

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Iron Creek (North), Lawrence County
09-0049-00
2004

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

Site Number: 3	Date Sampled: 07/21/2004	Conductivity (umhos/cm): 325
Site Midpoint (Latitude, Longitude): 44.37387285, -103.92121334	Site Length (m): 100	pH: 8.7
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 3.0	Water Temperature (C): 13.0
Stream Classification: BR1, RB2	Number of Pass: 3	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	14	14	16	14	465	23	140	188	20.74	225	154.1	49.9
Brown Trout	>=200mm	52	52	52	52	1728	236	520	700	210.38	837	233.9	136.3
Brown Trout	All	66	66	67	66	2193	259	660	888	231.12	1062	217.0	118.0
Rainbow Trout	>=200mm	1	1	1	1	33	4	10	13	3.50	16	219.0	118.0
Rainbow Trout	All	1	1	1	1	33	4	10	13	3.50	16	219.0	118.0

Site Number: 48	Date Sampled: 07/21/2004	Conductivity (umhos/cm): 390
Site Midpoint (Latitude, Longitude): 44.37798051, -103.96025421	Site Length (m): 100	pH: 8.8
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.8	Water Temperature (C): 11.5
Stream Classification: None	Number of Pass: 3	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)
Longnose Dace	All	164	180	194	166	9900	12	1800	4010	11.11	2896	45.8	1.3

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), 1994-2004

Site 3

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Jun 07, 1995	25	23-31	
	Jul 21, 2004	14	14-16	
Brown Trout >=200mm	Jun 07, 1995	16	15-20	BR1
	Jul 21, 2004	52	52-52	BR1
Rainbow Trout <200mm	Jun 07, 1995	2	2-6	
Rainbow Trout >=200mm	Jun 07, 1995	3	3-4	RB1
	Jul 21, 2004	1	1-1	RB2

Site 48

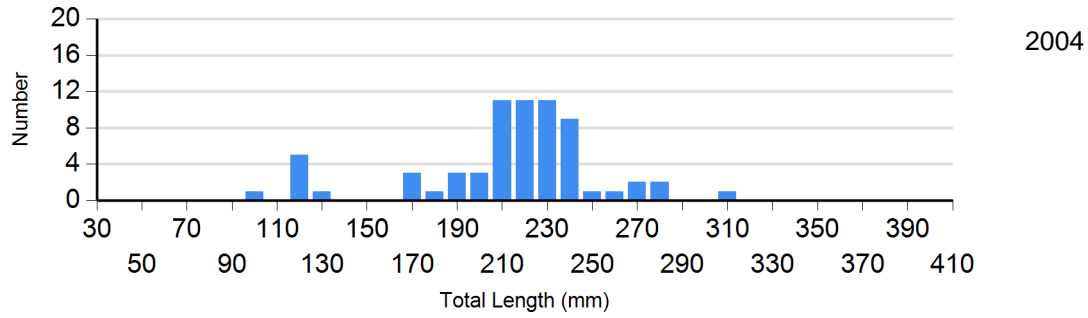
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout >=200mm	Jun 07, 1995	2	2-2	BR2
Longnose Dace	Jun 07, 1995	91	65-128	
	Jul 21, 2004	180	166-194	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 3

Species: Brown Trout



Site: 48

Species: Longnose Dace

