

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Cold Spring Creek (Trib. of BV1), Lawrence County**  
**09-0011-00**  
**1997**

Table 1. Population and Biomass Estimates for Cold Spring Creek (Trib. of BV1)

**Site Number:** 9  
**Site Midpoint (Latitude, Longitude):** 43.57509078, -103.48177932  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** BK2

**Date Sampled:** 06/10/1997  
**Site Length (m):** 100  
**Mean Width (m):** 2.7  
**Number of Pass:** 3  
**Conductivity (umhos/cm):** 548  
**pH:** 9.1  
**Water Temperature (C):** 15.0  
**Voltage:** 200

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	26	33	49	26	1222	39	330	495	35.17	531	133.7	32.2
Brook Trout	>=200mm	5	5	6	5	185	34	50	75	30.23	80	248.0	182.8
Brook Trout	All	31	37	49	31	1370	77	370	555	69.15	595	152.1	56.5
Creek Chub	All	1	1	5	1	37	2	10	15	1.82	16	168.0	55.0
Fathead Minnow	All	28	47	94	28	1741	5	470	705	4.60	756	61.3	3.0
Longnose Dace	All	51	69	97	51	2556	8	690	1035	7.42	1110	72.3	3.3
Mountain Sucker	All	1	1	2	1	37	2	10	15	2.08	16	170.0	63.0
White Sucker	All	77	83	92	77	3074	118	830	1245	105.51	1335	126.3	38.4

**Site Number:** 32  
**Site Midpoint (Latitude, Longitude):** 43.57916572, -103.49754769  
**Survey Completed by:** South Dakota Game, Fish and Parks  
**Stream Classification:** None

**Date Sampled:** 06/06/1997  
**Site Length (m):** 100  
**Mean Width (m):** 2.4  
**Number of Pass:** 3  
**Conductivity (umhos/cm):** 520  
**pH:** 8.6  
**Water Temperature (C):** 14.0  
**Voltage:** 200

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)
Fathead Minnow	All	6	6	6	6	246	1	60	100	0.66	97	64.5	3.0
White Sucker	All	333	604	807	401	24754	547	6040	10025	488.71	9718	75.9	22.1

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	
<b>Class BR1</b>	Number of wild Brown Trout exceeds 150 per acre
<b>Class BR2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BR3</b>	Number of wild Brown Trout is less than 25 per acre
<b>Class BK1</b>	Number of wild Brook Trout exceeds 150 per acre
<b>Class BK2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BK3</b>	Number of wild Brook Trout is less than 25 per acre
<b>Class RB1</b>	Number of wild Rainbow Trout exceeds 25 per acre
<b>Class RB2</b>	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Cold Spring Creek (Trib. of BV1), 1987-1997

**Site 9**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 10, 1997	33	26-49	
Brook Trout >=200mm	Jun 10, 1997	5	5-6	BK2
Creek Chub	Jun 10, 1997	1	1-5	
Fathead Minnow	Jun 10, 1997	47	28-94	
Longnose Dace	Jun 10, 1997	69	51-97	
Mountain Sucker	Jun 10, 1997	1	1-2	
White Sucker	Jun 10, 1997	83	77-92	

**Site 32**

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<b>Species/Size</b>	<b>Date</b>	<b>Pop Est.</b>	<b>(95% C.I.)</b>	<b>Stream Classification</b>
Fathead Minnow	Jun 06, 1997	6	6-6	
White Sucker	Jun 06, 1997	604	401-807	

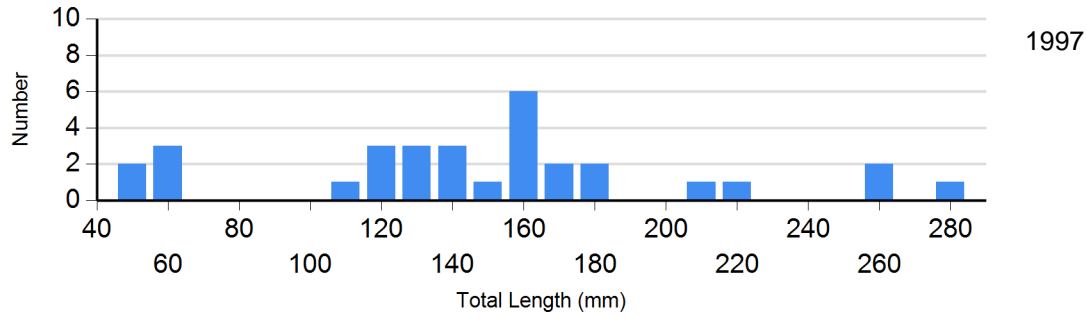
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## Length Frequency Distribution

Length frequency histogram of species sampled by year.

