

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Tillson Creek, Lawrence County
09-0081-00
1995

Table 1. Population and Biomass Estimates for Tillson Creek

Site Number: 98	Date Sampled: 06/15/1995	Conductivity (umhos/cm): 208
Site Midpoint (Latitude, Longitude): 44.18987337, -103.82576437	Site Length (m): 100	pH: 8.2
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 0.7	Water Temperature (C): 9.0
Stream Classification: BK2	Number of Pass: 3	Voltage: 350

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	14	12	1622	44	120	657	39.09	193	139.9	27.0
Brook Trout	>=200mm	1	1	1	1	135	12	10	55	10.50	16	209.0	87.0
Brook Trout	All	13	13	15	13	1757	56	130	711	49.59	209	145.2	31.6

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 Tillson Creek, 1985-1995

Site 98

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 15, 1995	12	12-14	
Brook Trout >=200mm	Jun 15, 1995	1	1-1	BK2

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 98

Species: Brook Trout

