

2008 USDA FARM SERVICE AGENCY MINNESOTA STATEWIDE ORTHOIMAGERY PROJECT UPDATE

Land Management Information Center
Minnesota Department of Administration

November 12, 2008



PARTNERSHIP

Minnesota is participating in a shared-funding agreement that will provide full state coverage of color high-resolution digital aerial photographs flown in the summer of 2008. This arrangement has been brokered through the United States Department of Agriculture's Farm Service Agency (FSA) as part of its National Agriculture Imagery Program (NAIP). About two-thirds of the cost of the project was picked up by federal agencies under the conditions that: 1) one-third of the cost be provided by the state, and 2) the FSA deals with the state through a single point of contact.

BENEFITS AND JUSTIFICATION

A similar joint-funding project in 2003 provided critical data resources to state agencies, local governments, the private sector and citizens throughout Minnesota in an economical and timely manner. The value of these data resources has been recognized by almost every state agency and many local governments¹.

Changes to the state's landscape over the past five years required a refresh of this fundamental mapping data resource. For a modest investment, Minnesotans are being provided unrestricted access to this 1-meter resolution imagery for every location in the state. Additionally, for 2008, Minnesota negotiated with the FSA for the inclusion of a color infrared (CIR) data product (see photo above for an example). CIR data is particularly useful in delineating water bodies and characterizing vegetation.

SPECIFICATIONS

- Four band digital imagery for the entire state
- All imagery captured at a ground resolution of 1-meter
- Orthorectification using ground control (absolute accuracy)
- A mosaic of imagery for each county in compressed format
- Full resolution, uncompressed quarter-quadrangle-based files for the entire state

Data collection began in late May and concluded in early September. County mosaics began arriving in mid-September. A status map on page 2 of this handout indicates the current status of county mosaic data availability. Quarter-quadrangle data are expected to be delivered by spring 2009.

¹ For examples of how these products have been put to use by government and the private sector in Minnesota, visit: www.lmic.state.mn.us/chouse/airphoto_applications.html

OBTAINING THE PHOTOS

See LMIC's NAIP 2008 website to:

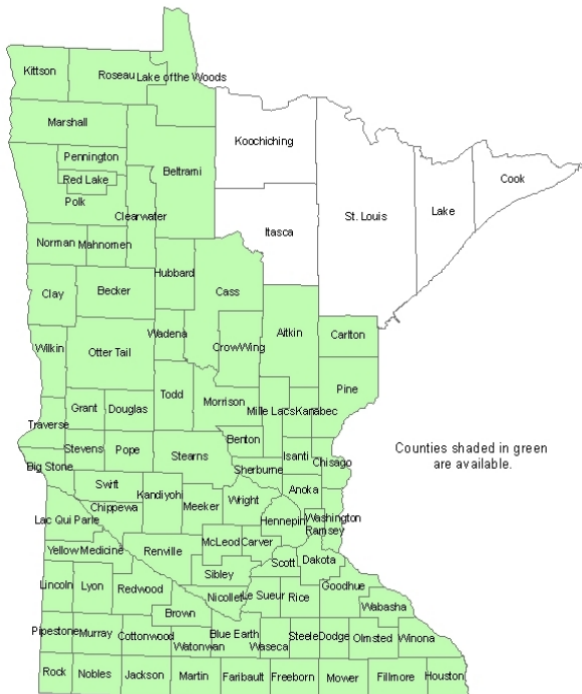
- Download compressed county mosaics in JPEG2000 format
- Connect to county mosaics via LMIC's *Geospatial Image Server* WMS service
- View the county mosaics through your web browser via LMIC's *NorthStar Mapper*
- Find more details such as a status map, help with JPEG2000, and full metadata

COST

Details of the 2008 NAIP Project's cost structure:

- Cost of Statewide coverage: \$1,330,000
- Federal share: \$923,000
- State share: \$407,000

2008 FSA Air Photo Status Map -- Minnesota
Availability of NAIP county mosaics, 10/30/08



Cash contributions. LMIC successfully brought together eight partner agencies to contribute to the state's share of this data buy:

- Department of Transportation
- Pollution Control Agency
- Department of Natural Resources
- Department of Agriculture
- Department of Health
- Board of Water and Soil Resources
- Department of Administration (LMIC)
- Department of Public Safety

In-kind contributions. In addition to cash contributions, the *Department of Transportation* is supervising ground control target placement. In partnership with most County Surveyors and Engineers, a network of more than 500 surveyed points, identifiable on the imagery, has been established.

The *Office of Enterprise Technology* and *LMIC* are providing in-kind contributions of financial and project management, respectively.

FOR MORE INFORMATION

Visit LMIC's NAIP website: www.lmic.state.mn.us/chouse/airphoto_usda.html

Or contact:

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