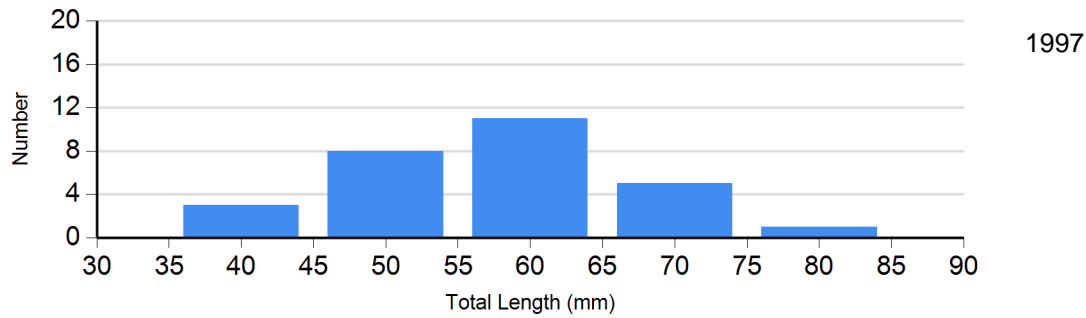
**Site:** 9

**Species:** Brook Trout



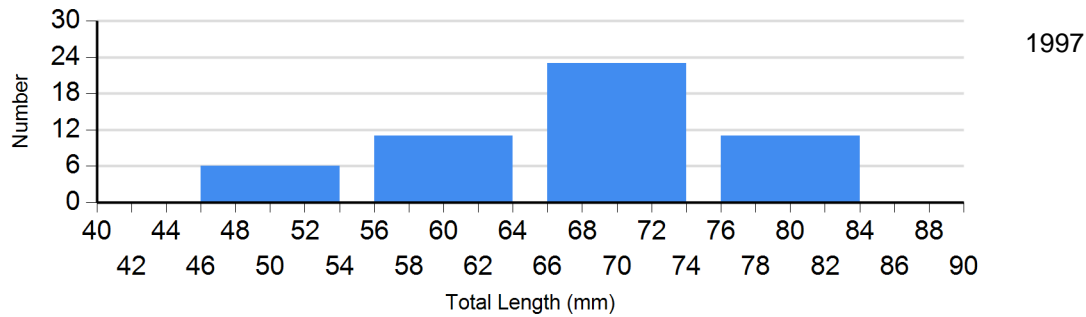
**Site:** 9

**Species:** Fathead Minnow

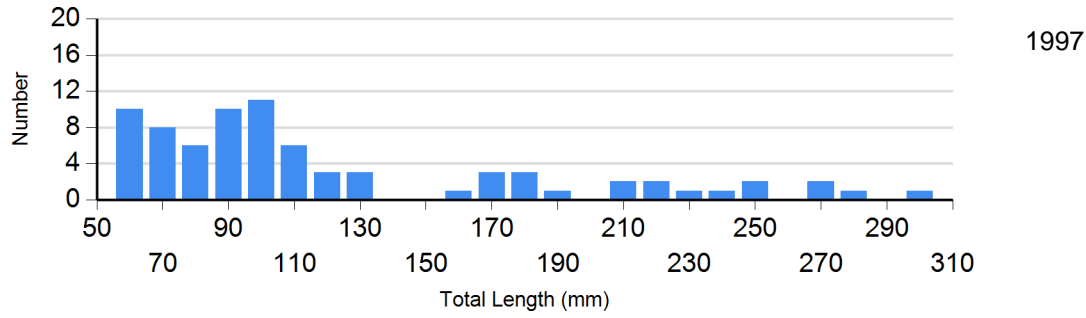


**Site:** 9

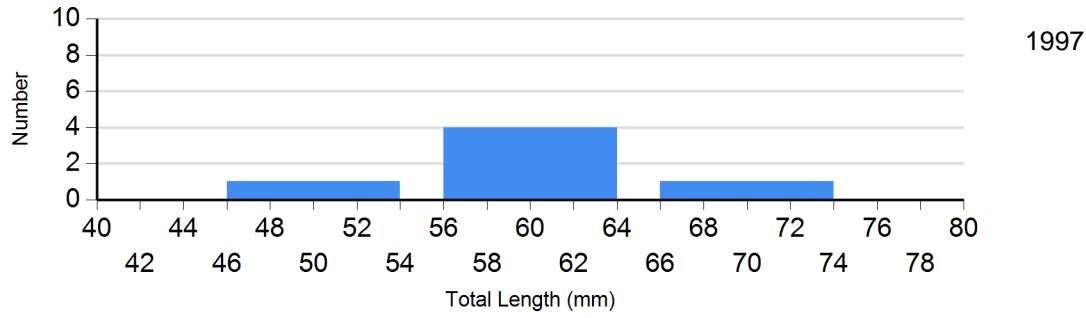
**Species:** Longnose Dace



**Site: 9**  
**Species: White Sucker**



**Site: 32**  
**Species: Fathead Minnow**



**Site: 32**  
**Species: White Sucker**

