

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Rapid Creek - North Fork, Pennington County
02-0075-00
2010

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 Rapid Creek - North Fork, 2000-2010

Site 2

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 25, 2006	41	41-42	
Brown Trout >=200mm	Sep 25, 2006	2	2-2	BR2
Longnose Dace	Sep 25, 2006	36	37-47	
Mountain Sucker	Sep 25, 2006	1	1-1	
White Sucker	Sep 25, 2006	10	10-10	

Site 185

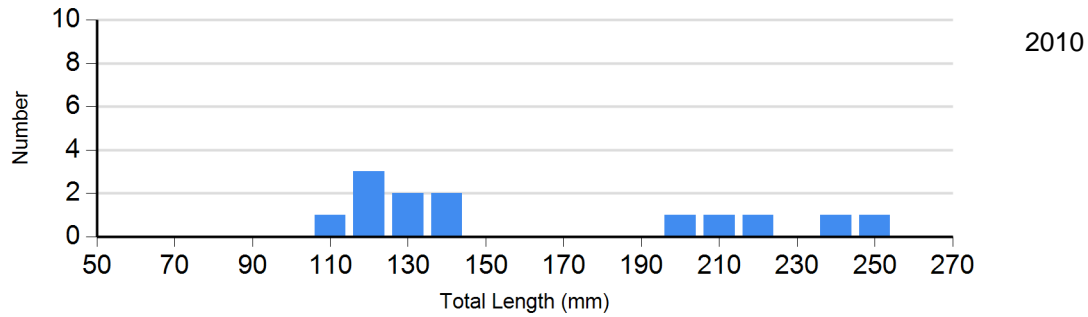
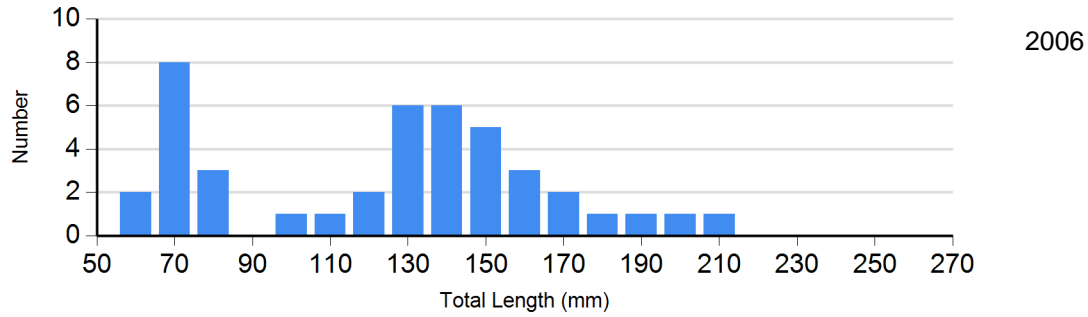
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 23, 2008	15	15-15	
Brook Trout >=200mm	Jun 23, 2008	1	1-1	BK3
Longnose Dace	Jun 23, 2008	1	1-1	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

