



quadrangle, and referenced to the Wisconsin Transverse Mercator (NAD83) coordinate system. The file size of each GeoTIFF-format tile is approximately 500MB on average.

In January 2012, the National Park Service (NPS) in Ashland, WI completed work on generating 72 county mosaics in JPEG2000 format from the original GeoTIFF tiles. The mosaics are also referenced to a WTM83 coordinate system, and a compression ratio of 10:1 was used. The mosaics generated by NPS, which significantly reduce the amount of disk space needed to store the imagery, are now available on the WisconsinView Data Portal.

### 2010 NAIP available in multiple formats from WisconsinView

Wisconsin and 29 other states were flown during the summer of 2010 as part of the U.S. Department of Agriculture Farm Service Agency (FSA) National Agriculture Imagery Program (NAIP).

All 2010 NAIP imagery has a 1-meter ground resolution, and is designed to meet a 6-meter horizontal accuracy specification at a 95% confidence interval.

In the past, NAIP was strictly a 3-band (natural color) product. For the first time, all states flown in 2010 also included a fourth near-infrared band.

The 2010 NAIP imagery is available for free in a variety of formats and projections from the WisconsinView Data Portal:

- GeoTIFF quarter-quadrangle tiles, referenced to UTM zone 15 or 16, 4-band (includes near-infrared)
- GeoTIFF quarter-quadrangle tiles, referenced to Wisconsin Transverse Mercator (NAD 83/91), 4-band
- MrSID county mosaics, referenced to UTM zone 15 or 16, 3-band (natural color)
- MrSID county mosaics, referenced to Wisconsin Transverse Mercator (NAD 83/91), 3-band

Assuming their budget remains intact in 2012-2013, FSA is planning to acquire updated NAIP imagery over Wisconsin in 2013. Future NAIP flights are expected to include the fourth near-infrared band as part of the standard deliverable.

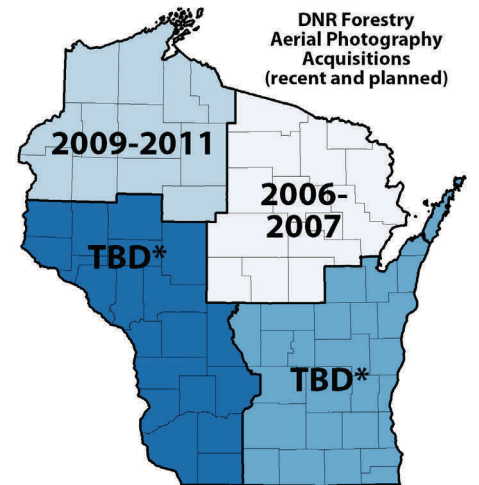
### Wisconsin DNR Forestry Aerial Photography

The DNR Forestry Division acquires stereoscopic aerial photography for approximately one quarter of the state approximately every two years. The northeast quadrant was flown in 2006-2007, followed by the northwest quadrant in 2009-2011. Both projects were acquired in the fall with color-infrared film.

The primary product for the Forestry program is 9x9 inch contact prints at a scale of 1:15,840. Beginning in 2006, Forestry also started scanning the imagery to create orthorectified, county-mosaiced digital imagery.

Forestry is exploring options for public distribution of their county mosaics. Information about digital availability will be posted on the [Forestry Division's Aerial Photography Web site](#)<sup>5</sup> as details are finalized. In the interim, prints may be ordered via an order form available on their Web site. Most WDNR Forestry prints prior to 1999 may be previewed and copied at the [UW-Madison Robinson Map Library](#).<sup>6</sup> Flights prior to 2006 are stereoscopic, collected during the summer with black and white infrared film, at a scale of 1:15,840.

Future project specifications are currently being re-examined. This includes, for example, digital vs. film, time of year, and size of project area. As a result of re-flights needed in 2011 to complete the northwest quadrant, and the re-evaluation of the product, Forestry had an interruption in their normal collection cycle in 2011. They anticipate flights will resume in fall 2012 or 2013 in the southwest area of the state.



\* Dates for future flights to be determined due to changing project needs.

### Historic aerial photography now online

In early 2011, the University of Wisconsin-Madison released a new online tool designed to help users find and download historic aerial photography. The [Wisconsin Historic Aerial Image Finder](#)<sup>7</sup> site currently includes a statewide set of 38,000 USDA aerial photographs acquired from 1937 to 1941. Using a simple interface, users can locate and then download public domain images in JPEG or TIFF format, at a variety of resolutions.

To find additional Wisconsin historic aerial photography, visit the [SCO Catalog of Aerial Photography](#).<sup>8</sup>



Scan with your smartphone!

## Wisconsin State Cartographer's Office

The Wisconsin State Cartographer's Office provides a wide range of services to the state's geospatial community, including educational workshops and presentations, technical consulting, print and online publications, web-based mapping applications, and information about events, jobs and emerging trends. We collaborate with state and national associations to promote effective utilization of geospatial technology, and serve as a liaison between geospatial data producers and consumers in Wisconsin to help coordinate the needs of these groups. The office also assists the public with map-related inquiries. The State Cartographer's Office has operated from the University of Wisconsin-Madison since 1974.

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### Web References

1. Wisconsin Regional Orthophoto Consortium [www.ncwrpc.org/WROC/](http://www.ncwrpc.org/WROC/)
2. Digital Globe Advanced Ortho Aerial Program [www.tinyurl.com/digitalglobe-aoap](http://www.tinyurl.com/digitalglobe-aoap)
3. WROC Statewide Product Specifications [www.tinyurl.com/wroc-specs](http://www.tinyurl.com/wroc-specs)
4. WisconsinView Data Portal [www.wisconsinview.org/form.php](http://www.wisconsinview.org/form.php)
5. Wisconsin DNR Forestry Aerial Photography [www.dnr.wi.gov/forestry/airphoto/](http://www.dnr.wi.gov/forestry/airphoto/)
6. Robinson Map Library [www.geography.wisc.edu/maplib/](http://www.geography.wisc.edu/maplib/)
7. WI Historic Aerial Image Finder [maps.sco.wisc.edu/WHAIFinder/](http://maps.sco.wisc.edu/WHAIFinder/)
8. SCO Catalog of Aerial Photography [www.sco.wisc.edu/ap-catalog.html](http://www.sco.wisc.edu/ap-catalog.html)