

**SOUTH DAKOTA BLACK HILLS COLD STREAM SURVEY**  
**Little Squaw/Badger Clark, Custer County**  
**10170202080020**  
**All Years**

Table 1. Population and Biomass Estimates for Little Squaw/Badger Clark

<b>Site Number:</b> 29	<b>Date Sampled:</b> 06/30/2015	<b>Conductivity (umhos/cm):</b> 201
<b>Site Midpoint (Latitude, Longitude):</b> 43.77494329, -103.42326781	<b>Site Length (m):</b> 100	<b>pH:</b> 7.2
<b>Survey Completed by:</b> South Dakota Game, Fish and Parks	<b>Mean Width (m):</b> 1.9	<b>Water Temperature (C):</b> 15.8
<b>Stream Classification:</b> BK2	<b>Number of Pass:</b> 3	<b>Voltage:</b> 350

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	45	46	49	45	2468	87	460	1000	78.06	740	132.0	35.4
Brook Trout	>=200mm	6	6	6	6	322	36	60	130	32.48	97	210.5	113.0
Brook Trout	All	51	51	53	51	2737	126	510	1108	112.40	821	141.2	46.0

<b>Site Number:</b> 74	<b>Date Sampled:</b> 06/30/2015	<b>Conductivity (umhos/cm):</b> 64
<b>Site Midpoint (Latitude, Longitude):</b> 43.77958435, -103.45660845	<b>Site Length (m):</b> 100	<b>pH:</b> 6.7
<b>Survey Completed by:</b> South Dakota Game, Fish and Parks	<b>Mean Width (m):</b> 1.2	<b>Water Temperature (C):</b> 16.0
<b>Stream Classification:</b> BK0	<b>Number of Pass:</b> 1	<b>Voltage:</b> 450

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	6	6	6	6	508	25	60	206	22.76	97	163.2	50.2
Brook Trout	All	6	6	6	6	508	25	60	206	22.76	97	163.2	50.2

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	
<b>Class BR1</b>	Number of wild Brown Trout exceeds 150 per acre
<b>Class BR2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BR3</b>	Number of wild Brown Trout is less than 25 per acre
<b>Class BK1</b>	Number of wild Brook Trout exceeds 150 per acre
<b>Class BK2</b>	Number of wild Brook Trout ranges from 25 to 150 per acre
<b>Class BK3</b>	Number of wild Brook Trout is less than 25 per acre
<b>Class RB1</b>	Number of wild Rainbow Trout exceeds 25 per acre
<b>Class RB2</b>	Number of wild Rainbow Trout is less than 25 per acre

Table 2. Species composition and population estimates on Little Squaw/Badger Clark, 2005-2015

**Site 29**

Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 30, 2015	46	45-49	
Brook Trout >=200mm	Jun 30, 2015	6	6-6	BK2

**Site 74**

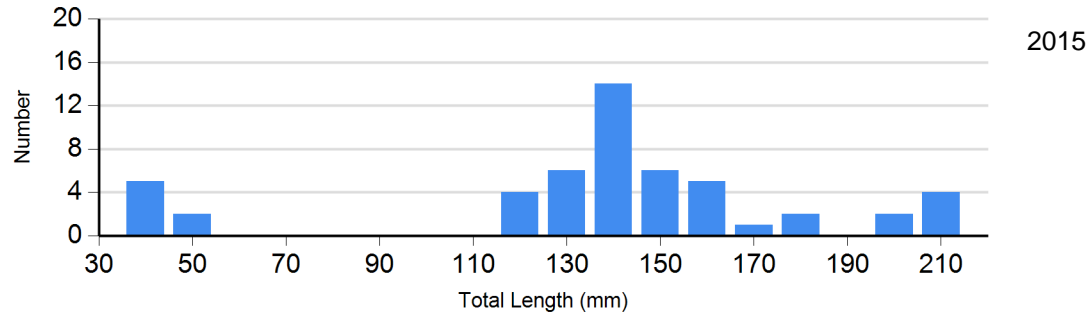
Species/Size	Date	Pop Est.	(95% C.I.)	Stream Classification
Brook Trout <200mm	Jun 30, 2015	6	6-6	

## Length Frequency Distribution

Length frequency histogram of species sampled by year.

**Site:** 29

**Species:** Brook Trout



**Site:** 74

**Species:** Brook Trout

