

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

2102-F-21-R-46

Name: Four Coyotes Dam **County(ies):** Lyman
Legal Description: T108N-R79W-Sec. 22 **GPS:** 44.14515°N 100.29843°W
Location from nearest town: 14.5 miles S and 2.5 miles E of Ft. Pierre

Date of present survey: June 10-11, 2013 (netting)

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	Bluegill

PHYSICAL DATA

Four Coyotes Dam is located in Lyman 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. Four Coyotes Dam is a 4.5 acre pond that had a maximum depth at the time of the survey of about 9.5 feet. Water level was full at the time of the survey.

Not much submergent vegetation was yet present at the time of the survey. Emergent vegetation consisted of sedges and rushes and was found around most of the shoreline except for the dam grade. No cattails were present. 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 has ever been done.

CHEMICAL DATA

Field observations of water quality and pollution problems:

No pollution problems were present at the time of the survey. Water clarity was fair with a secchi disc reading of 3.5 feet. The clarity could have been much greater but the water was a brown color from recently filling and dead and decaying vegetation. Other water quality characteristics were measured in the field on June 10, 2013, using a HACH water quality kit and a Hanna multiparameter meter. Results are found in Table 1.

Table 1. Water chemistry results from Four Coyotes Dam, Lyman County, June 10, 2013.

Station	Depth (ft)	Temp (F)	DO (ppm)	CO2 (ppm)	ALK (mg/L)	HRD (mg/L)	pH	Cond. (µS/cm)	TDS (ppm)	Sal.	ORP	Secchi (ft)
A	Surface	72.75	4.45	50.0	140	--	8.20	641	320	0.31	10.9	3.5
A	9.5	78.65	3.64	36.6	109	--	8.09	624	312	0.30	-6.3	

BIOLOGICAL DATA

Methods:

Four Coyotes Dam was sampled on June 10-11, 2013, with two overnight trap net sets. The trap nets have 3ft x 5ft frames, 60ft leads and $\frac{3}{4}$ inch knotted mesh. No experimental gill nets or electrofishing was done during this survey. Fish indices and statistics were completed using Winfin.

Results and Discussion:

The survey of Four Coyotes Dam was just an inventory survey to see what is actually found in the lake. After setting two trap nets for one night and catching no fish, the nets were pulled. 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 exists.
3. Stock largemouth bass to establish a population if it is determined a population does not exist.
4. Stock a panfish species to provide added opportunity.