

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Cold Creek, Lawrence County
10120203000953
1995

Table 1. Population and Biomass Estimates for Cold Creek

Site Number: 39	Date Sampled: 06/14/1995	Conductivity (umhos/cm): 296
Site Midpoint (Latitude, Longitude): 44.15315964, -104.03603838	Site Length (m): 100	pH: 8.7
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 3.9	Water Temperature (C): 9.0
Stream Classification: BK2, BR2	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)
Brook Trout	<200mm	42	44	49	42	1140	46	440	462	41.34	708	155.7	40.6
Brook Trout	>=200mm	10	10	12	10	259	29	100	105	25.61	161	221.0	110.7
Brook Trout	All	52	55	61	52	1425	77	550	577	68.82	885	168.3	54.1
Brown Trout	<200mm	5	5	6	5	130	7	50	52	6.18	80	172.0	53.4
Brown Trout	>=200mm	10	10	12	10	259	52	100	105	46.15	161	261.1	199.5
Brown Trout	All	15	15	17	15	389	59	150	157	52.32	241	231.4	150.8

Site Number: 59	Date Sampled: 06/14/1995	Conductivity (umhos/cm): 309
Site Midpoint (Latitude, Longitude): 44.15026495, -104.01845390	Site Length (m): 100	pH: 8.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.8	Water Temperature (C): 12.0
Stream Classification: BK0	Number of Pass: 3	Voltage: 300

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	6	6	6	6	326	11	60	132	9.41	97	145.0	32.3
Brook Trout	All	6	6	6	6	326	11	60	132	9.41	97	145.0	32.3

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 Cold Creek, 1985-1995

Site 39

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 14, 1995	44	42-49	
Brook Trout >=200mm	Jun 14, 1995	10	10-12	BK2
Brown Trout <200mm	Jun 14, 1995	5	5-6	
Brown Trout >=200mm	Jun 14, 1995	10	10-12	BR2

Site 59

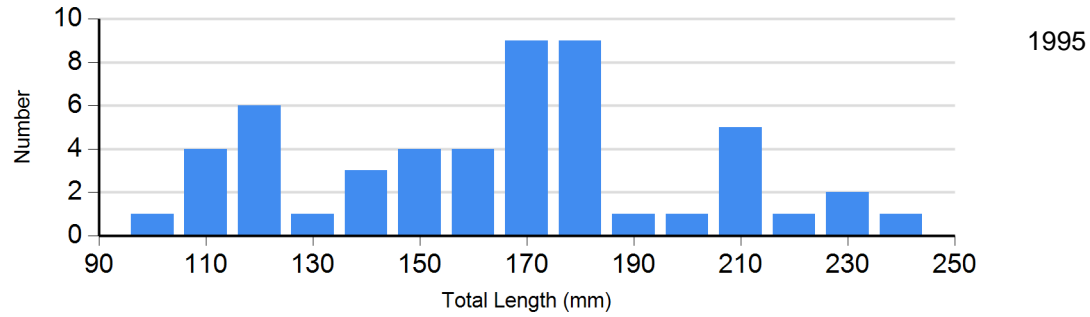
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 14, 1995	6	6-6	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

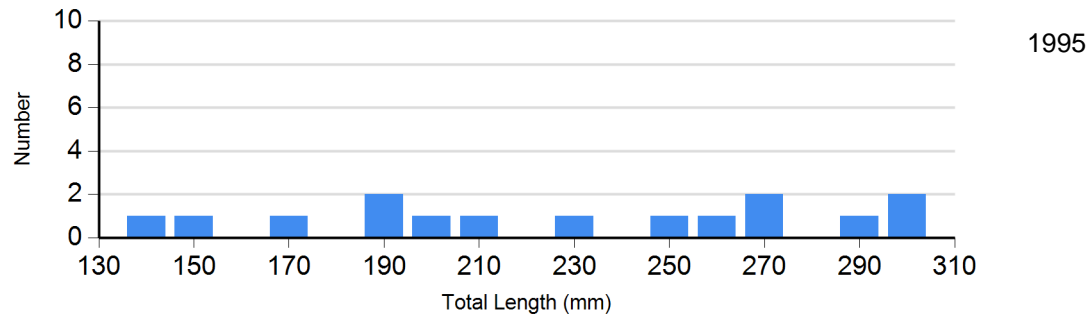
Site: 39

Species: Brook Trout



Site: 39

Species: Brown Trout



Site: 59

Species: Brook Trout

