

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
West Strawberry Creek, Lawrence County
09-0058-00
2008

Table 1. Population and Biomass Estimates for West Strawberry Creek

Site Number: 9	Date Sampled: 07/01/2008	Conductivity (umhos/cm): 328
Site Midpoint (Latitude, Longitude): 44.34822300, -103.73358595	Site Length (m): 100	pH: 8.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.3	Water Temperature (C): 16.5
Stream Classification: BK2, BR2	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	50	50	50	50	2174	63	500	880	56.25	805	132.0	29.0
Brook Trout	>=200mm	4	4	4	4	174	16	40	70	14.60	64	207.8	94.0
Brook Trout	All	54	54	54	54	2348	79	540	951	70.85	869	137.6	33.8
Brown Trout	<200mm	2	2	2	2	87	2	20	35	2.02	32	134.5	26.0
Brown Trout	>=200mm	2	2	2	2	87	19	20	35	16.65	32	281.0	214.5
Brown Trout	All	4	4	4	4	174	21	40	70	18.67	64	207.8	120.3

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 West Strawberry Creek, 1998-2008

Site 9

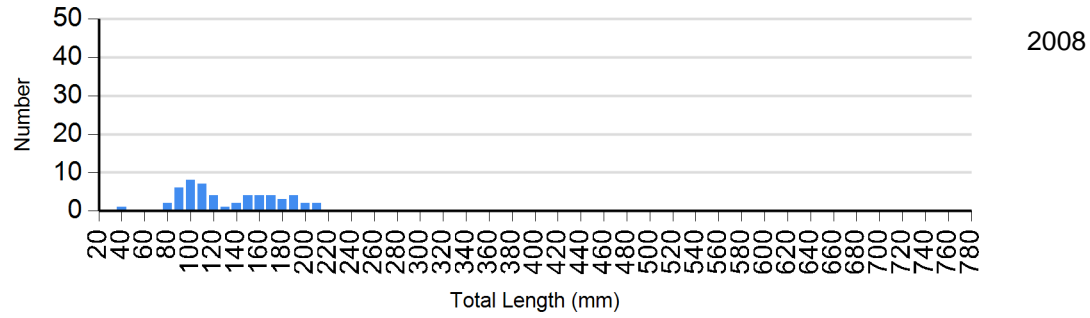
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Oct 01, 1998	409	398-420	
	Jul 01, 2008	50	50-50	
Brook Trout >=200mm	Oct 01, 1998	9	9-10	BK1
	Jul 01, 2008	4	4-4	BK2
Brown Trout <200mm	Oct 01, 1998	4	4-4	
	Jul 01, 2008	2	2-2	
Brown Trout >=200mm	Oct 01, 1998	1	1-1	BR3

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 9

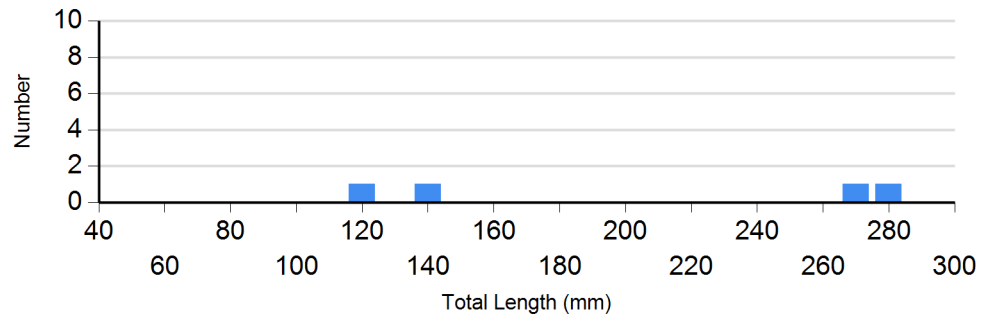
Species: Brook Trout



2008

Site: 9

Species: Brown Trout



2008