SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Yellow Creek, Lawrence County 09-0062-00 2014

Table 1. Population and Biomass Estimates for Yellow Creek

Site Number: 9

Site Midpoint (Latitude, Longitude): 44.33468769, -103.75756976

Survey Completed by: South Dakota Game, Fish and Parks

Stream Classification: BK3

Date Sampled: 08/25/2014

Site Length (m): 100

Mean Width (m): 1.7

Number of Pass: 1

Conductivity (umhos/cm):

pH:

Water Temperature (C): 13.0

Voltage: 370

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	23	23	23	23	1332	64	230	539	56.76	370	152.4	47.7
Brook Trout	>=200mm	1	1	1	1	58	7	10	23	6.20	16	219.0	120.0
Brook Trout	All	24	24	24	24	1389	71	240	563	62.96	386	155.2	50.8

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 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 Yellow Creek, 2004-2014

Site 9

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 25, 2014	23	23-23	_
Brook Trout >=200mm	Aug 25, 2014	1	1-1	ВК3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 9 Species: Brook Trout

