

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Boxelder - South Fork, Lawrence County
09-0071-00
2014

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

Site Number: 74	Date Sampled: 08/04/2014	Conductivity (umhos/cm): 862
Site Midpoint (Latitude, Longitude): 44.19650059, -103.58254266	Site Length (m): 100	pH: 8.1
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.8	Water Temperature (C): 13.0
Stream Classification: BK2	Number of Pass: 3	Voltage: 300

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	50	53	59	50	1899	69	530	769	61.83	853	89.1	36.5
Brook Trout	>=200mm	4	4	4	4	143	19	40	58	16.76	64	223.5	131.0
Brook Trout	All	54	57	63	54	2042	115	570	827	102.79	917	99.1	56.4
Longnose Dace	All	246	279	302	256	9997	140	2790	4049	124.96	4489	70.4	14.0
White Sucker	All	1	1	1	1	36	0	10	15	0.13	16	71.0	4.0

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 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 - South Fork, 2004-2014

Site 74

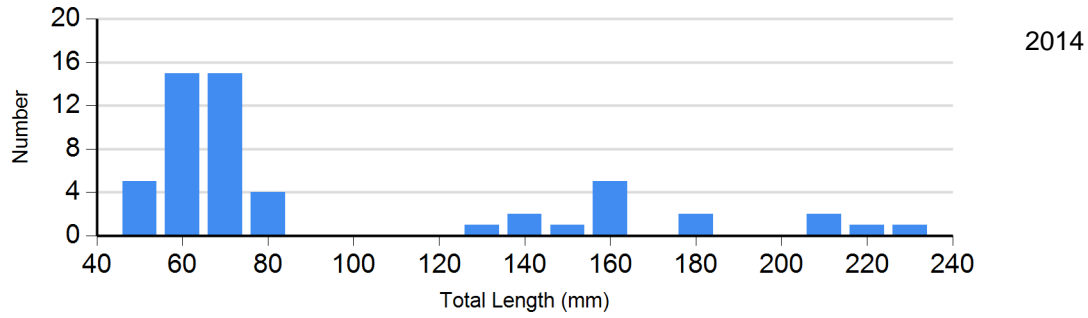
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 04, 2014	53	50-59	
Brook Trout >=200mm	Aug 04, 2014	4	4-4	BK2
Longnose Dace	Aug 04, 2014	279	256-302	
White Sucker	Aug 04, 2014	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 74

Species: Brook Trout



Site: 74

Species: Longnose Dace

