SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY

Horse Creek, Pennington County 02-9219-00 1994

Table 1. Population and Biomass Estimates for Horse Creek

Site Number: 86 Date Sampled: 06/28/1994 Conductivity 224

Site Midpoint (Latitude, Longitude): 44.00196617, -103.52188575 Site Length (m): 100 (umhos/cm):

Survey Completed by: South Dakota Game, Fish and Parks

Mean Width (m): 1.1

Stream Classification: BK2

Number of Pass: 3

Voltage: 350

Total Mean Mean Est. # in Size Upper Lower # per Kg per # per # per lb. per # per **Species** Number Length Weight Class site 95% CI 95% CI **Hectacre Hectacre** Km Acre Mile Acre Captured (mm) (grams) Brook Trout >=200mm 88 36 8.85 16 113.0 1 1 1 10 1 10 208.0 **Brook Trout** ΑII 1 1 88 10 10 36 8.85 16 208.0 113.0 1 1 Longnose ΑII 30 30 32 30 2632 14 300 1066 12.67 483 83.7 5.4 Dace

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 Horse Creek, 1984-1994

Site 86

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout >=200mm	Jun 28, 1994	1	1-1	BK2
Longnose Dace	Jun 28, 1994	30	30-32	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

Site: 86 Species: Longnose Dace

