# SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

#### Meadow Creek, Lawrence County

09-0072-00

2018

Table 1. Population and Biomass Estimates for Meadow Creek

Site Number: 12 Site Midpoint (Latitude, Longitude): 44.28582280, -103.56238706 Survey Completed by: South Dakota Game, Fish and Parks Stream Classification: BK0							Date Sampled:05/10/20Site Length (m):100Mean Width (m):1.3Number of Pass:3		1.3	<ul> <li>Conductivity (umhos/cm):</li> <li>pH:</li> <li>Water Temperature (C):</li> <li>Voltage:</li> </ul>		476 13.2 300	
Species	Size Class	Total Number Captured	Est. # in site	Upper 95% CI	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	31	31	31	31	2453	57	310	994	50.73	499	125.8	23.2
Brook Trout	All	31	31	31	31	2453	57	310	994	50.73	499	125.8	23.2

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.

8/12/2020 Page 1

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 Meadow Creek, 2008-2018

### Site 2

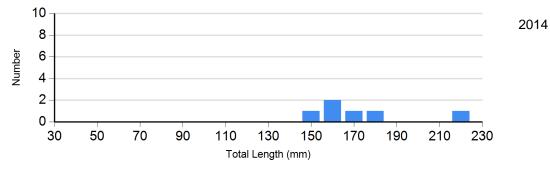
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 06, 2014	5	5-5	
	Jun 02, 2016	3	3-4	
Brook Trout >=200mm	Jun 06, 2014	1	1-1	BK3
e 12				
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 06, 2014	5	5-5	
Brook Trout <200mm	Jun 06, 2014 Aug 14, 2017	5 16	5-5 16-18	
Brook Trout <200mm				

## **Length Frequency Distribution**

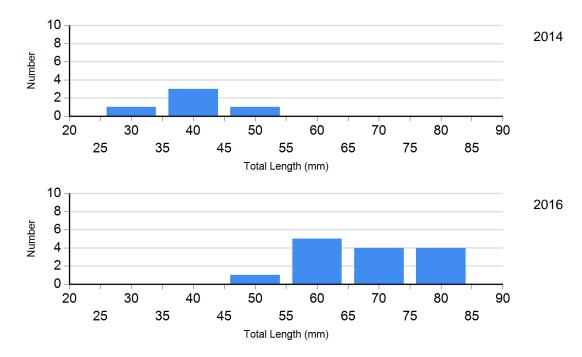
Length frequency histogram of species sampled by year.

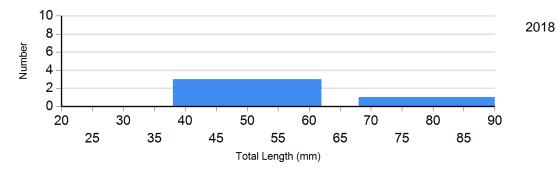
### **Site:** 2

Species: Brook Trout

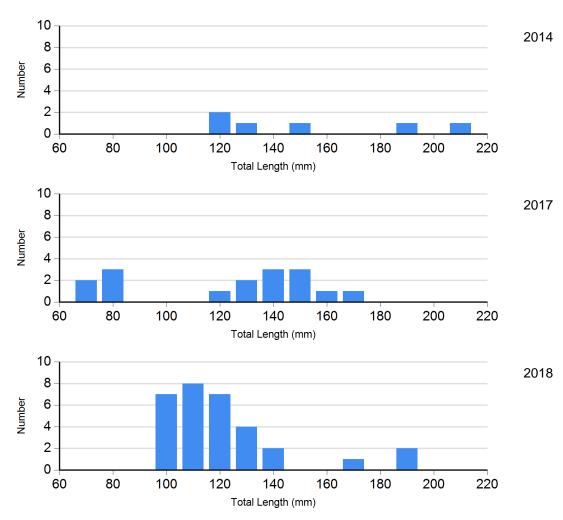












8/12/2020 Page 4

Site: 12 Species: Longnose Dace

