SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Stewart Gulch Creek, Lawrence County

10120202050013

2011

Table 1. Population and Biomass Estimates for Stewart Gulch Creek

Site Number: 1	Date Sampled: 08/25/2011	Conductivity	
Site Midpoint (Latitude, Longitude): 44.32588376, -103.80031007	Site Length (m): 100	(umhos/cm):	
Survey Completed by: GEI	Mean Width (m): 2.1	pH:	
Stream Classification: BK2		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	110	110	110	110	5354	117	1100	2168	104.03	1770	113.4	21.8
Brook Trout	>=200mm	7	7	7	7	341	48	70	138	42.55	113	228.6	139.9
Brook Trout	All	117	117	117	117	5695	165	1170	2306	146.88	1883	120.3	28.9

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 Stewart Gulch Creek, 2001-2011

Site 1

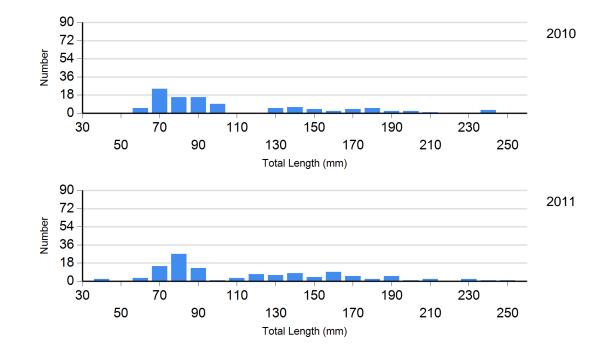
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 29, 2001	65	63-70	
	Sep 02, 2004	56	56-58	
	Aug 28, 2005	129	125-135	
	Aug 25, 2010	98	98-100	
	Aug 25, 2011	110	110-110	
Brook Trout >=200mm	Aug 29, 2001	11	11-11	BK1
	Sep 02, 2004	6	6-6	BK2

Brook Trout >=200mm	Aug 28, 2005	2	2-3	BK3
	Aug 25, 2010	6	6-7	BK1
	Aug 25, 2011	7	7-7	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 1 Species: Brook Trout



8/12/2020 Page 4