

SOUTH DAKOTA STATEWIDE FISHERIES SURVEY

2102-F-21-R-47

Name: Minnow Dam

County(ies): Lyman

Legal Description: T108N-R78W-Sec. 31

GPS: 44.11305°N 100.23692°W

Location from nearest town: 17 miles S and 5.5 miles E of Ft. Pierre

Date of present survey: June 17-18, 2014 (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 | Golden Shiner |

PHYSICAL DATA

Minnow 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. Minnow Dam is a 4.3 acre pond that had a maximum depth of 7.5 feet at the time of the survey.

The main submergent vegetation consisted of sago pondweed, common milfoil and white water crowfoot. No emergent vegetation was found during the survey. 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

No pollution problems were evident at the time of the survey. Water clarity was excellent with a secchi disc reading of 5.5 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 Minnow Dam, Lyman County, June 17, 2014.

| Station | Depth (ft) | Temp (F) | DO (ppm) |
|---------|------------|----------|----------|
| A | 0 | 70.0 | 9.7 |
| A | 2 | 70.0 | 8.8 |
| A | 3 | 69.3 | 8.3 |
| A | 4 | 67.8 | 8.6 |
| A | 5 | 66.5 | 60. |
| A | 6 | 66.5 | 3.6 |
| A | 7 | 66.5 | 4.8 |

BIOLOGICAL DATA

Methods:

Minnow Dam was surveyed on June 17-18, 2014, with four 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 4, overnight 3/4-inch frame nets at Minnow Dam, Lyman County, June 17-18, 2014.

| Species | # | % | CPUE | 80% C.I. | Mean CPUE* | PSD | RSD-P | Mean Wr |
|---------------|----|-----|------|----------|------------|-----|-------|---------|
| Golden Shiner | 13 | 100 | 3.3 | ± 3.23 | 0.0 | -- | -- | -- |

*First year surveyed

The survey of Minnow Dam was just an inventory to see what was actually found in the lake. After setting four trap nets for one night and only catching 13 golden shiners, the nets were pulled. Not much can be said about the fish populations with only a couple shiners being sampled. To attempt to get a population started, a stocking of 75 adult bluegills was made in the fall of 2014. No other info is known about the fish populations at this time.

RECOMMENDATIONS

1. Resurvey, when time allows, to further monitor the fish populations that may be stocked.
2. Attempt to electrofish to see what type if any largemouth bass population exists.
3. Stock largemouth bass to establish a population.
4. Continue to stock bluegills or some other panfish species to get a fishable populations started.