## SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

## **Boxelder - South Fork, Lawrence County**

09-0071-00

2015

Table 1. Population and Biomass Estimates for Boxelder - South Fork

Site Number: 110	Date Sampled: 09/10/2015	Conductivity	189
Site Midpoint (Latitude, Longitude): 44.18982200, -103.59672323	Site Length (m): 100	(umhos/cm):	
Survey Completed by: South Dakota Game, Fish and Parks	• • • •	pH:	7.5
Stream Classification: BK1	Mean Width (m): 1.4	Water Temperature (C):	14.6
	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)
Brook Trout	<200mm	117	117	118	117	8357	372	1170	3385	332.56	1883	131.9	44.6
Brook Trout	>=200mm	14	14	14	14	1000	140	140	405	124.87	225	229.5	139.9
Brook Trout	All	131	131	132	131	9357	559	1310	3790	499.01	2108	142.3	59.7
Longnose Dace	All	39	40	43	39	2857	39	400	1157	34.62	644	87.3	13.6

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.

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			

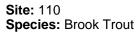
Table 2. Species composition and population estimates on Boxelder - South Fork, 2005-2015

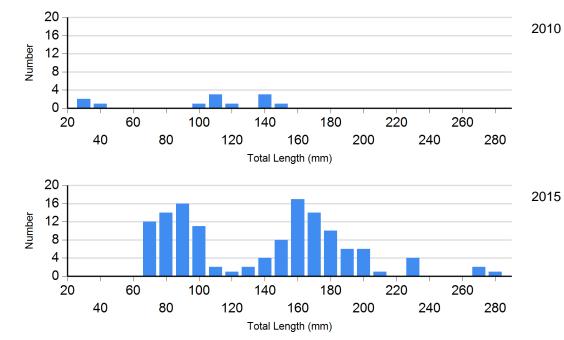
## Site 110

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Sep 10, 2015	117	117-118	
Brook Trout >=200mm	Sep 10, 2015	14	14-14	BK1
Longnose Dace	Sep 10, 2015	40	39-43	

## **Length Frequency Distribution**

Length frequency histogram of species sampled by year.





Site: 110 Species: Longnose Dace

