

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Annie Creek, Lawrence County**  
**09-0074-00**  
**2008**

Table 1. Population and Biomass Estimates for Annie Creek

**Site Number:** 2

**Site Midpoint (Latitude, Longitude):** 44.32728433, -103.89361583

**Survey Completed by:**

**Stream Classification:** BK3, BR3

**Date Sampled:** 08/27/2008

**Site Length (m):** 100

**Mean Width (m):** 0.0

**Number of Pass:** 3

**Conductivity (umhos/cm):**

**pH:**

**Water Temperature (C):**

**Voltage:**

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	113	114	117	113	0	0	1140	0	0.00	1834	101.6	16.6
Brook Trout	>=200mm	1	1	1	1	0	0	10	0	0.00	16	210.0	106.0
Brook Trout	All	114	115	118	114	0	0	1150	0	0.00	1850	102.5	17.4
Brown Trout	<200mm	15	14	19	15	0	0	140	0	0.00	225	97.3	11.5
Brown Trout	>=200mm	1	1	1	1	0	0	10	0	0.00	16	277.0	110.0
Brown Trout	All	16	15	20	16	0	0	150	0	0.00	241	108.5	17.6

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 Annie Creek, 1998-2008

**Site 2**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 30, 2001	52	52-54	
	Aug 27, 2002	55	55-57	
	Aug 26, 2003	31	31-31	
	Sep 01, 2004	41	41-42	
	Aug 31, 2006	91	90-94	
	Aug 29, 2007	118	110-128	
	Aug 27, 2008	114	113-117	

Brook Trout >=200mm	Aug 30, 2001	2	2-2	BK2
	Aug 27, 2002	1	1-1	BK3
	Aug 26, 2003	3	3-3	BK2
	Sep 01, 2004	2	2-2	BK2
	Aug 31, 2006	1	1-1	BK3
	Aug 29, 2007	2	2-2	BK3
	Aug 27, 2008	1	1-1	BK3
Brown Trout <200mm	Aug 30, 2001	94	93-97	
	Aug 27, 2002	33	33-34	
	Aug 26, 2003	13	13-13	
	Sep 01, 2004	8	8-10	
	Aug 31, 2006	5	5-5	
	Aug 29, 2007	17	16-21	
	Aug 27, 2008	14	15-19	
Brown Trout >=200mm	Aug 30, 2001	1	1-1	BR3
	Aug 27, 2002	4	4-4	BR2

Brown Trout >=200mm	Aug 26, 2003	8	8-8	BR2
	Sep 01, 2004	2	2-2	BR2
	Aug 31, 2006	1	1-1	BR3
	Aug 29, 2007	3	3-4	BR3
	Aug 27, 2008	1	1-1	BR3

