

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
False Bottom Creek, Lawrence County
09-0040-00
2015

Table 1. Population and Biomass Estimates for False Bottom Creek

Site Number: 544	Date Sampled: 07/21/2015	Conductivity (umhos/cm): 336
Site Midpoint (Latitude, Longitude): 44.39822078, -103.80297429	Site Length (m): 100	pH: 6.4
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 3.2	Water Temperature (C): 12.5
Stream Classification: BK2, BR1, RB0	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	77	81	87	77	2517	78	810	1019	69.45	1303	134.8	30.9
Brook Trout	>=200mm	9	9	10	9	280	27	90	113	23.94	145	211.3	95.9
Brook Trout	All	86	90	96	86	2797	106	900	1133	94.98	1448	142.8	38.0
Brown Trout	<200mm	107	117	128	107	3636	94	1170	1472	83.96	1883	125.4	25.9
Brown Trout	>=200mm	14	14	16	14	435	57	140	176	50.66	225	232.6	130.4
Brown Trout	All	121	131	142	121	4071	159	1310	1649	141.94	2108	137.8	39.1
Rainbow Trout	<200mm	1	1	1	1	31	1	10	13	0.83	16	130.0	30.0
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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 False Bottom Creek, 2005-2015

Site 544

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 21, 2015	81	77-87	
	Jul 21, 2015	81	77-87	
Brook Trout >=200mm	Jul 21, 2015	9	9-10	BK2
	Jul 21, 2015	9	9-10	BK2
Brown Trout <200mm	Jul 21, 2015	117	107-128	
	Jul 21, 2015	117	107-128	
Brown Trout >=200mm	Jul 21, 2015	14	14-16	BR1

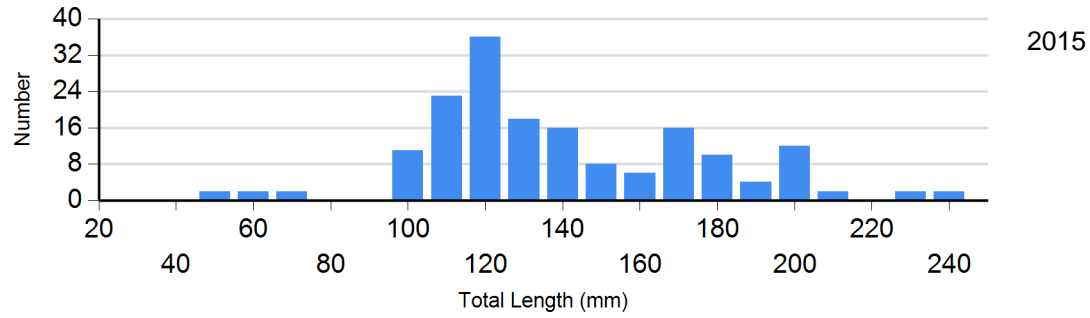
Brown Trout >=200mm	Jul 21, 2015	14	14-16	BR1
Rainbow Trout <200mm	Jul 21, 2015	1	1-1	
	Jul 21, 2015	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 544

Species: Brook Trout



Site: 544

Species: Brown Trout