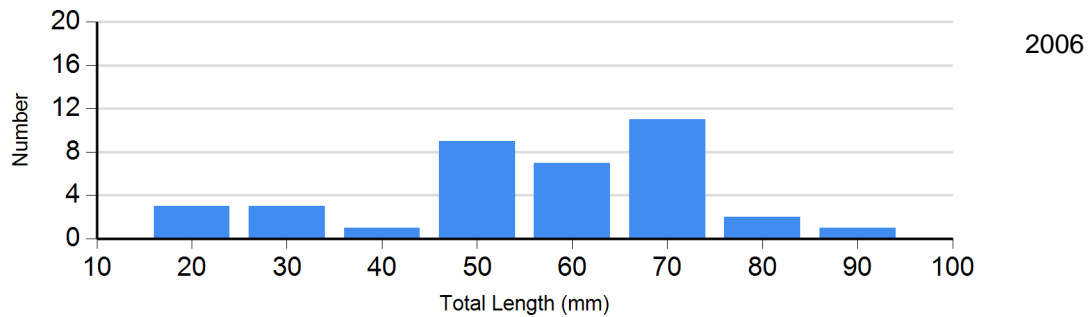
Site: 2

Species: Brown Trout

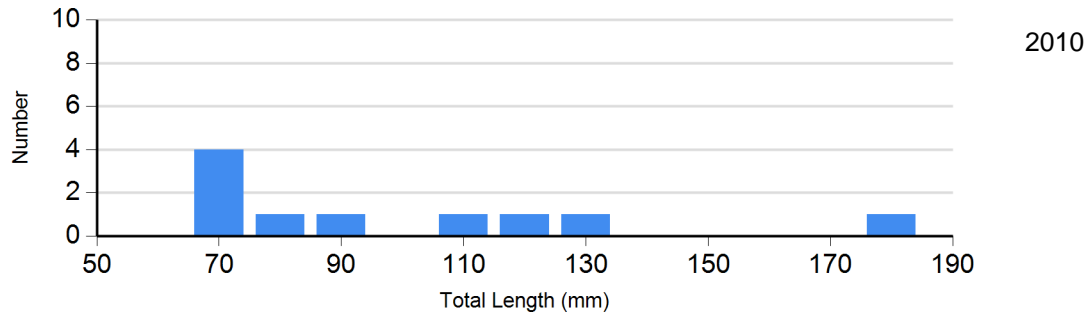


Site: 2

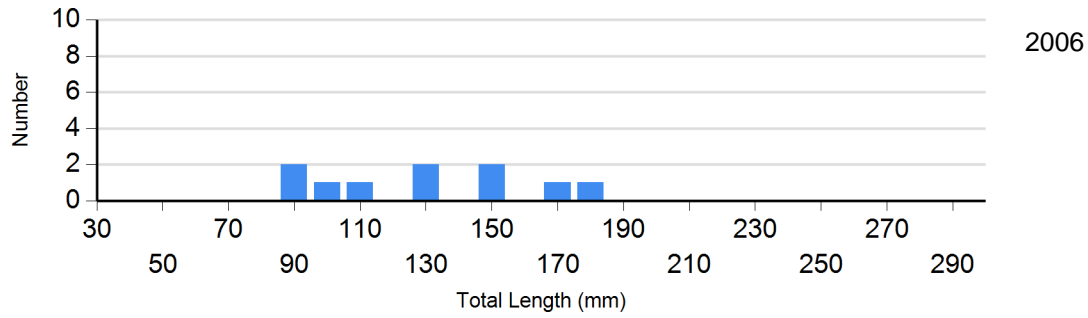
Species: Longnose Dace



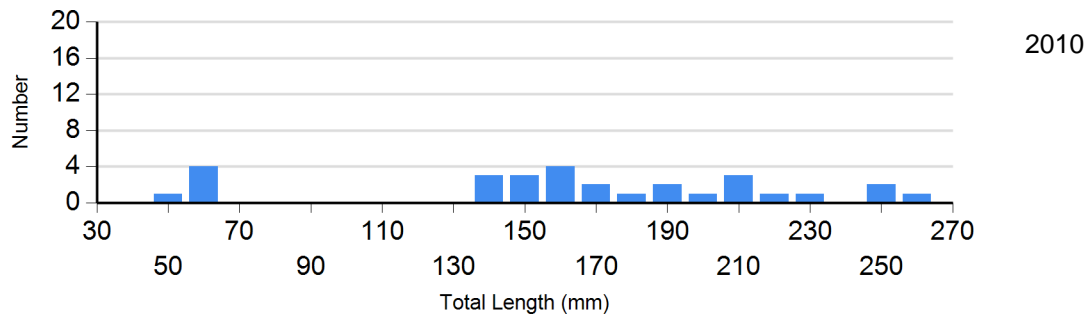
Site: 2
Species: Mountain Sucker



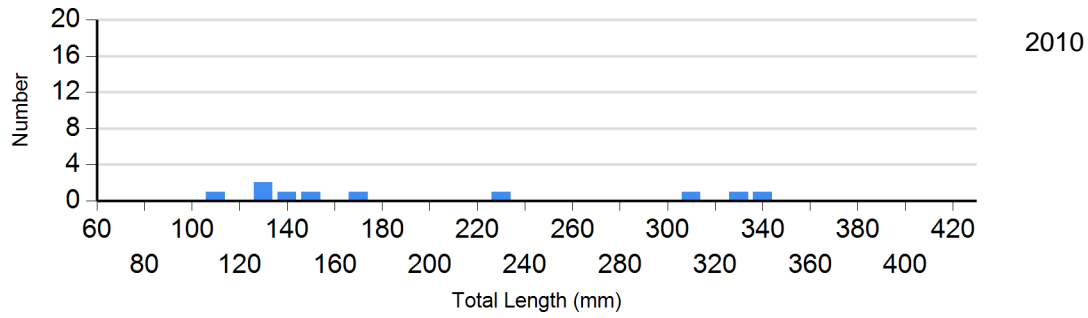
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Species: White Sucker



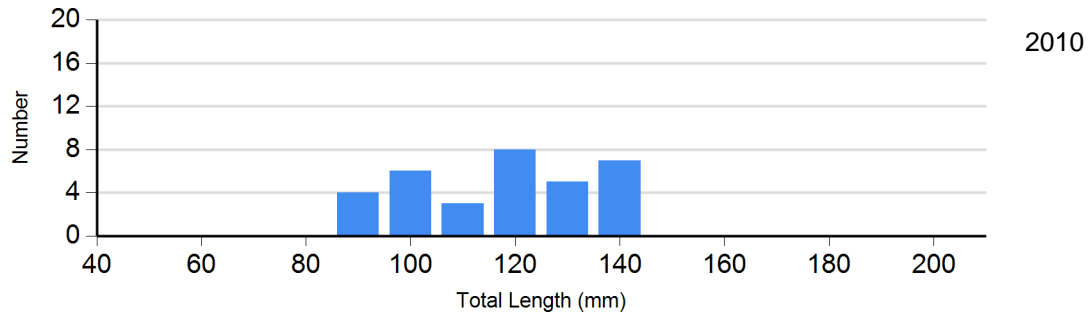
Site: 119
Species: Brook Trout



Site: 119
Species: Brown Trout



Site: 119
Species: Mountain Sucker



Site: 185
Species: Brook Trout

