SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Elk Creek, Meade County 09-0015-00 2008

Table 1. Population and Biomass Estimates for Elk Creek

Site Number: 2391 Site Midpoint (Latitude, Longitude): 44.27990648, -103.63443148 Survey Completed by: South Dakota Game, Fish and Parks Stream Classification: BK3						Date Sampled: Site Length (m): Mean Width (m): Number of Pass:		5.1	(um pH: Wat	nductivity hos/cm): er Temper tage:	rature (C):	333 9.0 19.9 300	
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	12	12	12	12	234	11	120	95	9.84	193	136.8	47.1
Brook Trout	>=200mm	2	2	2	2	39	5	20	16	4.25	32	220.5	122.0
Brook Trout	All	14	14	14	14	273	17	140	111	14.81	225	148.7	60.7
Mountain Sucker	All	40	40	40	40	780	17	400	316	14.75	644	122.1	21.2
Site Midpoint	Site Number: 2537 Site Midpoint (Latitude, Longitude): 44.25638126, -103.75581378 Survey Completed by: South Dakota Game, Fish and Parks Date Sampled: 07/01/2008 Site Length (m): 100 Mean Width (m): 2.9 Conductivity (umhos/cm): pH:												
Stream Classification: BK0						Number of Pass: 1			Water Temperature (C): Voltage:			13.1 325	
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	61	61	61	61	2130	50	610	863	45.09	981	121.1	23.7
Brook Trout	All	61	61	61	61	2130	50	610	863	45.09	981	121.1	23.7

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 Elk Creek, 1998-2008

Site 2391

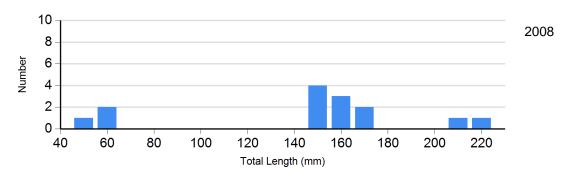
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification	
Brook Trout <200mm	Jul 22, 2008	12	12-12		
Brook Trout >=200mm	Jul 22, 2008	2	2-2	ВК3	
Mountain Sucker	Jul 22, 2008	40	40-40		
Site 2537					
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification	
Brook Trout <200mm	Jul 01, 2008	61	61-61		

Length Frequency Distribution

Length frequency histogram of species sampled by year.

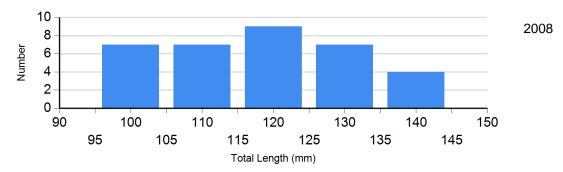
Site: 2391

Species: Brook Trout



Site: 2391

Species: Mountain Sucker



Site: 2537

Species: Brook Trout

