

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Iron Creek (South), Pennington County
02-0082-00
2016

Table 1. Population and Biomass Estimates for Iron Creek (South)

Site Number: 176

Site Midpoint (Latitude, Longitude): 43.83582547, -103.45186014

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK2

Date Sampled: 08/15/2016

Site Length (m): 100

Mean Width (m): 2.0

Number of Pass: 3

Conductivity (umhos/cm):

pH:

Water Temperature (C): 17.0

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	91	92	95	91	4559	151	920	1846	134.42	1480	132.3	33.0
Brook Trout	>=200mm	5	5	6	5	248	26	50	100	23.62	80	216.6	106.8
Brook Trout	All	96	97	100	96	4806	180	970	1947	160.35	1561	136.7	37.4
Longnose Dace	All	20	25	38	20	1239	21	250	502	18.53	402	87.5	16.8

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 Iron Creek (South), 2006-2016

Site 176

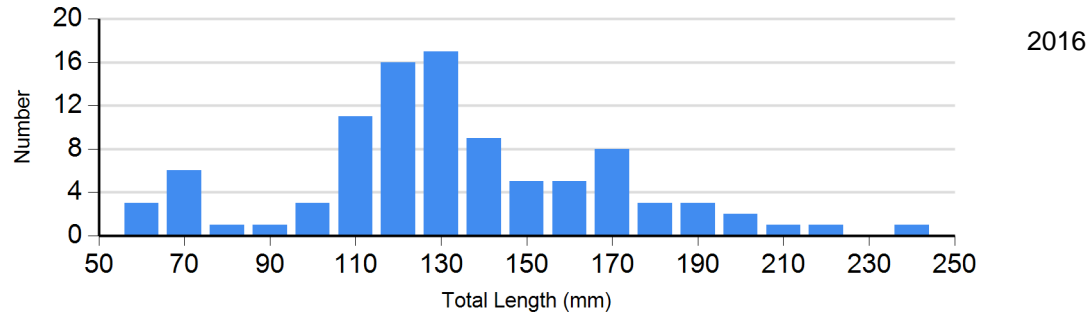
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 15, 2016	92	91-95	
Brook Trout >=200mm	Aug 15, 2016	5	5-6	BK2
Longnose Dace	Aug 15, 2016	25	20-38	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 176

Species: Brook Trout



Site: 176

Species: Longnose Dace

