

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Horse Creek, Pennington County
02-9219-00
2009

Table 1. Population and Biomass Estimates for Horse Creek

Site Number: 29	Date Sampled: 05/13/2009	Conductivity (umhos/cm): 255
Site Midpoint (Latitude, Longitude): 43.98308260, -103.48559370	Site Length (m): 100	pH: 9.5
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 2.4	Water Temperature (C): 11.2
Stream Classification: None	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)
Longnose Dace	All	22	22	22	22	924	2	220	374	1.54	354	49.3	1.9

Site Number: 86	Date Sampled: 05/13/2009	Conductivity (umhos/cm): 180
Site Midpoint (Latitude, Longitude): 44.00196617, -103.52188575	Site Length (m): 100	pH: 9.7
Survey Completed by: South Dakota Game, Fish and Parks	Mean Width (m): 1.4	Water Temperature (C): 9.0
Stream Classification: None	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)
Longnose Dace	All	4	4	4	4	280	1	40	114	1.00	64	54.3	4.0

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 Horse Creek, 1999-2009

Site 29

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Longnose Dace	May 13, 2009	22	22-22	

Site 86

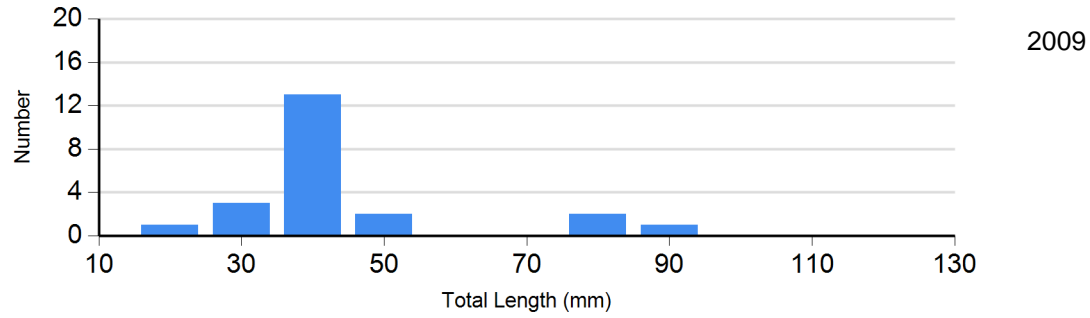
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Longnose Dace	May 13, 2009	4	4-4	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 29

Species: Longnose Dace



Site: 86

Species: Longnose Dace

