SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Ditch Creek, Pennington County 02-0059-00 2014

Table 1. Population and Biomass Estimates for Ditch Creek

Site Number: 14

Site Midpoint (Latitude, Longitude): 43.97247052, -103.84458740

Survey Completed by:

Stream Classification: BK0

Date Sampled: 06/30/2014

Conductivity (umhos/cm):

Site Length (m): 100

Mean Width (m): 4.3

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	255	257	261	255	5964	120	2570	2415	106.74	4135	101.1	20.0
Brook Trout	AII	344	385	409	361	8935	179	3850	3619	159.90	6195	101.1	20.0

Site Number: 32

Site Midpoint (Latitude, Longitude): 43.95982757, -103.84226980

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK2

Date Sampled: 06/30/2014

Site Length (m): 100

Mean Width (m): 3.7

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 9.0

Voltage: 300

420

8.3

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	120	130	141	120	3522	144	1300	1426	128.27	2092	123.5	40.8
Brook Trout	>=200mm	6	6	6	6	163	16	60	66	14.59	97	204.5	100.5
Brook Trout	All	126	135	145	126	3658	161	1350	1481	143.84	2172	127.3	44.0

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 Ditch Creek, 2004-2014

Site 14

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification		
Brook Trout <200mm	Sep 21, 2006	106	106-106			
	Jun 13, 2008	108	108-108			
	Jun 30, 2014	257	255-261			
Brook Trout >=200mm	Sep 21, 2006	1	1-1	BK2		
	Jun 13, 2008	1	1-1	ВК3		
Site 32						
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification		
Brook Trout <200mm	Jun 30, 2014	130	120-141			

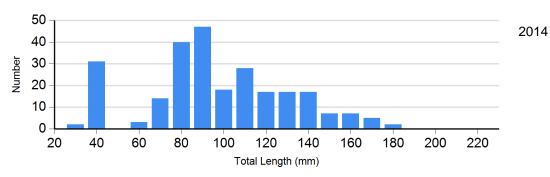
Brook Trout >=200mm Jun 30, 2014 6 6-6 BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 14

Species: Brook Trout



Site: 32 Species: Brook Trout

