
Wildlife Lake Habitat Survey Report



NAME OF LAKE: South Drywood

DOW LAKE ID #: 76014900

DATE OF SURVEY: 8/12/2009

TYPE OF SURVEY: Wildlife Lake Survey

SURVEY CREW: Brett Arne & Andrew Tiemann



Information Provided by:

**Minnesota Department of Natural Resources
Wildlife Management Section
Shallow Lakes Program**

Monday, March 08, 2010



DOW Lake ID: 76014900
Survey Date: 8/12/2009

General Lake Information

Location Information

Legal Description

Township: 122 Range: 43 Section: 8

Primary County: Swift

Work Area Name:

Wildlife Work Area:

General DOW Lake Information

Basin Area (Acres): 203

Secchi Depth (feet): 0

PWI Class: P

Number of Public Accesses 0

Survey Maximum Lake Depth: 3.8

Survey Mean Lake Depth: 2.8

Survey Maximum Secchi Depth 0.3

Survey Mean Secchi Depth: 0.3

DOW Wetland Type: 4

Watershed ID: 23014

USGS Quad Name: Dry Wood Lake

Miles of Shoreline: 7

DOW Maximum Lake Depth 4.0

DOW Mean Lake Depth: 2.0

Lake Survey Conditions

Time:

Temperature Air / Water (F): 81 / 78.2

Cloud Cover (%): Clear

Wind Speed (mph): 0-5 Direction: S

Previous Wildlife Lake Survey Information

Type of Survey	Survey Year	Survey Date	Survey Crew	Requested by
Wildlife Lake Survey	2009	08/12/2009	Brett Arne & Andrew Tiemann	Dave Friedl, DNR Clean Water Legacy

Lake Survey Access Information

Ownership: Private

Access Type: Earthen

Description: Lake was accessed through a private farm site on the north end of the lake.

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Inlets and Outlets Information

Inlet Information

Inlet Name:

Inlet Type Code (a):

Inlet Cover Type (c) and Description:

Fish Barrier (Y/N) (e):

Fish Barrier Description:

Comments:

No visible surface inlets.

Inlet Flow Information

Flow (fps):

Average Width (feet):

Flow (cfs):

Average Depth (feet):

Method (d):

Inlet Surface Temp (F)

Outlet Information

Outlet Name: North Drywood

Lake or River ID:

Tributary To:

Water Control Structure Information

Type and Description:

Owner and Descriptio

Head Reading:

Sill Reading:

Gauge Reading

Comments:

There is a connection to North Drywood (76016900) through a cattail marsh on the far north end.

Outlet Flow Information

Flow (fps):

Flow (cfs):

Method (d):

Average Width (feet):

Average Depth (feet):

Barrier to Fish (Y/N) (e):

Fish Barrier Description:

- (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) Unknown
- (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) Unknown
- (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

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Water Level and Chemistry

Water Level Information

No Information Was Collected

Water Chemistry

Lake or Inlet (L or I):

Station Number of Water Sample:

Sample Date:

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): 869

Total Phosphorus (ppm): 0.904

Sulphate Ion (ppm):

Chloride Ion (ppm):

pH: 8.09

Nitrite [NO2-N] (ppm):

Nitrogen TLKJ (ppm):

Alkalinity (ppm): 223

Dissolved Iron (ppm):

Dissolved Solids (ppm): 652

Alkalinity Method:

Ammonia [NH3-N] (ppm):

Nitrate [NO3-N] (ppm):

Total Iron (ppm):

Suspended Solids (ppm):

Chlorophyl A (ppm): 0.543

Other Measurements:

Chlorophyll A-Pheophytin (ppm): 0.506

Comments:

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Observations and Field Notes

Waterfowl and Wildlife Observations / Field Notes

Waterfowl Observations:

Waterfowl utilization at the time of the survey included 41 mallards and 265 wood ducks (near shore and in the cattails).

Other Wildlife Observations:

Other wildlife utilization included 20 American white pelicans, 4 double-crested cormorants, 3 Forster's terns, and 1 bald eagle.

Field Notes:

Narrowleaf cattail species was the only plant found at any of the sample stations at the time of the survey. Water clarity was poor with secchi disc readings at 0.25 feet across the entire basin. Common carp were observed jumping out of the water throughout the entire lake.

Wildlife Managers Comments or Management Recommendations:

The MPCA is conducting a TMDL study on the Drywood Creek watershed.

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Wildlife Lake Sample Station Summary - South Drywood

Sample Station Information

Minimum Depth: 0.5 Minimum Secchi: 0.3 Initial # of Stations: 66
Maximum Depth: 3.8 Maximum Secchi: 0.3 Number of Stations Sampled: 66
Mean Depth: 2.8 Mean Secchi: 0.3

Vegetation Summary

Number of Sample Stations: 66

Lakewide Species Richness: 1

Percent of Vegetated Plots: 1.5%

Vegetation Species	# of Plots Occurring	Species Frequency	95% CI	High C / I	Low C / I	Frequency Value
No Vegetation Found No Vegetation	65	98.5%	0.0373	1.0221	0.9476	0.9848
Typha angustifolia or glauca Narrowleaf Cattail Group	1	1.5%	0.0373	0.0524	-0.0221	0.0152

Survey Map

