

SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY
Lime Creek, Pennington County
02-0099-00
2014

Table 1. Population and Biomass Estimates for Lime Creek

Site Number: 12
Site Midpoint (Latitude, Longitude): 44.07911882, -103.27234080
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR1

Date Sampled: 09/04/2014 **Conductivity (umhos/cm):** 724
Site Length (m): 100
Mean Width (m): 3.0
Number of Pass: 3
pH:
Water Temperature (C): 12.0
Voltage: 125

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)
Brown Trout	<200mm	95	105	117	95	3448	83	1050	1396	73.85	1689	113.0	24.0
Brown Trout	>=200mm	25	25	26	25	821	144	250	332	128.18	402	244.4	174.9
Brown Trout	All	120	128	137	120	4203	234	1280	1702	208.99	2060	140.4	55.7
White Sucker	All	12	13	18	12	427	143	130	173	127.87	209	287.2	335.5

Site Number: 39
Site Midpoint (Latitude, Longitude): 44.08914335, -103.28937980
Survey Completed by: South Dakota Game, Fish and Parks
Stream Classification: BR2, RB0

Date Sampled: 09/04/2014 **Conductivity (umhos/cm):** 117
Site Length (m): 100
Mean Width (m): 2.0
Number of Pass: 3
pH:
Water Temperature (C):
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)
Brown Trout	<200mm	14	14	15	14	691	16	140	280	14.67	225	121.9	23.8
Brown Trout	>=200mm	5	5	5	5	247	102	50	100	90.77	80	322.2	412.2
Brown Trout	All	19	19	20	19	937	118	190	380	105.44	306	174.6	126.0
Rainbow Trout	<200mm	1	1	2	1	49	1	10	20	1.15	16	133.0	26.0
Rainbow Trout	All	1	1	2	1	49	1	10	20	1.15	16	133.0	26.0

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 Lime Creek, 2004-2014

Site 12

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 04, 2014	105	95-117	
Brown Trout >=200mm	Sep 04, 2014	25	25-26	BR1
White Sucker	Sep 04, 2014	13	12-18	

Site 39

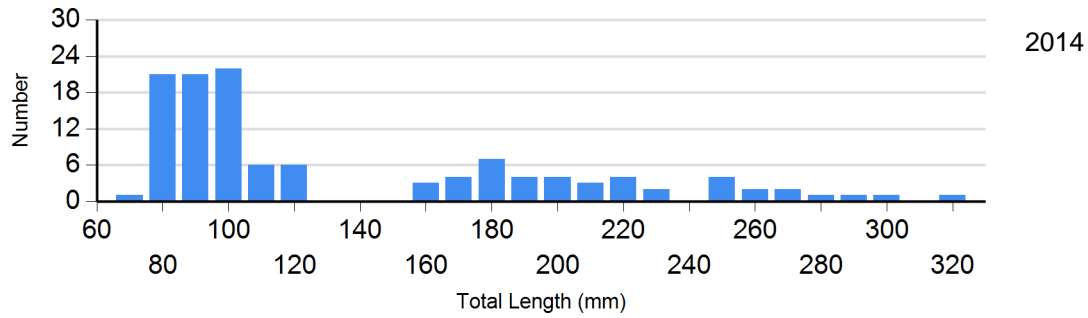
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brown Trout <200mm	Sep 04, 2014	14	14-15	
Brown Trout >=200mm	Sep 04, 2014	5	5-5	BR2
Rainbow Trout <200mm	Sep 04, 2014	1	1-2	

Length Frequency Distribution

Length frequency histogram of species sampled by year.

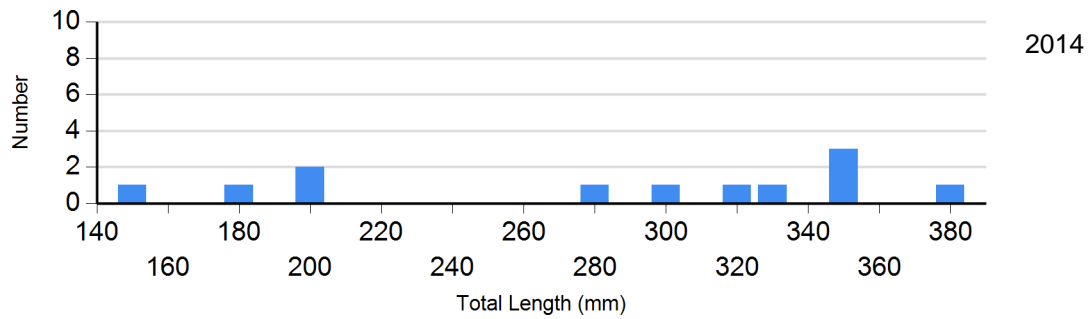
Site: 12

Species: Brown Trout



Site: 12

Species: White Sucker



Site: 39

Species: Brown Trout

