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# **Small-Scale Lake Management Planning Grant Proposal**

**Waterbody: Wilson Lake**

**Project name: Wilson Lake 2002 Aquatic Plant Survey**

**Applicant: Kusel-Wilson-Round Lakes Protection and  
Rehabilitation District**

**Representative: Tom Pavlat  
W5708 Archer Lane  
Wild Rose, WI 54984  
920-622-3124**

**Consultant: Aquatic Biologists, Inc.**

**Project contact: Chad Cason  
426 N.W. Cumberland St.  
Berlin, WI 54923  
920-361-4088**

**January 8, 2002**

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## **Introduction**

Wilson Lake is located in Springwater Township, Waushara County. Two separate management units govern this 81-acre water body – the Kusel-Wilson-Round Lakes Protection and Rehabilitation District and the Springwater Improvement Association. With two public boat launches and one private campground, the lake receives heavy recreational use. Wilson Lake has a maximum depth of 14 feet and a mean depth of only 6 feet. Bottom substrates are predominantly organic muck. Because of these features the lake has had a history of nuisance aquatic plant growth. The recent invasion of Eurasian watermilfoil (*Myriophyllum spicatum*), however, has made aquatic plant management a primary concern for the lake.

In order to address aquatic plant management issues, the Kusel- Wilson-Round Lakes Protection and Rehabilitation District retained Aquatic Biologists, Inc. to conduct a baseline aquatic plant survey, and to prepare a five-year aquatic plant management plan for Wilson Lake. This report, entitled *Management of aquatic plants in Wilson Lake 2001-2006*, outlined a course of action for controlling Eurasian watermilfoil using herbicides. By August 2001, a total of 18 acres of Eurasian watermilfoil had been treated in the lake. A plant survey conducted during September 2001 found that Eurasian watermilfoil distribution had been reduced by 94.5%, and that no native species were negatively affected.

The next element of the management plan includes conducting another whole-lake aquatic plant survey in 2002, and preparing of a report that updates the Lake Management Plan by summarizing findings and providing direction for future management efforts.

The Lake District is again seeking funding from the Department of Natural Resources' Small Scale Lake Planning Grant Program in order to complete this work.

## **Project Goals**

The purposes of this project are: 1) to monitor impacts to water quality and the aquatic plant community that have developed in response to recent management efforts, 2) to facilitate, inform and direct future management efforts, and 3) to complete and update the Lake's Management Plan.

Because Eurasian watermilfoil control is a relatively new management need for area lakes, the Lake District as well as the Springwater Improvement Association are further interested in the results of this project for its applicability to other lakes they manage.

## **Methods**

The work elements of this project will entail 1) conducting a whole-lake aquatic plant survey, 2) mapping the distribution of Eurasian water milfoil, 3) collecting water quality data, and 4) preparing an annual report.

### **plant survey**

The aquatic plant survey will be used to determine the distribution, percent frequency and composition of species encountered. This survey will reproduce the methods used during the 2000 and 2001 surveys, as follows: a series of twelve transects will be mapped out on the lake. The lake is divided into two basins and a temporary buoy will be placed in the center of each basin. From each buoy transects will be radiate to shore at 60 degree intervals. Plant samples will be collected at four plots along each of the twelve transects. Plots are established by estimating a 10-foot diameter circle around the anchored boat. The circular plot is then divided into four quarters, with each quarter representing a quadrant. Plants are then collected in each quadrant by tossing out a tethered short-toothed rake and hauling it into the boat. A total of 192 quadrants will be sampled. From each quadrant, all plants collected will be identified to *genus*, and to *species* whenever possible. Data collected will include species composition, % frequency and relative abundance. Paired *t*-tests for two sample means will be used to analyze data sets to determine whether statistically significant differences exist between surveys.

### **milfoil mapping**

The location of Eurasian water milfoil beds will be verified visually and by rake sampling. Minimum and maximum depths of the beds will be established with a weighted tape measure. The beds will then be drawn into a lake map at the appropriate depth contours and by using shoreline features as landmarks. The lake map will then be superimposed upon an acreage grid to determine the area of each Eurasian watermilfoil bed.

