

2010 Metro and 2011 Southern Minnesota Orthoimagery Projects

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2010 Project

All wrap-up imagery has been collected and processed by Surdex for the remainder of the 2010 East-Central MN Orthoimagery Project. Areas included are outlined in red on Figure 1, and consist of:

- Reflight of downtown St. Paul to minimize building lean
- Stereo imagery at 0.5-meter resolution for Scott, Dakota, Rice and Goodhue counties
- 1-foot resolution buy-up imagery for Rice County
- Orthoimagery processing for Goodhue and Rice Counties

Data have been delivered via Web Mapping Service, and are currently undergoing DNR and MnGeo quality assurance procedures.

Data committed to the National Geospatial-Intelligence Agency (NGA) have been delivered.

Horizontal positional accuracy testing has been conducted by MnDOT and falls well within contract specifications:

2010 EC MN Orthoimagery Horizontal Accuracy Specifications and Test Results (expressed as NSSDA values*)

Product Resolution		Original RFP Accuracy Specification	Increased Accuracy Buy-up	As Tested by MnDOT	
Meters	Feet	Meters	Meters	Meters	Test Points
0.5000	1.6404	6.218	2.438	1.306	30
0.3048	1.0000		1.494	1.166	60
Overall				1.215	90

* Tested <value in red from chart above> meters horizontal accuracy at 95% confidence level

2011 Project

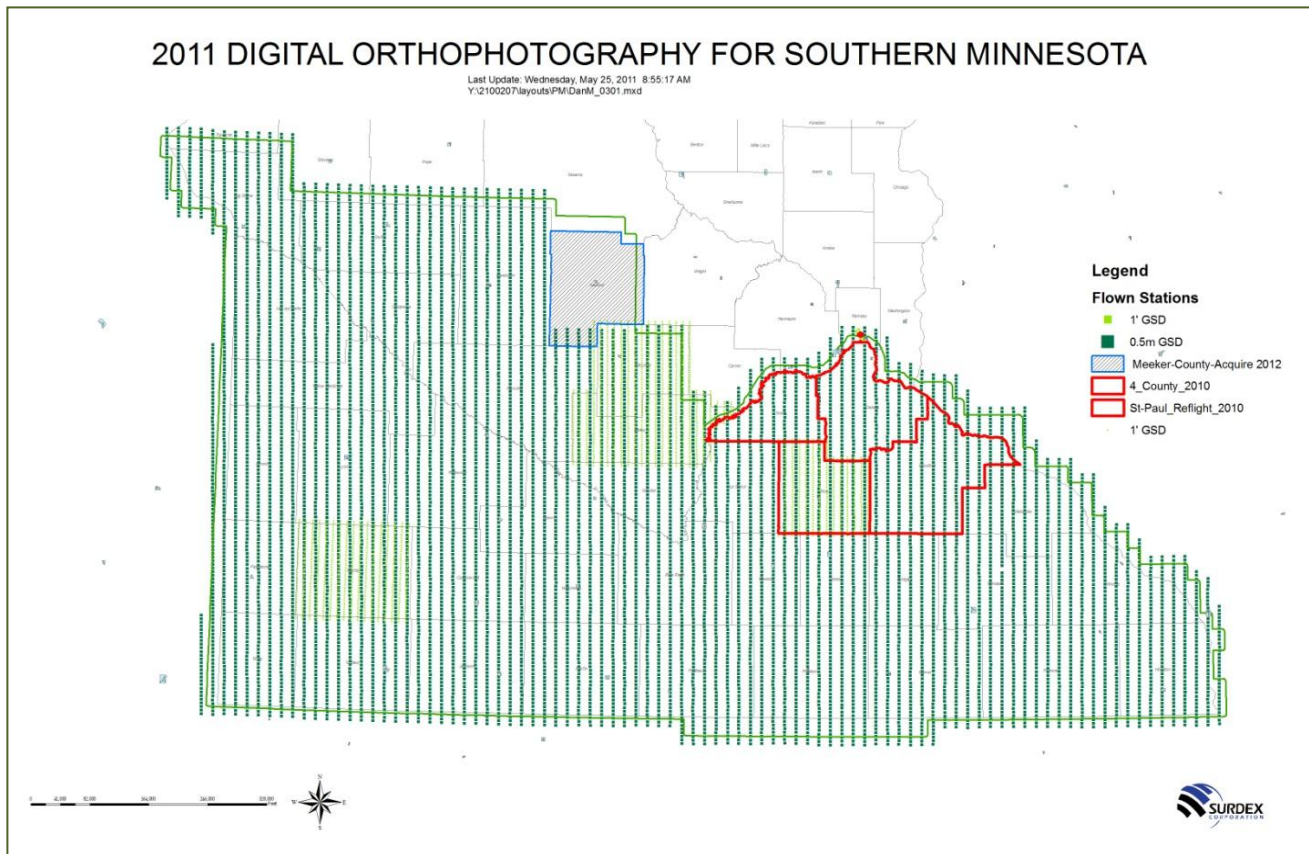


Figure 1. Digital imagery collected during Spring, 2011

The 2011 digital imagery project formally began on March 18, 2011 with the execution of a contract between the State and Surdex Corporation. As with the 2010 project, specifications include 4-band, leaf-off imagery, provided in both ortho-rectified and stereo form. The nominal resolution of the new data collection is ½-meter, but three counties – McLeod, Murray and Sibley – have contracted to also buy-up to 1-foot resolution imagery.

The vendor dedicated as many as four planes and cameras for this project but, even so, poor weather conditions kept the number of flying days down. Advanced leaf-off conditions forced the project managers to cease new data collection on May 17, 2011. All but one of the 36 project counties – Meeker (blue box in Figure 1) – have been collected up to that point (green area in Figure 1). Meeker will be collected in the spring of 2012.

Imagery has been inspected, color samples approved and orthoimagery processing completed. DNR and MnGeo have developed internal QA/QC procedures. Those processes are currently underway using the SURDEX WMS. When QA/QC is completed, the data will be physically delivered and positional accuracy testing will be conducted by MnDOT.

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