SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Blacktail Gulch BLT, Lawrence County 10120202007284 2010

Table 1. Population and Biomass Estimates for Blacktail Gulch BLT

Site Number: 11

Site Midpoint (Latitude, Longitude): 44.37511634, -103.76757570

Survey Completed by: Unknown Consultant Firm for mining

Stream Classification: BK0

Date Sampled: 08/30/2010

Conductivity (umhos/cm):

Site Length (m): 100

Mean Width (m): 2.6

Number of Pass: 3

pH:

Water Temperature (C):

Voltage:

Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	Lower 95% CI	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	11	11	11	11	426	14	110	173	12.84	177	141.0	33.7
Brook Trout	All	11	11	11	11	426	14	110	173	12.84	177	141.0	33.7

Site Number: 11

Site Midpoint (Latitude, Longitude): 44.37511634, -103.76757570

Survey Completed by: GEI

Stream Classification: BK0

Date Sampled: 08/30/2010

Site Length (m): 100

Mean Width (m): 2.6

Number of Pass: 3

Conductivity (umhos/cm):

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Brook Trout	<200mm	11	11	11	11	426	14	110	173	12.82	177	141.0	33.7
Brook Trout	All	11	11	11	11	426	14	110	173	12.82	177	141.0	33.7

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 Blacktail Gulch BLT, 2000-2010

Site 11

Date	Pop Est.	(95% C.I.)	Stream Classification
Aug 26, 2004	20	20-20	
Aug 31, 2005	18	18-18	
Aug 29, 2006	51	51-52	
Sep 08, 2008	29	29-30	
Sep 02, 2009	260	253-267	
Aug 30, 2010	11	11-11	
Aug 30, 2010	11	11-11	
	Aug 26, 2004 Aug 31, 2005 Aug 29, 2006 Sep 08, 2008 Sep 02, 2009 Aug 30, 2010	Aug 26, 2004 20 Aug 31, 2005 18 Aug 29, 2006 51 Sep 08, 2008 29 Sep 02, 2009 260 Aug 30, 2010 11	Aug 26, 2004 20 20-20 Aug 31, 2005 18 18-18 Aug 29, 2006 51 51-52 Sep 08, 2008 29 29-30 Sep 02, 2009 260 253-267 Aug 30, 2010 11 11-11

Brook Trout >=200mm	Aug 26, 2004	13	13-13	BK1
	Aug 29, 2006	1	1-1	ВК3
	Sep 08, 2008	10	10-10	ВК3
	Sep 02, 2009	6	6-7	BK3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 11

Species: Brook Trout





