

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Yellow Creek, Lawrence County
09-0062-00
2008

Table 1. Population and Biomass Estimates for Yellow Creek

Site Number: 24	Date Sampled: 07/21/2008	Conductivity (umhos/cm): 259
Site Midpoint (Latitude, Longitude): 44.32551298, -103.74768566	Site Length (m): 100	pH: 8.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.6	Water Temperature (C): 15.9
Stream Classification: BK2	Number of Pass: 1	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	11	11	11	11	680	28	110	275	24.72	177	152.5	40.7
Brook Trout	>=200mm	3	3	3	3	185	23	30	75	20.25	48	217.3	122.3
Brook Trout	All	22	22	22	22	1360	79	220	551	70.67	354	166.4	58.2

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 Yellow Creek, 1998-2008

Site 24

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jul 21, 2008	11	11-11	
Brook Trout >=200mm	Jul 21, 2008	3	3-3	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 24

Species: Brook Trout

