SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY Bear Gulch, Custer County 10120109000999 2009

Table 1. Population and Biomass Estimates for Bear Gulch

Site Number: 108 Site Midpoint (Latitude, Longitude): 43.80503436, -103.37751295 Survey Completed by: South Dakota Game, Fish and Parks Stream Classification: BK2						Site Len Mean W	Date Sampled:0Site Length (m):10Mean Width (m):11Number of Pass:1		pH:		rature (C):	8.0 14.4 275	
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)
Brook Trout	<200mm	24	24	24	24	1833	95	240	743	85.05	386	158.7	52.0
Brook Trout	>=200mm	1	1	1	1	76	7	10	31	5.87	16	200.0	86.0
Brook Trout	All	25	25	25	25	1910	102	250	773	90.92	402	160.3	53.3

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 Bear Gulch, 1999-2009

Site 108

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	May 19, 2009	24	24-24	
Brook Trout >=200mm	May 19, 2009	1	1-1	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.



