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# Wildlife Lake Habitat Survey Report

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**NAME OF LAKE:** Freeborn

**DOW LAKE ID #:** 24004400

**DATE OF SURVEY:** 9/10/2002

**TYPE OF SURVEY:** Wildlife Lake Survey

**SURVEY CREW:** Steve Piegras & Ann Geisen



Information Provided by:

Minnesota Department of Natural Resources  
Wildlife Management Section  
Shallow Lakes Program  
Thursday, August 13, 2015



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DOW Lake ID: 24004400  
Survey Date: 9/10/2002

## General Lake Information

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### Location Information

#### Legal Description

Township: 105 Range: 23 Section: 35

Primary County: Freeborn

Work Area Name:

Wildlife Work Area:

### General DOW Lake Information

Basin Area (Acres): 2,222

Secchi Depth (feet): 0

PWI Class: P

Number of Public Accesses: 1

DOW Wetland Type: 4

Watershed ID: 32031

USGS Quad Name: Freeborn

Miles of Shoreline: 11

Survey Maximum Lake Depth: 5.3

Survey Mean Lake Depth: 3.5

Survey Maximum Secchi Depth: 0.5

Survey Mean Secchi Depth: 0.4

DOW Maximum Lake Depth: 3.0

DOW Mean Lake Depth: 1.0

### Lake Survey Conditions

Time: 12:00

Temperature Air / Water (F): 90 / 74

Cloud Cover (%): 30% cloudy

Wind Speed (mph): Direction:

### Previous Wildlife Lake Survey Information

Type of Survey	Survey Year	Survey Date	Survey Crew	Requested by
Wildlife Lake Survey				
Wildlife Lake Survey	1990	10/29/1990		
Wildlife Lake Survey	2002	09/10/2002	Steve Piepgras & Ann Geisen	Jeanine Vorland, AWM
Wildlife Lake Survey	2012	08/09/2012	N. Myhra & B. Johnson	Jeanine Vorland, AWM

### Lake Survey Access Information

Ownership: US Army Corps of Engineers Access Type: Concrete

Description: The access is located on the east central side of the lake in a county park. There is a dock.

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**DOW Lake ID: 24004400**

**Survey Date: 9/10/2002**

## Inlets and Outlets Information

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### Inlet Information

**No Information Was Collected**

### Outlet Information

**No Information Was Collected**

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- (a) (ID) Intermittent - Dry (no flow at mouth, still may contain water), (IF) Intermittent - Flowing (currently has flow at mouth), (C)ontinuous flow, (X) Unkown
- (b) (N)amed lake (give name), (U)nnamed lake, (M)arsh, (S)pring, (W)ell, (T)ile, (SS) Storm sewer, (D)itch, (O)ther (describe), (X) Unkown
- (c) Give up to two most common in order of abundance: (H)ardwoods, (CO)nifers, (MI)xed Forest, (G)rasses, (CR)ops, (P)asture, (MU)ncipal, (R)esidential, (O)ther (describe), (X) Unkown
- (d) (F)loating object, (C)urrent meter, (D)irect time and volume measurement (gpm / 15.9 = cfs). Describe where the flow measurement and avg. width/depth estimates were taken on the flow worksheet section
- (e) (Y)es, (N)o, (X) Unkown
- (f) List the species code for up to 4 species with known spawning runs in this inlet
- (g) (TC) type "C" with stoplogs, (SP) Sheet piling, (DI) Drop inlet with stoplogs, (CF) Concrete with fixed sill, (BD) Beaver dam, (O)ther (describe), (X) Unkown
- (h) (DNR), (UFS), (DOT), (COU)nty, (COE), (NPS), (FWS), (CIT)y, (TOW)nship, (NPS), (PRI)vate (describe), (None) (natural dam), (O)ther (describe), (X) Unkown

DOW Lake ID: 24004400

Survey Date: 9/10/2002

## Water Level and Chemistry

### Water Level Information

No Information Was Collected

### Water Chemistry

Lake or Inlet (L or I): L Station Number of Water Sample: 46

Sample Date: 9/10/2002 Depth Sample Taken (ft):

Date Sample Analyzed: Bottom Depth (ft):

Nonstandard Description:

Color Cause Code and Description:

Water Color Code and Description:

Biological O2 Demand (ppm):

Dissolved Oxygen (ppm):

Organic Dissolved Solids (ppm)

Ortho Phosphorus (ppm):

Conductivity (umhos): 217

Total Phosphorus (ppm): 0.19

Sulphate Ion (ppm):

Chloride Ion (ppm):

pH:

Nitrite [NO2-N] (ppm):

Nitrogen TLKJ (ppm):

Alkalinity (ppm):

Dissolved Iron (ppm):

Dissolved Solids (ppm):

Alkalinity Method:

Ammonia [NH3-N] (ppm):

Nitrate [NO3-N] (ppm):

Total Iron (ppm):

Suspended Solids (ppm):

Chlorophyl A (ppm):

Other Measurements:

Comments:

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DOW Lake ID: 24004400

## Observations and Field Notes

Survey Date: 9/10/2002

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### Waterfowl and Wildlife Observations / Field Notes

#### Waterfowl Observations:

No waterfowl were observed.

#### Other Wildlife Observations:

Observed 1 American white pelican and 6 gulls. Some fish are present. One fish splashing was observed, but the species could not be identified.