### **Water quality monitoring**

Water quality assessments will be done concurrently with the plant survey and will include:

- Secchi disc depths
- Dissolved oxygen profiles
- Temperature profiles
- pH

### **annual report**

The annual report will serve to update Wilson Lake's Aquatic Plant Management Plan and provide direction for future management efforts. This report will present the results of the 2002 plant and water quality survey. It will describe management efforts that have been conducted on Wilson Lake to date and discuss their impacts to the lake ecology as well as the effectiveness in meeting stated goals. The completed annual report will be disseminated to Lake Residents, Lake Management units, the Department of Natural Resources, and other interested parties.

### **Project costs**

|   |        |
|---|--------|
| Field work for plant survey and milfoil mapping | \$1400 |
| Mileage   | \$60   |
| Data analysis                                   | \$350  |
| Preparation of annual report                    | \$400  |
| Printing charges                                | \$40   |
| Total   | \$2250 |

The Kusel- Wilson-Round Lakes Protection and Rehabilitation District is requesting a %75 cost share from the State, totaling \$1687.50. The Lake District's 25% share then will be \$562.50.

### **Timeframe**

The aquatic plant survey, water quality monitoring and milfoil mapping will be completed during May 2002. By conducting fieldwork at this time of year, any Eurasian watermilfoil found can be treated as prescribed by the Aquatic Plant Management Plan. Data analysis and report writing will be done during June and July. The annual report will be completed and disseminated by July 31, 2002. All project activities will be completed by December 31, 2002.

### **Project deliverables**

The most important result of this project will be data from the plant survey work that supports *Management of aquatic plants in Wilson Lake 2001-2006*. The annual report will communicate the results of the survey to Lake Residents and other supporting organizations, and will recommend any changes to the plan that are indicated by the survey findings.

**Notice:** Use of this form is required by the DNR for any application filed pursuant to ch. NR 190 or 191, Wis. Adm. Code. Personal information (PI data) collected on this form, including such data as your name, address, phone number, etc., will be used for management and enforcement of DNR programs, and is not intended to be used for any other purpose. Information will be made accessible to requesters under Wisconsin's Open Records laws (s. 19.32-19.39, Wis. Stats.) and requirements.

**Section I: Application Type**

**Lake Management Planning Grant**

Check one:

Large-scale planning grant

Small-scale planning grant

Check one:

Self-help lake trend monitoring package

Lake education

Organizational development

Other study or assessment, or multiple-purpose project

**Lake Management Protection Grant**

Check one:

Wetland restoration

Ordinance development

Lake improvement

Lake classification

Land or easement acquisition

**Section II: Applicant Information**

Applicant Kusel-Wilson-Round Lakes Protection and Rehabilitation District

Lake Name Wilson Size in Acres 81

Project County/Township/Section/Range  
Waushara T.20N. R.11E. Sec. 27

Authorized Representative Named by Resolution  
Tom Pavlat

Authorized Representative Title  
Wilson Lake Commissioner

Address  
W5708 Archer Lane

City Wild Rose State WI ZIP Code 54984

Daytime Telephone No. (Incl area code)  
920-622-3124

Evening Telephone No. (Incl area code)  
same

Type of Eligible Applicant

County

City

Village

Town

Tribe

Sanitary District

Lake District

Lake Association

Other Governmental Unit

Non Profit Conservation Organization

Project Contact Name  
Chad Cason

Project Contact Title  
Biologist / Consultant

Address  
426 N.W. Cumberland St.

