## SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

## Slate Creek - South Fork, Pennington County 10120110010049 2014

Table 1. Population and Biomass Estimates for Slate Creek - South Fork

Site Number: 22 Site Midpoint (Latitude, Longitude): 43.98870975, -103.72945622 Survey Completed by: South Dakota Game, Fish and Parks Stream Classification: BK0, RB0						Date Sampled: Site Length (m): Mean Width (m): Number of Pass:		1.7	(um pH: Wat	nductivity hos/cm): er Temper tage:	rature (C):	7.8 12.5 350	
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	1	1	1	1	60	1	10	24	1.13	16	116.0	21.0
Brook Trout	All	1	1	1	1	60	1	10	24	1.13	16	116.0	21.0
Rainbow Trout	<200mm	1	1	1	1	60	2	10	24	1.51	16	131.0	28.0
Rainbow Trout	All	1	1	1	1	60	2	10	24	1.51	16	131.0	28.0
White Sucker	All	3	3	3	3	181	20	30	73	18.08	48	213.7	111.7
Site Number: 43 Site Midpoint (Latitude, Longitude): 43.98320141, -103.74415643							Date Sampled: 08/13/2 Site Length (m): 100		08/13/2014 100	4 Conductivity (umhos/cm):			79 8.1
Survey Completed by: South Dakota Game, Fish and Parks Stream Classification: BK0						Mean Width (m): 0.8		Water Temperature (C):			16.0		
Stream Classification. DNO						Number of Pass: 1			Voltage:			375	
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	1	1	1	1	121	5	10	49	4.75	16	151.0	44.0
Brook Trout	All	1	1	1	1	121	5	10	49	4.75	16	151.0	44.0

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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 Slate Creek - South Fork, 2004-2014

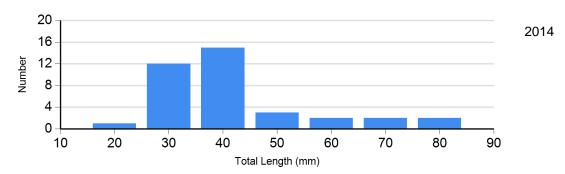
## Site 22

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 17, 2014	1	1-1	
Rainbow Trout <200mm	Jun 17, 2014	1	1-1	
White Sucker	Jun 17, 2014	3	3-3	
Site 43				
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 13, 2014	1	1-1	

## **Length Frequency Distribution**

Length frequency histogram of species sampled by year.

Site: 22 Species: Longnose Dace



Site: 43 Species: Longnose Dace

