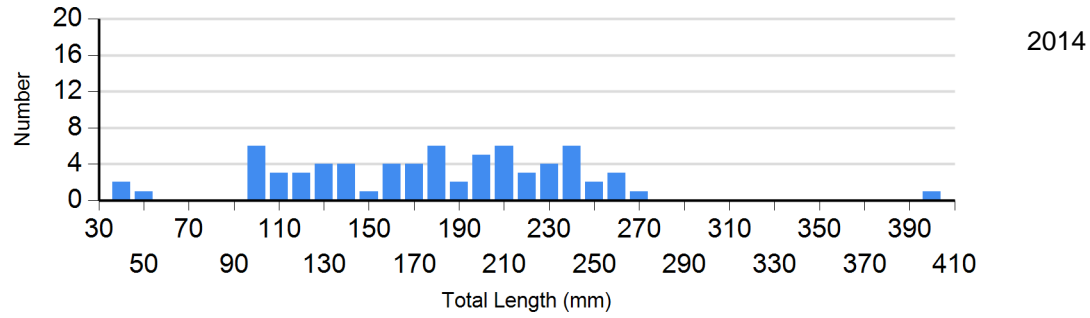
Rainbow Trout <200mm	Jul 08, 2008	1	1-1	
Rainbow Trout >=200mm	Jul 21, 2004	1	1-1	RB2
	Jul 08, 2008	2	2-2	RB1
	Jun 25, 2014	5	5-5	RB1

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 3

Species: Brown Trout



Site: 3

Species: Rainbow Trout