City Berlin State WI ZIP Code 54923

Daytime Telephone No. (Incl area code)  
920-361-4088

Evening Telephone No. (Incl area code)  
same

E-Mail Address  
ccason@vbe.com

**Section III: Project Information**

Project Title  
Wilson Lake 2002 Aquatic Plant Survey

Proposed Ending Date  
Dec 31, 2002

| Other Management Units Around Lake       | Letter of Support                   | Other Management Units Around Lake | Letter of Support        |
|--|-------------------------------------|------------------------------------|--------------------------|
| 1. <u>Springwater Improvement Assoc.</u> | <input checked="" type="checkbox"/> | <u>(on file)</u>                   | <input type="checkbox"/> |
| 2.                                       | <input type="checkbox"/>            | 5.                                 | <input type="checkbox"/> |
| 3.                                       | <input type="checkbox"/>            | 6.                                 | <input type="checkbox"/> |

**For DNR Use Only**

|   |   |   |   |
|---|---|---|---|
| Application Type<br><u>LPL small</u>  | Date Received<br><u>1-30-02</u>   | Date Reviewed (LC/RC)                           | Lake Coordinator Approval / Date<br><u>Mary Ginsburg 2/30/02</u>            |
| Waterbody ID#<br><u>250000</u>  | Adequate Public Access<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Environmental Grants Specialist Approval / Date |   |
| Eligible Project<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     | Eligible Applicant<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     | Project Priority Rank                           |   |
| Prior Grant Award(s)<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Fiscal Year(s)<br><u>2001</u>   | Amount Received To Date<br><u>\$ 1500</u>       | Project Awarded<br><input type="checkbox"/> Yes <input type="checkbox"/> No |

**Section IV: Lake Access**

Number of Public Vehicle Trailer Parking Spaces Available at Public Access Sites:

Number of Public Access Sites on Lake Including Boat Launches and Walk-ins:

**Section V: Cost Estimate and Grant Request**

|   | Project Costs          |                           |
|---|------------------------|---------------------------|
|   | Column 1<br>Cash Costs | Column 2<br>Donated Value |
| <input type="checkbox"/> Small-scale self-help monitoring package (skip lines 1-13) |                        |                           |
| 1. Salaries, wages and employee benefits  |                        |                           |
| 2. Consulting services  | 2,250                  |                           |
| 3. Purchased services--printing and mailing   |                        |                           |
| 4. Other purchased services (specify):  |                        |                           |
| 5. Plant material   |                        |                           |
| 6. Supplies (specify)   |                        |                           |
| 7. Depreciation on equipment  |                        |                           |
| 8. Hourly equipment use charges   |                        |                           |
| 9. State Lab of Hygiene (SLOH) Costs  |                        |                           |
| 10. Non-SLOH Lab Costs  |                        |                           |
| 11. Land or easement acquisition value  |                        |                           |
| 12. Associated acquisition costs  |                        |                           |
| 13. Other (specify)   |                        |                           |
| 14. Subtotals (sum each column)   | 2,250                  |                           |

15. Total Project Cost Estimate (sum of column 1 plus sum of column 2)

16. State Share Requested\*

\*Up to 75% of total costs may be requested, subject to the following maximum grant amounts:

- Large-scale lake planning projects--up to \$10,000
- Small-scale lake planning projects--up to \$3,000
- Lake classification and regulation or ordinance development projects--up to \$50,000
- Lake protection projects (other than lake classification and regulation or ordinance development projects)--up to \$200,000

**Section VI: Attachments (check all that are included)**

**A. For all applicants:**

- 1. Authorizing resolution
- 2. Letters of support (on file)
- 3. Map of project location and boundaries
- 4. Itemized breakdown of expenses
- 5. For projects that entail sending samples to the State Laboratory of Hygiene (SLOH) only: a completed SLOH Projected Cost Form
- 6. Project scope/description:
  - a. Description of project area
  - b. Description of problem to be addressed by project
  - c. Discussion of project goals and objectives
  - d. Description of methods and activities
  - e. Description of project products or deliverables
  - f. Description of data to be collected, if applicable

