

INTERESTED IN PARTICIPATING?

please contact:

Chris Cialek

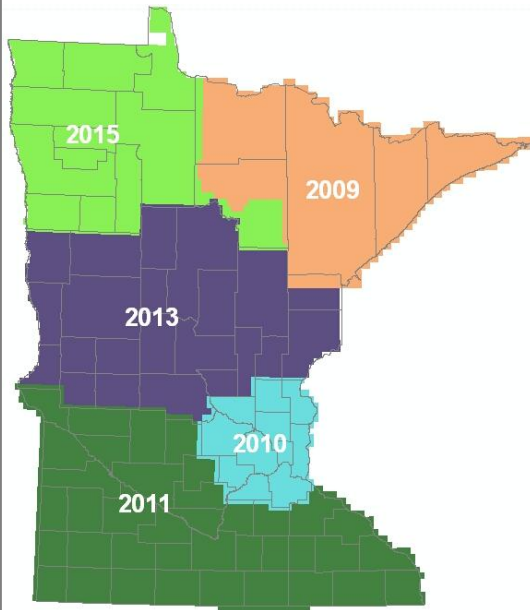
Minnesota Geospatial Information Office
(MnGeo)
651-201-2481
chris.cialek@state.mn.us

Or

Steve Kloiber

Minnesota Department of Natural Resources
651-259-5164
steve.kloiber@state.mn.us

Anticipated Schedule



PARTNERS

This project is collaboratively funded. Project partners vary from one phase to the next. Funding partners thus far include:

NORTHEAST MINNESOTA

- MN Department of Natural Resources
- MN Pollution Control Agency
- U.S. Geological Survey
- St. Louis County

EAST-CENTRAL MINNESOTA

- MN Department of Natural Resources
- Metropolitan Council
- U.S. Geological Survey
- Dakota County
- Scott County
- Metropolitan Mosquito Control District

ADDITIONAL PARTNERS

- MN Department of Transportation
- MN Geospatial Information Office



MORE INFO @

<http://www.mngeo.state.mn.us/chouse/airphoto/>

Minnesota Spring Aerial Imagery Project



Spring Leaf-Off Image



Summer Leaf-On Image

WHY SPRING IMAGERY?

Spring leaf-off aerial imagery is important for a variety of land management and planning activities including:

- Transportation/urban planning
- Natural resource assessment
- Water/flood management
- Emergency response
- Utility/facility siting

Spring leaf-off imagery provides a clear view of the ground conditions underneath the tree canopy, which can obscure infrastructure and other important mappable features.

Statewide leaf-off imagery has not been collected since 1991. The National Agricultural Imagery Program (NAIP) has acquired imagery for the entire state on a number of occasions since then, but only during summer leaf-on conditions. The goal of the Spring Aerial Imagery Program (SAIP) is acquire statewide imagery in leaf-off conditions.

BASELINE PROJECT

The State of Minnesota has provided funding through the Environmental and Natural Resources Trust Fund for a phased update of the National Wetland Inventory. The update of the NWI requires up-to-date, spring leaf-off aerial imagery. The State is seeking partnership opportunities to leverage this funding to acquire high quality, high-resolution spring imagery statewide.



1991 spring 1-meter black and white



2009 spring 1-foot natural color



2009 spring 1-foot color infrared

The State expects to have funds sufficient to provide 0.5-meter resolution imagery acquired with four spectral bands, such that imagery can be displayed as either natural color or color-infrared. The imagery will be ortho-rectified to create map-ready images with a horizontal accuracy of 11.6 feet (3.5 meters) or better (expressed as root mean square error).

PARTNERSHIPS

Phases of the spring aerial imagery program conducted in 2009 and 2010 used partner funding, added to existing State funds, to increase the size of the acquisition area and to improve the resolution. The State is currently seeking additional partners to enhance the imagery acquisition for upcoming phases in southern, central, and northwestern Minnesota.

COST

The precise cost of imagery for each phase won't be known until a contractor is selected through a competitive process, which will ensure the best value.

As an example, however, the average unit costs from the first two phases of SAIP provided 0.5-meter resolution imagery for \$16/mile², and 1-foot resolution imagery for \$41/mile².