#### Field Notes:

There were no submergent or floating plants found in the entire basin. Approximately 5 emergent plants (three-square or some sedge species) were present in the northwest corner of the basin. The water was very brown, and secchi readings were quite bad - 0.5 ft or less. Bank erosion is occurring off the point in the southeast corner of the lake. The cause appears to be grazing cattle.

#### Wildlife Managers Comments or Management Recommendations:

DOW Lake ID: 24004400

# Wildlife Lake Sample Station Summary - Freeborn

Survey Date: 9/10/2002

## Sample Station Information

Minimum Depth: 1.50    Minimum Secchi: 0.30    Initial # of Stations: 135

Maximum Depth: 5.30    Maximum Secchi: 0.50    Number of Stations Sampled: 135

Mean Depth: 3.53    Mean Secchi: 0.44

## Vegetation Summary

Number of Sample Stations: 135

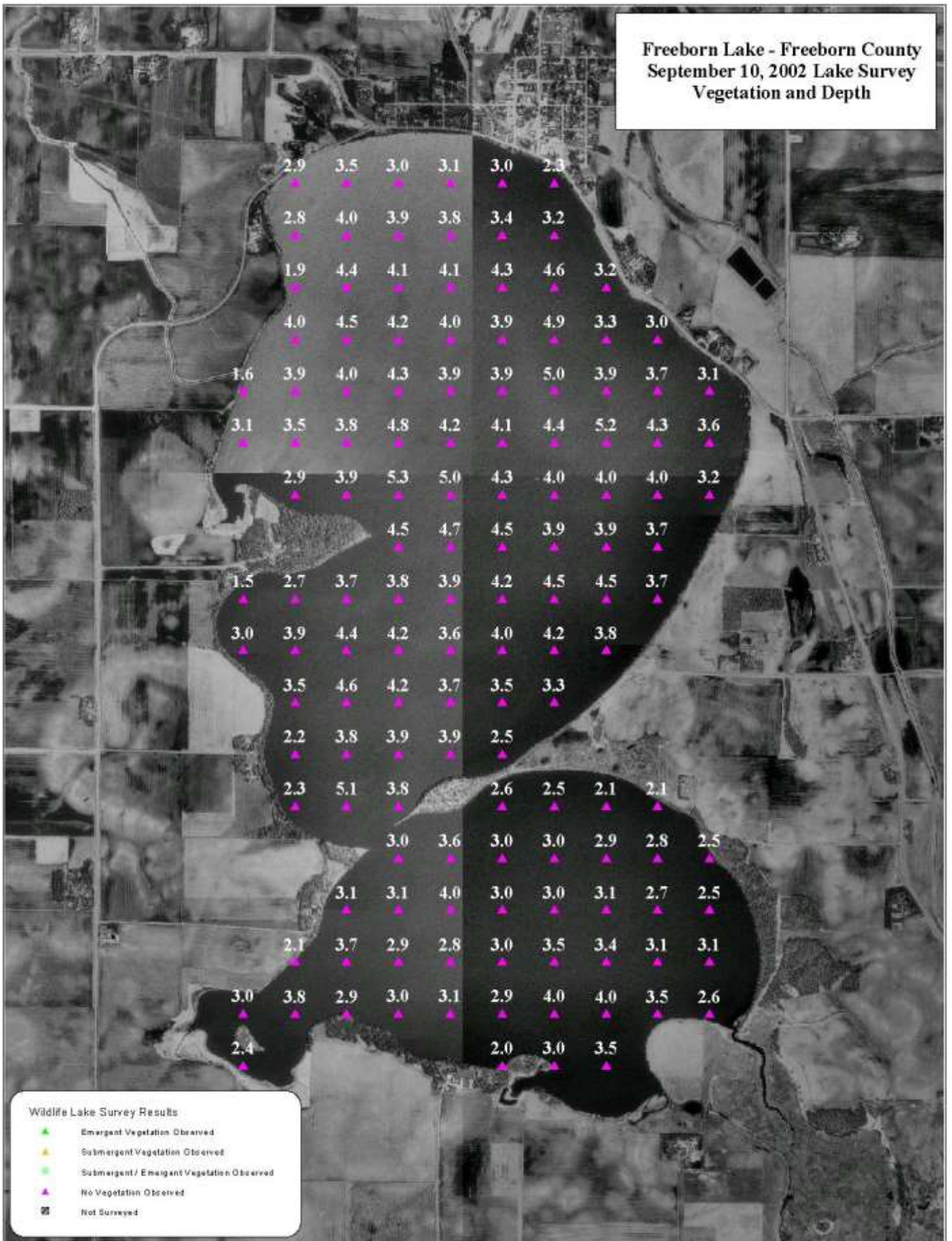
Lakewide Species Richness: 0

Percent of Vegetated Plots: 0.0%

Vegetation Species	# of Plots Occurring	Species Frequency	95% CI	High C / I	Low C / I	Frequency Value
No Vegetation Found No Vegetation	135	100.0%	0.0037	1.0037	0.9963	1.0000

Survey Map

Freeborn Lake - Freeborn County  
September 10, 2002 Lake Survey  
Vegetation and Depth



Wildlife Lake Survey Results

- ▲ Emergent Vegetation Observed
- ▲ Submergent Vegetation Observed
- ▲ Submergent / Emergent Vegetation Observed
- ▲ No Vegetation Observed
- Not Surveyed