

## Trust Fund 2008 Work Program and Trust Fund 2009 Work Program

<b>Date of Report:</b>	December 31, 2008	
<b>Date of Next Status Report:</b>	June 30, 2009	
	<b>M.L. 2008</b>	<b>M.L. 2009</b>
<b>Date of Work program Approval:</b>	June 10, 2008	June xx, 2009
<b>Project Completion Date:</b>	June, 30 2010	June 30, 2012

### I. PROJECT TITLE: Restorable Wetlands Inventory

**Project Manager:** Darin R. Blunck  
**Affiliation:** Ducks Unlimited, Inc.  
**Mailing Address:** 1 Waterfowl Way  
**City / State / Zip :** Memphis, TN 38103  
**Telephone Number:** (901) 758-3788  
**E-mail Address:** dblunck@ducks.org  
**Fax Number:**  
**Web Page address:** <http://www.ducks.org>

**Location:** Under the 2008 Appropriation, mapping will occur in 154 townships in Brown, Cottonwood, Lincoln, Lyon, Martin, Murray, Nobles, Pipestone, Redwood, Rock, and Watonwan Counties (See Status Map).

Under the 2009 Appropriation, mapping will occur in 170 townships in Clay, Mahnomen, McLeod, Meeker, Nicollet, Norman, Renville, Sibley, Wilkin, and Wright Counties (See Status Map).

<b>Total Trust Fund Project Budget:</b>	<b>M.L. 2008</b>	<b>M.L. 2009</b>	<b>Total</b>
<b>Trust Fund Appropriation:</b>	<b>\$245,000</b>	<b>\$300,000</b>	<b>\$545,000</b>
<b>Minus Amount Spent:</b>	<b>\$42,500</b>	<b>\$0</b>	<b>\$42,500</b>
<b>Equal Balance:</b>	<b>\$202,500</b>	<b>\$300,000</b>	<b>\$502,500</b>

**Legal Citation:**  
**M.L. 2008, Chp. 367, Sec. 2, Subd. 5(e)**

### 2008 Appropriation Language:

\$245,000 is from the trust fund to the commissioner of natural resources for an agreement with Ducks Unlimited, Inc., to continue the inventory, mapping, and digitizing of drained restorable wetlands in the southwest prairie region of Minnesota. This appropriation is available until June 30, 2011, at which time the project must be completed and final products delivered, unless an earlier date is specified in the work program.

**M.L. 2009, Chp. 143, Sec. 2, Subd. 3(e)**

**2009 Appropriation Language:**

\$300,000 is from the trust fund to the commissioner of natural resources for an agreement with Ducks Unlimited, Inc., to complete the inventory, mapping, and digitizing of drained restorable wetlands in Minnesota. This appropriation is available until June 30, 2012, at which time the project must be completed and final products delivered, unless an earlier date is specified in the work program.

**II. PROJECT SUMMARY AND RESULTS:**

The Restorable Wetlands Inventory (RWI) is a complement to the National Wetlands Inventory (NWI) completed in late-1980s by the U.S. Fish & Wildlife Service. An administrative decision was made developing the original NWI not to map wetland basins in Minnesota identified as completely drained. The number and acreage of completely drained wetlands that were not mapped by the NWI process is significant. In Pope County alone, 25,000 acres of completely drained wetland acres were missed in the NWI mapping process—nearly 19% of the total wetland resources in that county. RWI project identifies and digitizes the completely-drained depressional wetlands that were not mapped by the NWI process. Restorable wetlands mapping is based upon protocols established for NWI allowing seamless integration of the two datasets.

M.L. 2008

The workplan under the 2008 appropriation will map 154 additional townships located in the Southwest Prairie portion of Minnesota. Mapping will occur in Brown, Cottonwood, Lincoln, Lyon, Martin, Murray, Nobles, Pipestone, Redwood, Rock, and Watonwan Counties

M.L. 2009

The 2009 LCCMR appropriation of will provide the last project funding needed to complete, remaining RWI mapping for the glaciated, tallgrass prairie region of Minnesota – an additional 6,120 mi<sup>2</sup>. The mapping will occur in approximately 170 townships in Clay, Mahnomen, McLeod, Meeker, Nicollet, Norman, Renville, Sibley, Wilkin, and Wright Counties.