**Section VI: Attachments, continued**

- g. Description of existing and proposed partnerships
- h. Discussion of role of project in planning and/or management of lake
- i. Timetable for implementation of key activities
- j. Plan for sharing project results
- k. Other information in support of project not described above

on file



**B. For applicants that are Lake Management Organizations (LMOs) or Non-profit Conservation Organizations (NCOs):**

- 1. For first time applicant LMOs only: A completed Form 8700-226 (Lake Association Organizational Application)
- 2. For first time applicant NCOs only: Copy of IRS 501(c)(3) determination letter and copies of your Articles of Incorporation and Bylaws
- 3. List of national and/or statewide organizations with which you are affiliated
- 4. List of board members' names, including municipality and county of residence. Designate officers
- 5. Documentation of current financial status
- 6. For land or easement acquisition projects: Detailed description of your organization's land management experience
- 7. Brochures, newsletters, annual reports or other information about your organization

**C. Wetland Restoration Projects:**

- 1. Deed, easement, or land control agreement
- 2. Preliminary engineering plans
- 3. Water regulatory permits

**D. Ordinance Development Projects:**

- 1. Inventory of applicable existing ordinances
- 2. Description of resources each jurisdiction allocates to enforcement
- 3. Preliminary surveys

**E. Lake Improvement Projects:**

- 1. Engineering and design plans
- 2. Water regulatory permits

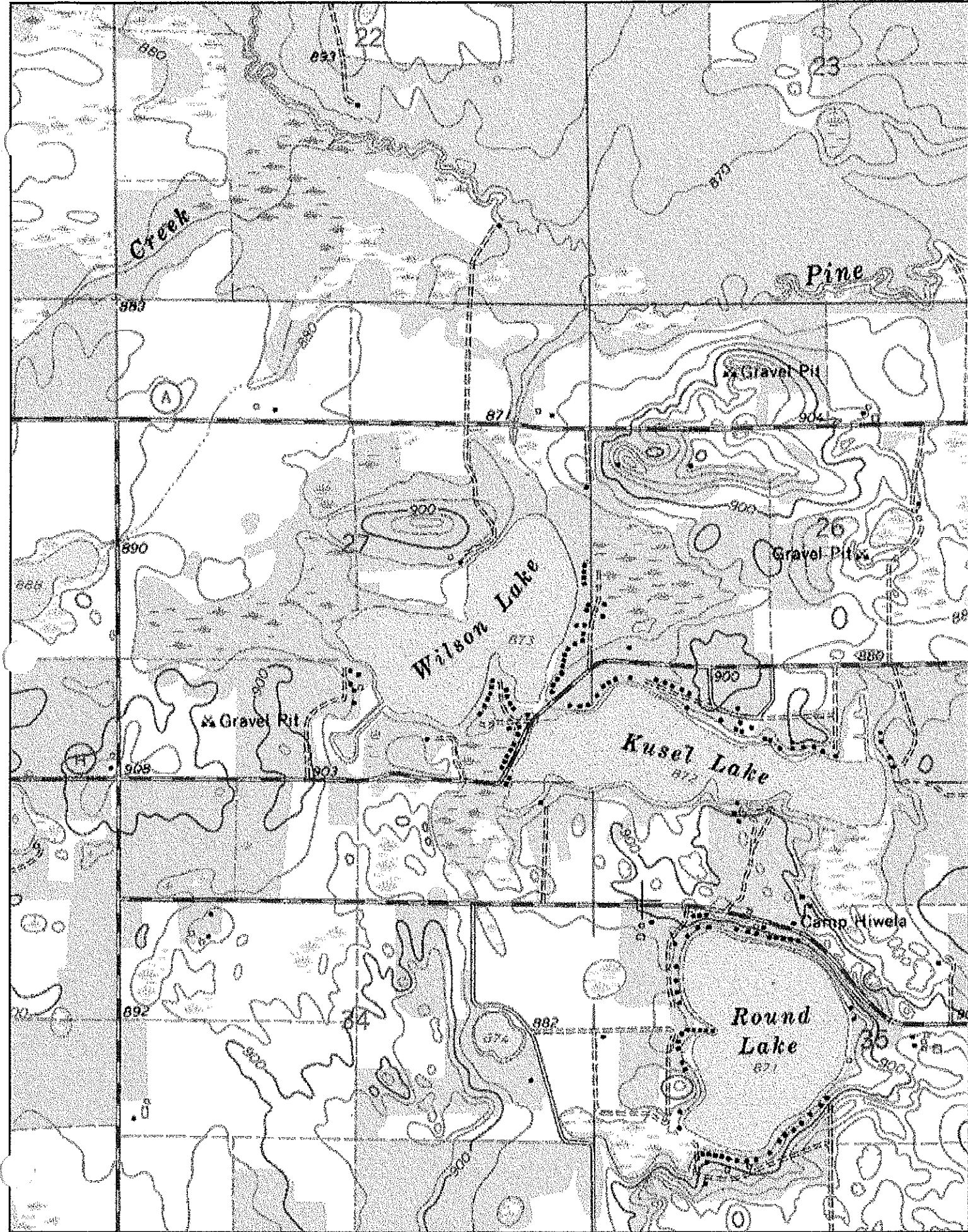
**F. Land or easement acquisition projects:**

