

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Corral Creek, Lawrence County
09-0066-00
1994

Table 1. Population and Biomass Estimates for Corral Creek

Site Number: 72	Date Sampled: 07/13/1994	Conductivity (umhos/cm): 65
Site Midpoint (Latitude, Longitude): 44.24265979, -103.65662402	Site Length (m): 85	pH: 8.0
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 0.7	Water Temperature (C): 12.0
Stream Classification: BK1	Number of Pass: 3	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)
Brook Trout	<200mm	94	100	108	94	13514	525	1176	5473	468.90	1893	157.0	38.9
Brook Trout	>=200mm	55	56	59	55	7568	894	659	3065	798.05	1060	228.1	118.1
Brook Trout	All	149	157	166	149	21216	1445	1847	8593	1290.31	2972	183.2	68.1
Longnose Dace	All	42	47	56	42	6351	37	553	2572	32.81	890	86.8	5.8
Unidentified YOY Trout	<200mm	17	19	25	17	2568	7	224	1040	5.86	360	59.1	2.6
Unidentified YOY Trout	All	17	19	25	17	2568	7	224	1040	5.86	360	59.1	2.6
White Sucker	All	6	8	19	6	1081	89	94	438	79.31	151	187.5	82.2

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 Corral Creek, 1984-1994

Site 72

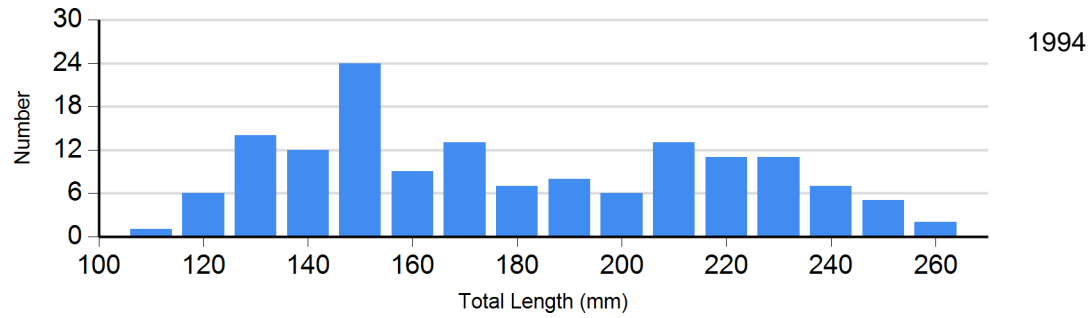
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 13, 1994	100	94-108	
Brook Trout >=200mm	Jul 13, 1994	56	55-59	BK1
Longnose Dace	Jul 13, 1994	47	42-56	
White Sucker	Jul 13, 1994	8	6-19	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

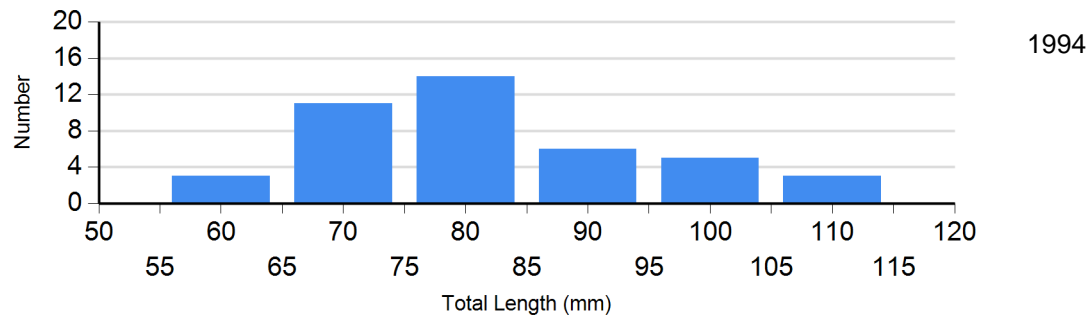
Site: 72

Species: Brook Trout



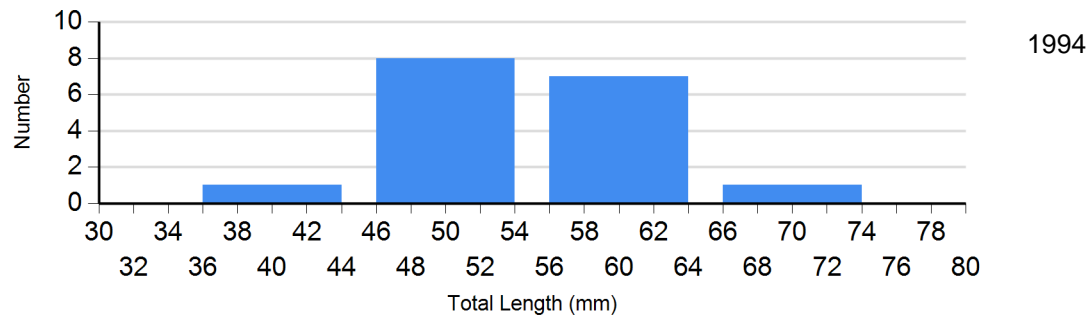
Site: 72

Species: Longnose Dace



Site: 72

Species: Unidentified YOY Trout



Site: 72
Species: White Sucker