**III. PROGRESS SUMMARY AS OF December 31, 2008:**

M.L. 2008

Working with the USFWS project partner, photography has been acquired and delivered to the GIS lab at South Dakota State University. Progress is underway on photo-interpretation of the aerial photography and digitization of townships in the workplan area. No townships have yet been submitted by the contractor for final QA/QC procedures; it is anticipated that the first set of finalized township products will be ready for distribution by the time of the next progress summary in June. The project is proceeding on schedule.

M.L. 2009

N/A

#### IV. OUTLINE OF PROJECT RESULTS:

##### Result 1: Southwest Prairie Complex Mapping

##### Description:

In **Brown, Cottonwood, Lincoln, Lyon, Martin, Murray, Nobles, Pipestone, Redwood, Rock, and Watonwan Counties**, RWI product will be mapped for **154 Townships**. National Aerial Photography Program (NAPP) (1:40,000 scale) color infrared (CIR) photographs will be viewed in stereo pairs at 5x magnification using a cartographic engineering stereoscope. Drained depressional wetlands will be delineated on a Mylar overlay using a 6X0 (0.13mm diameter) rapidograph pen and indelible ink. Collateral data will be consulted during the digitization process consisting of published county soil surveys and descriptions of hydric soils, USDA Farm Service Agency compliance slides (aerial 35-mm slides) acquired in 1993 (immediately after a period of intense precipitation), USGS 7.5-minute topographic maps, and National Wetlands Inventory (NWI) maps. Mylar overlays will be scanned to create draft digital data. The final deliverable consists of distributing the final GIS products on the Minnesota DNR Data Deli and Ducks Unlimited websites.

##### Summary Budget Information for Result 1:

	M.L. 2008	M.L. 2009	Total
Trust Fund Budget:	\$245,000	\$0	\$245,000
Amount Spent:	\$42,500	\$0	\$42,500
Balance:	\$202,500	\$0	\$202,500

Deliverable	Completion Date	Budget	Status
1. Acquisition of Imagery	July 2008	\$2,500	n/a
2. SDSU Photointerpretation/Digitization <ul style="list-style-type: none"> <li>Brown County (~17 townships)</li> <li>Cottonwood (9 townships)</li> <li>Lincoln County (13 townships)</li> <li>Lyon County (12 townships)</li> <li>Martin County (20 townships)</li> <li>Murray County (6 townships)</li> <li>Nobles County (16 townships)</li> <li>Pipestone County (~12 townships)</li> <li>Redwood County ~(24 townships)</li> <li>Rock County (~13 townships)</li> <li>Watonwan County (12 townships)</li> </ul>	n/a September 2008 December 2008 February 2008 April 2009 July 2009 September 2009 December 2009 February 2010 April 2010 May 2010 June 2010	\$242,500	n/a
3. Product Distribution	July 2010	\$0	n/a

<sup>a</sup> SDSU GIS Lab will receive a one-time payment upon delivery of product for all Counties. Ducks Unlimited, Inc. will request LCCMR reimbursement after product has been delivered by SDSU and Ducks Unlimited, Inc. has paid SDSU for their work. Completion dates reflect anticipated digitization timeframes for each county.

**Completion Date:** M.L. 2008 = July 31, 2010

**Result Status as of December 31, 2008:**

M.L. 2008

Imagery for all townships has been acquired and delivered to the SDSU GIS Lab. Photo-interpretation is complete for townships within Brown, Cottonwood, and part of Lincoln Counties. Digitization of the photo-interpretation results from Mylar overlays are complete for townships in Brown and Cottonwood Counties.

**Result Status as of June 30, 2009:**

**Result Status as of December 31, 2009:**

**Final Report Summary (July 2010):**

**Result 2: Red River Valley Complex Mapping**

**Description:**

Within **Clay, Mahnomen, Norman, and Wilkin Counties**, RWI product will be mapped for **72 Townships** (see Work Plan Map #1). The protocols, procedures, and deliverables will be the same as described under Result 1, but for the different geographic extent.