- 1. DNR Form 1800-1 (Environmental Hazards Assessment Form)
- 2. Legal description of the property
- 3. Project location boundary map
- 4. Property or easement appraisal (if not previously submitted to the Department)
- 5. If escrow closing, the title insurance commitment
- 6. Evidence of compliance with Uniform Relocation Act requirements, if applicable
- 7. Agricultural Impact Statement, if applicable
- 8. Status of acquisition negotiations, including expected time frame for closing
- 9. A land management plan
  - a. Full description of property and conditions
  - b. Description of current and proposed uses of property and adjoining properties
  - c. Management requirements for property
  - d. If roads, piers or grading are proposed, a topographic survey with feature locations, and design cross sections

**Section VII: Certification**

I certify that information in this application and all its attachments are true and correct and in conformity with applicable Wis. Statutes.

|   |   |
|---|---|
| Print/Type Name of Authorized Representative<br><i>Thomas J. Paulat</i> | Title of Authorized Representative<br><i>Wilson Lake Representative</i> |
| Signature of Authorized Representative<br><i>Thomas J. Paulat</i>       | Date Signed<br><i>1-27-02</i>   |





**F&M BANK-WISCONSIN**Fourth Street Plaza  
Kaukauna WI 54130Last statement: November 30, 2001  
This statement: December 31, 2001  
Total days in statement period: 31Page 1 of 1  
4518393634  
(2)Direct inquiries to:  
800 806-1692KUSEL WILSON ROUND LAKE  
SANITARY DIST  
ROGER JANSEN TREAS  
W5699 JANSEN DR  
WILD ROSE WI 54984-9020F&M Bank-Wisconsin  
Fourth Street Plaza  
Kaukauna WI 54130**Money Market Checking-Business**

|                            |            |                    |             |
|----------------------------|------------|--------------------|-------------|
| Account number             | 4518393634 | Beginning balance  | \$9,283.89  |
| Enclosures                 | 2          | Total additions    | 3.89        |
| Average balance            | \$9,149.25 | Total subtractions | 295.14      |
| Avg collected balance      | \$9,149.00 | Ending balance     | \$ 8,992.64 |
| Interest paid year to date | \$212.56   |                    |             |

**CHECKS**

| Number | Date  | Amount | Number | Date  | Amount |
|--------|-------|--------|--------|-------|--------|
| 1062   | 12-12 | 204.14 | 1063   | 12-31 | 91.00  |

**CREDITS**

| Date  | Description     | Additions |
|-------|-----------------|-----------|
| 12-31 | Interest Credit | 3.89      |

**DAILY BALANCES**

| Date  | Amount   | Date  | Amount   | Date  | Amount   |
|-------|----------|-------|----------|-------|----------|
| 11-30 | 9,283.89 | 12-12 | 9,079.75 | 12-31 | 8,992.64 |

*Thank you for banking with F&M Bank-Wisconsin*