

State LiDAR Project Update

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The State LiDAR project is being coordinated by the Minnesota Digital Elevation Committee and managed by the Department of Natural Resources. Funded through the Clean Water Legacy funds, this project will create a high quality set of elevation data, tools and technical resources that are available to everyone. This project is a cooperative effort between municipal, county, state and federal governments.

Acquisition Status

On April 28th LiDAR acquisition over the Central Lakes project area was completed and we reached a monumental milestone for the Minnesota Elevation Mapping Project. With this final acquisition the total coverage for the project reached 57,500 square miles and complete coverage of publicly available data (when available) for the entire state!

Anticipated delivery dates have not yet been provided by the vendor but we expect to see data starting to show up in early October.

An acquisition contract for Blue Earth County was awarded to Aerometric Inc (the vendor for the surrounding areas) and the area was acquired in mid-April. Product deliverables for this acquisition include full-waveform data over the entire county. This data will be made available once it arrives.

Data Delivery Status

Data delivery for the Arrowhead and Metro project areas is ongoing. For the Arrowhead project Blocks 1, 2, 3 and 4 have been delivered with Blocks 1 and 2 published and available for download. Blocks 3 and 4 are currently undergoing QA/QC. Block 5 delivery is expected by the end of May. RMSEz for Blocks 1 and 2 came in very well at 8.2cm and 12.4cm respectively.

In the Metro project area data has started to arrive. Meeker county data was received in May 5th and is undergoing QA/QC procedures. The RMSEz on this delivery is 12.1cm. Additional data is expected to be delivered in quantities over the next couple of weeks.

Data Download Status

The Minnesota Geospatial Information Office has recently added LiDAR data to it's FTP site. This site is more than three times faster than the DNR site and users are encouraged to use that site for data downloads. The organizational structure has been modified just a bit (the tiled LAS and Geodatabases are included in one place) but the content is identical to the DNR site.

Main ftp address: <ftp.lmic.state.mn.us>
LiDAR folder: /pub/data/elevation/lidar
Arrowhead Block 1 /pub/data/elevation/lidar/data/projects/arrowhead/block_1
Arrowhead Block 2 /pub/data/elevation/lidar/data/projects/arrowhead/block_2

Phase 1 – Minnesota River Basin, MN portion – 17,258 sq miles

This portion of the project was acquired in the spring and fall of 2010. This project has been completed and data are available to the public.

Phase 2 – Minnesota River Basin, SD portion – 1,940 sq miles

This project was funded by the USGS (no state funds were utilized) and was acquired the fall of 2011. This project has been completed and data are available to the public.

Phase 3 – Arrowhead Region - 15,520 sq miles

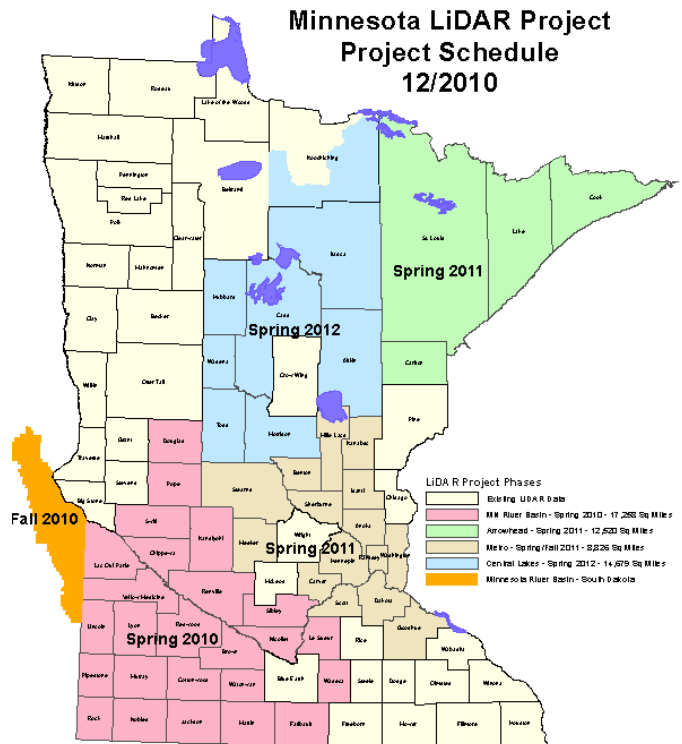
Acquisition was completed in the spring of 2011. Blocks 1 and 2 of the data has been delivered and approved, blocks 3 and 4 have been delivered but are in QA/QC processing.

Phase 4 – Metro Region, - 8,826 sq miles

Covering 15 counties in the metro region this was acquired in the spring and fall of 2011. Meeker county has been delivered and is in the QA/QC Processing stage

Phase 5 - Central Lakes Region - 13,065 sq miles

This project area covers all or parts of seven central Minnesota counties square miles and acquisition will commence when ground conditions are favorable this spring. The contract has been fully executed and the vendor (Woolpert) is preparing for acquisition.



For More information contact Tim Loesch, tim.loesch@state.mn.us or visit the project web site at http://www.mngeo.state.mn.us/committee/elevation/mn_elev_mapping.html
Or Friend the project on Facebook at <http://www.facebook.com/minnesotalidar>