

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Redwater River, Butte County
15-0005-00
2017

Table 1. Population and Biomass Estimates for Redwater River

Site Number: 664

Date Sampled: 08/23/2017

Conductivity (umhos/cm):

Site Midpoint (Latitude, Longitude): 44.57250408, -104.05273321

Site Length (m): 100

pH:

Survey Completed by: GEI

Mean Width (m): 0.9

Water Temperature (C):

Stream Classification: BK0

Number of Pass: 3

Voltage:

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	3	3	4	3	340	10	30	138	9.01	48	147.0	29.7
Brook Trout	All	4	4	7	4	454	13	40	184	12.02	64	147.0	29.7

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 Redwater River, 2007-2017

Site 664

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Aug 23, 2017	3	3-4	

