SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Palmer Gulch, Pennington County 02-9211-00 2009

Table 1. Population and Biomass Estimates for Palmer Gulch

 Site Number: 102
 Date Sampled: 05/13/2009
 Conductivity (umhos/cm):
 51

 Site Midpoint (Latitude, Longitude): 43.89857213, -103.53613880
 Site Length (m): 100
 ph: 7.6

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 1.7

Stream Classification: None

Water Temperature (C): 6.3

Number of Pass: 1

Voltage: 300

Total Mean Mean Upper Size Est. # in Lower Kg per # per # per # per # per lb. per **Species** Weight Number Length Class 95% CI 95% CI **Hectacre Hectacre** Acre site Km Acre Mile Captured (mm) (grams) White Sucker ΑII 14 14 14 815 41 330 225 129.6 50.1 140 14 36.45

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 BrookTrout 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 Palmer Gulch, 1999-2009

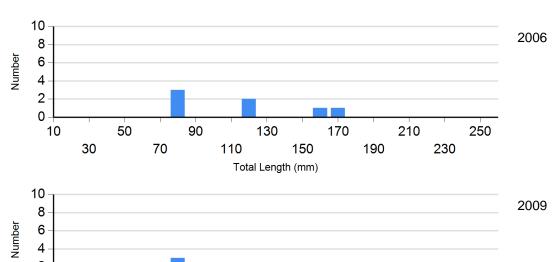
Site 102

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
White Sucker	May 13, 2009	14	14-14	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 102 Species: White Sucker



Total Length (mm)