SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

False Bottom Creek, Lawrence County

09-0040-00

Table 1. Population and Biomass Estimates for False Bottom Creek

Brown Trout >=200mm

Rainbow Trout <200mm

All

All

Brown Trout

Rainbow Trout

Site Number: 542 Site Midpoint (Latitude, Longitude): 44.39916853, -103.80488353 Survey Completed by: South Dakota Game, Fish and Parks Stream Classification: BK3, BR2, RB0							Date Sampled:06/11/20Site Length (m):100Mean Width (m):3.0Number of Pass:3		3.0	8 Conductivity (umhos/cm): pH: Water Temper Voltage:		rature (C): 400	
Species	Size Class	Total Number Captured	Est. # in site	Upper 95% Cl	Lower 95% Cl	# per Hectacre	Kg per Hectacre	# per Km	# per Acre	lb. per Acre	# per Mile	Mean Length (mm)	Mean Weight (grams)
Brook Trout	<200mm	7	7	7	7	234	8	70	95	6.93	113	136.1	33.1
Brook Trout	>=200mm	1	1	1	1	33	4	10	14	3.31	16	212.0	111.0
Brook Trout	All	8	8	8	8	267	11	80	108	10.24	129	145.6	42.9
Brown Trout	<200mm	82	84	88	82	2809	62	840	1137	55.29	1352	122.2	22.0

10.51

66.00

2.33

2.33

220.7

125.7

193.0

193.0

117.3

25.4

78.0

78.0

Site Number: Site Midpoint Survey Compl Stream Classi	(Latitude, leted by: S	South Dakota					Mean W	mpled: ngth (m): /idth (m): r of Pass:	2.0	(um pH: Wat		rature (C):	400	
Species	Size	Total Number	Est. # in	Upper	Lower	# per	Kg per	# per	# per	lb. per	# per	Mean Length	Mean Weight	

Species	Class	Captured	site	95% CI	95% CI	Hectacre	Hectacre	Ќт	Acre	Acre	Mile	Length (mm)	(grams)	-
Brook Trout	<200mm	33	33	34	33	1650	35	330	668	31.67	531	114.2	21.5	

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Brook Trout	All	33	33	34	33	1650	35	330	668	31.67	531	114.2	21.5
Brown Trout	<200mm	7	7	7	7	350	7	70	142	6.56	113	122.0	21.0
Brown Trout	All	7	7	7	7	350	7	70	142	6.56	113	122.0	21.0

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 BrookTrout 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, 2008-2018

Site 542

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 11, 2018	7	7-7	
Brook Trout >=200mm	Jun 11, 2018	1	1-1	ВКЗ
Brown Trout <200mm	Jun 11, 2018	84	82-88	
Brown Trout >=200mm	Jun 11, 2018	3	3-3	BR2
Rainbow Trout <200mm	Jun 11, 2018	1	1-2	
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Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 28, 2008	42	42-44	

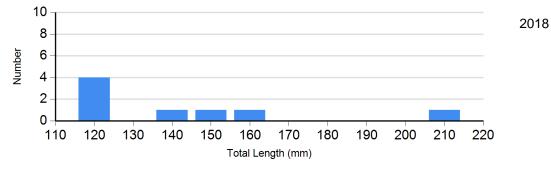
Brook Trout <200mm	Jun 17, 2014	76	75-79	
	Jun 30, 2016	54	54-55	
	Jun 11, 2018	33	33-34	
Brook Trout >=200mm	Jun 30, 2016	1	1-1	ВКЗ
Brown Trout <200mm	Jun 17, 2014	3	3-3	
	Jun 30, 2016	50	49-53	
	Jun 11, 2018	7	7-7	
Brown Trout >=200mm	Jun 17, 2014	1	1-1	BR3
	Jun 30, 2016	1	1-1	BR3

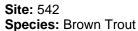
Length Frequency Distribution

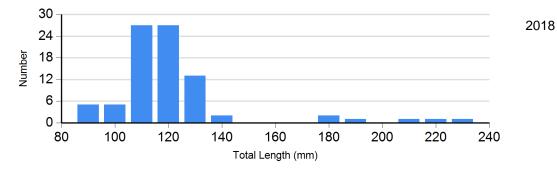
Length frequency histogram of species sampled by year.

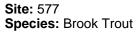
Site: 542

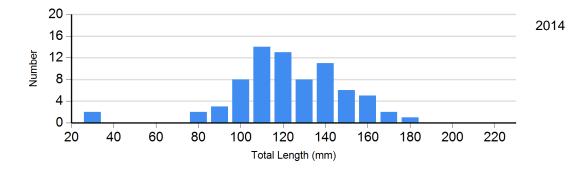
Species: Brook Trout

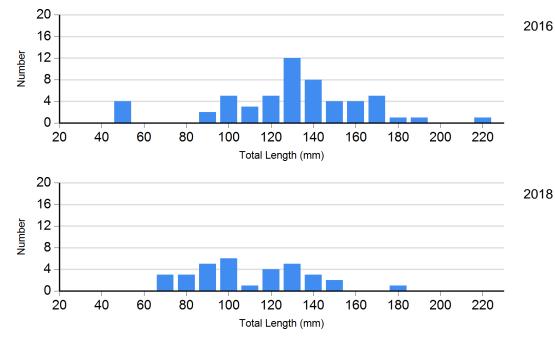




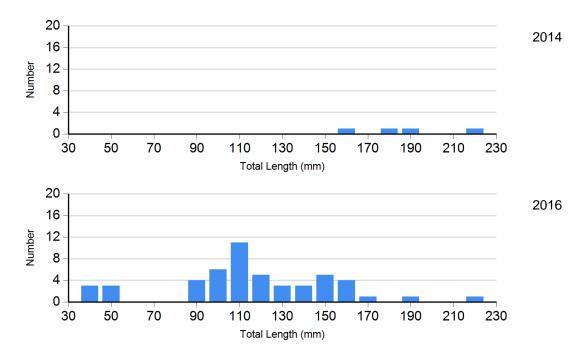












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