

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Deadwood Creek, Lawrence County
09-0060-00
2018

Table 1. Population and Biomass Estimates for Deadwood Creek

Site Number: 15	Date Sampled: 07/30/2018	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.37074701, -103.74538988	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.9	Water Temperature (C): 14.0
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	88	90	94	88	3075	83	900	1245	74.53	1448	121.8	27.1
Brook Trout	>=200mm	4	4	5	4	137	20	40	55	17.51	64	232.3	143.5
Brook Trout	All	92	94	98	92	3211	108	940	1301	96.64	1512	126.6	33.7

Site Number: 72	Date Sampled: 08/23/2018	Conductivity (umhos/cm):
Site Midpoint (Latitude, Longitude): 44.35884420, -103.80543515	Site Length (m): 100	pH:
Survey Completed by: GEI	Mean Width (m): 1.5	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	100	101	104	100	6858	81	1010	2778	72.38	1625	103.5	11.8
Brook Trout	>=200mm	1	1	1	1	68	5	10	28	4.49	16	205.0	74.0
Brook Trout	All	101	102	105	101	6926	86	1020	2805	76.90	1641	104.5	12.4

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 Deadwood Creek, 2008-2018

Site 15

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 16, 2008	2	2-2	
	Sep 09, 2008	43	41-48	
	Jun 09, 2015	144	122-166	
	May 12, 2017	24	24-24	
	Jul 30, 2018	90	88-94	
Brook Trout >=200mm	Jul 16, 2008	5	5-5	BK2
	Sep 09, 2008	1	1-1	BK3

Brook Trout >=200mm	Jun 09, 2015	3	3-3	BK2
	Jul 30, 2018	4	4-5	BK2

Site 72

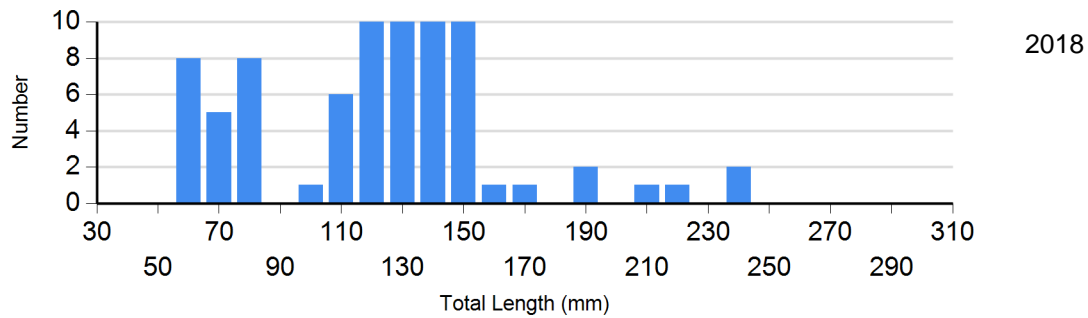
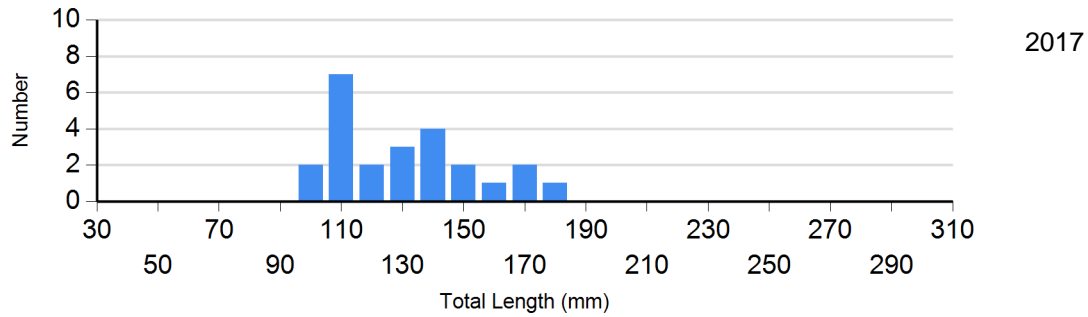
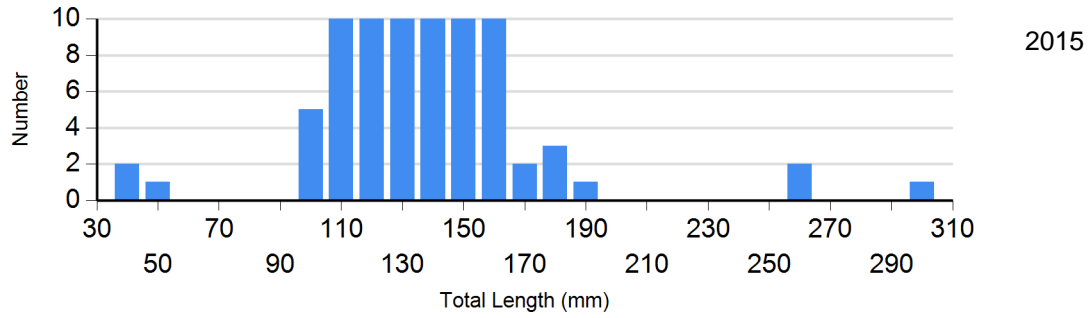
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 25, 2011	138	135-143	
	Aug 22, 2012	117	114-122	
	Aug 21, 2014	170	167-175	
	Aug 27, 2015	146	145-148	
	Aug 25, 2017	219	218-222	
	Aug 23, 2018	101	100-104	
Brook Trout >=200mm	Aug 27, 2015	2	2-3	BK3
	Aug 23, 2018	1	1-1	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 15

Species: Brook Trout



Site: 72
Species: Brook Trout

