## SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

## Annie Creek, Lawrence County

09-0074-00

2006

Table 1. Population and Biomass Estimates for Annie Creek

Site Number: 2	Date Sampled:	08/31/2006	Conductivity	
Site Midpoint (Latitude, Longitude): 44.32728433, -103.89361583	Site Length (m):	99	(umhos/cm):	
Survey Completed by: Chadwick Ecological Services	Mean Width (m):	0.0	pH:	
Stream Classification: BK3, BR3			Water Temperature (C):	
,	Number of Pass	: 3	Voltage:	200

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	90	91	94	90	0	0	919	0	0.00	1479	100.0	13.3
Brook Trout	>=200mm	1	1	1	1	0	0	10	0	0.00	16	201.0	86.0
Brook Trout	All	91	92	95	91	0	0	929	0	0.00	1495	101.2	14.1
Brown Trout	<200mm	5	5	5	5	0	0	51	0	0.00	81	179.2	53.4
Brown Trout	>=200mm	1	1	1	1	0	0	10	0	0.00	16	254.0	152.0
Brown Trout	All	6	6	6	6	0	0	61	0	0.00	98	191.7	69.8

Site Midpoint (Latitude, Longitude): 44.33009788, -103.87749203SitSurvey Completed by: Chadwick Ecological ServicesMeStream Classification: NoneMe						Mean W	mpled: gth (m): idth (m): of Pass:	0.0	(um pH: Wat		rature (C):	200	
Species	Size Class	Total Number Captured	Est. # in site	Upper 95% Cl	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Mountain Sucker	All	8	8	8	8	0	0	81	0	0.00	130	135.3	29.0

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 BrookTrout 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 Annie Creek, 1996-2006

## 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	
Brook Trout >=200mm	Aug 30, 2001	2	2-2	BK2
	Aug 27, 2002	1	1-1	BK3

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Mountain Sucker	Aug 27, 2002	19	19-19	
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
ite 16				
	Aug 31, 2006	1	1-1	BR3
	Sep 01, 2004	2	2-2	BR2
	Aug 26, 2003	8	8-8	BR2
	Aug 27, 2002	4	4-4	BR2
Brown Trout >=200mm	Aug 30, 2001	1	1-1	BR3
	Aug 31, 2006	5	5-5	
	Sep 01, 2004	8	8-10	
	Aug 26, 2003	13	13-13	
	Aug 27, 2002	33	33-34	
Brown Trout <200mm	Aug 30, 2001	94	93-97	
	Aug 31, 2006	1	1-1	ВКЗ
	Sep 01, 2004	2	2-2	BK2
Brook Trout >=200mm	Aug 26, 2003	3	3-3	BK2

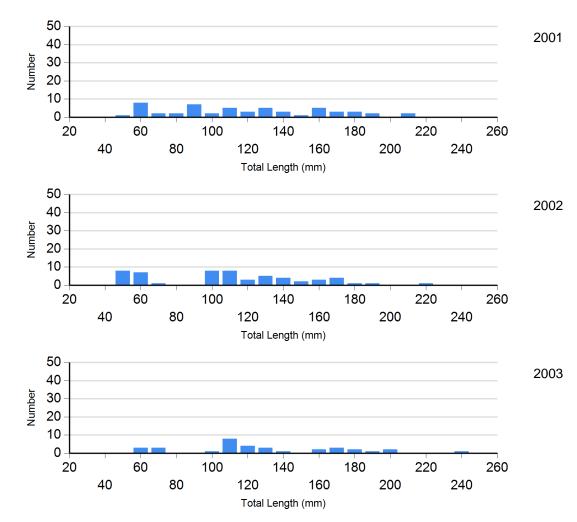
Mountain Sucker	Aug 26, 2003	10	10-10
	Sep 01, 2004	9	9-10
	Aug 30, 2006	8	8-8

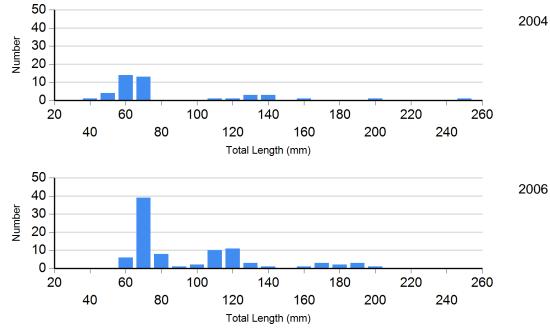
## **Length Frequency Distribution**

Length frequency histogram of species sampled by year.

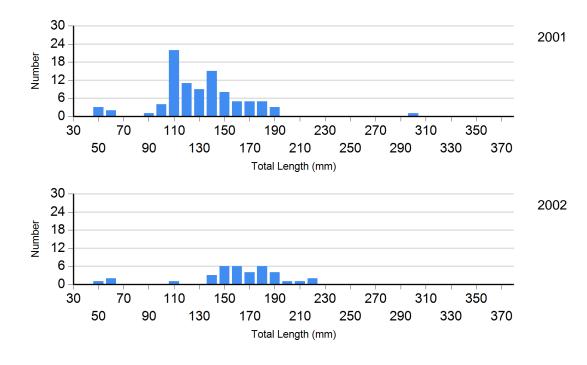


Species: Brook Trout

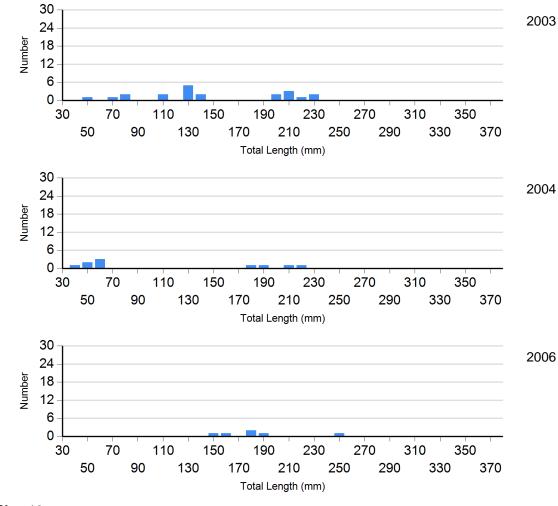




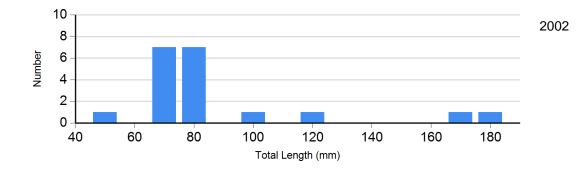
Site: 2 Species: Brown Trout

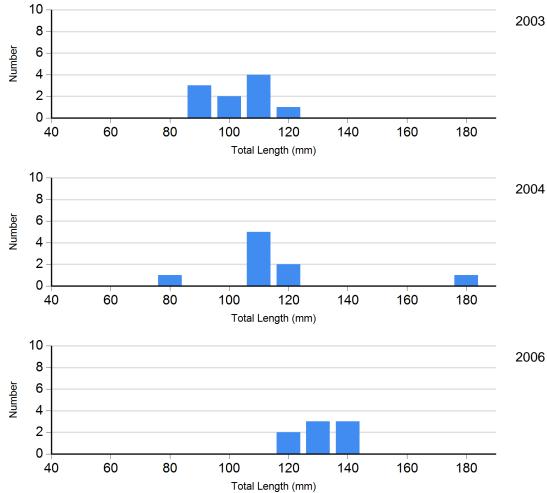


2004









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