

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Whitewood Creek, Lawrence County
09-0056-00
1992

Table 1. Population and Biomass Estimates for Whitewood Creek

Site Number: 558	Date Sampled: 10/03/1992	Conductivity (umhos/cm): 890
Site Midpoint (Latitude, Longitude): 44.38550441, -103.71870274	Site Length (m): 100	pH:
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 5.0	Water Temperature (C): 15.0
Stream Classification: BR1	Number of Pass: 3	Voltage:

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)
Brown Trout	<200mm	60	102	173	60	2056	42	1020	833	37.46	1641	111.3	20.4
Brown Trout	>=200mm	24	24	25	24	484	79	240	196	70.30	386	238.5	162.7
Brown Trout	All	84	107	134	84	2157	132	1070	874	117.61	1722	147.7	61.1
Hatchery Brown Trout	>=200mm	68	68	69	68	1371	259	680	555	231.55	1094	253.2	189.2
Hatchery Brown Trout	All	68	68	69	68	1371	259	680	555	231.55	1094	253.2	189.2
Longnose Dace	All	14	36	150	14	726	5	360	294	4.58	579	84.8	7.1
Mountain Sucker	All	36	44	59	36	887	16	440	359	14.54	708	111.3	18.4
White Sucker	All	1	1	1	1	20	6	10	8	5.58	16	294.0	310.0

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 Whitewood Creek, 1982-1992

Site 558

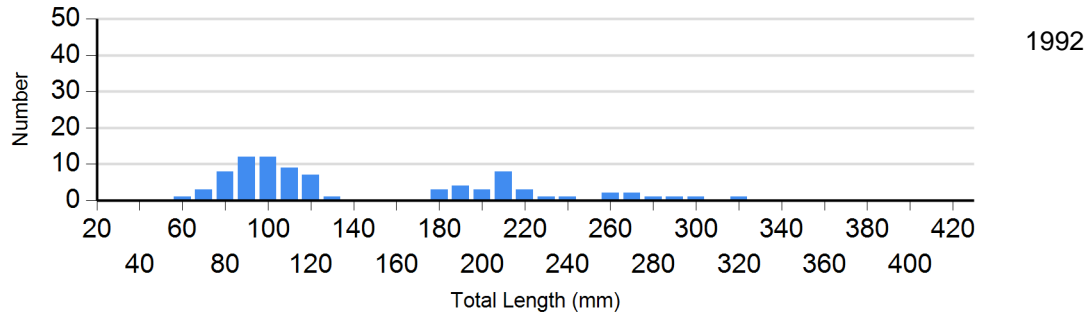
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Oct 03, 1992	102	60-173	
Brown Trout >=200mm	Oct 03, 1992	24	24-25	BR1
Hatchery Brown Trout >=200mm	Oct 03, 1992	68	68-69	
Longnose Dace	Oct 03, 1992	36	14-150	
Mountain Sucker	Oct 03, 1992	44	36-59	
White Sucker	Oct 03, 1992	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

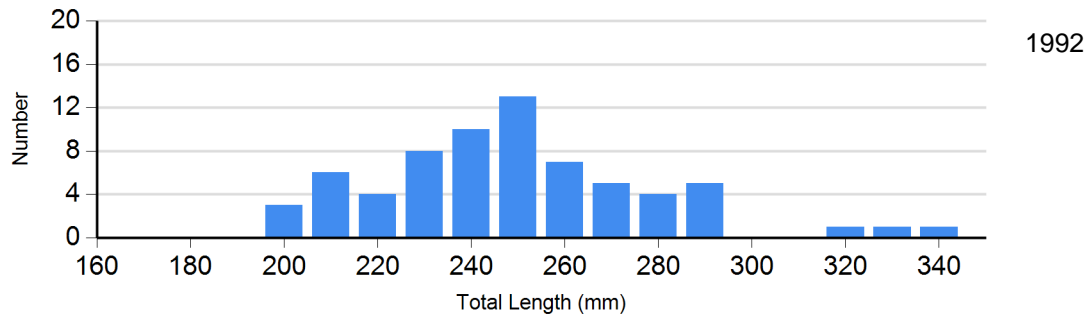
Site: 558

Species: Brown Trout



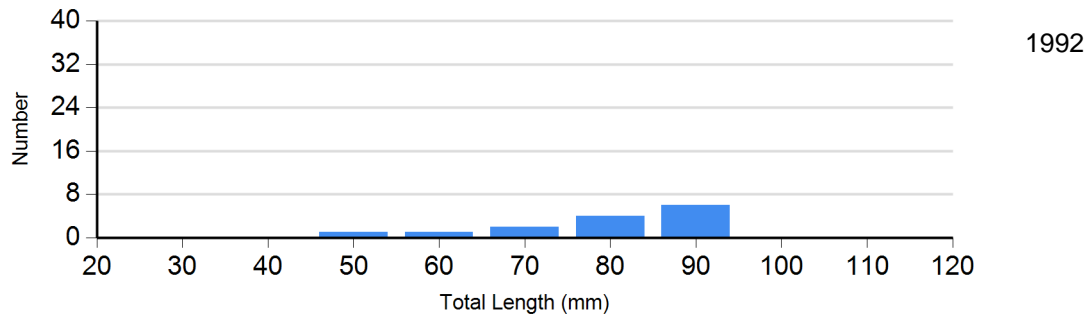
Site: 558

Species: Hatchery Brown Trout



Site: 558

Species: Longnose Dace



Site: 558
Species: Mountain Sucker

