

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Crow Creek (Trib. of Redwater), Lawrence County
09-0037-00
1995

Table 1. Population and Biomass Estimates for Crow Creek (Trib. of Redwater)

Site Number: 34	Date Sampled: 06/13/1995	Conductivity (umhos/cm): 849
Site Midpoint (Latitude, Longitude): 44.56088009, -104.01045755	Site Length (m): 100	pH: 8.6
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.4	Water Temperature (C): 14.0
Stream Classification: BR2	Number of Pass: 3	Voltage: 150

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	2	2	2	2	45	2	20	18	1.75	32	162.0	43.0
Brown Trout	>=200mm	8	8	8	8	182	31	80	74	27.84	129	253.5	171.5
Brown Trout	All	10	10	10	10	227	33	100	92	29.59	161	235.2	145.8
Longnose Dace	All	1	1	1	1	23	0	10	9	0.06	16	72.0	3.0
Longnose Sucker	All	2	1	2	2	23	8	10	9	7.11	16	306.5	350.5
White Sucker	All	2	2	6	2	45	20	20	18	17.41	32	335.0	429.0

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 Crow Creek (Trib. of Redwater), 1985-1995

Site 34

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 09, 1993	118	75-179	
	Jun 13, 1995	2	2-2	
Brown Trout >=200mm	Sep 09, 1993	25	25-27	BR1
	Jun 13, 1995	8	8-8	BR2
Longnose Dace	Sep 09, 1993	14	13-19	
	Jun 13, 1995	1	1-1	
Longnose Sucker	Sep 09, 1993	1	1-2	

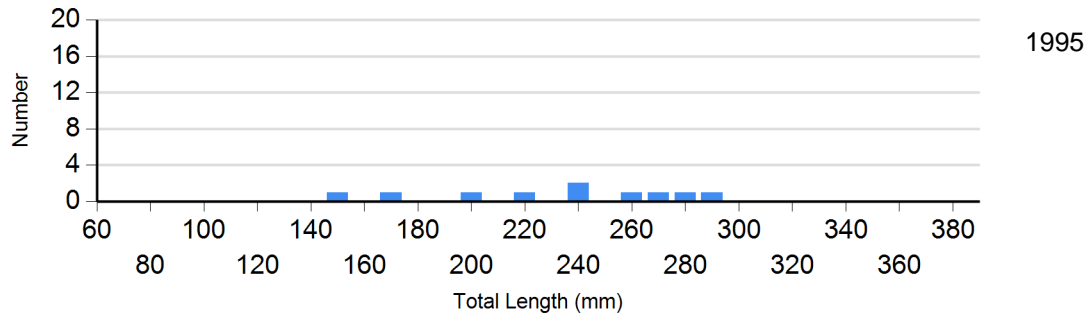
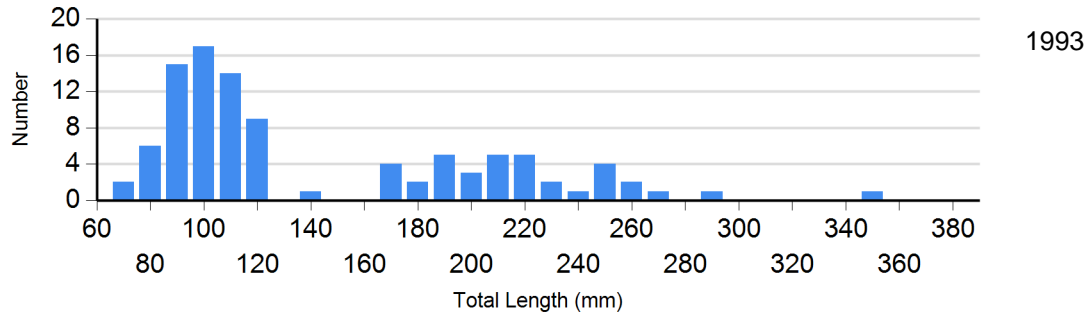
Longnose Sucker	Jun 13, 1995	1	2-2
White Sucker	Sep 09, 1993	1	1-1
	Jun 13, 1995	2	2-6

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 34

Species: Brown Trout



Site: 34

Species: Longnose Dace

