

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

2102-F-21-R-47

Name: Cactus Flats Dam **County(ies):** Stanley
Legal Description: T109N-R78W-Sec. 25 **GPS:** 44.24553°N 100.1880°W
Location from nearest town: 10 miles S and 10 miles E of Ft. Pierre

Date of present survey: June 24-25, 2014
Date of last survey: None known
Most recent lake management plan: None done
Management classification: Unknown

Primary Game Species	Secondary and Other Species
Largemouth Bass	

PHYSICAL DATA

Cactus Flat Dam is located in Stanley County, South Dakota. The surrounding land and dam grade are owned and managed by the United States Department of Agriculture, Forest Service and is part of the Fort Pierre National Grasslands. Cactus Flat Dam is a 6.3 acre pond that had a maximum depth at the time of survey of about 6 feet.

The main submergent vegetation was sago pondweed, clasping leaf pondweed, largeleaf pondweed and eelgrass. Emergent vegetation was almost nonexistent this survey season. There is very limited boat access and would be limited to a canoe or small duck boat that can be loaded and unloaded by hand. Good ice fishing opportunities do exist. No contour map or depth contour had ever been done.

CHEMICAL DATA

Field observations of water quality and pollution problems:

No pollution problems were evident at the time of the survey. Water clarity was excellent with a secchi disc reading of 6 feet. A temperature and dissolved oxygen profile was the only other water quality measurements done this survey and the results can be found in Table 1.

Table 1. Water chemistry results from Cactus Flats Dam, Stanley County, June 24, 2014.

Station	Depth (ft)	Temp (F)	DO (ppm)
A	0	75.6	8.9
A	2	75.6	7.3
A	4	74.5	7.4
A	5	73.6	7.8

BIOLOGICAL DATA

Methods:

Cactus Flat Dam was sampled on June 24-25, 2014, with three overnight trap net sets. The trap nets have 3ft x 5ft frames, 60ft leads, and 3/4 inch knotted mesh. No experimental gill nets or electrofishing was done during this survey season. Fish indices and statistics were completed using Winfin.

Results and Discussion:

Table 2. Total catch of 3, overnight 3/4-inch frame nets at Cactus Flat Dam, Stanley County, June 24-25, 2014.

Species	#	%	CPUE	80% C.I.	Mean CPUE*	PSD	RSD-P	Mean Wr
Largemouth Bass	7	100	2.33	± 2.27	0.0	--	--	--

*First year surveyed

The survey on Cactus Flat Dam was just an inventory survey to see what was actually found in the lake. After setting three nets and only catching 7 largemouth bass, the nets were pulled. Not much can be concluded for the very small sample size. No other info is known about the fish populations at this time.

RECOMMENDATIONS

1. Resurvey, when time allows, to further monitor any fish populations that may be stocked.
2. Attempt to electrofish to see what type of largemouth bass population really exists.
3. Stock a panfish species to provide added opportunity.