

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Higgins Gulch, Lawrence County
09-0045-00
1995

Table 1. Population and Biomass Estimates for Higgins Gulch

Site Number: 34	Date Sampled: 06/13/1995	Conductivity (umhos/cm): 500
Site Midpoint (Latitude, Longitude): 44.53974980, -103.88084165	Site Length (m): 96	pH: 7.6
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 4.2	Water Temperature (C): 13.0
Stream Classification: BK0, BR3	Number of Pass: 3	Voltage: 250

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	8	8	9	8	190	10	83	77	9.08	134	170.9	53.4
Brook Trout	All	8	8	9	8	190	10	83	77	9.08	134	170.9	53.4
Brown Trout	<200mm	17	16	21	17	381	18	167	154	16.50	268	150.8	48.5
Brown Trout	>=200mm	1	1	1	1	24	27	10	10	23.85	17	446.0	1122.0
Brown Trout	All	18	17	22	18	405	45	177	164	40.35	285	167.2	111.6
Largemouth Bass	All	1	1	1	1	24	0	10	10	0.15	17	82.0	7.0
Longnose Dace	All	1	1	1	1	24	0	10	10	0.06	17	70.0	3.0
Unidentified YOY Trout	<200mm	8	8	10	8	190	0	83	77	0.34	134	45.0	2.0
Unidentified YOY Trout	All	8	8	10	8	190	0	83	77	0.34	134	45.0	2.0

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 Higgins Gulch, 1985-1995

Site 34

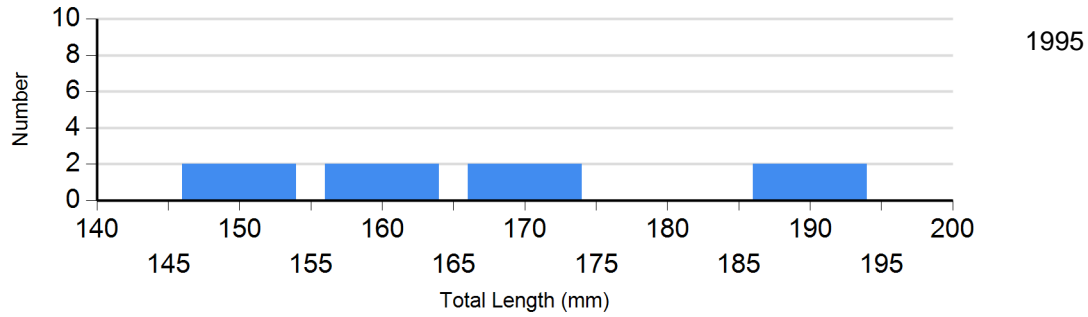
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 13, 1995	8	8-9	
Brown Trout <200mm	Jun 13, 1995	16	17-21	
Brown Trout >=200mm	Jun 13, 1995	1	1-1	BR3
Largemouth Bass	Jun 13, 1995	1	1-1	
Longnose Dace	Jun 13, 1995	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

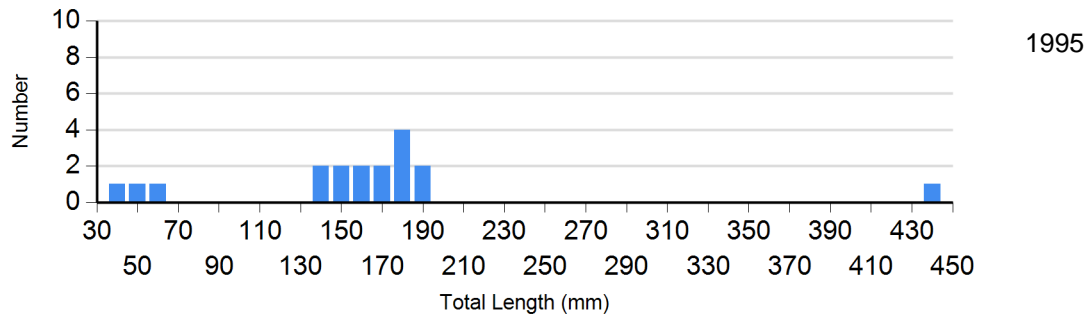
Site: 34

Species: Brook Trout



Site: 34

Species: Brown Trout



Site: 34

Species: Unidentified YOY Trout

