SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Rubicon Gulch, Lawrence County

09-0103-00

2008

Table 1. Population and Biomass Estimates for Rubicon Gulch

Site Number: 22	Date Sampled: 09/12/2008	Conductivity	
Site Midpoint (Latitude, Longitude): 44.40850571, -103.86075411	Site Length (m): 100	(umhos/cm):	
Survey Completed by:	Mean Width (m): 0.0	pH:	
Stream Classification: BK3		Water Temperature (C):	
	Number of Pass: 3	Voltage:	

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	139	143	149	139	0	0	1430	0	0.00	2301	102.4	15.7
Brook Trout	>=200mm	1	1	1	1	0	0	10	0	0.00	16	204.0	93.0
Brook Trout	All	140	144	150	140	0	0	1440	0	0.00	2317	103.1	16.3

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 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 Rubicon Gulch, 1998-2008

Site 22

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 17, 1998	103	103-105	
	Sep 16, 2000	88	88-90	
	Oct 04, 2002	91	91-91	
	Sep 22, 2004	26	26-27	
	Aug 28, 2005	28	28-30	
	Sep 12, 2008	143	139-149	
Brook Trout >=200mm	Sep 17, 1998	1	1-1	BK2

Brook Trout >=200mm	Sep 16, 2000	2	2-4	BK2
	Oct 04, 2002	1	1-1	BK2
	Aug 28, 2005	4	4-4	BK2
	Sep 12, 2008	1	1-1	ВКЗ

Length Frequency Distribution

Length frequency histogram of species sampled by year.



