

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Boxelder - North Fork, Lawrence County
09-0069-00
2016

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

Site Number: 112

Date Sampled: 06/06/2016

Conductivity (umhos/cm):

Site Midpoint (Latitude, Longitude): 44.22303907, -103.69113208

Site Length (m): 100

pH:

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 1.6

Water Temperature (C):

Stream Classification: BK2

Number of Pass: 3

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	43	43	43	43	2703	92	430	1095	82.00	692	137.7	34.0
Brook Trout	>=200mm	3	3	3	3	189	16	30	76	13.92	48	210.3	82.7
Brook Trout	All	46	46	46	46	2891	108	460	1171	96.10	740	142.4	37.2
Longnose Dace	All	33	35	40	33	2200	39	350	891	35.08	563	80.2	17.9

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 Brook Trout 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 - North Fork, 2006-2016

Site 112

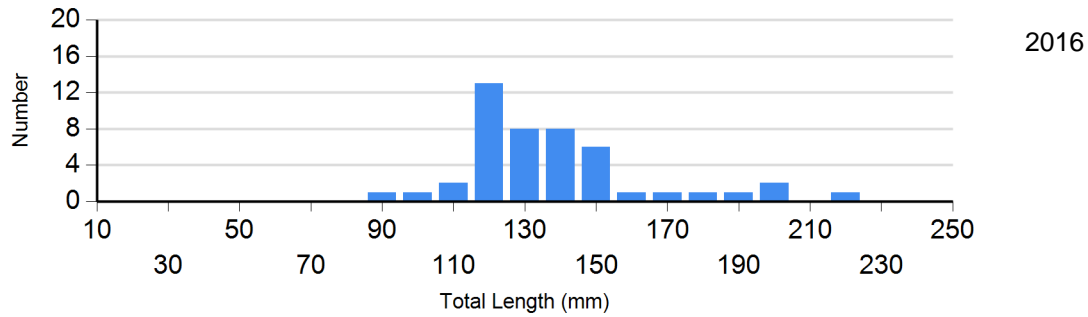
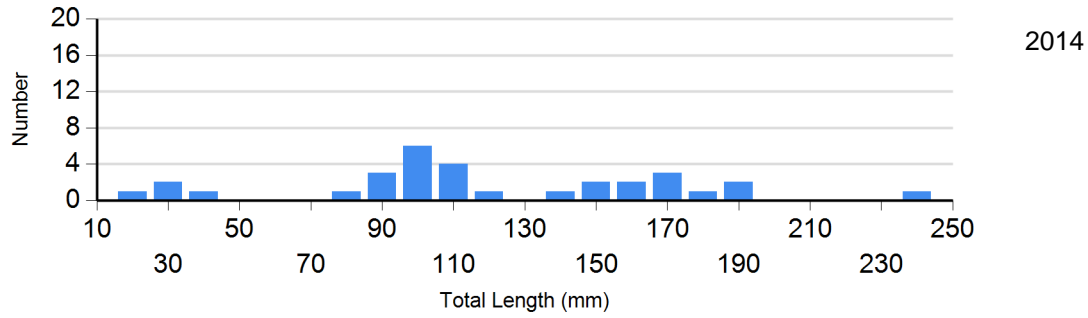
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 11, 2014	31	30-34	
	Jun 06, 2016	43	43-43	
Brook Trout >=200mm	Jun 11, 2014	1	1-1	BK3
	Jun 06, 2016	3	3-3	BK2
Longnose Dace	Jun 11, 2014	16	13-26	
	Jun 06, 2016	35	33-40	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

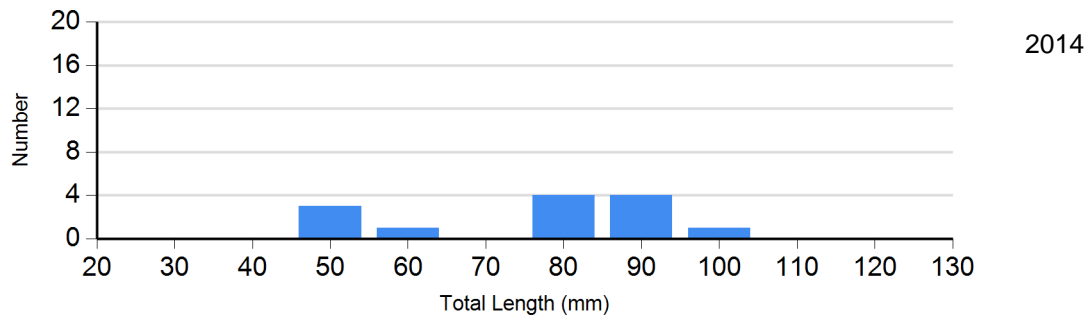
Site: 112

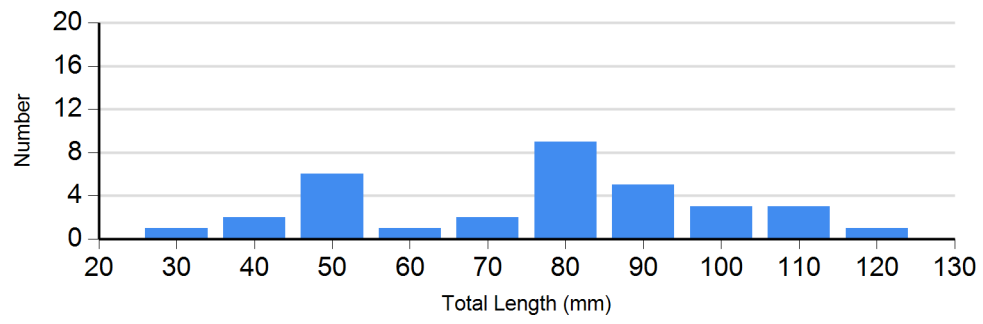
Species: Brook Trout



Site: 112

Species: Longnose Dace





2016