SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Stewart Gulch Creek, Lawrence County

10120202050013

2010

Table 1. Population and Biomass Estimates for Stewart Gulch Creek

Site Number: 1 Site Midpoint (Latitude, Longitude): 44.32588376, -103.80031007 Survey Completed by: Unknown Consultant Firm for mining Stream Classification: BK1							Date Sampled: 0 Site Length (m): 1 Mean Width (m): 1 Number of Pass: 3		1.6	(umhos/cm): pH: Water Temper		rature (C):	
Species	Size Class	Total Number Captured	Est. # in site	Upper 95% Cl	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	Vol ^a Ib. per Acre	tage: # per Mile	Mean Length (mm)	250 Mean Weight (grams)
Brook Trout	<200mm	98	98	100	98	6195	113	980	2509	100.81	1577	105.8	18.2
Brook Trout	>=200mm	6	6	7	6	379	51	60	154	45.66	97	227.7	134.8
Brook Trout	All	104	104	106	104	6575	164	1040	2663	146.48	1673	112.9	25.0

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 Stewart Gulch Creek, 2000-2010

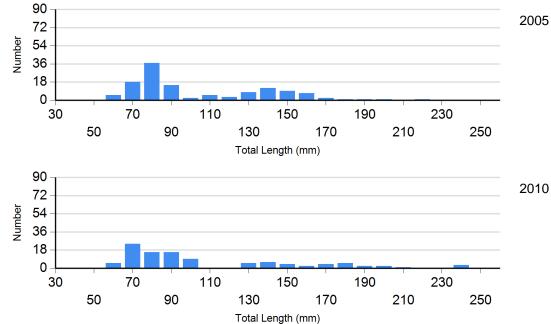
Site 1

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	
Brook Trout >=200mm	Aug 29, 2001	11	11-11	BK1
	Sep 02, 2004	6	6-6	BK2
	Aug 28, 2005	2	2-3	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 1 Species: Brook Trout



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