SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Whitetail Creek, Lawrence County

09-0059-00

2017

Table 1. Population and Biomass Estimates for Whitetail Creek

Site Number: 50	Date Sampled: 08/22/2017	Conductivity
Site Midpoint (Latitude, Longitude): 44.32465294, -103.79815239	Site Length (m): 102	(umhos/cm):
Survey Completed by: GEI	Mean Width (m): 2.7	pH:
Stream Classification: BK0		Water Temperature (C):
	Number of Pass: 3	Voltage:

	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)
В	rook Trout	<200mm	20	20	21	20	748	6	196	303	5.75	315	93.3	8.6
В	rook Trout	All	20	20	21	20	748	6	196	303	5.75	315	93.3	8.6

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.

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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 Whitetail Creek, 2007-2017

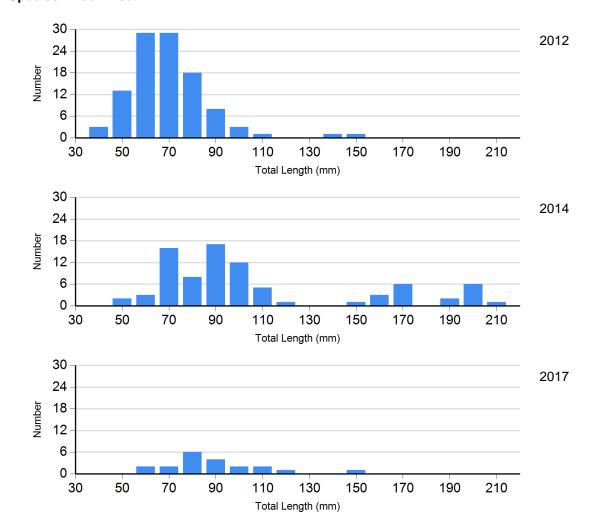
Site 50

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 15, 2008	11	11-11	
	Aug 25, 2010	62	62-63	
	Aug 25, 2011	26	26-27	
	Aug 22, 2012	108	106-112	
	Aug 20, 2014	49	49-51	
	Aug 27, 2014	27	27-28	
	Aug 22, 2017	20	20-21	
Brook Trout >=200mm	Aug 20, 2014	2	2-2	BK2
	Aug 27, 2014	5	5-5	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.





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