

2005 Wisconsin NAIP Digital Aerial Photography
National Agriculture Imagery Program (NAIP)
USDA Farm Service Agency
Free Download at <http://www.wisconsinview.org>

Summary

The purpose of the National Agriculture Imagery Program (NAIP) is to provide digital aerial photography during the cropping season on a yearly basis for USDA program purposes. NAIP is administered by the Farm Service Agency (FSA).

FSA acquired 1-meter resolution NAIP imagery in 2005 for all areas of Wisconsin. The USDA, Wisconsin DNR Forestry Division, Department of Agriculture, Trade, and Consumer Protection, and 13 Wisconsin counties contributed funding for this project.

2005 NAIP imagery updates available digital aerial photography in the public domain from 1992-1995. The next 1-meter NAIP program in Wisconsin is tentatively scheduled for 2010.

Please note that currently available 2005 NAIP is a preliminary product. A final product will be released in the summer of 2006 after quality control checks have been completed. The preliminary imagery may display color variation across flight lines. Users are solely responsible for determining its fitness for use.

2005 NAIP Imagery Characteristics:

- **Orthorectified:** corrected for terrain and camera angle displacement.
- **True Color**
- **Resolution:** 1-meter pixel (each side of a pixel represents 1m on the Earth's surface).
- **Accuracy:** +/- 5m when compared to a Mosaicked Digital Orthophoto Quadrangle.
- **Timing:** Acquired between June 1st and August 15th, 2005.
- **Projection:** UTM NAD 83 (Zone 15N or 16N in WI). Split counties are classified in the predominant UTM zone.
- **Products:** Preliminary: MrSID county mosaic delivered by October 2005.
Final: After quality control checks and color balancing, summer 2006.
Full resolution DOQQ tiles (GeoTIFF tiles) and MrSID county mosaic.
- **File Size:** Each county mosaic has a different file size based on the size of the county. The largest mosaic is Ashland at 1,548 MB (or 1.51 GB). The smallest is Ozaukee at 296.7 MB.

Frequently Asked Questions:

I have a slow Internet connection. Is it possible to order 2005 NAIP imagery on CD?

Yes, copies of 2005 NAIP may be purchased from the Farm Service Agency's Aerial Photography Field Office (1-801-975-3500; sales@apfo.usda.gov (\$50 per county)). Because of the data volume, 2005 NAIP will be delivered on a DVD. To read the DVD, your computer's CD drive should be labeled "DVD-ROM."

Is it possible to acquire 2005 NAIP imagery for just a small area?

Not at this time. 2005 NAIP must be purchased or downloaded as a county-wide mosaic. Once you have acquired the image, you may use an Internet browser or other software to save an area of interest. Please refer to the NAIP viewing options for more info:

http://www.wisconsinview.org/documents/NAIP_MrSid_viewing_options.pdf

In 2006, the final NAIP product will be available in quarter quad tiles, GeoTiff format. A quarter quad covers 3.75 minutes of latitude and longitude (approximately 4 X 3 miles).

How do I view 2005 NAIP Imagery?

NAIP is in a MrSID compressed image format. You may need an Internet browser plug-in or GIS extension to view it. Please refer to the viewing options link for further information: see link above.

Does 2005 NAIP imagery include section lines, roads, or other reference features?

No, NAIP imagery includes just the base aerial photography. Section lines and roads may be acquired from the [Wisconsin DNR](#) and other sources.

What areas of Wisconsin are available in 2005 NAIP?

2005 NAIP imagery has statewide coverage without gaps.

How do I find the flying date of an area in 2005 NAIP imagery?

2005 NAIP imagery was flown between June 1st and August 15, 2005.

2005 NAIP imagery includes an ESRI shapefile named naip_1-1_1n_wi<3 digit county FIPS code>_2005_1 of quarter quad tiles. The idat attribute in this file contains the flying date for a specified quarter quad tile.

Does 2005 NAIP include metadata?

Yes, each county mosaic and shapefile ZIP bundle downloaded from WisconsinView.org and each DVD ordered through FSA includes a complete metadata file. On the DVD the files are in a text format with a ".MET" extension. WisconsinView.org also includes the same FGDC metadata files in both HTML and XML formats. Please refer to <http://www.wisconsinview.org/> to view the metadata.

How was 2005 NAIP imagery acquired?

The Farm Service Agency contracted with [Surdex](#), Inc. to acquire 2005 and 2004 NAIP. Surdex acquired NAIP at a flying height of 20,000 feet and scale of 1:40,000 using film photography.

What are the differences between 2004 and 2005 NAIP imagery?

2004 NAIP has a 2-meter resolution and covers 32 Wisconsin counties with some gaps in urban and forested areas. Two meter NAIP is acquired by FSA for crop compliance purposes only. 2005 NAIP has a 1-meter resolution, statewide coverage, and is intended as replacement base imagery. The accuracy standards for 2-meter resolution NAIP are also not as strict as 1-meter.

May I copy NAIP imagery and give it to a friend or coworker?

Yes, NAIP is in the public domain and may be distributed without any restrictions.

Does NAIP imagery account for terrain distortion?

Yes, NAIP is orthorectified, or corrected for displacement caused by terrain and camera orientation. This product combines the image characteristics of a photograph with the geometric qualities of a map and can be used either alone or in combination with other digital data in a geographic information system (GIS).

What is the resolution of NAIP imagery?

2005 NAIP has a 1-meter pixel resolution. 2004 NAIP has a 2-meter. pixel resolution.

NAIP imagery is not clear enough for my application. Is higher resolution imagery available?

Most Wisconsin counties acquired 1-1.5 ft. resolution, leaf-off imagery in the spring of 2005. See the [Wisconsin State Cartographer's website](#) for coverage and products. Contact [county land information offices](#) for availability and pricing.

Links:

[Further NAIP information: USDA Aerial Photography Field Office](#)

<http://www.apfo.usda.gov/NAIP.html>

[Minnesota NAIP download](#)

<http://www.lmic.state.mn.us/chouse/clipnship.html>

[Reprojecting MrSID](#)

http://www.lmic.state.mn.us/chouse/mrsid_help.html

[WisconsinView.org](#)

<http://www.wisconsinview.org/>