**Summary Budget Information for Result 2:**

	M.L. 2008	M.L. 2009	Total
Trust Fund Budget:	\$0	\$125,000	\$125,000
Amount Spent:	\$0	\$0	\$0
Balance:	\$0	\$125,000	\$125,000

Deliverable	Completion Date	Budget	Status
1. Acquisition of Imagery	January 2010	\$2,500	n/a
2. SDSU Photointerpretation/Digitization <ul style="list-style-type: none"><li>• Mahnomen County (16 townships)</li><li>• Norman County (24 townships)</li><li>• Clay County (12 townships)</li><li>• Wilkin County (~21 townships)</li></ul>	n/a June 2010 September 2010 December 2010 April 2011	\$122,500	n/a
3. Product Distribution	April 2011	\$0	n/a

<sup>a</sup> SDSU GIS Lab will receive a one-time payment upon delivery of product for all Counties. Ducks Unlimited, Inc. will request LCCMR reimbursement after product has been delivered by SDSU and Ducks Unlimited, Inc. has paid SDSU for their work. Completion dates reflect anticipated digitization timeframes for each county.

**Completion Date:** M.L. 2009 = April 30, 2011

**Result Status as of December 31, 2009:**

**Result Status as of June 30, 2010:**

**Result Status as of December 31, 2010:**

**Result Status as of June 30, 2011:**

**Final Report Summary (July 2012):**

**Result 3: Prairie-Hardwood Complex Mapping**

**Description:**

In **Meeker, McLeod, Wright, Renville, Sibley, and Nicollet Counties**, RWI product will be mapped for **106 Townships**. The protocols, procedures, and deliverables will be the same as described under Result 1, but for the different geographic extent.

**Summary Budget Information for Result 3:**

	<b>M.L. 2008</b>	<b>M.L. 2009</b>	<b>Total</b>
<b>Trust Fund Budget:</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$175,000</b>
<b>Amount Spent:</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
<b>Balance:</b>	<b>\$0</b>	<b>\$175,000</b>	<b>\$175,000</b>

<b>Deliverable</b>	<b>Completion Date</b>	<b>Budget</b>	<b>Status</b>
1. Acquisition of Imagery	June 2011	\$2,500	n/a
2. SDSU Photointerpretation/Digitization <ul style="list-style-type: none"><li>• Meeker County (18 townships)</li><li>• Wright County (~22 townships)</li><li>• McLeod County (14 townships)</li><li>• Sibley County (16 townships)</li><li>• Nicollet County (~5 townships)</li><li>• Renville County (~27 townships)</li></ul>	n/a August 2011 October 2011 December 2011 February 2012 February 2012 June 2012	\$172,500	n/a
3. Product Distribution	June 2012	\$0	n/a

<sup>a</sup> SDSU GIS Lab will receive a one-time payment upon delivery of product for all Counties. Ducks Unlimited, Inc. will request LCCMR reimbursement after product has been delivered by SDSU and Ducks Unlimited, Inc. has paid SDSU for their work. Completion dates reflect anticipated digitization timeframes for each county.

**Completion Date:** M.L. 2009: June 30, 2012

**Result Status as of December 31, 2009:**

**Result Status as of June 30, 2010:**

**Result Status as of December 31, 2010:**

**Result Status as of June 30, 2011:**

**Result Status as of December 31, 2011:**

**Result Status as of June 30, 2012:**

**Final Report Summary (July 2012):**

**V. TOTAL TRUST FUND PROJECT BUDGET:**

M.L. 2008

Staff or Contract Services: \$ 245,000

- Contract - South Dakota State University, NWI Laboratory \$ 242,500
- 2.5% FTE - Project Manager Ducks Unlimited, Inc. \$ 2,500

**TOTAL 2008 TRUST FUND PROJECT BUDGET: \$ 245,000**

M.L. 2009

Staff or Contract Services: \$ 300,000

- Contract - South Dakota State University, NWI Laboratory \$ 296,000
- 5% FTE - Project Manager Ducks Unlimited, Inc. \$ 4,000

**TOTAL 2009 TRUST FUND PROJECT BUDGET: \$ 300,000**

**VI. OTHER FUNDS AND PARTNERS**

**A. Project Partners**

M.L. 2008 and M.L. 2009

Dr. Rex Johnson, HAPET Team Leader, U.S. Fish & Wildlife Service – Region 3

Darin R. Blunck, Director of Conservation Programs, Ducks Unlimited, Inc.