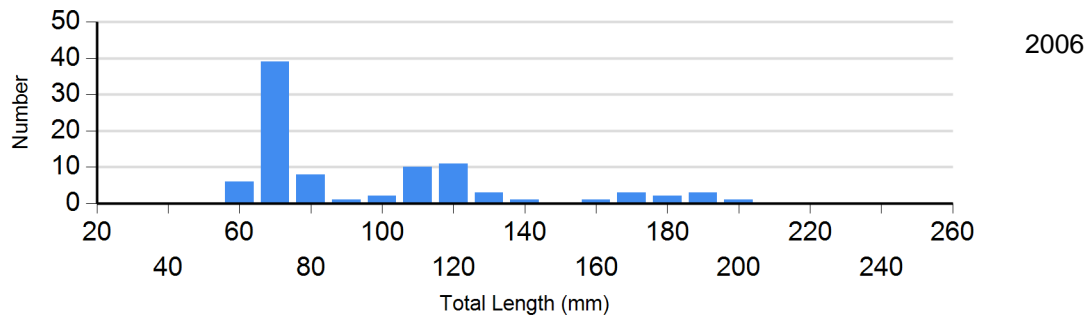
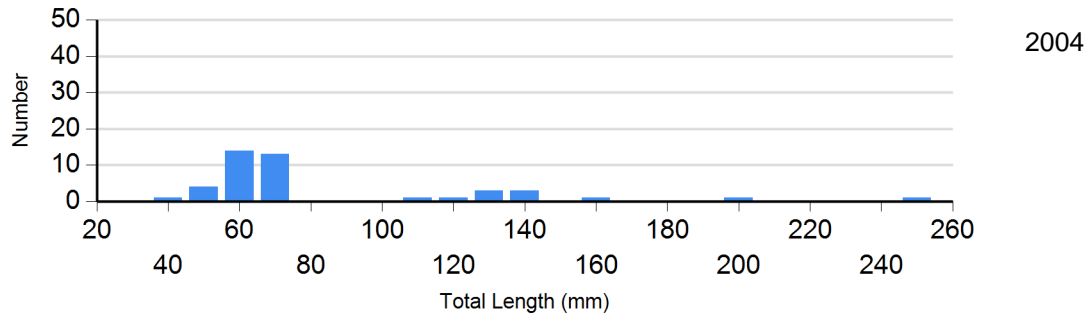
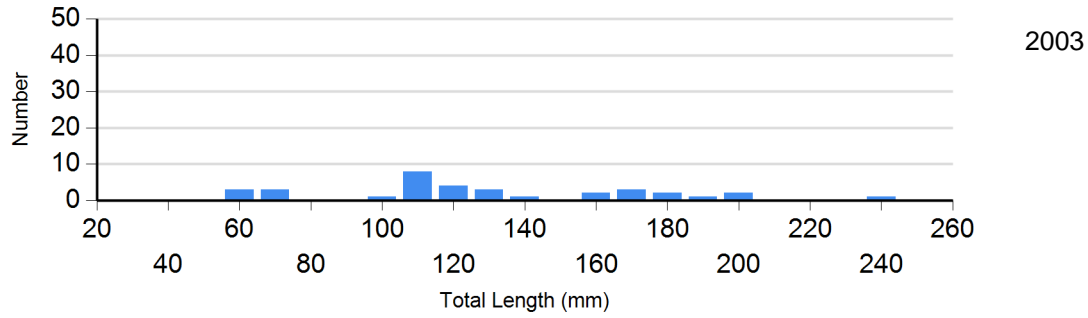
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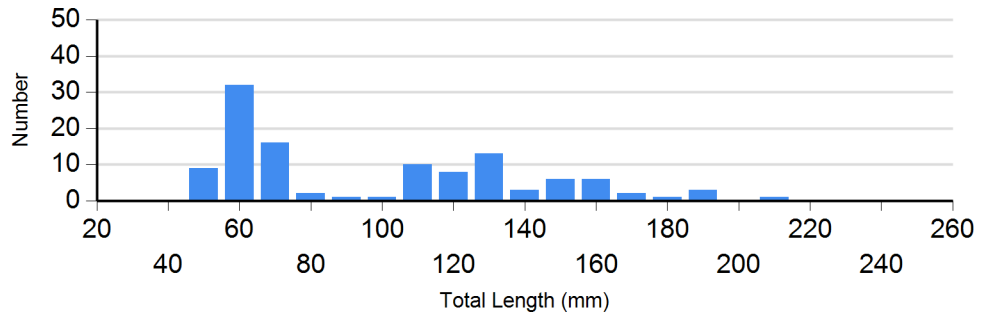
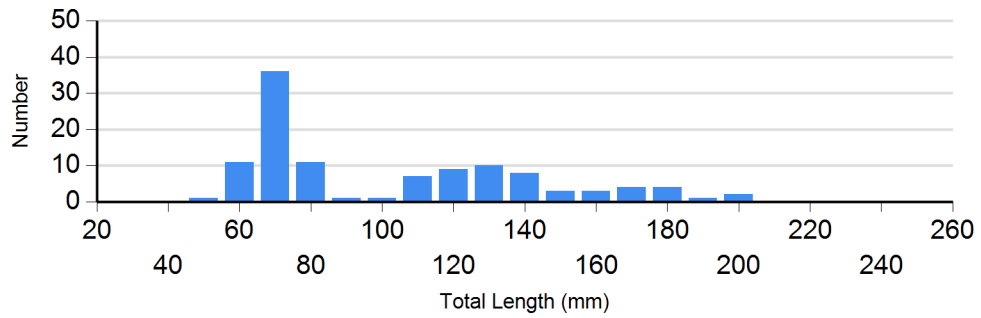
## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site:** 2

**Species:** Brook Trout





**Site: 2**  
**Species: Brown Trout**