Brian Huberty, Regional NWI Coordinator, U.S. Fish & Wildlife Service – Region 3

**B. Other Funds Proposed to be Spent during the Project Period**

M.L. 2008

U.S. Fish & Wildlife Service	\$45,000 Cash/In-kind	Imagery Acquisition
and QA/QC		
Ducks Unlimited, Inc.	\$4,500 In-kind	Project Management

M.L. 2009

U.S. Fish & Wildlife Service	\$50,000 Cash/In-kind	Imagery Acquisition
and QA/QC		
Ducks Unlimited, Inc.	\$6,000 In-kind	Project Management

**C. Spending History**

U.S. Fish & Wildlife Service	\$ 10,000 Cash/In-kind
Ducks Unlimited, Inc.	\$ 6,000 In-kind
Habitat Corridors Partnership (LCCMR)	\$ 98,000 Cash

**D. Time:**

M.L. 2008

Grant funds will be used predominantly for contract services with timeframes established for deliverables based on approximations of when the contractor

estimates feasible delivery of products. Reimbursement for the Southwest Prairie Complex Result will be requested from LCCMR in July 2010 upon completion and delivery of the mapping product.

M.L. 2009

Reimbursement for the Red River Valley mapping result will be requested from LCCMR in April 2011 upon completion and delivery of the mapping product.

Reimbursement will be requested in June 2012 upon completion and delivery of the mapping product for the Prairie-Hardwood Complex.

## **E. Project Impact and Long-term Strategy**

The completion of the Restorable Wetlands Inventory is an important component of the State's spatial data infrastructure. Once completed, the dataset will provide seamless data on wetland restoration potential in the glaciated regions of Minnesota. The dataset is a baseline dataset that requires no periodic updates.

## **VII. DISSEMINATION:**

Data will be distributed on the web via the Minnesota GIS Data Deli (<http://deli.dnr.state.mn.us>) and the Ducks Unlimited, Inc. (<http://www.ducks.org>) websites.

## **VIII. REPORTING REQUIREMENTS:**

M.L. 2008

Periodic work program progress reports will be submitted not later than December 2008, June 2009, and December 2009 for the 2008 appropriation. A final work program report and associated products for the 2008 appropriation will be submitted between June 2010 and July 2010.

M.L. 2009

Periodic work program progress reports will be submitted not later than December 2009, June 2010, December 2010, June 2011, December 2011, and June 2012. A final work program report and associated products for the 2009 appropriation will be submitted no later than August 1, 2012.

## **IX. RESEARCH PROJECTS:**

Attachment A: Budget Detail for 2009 Projects - Summary and a Budget page for each partner (if applicable)								
Project Title: <i>Restorable Wetland Inventory</i>								
Project Manager Name: <i>Darin R. Blunck - Ducks Unlimited, Inc.</i>								
Trust Fund Appropriation: \$	300,000							
1) See list of non-eligible expenses, do not include any of these items in your budget sheet								
2) Remove any budget item lines not applicable								
2009 Trust Fund Budget	<u>Result 2 Budget:</u>	Amount Spent	Balance 7/1/2009	<u>Result 3 Budget:</u>	Amount Spent	Balance 7/1/2009	TOTAL BUDGET	TOTAL BALANCE
	<i>Red River Valley Complex</i>			<i>Prairie Hardwood Complex</i>				
BUDGET ITEM			0			0	0	0
Contracts			0			0	0	0
Professional/technical: Ducks Unlimited, Inc., Project Management	2,500	0	2,500	2,500	0	2,500	5,000	5,000
Professional/technical: GIS Laboratory, Department of Fish and Wildlife Sciences, South Dakota State University	122,500	0	122,500	172,500	0	172,500	295,000	295,000
COLUMN TOTAL	\$125,000	\$0	\$125,000	\$175,000	\$0	\$175,000	\$300,000	\$300,000



# Restorable Wetland Inventory - LCCMR

## *Minnesota Mapping Status 2008 and 2009 Appropriations*



