



Rainwater Basin Joint Venture

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South-Central Nebraska LIDAR Project

The Rainwater Basin Joint Venture in partnership with multiple state/federal conservation agencies is working to acquire LIDAR elevation data for a portion of 20 counties in South-Central Nebraska. The primary coverage areas for the imagery are: Rainwater Basin Wetland Complex, Platte River from Silver Creek to Lexington, Republican River from Cambridge to the Kansas border and the Nebraska portion of NRCS's Major Land Resource Area (MLRA) #75 (Figure 1).

The Joint Venture is interested in flying LIDAR to acquire detailed bare-ground elevation in order to delineate watersheds associated with each Rainwater Basin wetland. Delineation of watersheds will help the JV prioritize wetland restoration, protection, and enhancement activities. There are numerous applications various partners may have for LIDAR data covering this area. The JV is offering partner agencies and organizations the opportunity to participate in this effort. The extent of the proposed project area can be expanded if additional funding is available.

Detailed Specifications: (Higher precision data can be collected in-channel for rivers dependent upon funding).

- 1.4 meter average point spacing
- Vertical Accuracy:
 - Bare ground: +/- 18.4cm @ 95% confidence level
+/-15.0cm @90% confidence level
 - Vegetation: +/- 37.0cm @ 95% confidence level (We are currently planning to fly during leaf-off conditions, therefore vegetation information available from the data will be limited)
- Horizontal Accuracy: 1 meter RMS @ 95% confidence level
- Supports FEMA-certified 2' contour generation (1' – 6" contour generation possible but at slightly reduced accuracy and non FEMA-certified levels)
- First and last return data available

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NE Association of
Resource Districts
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Current Funding Sources and Timeline

Grants:

- 1) NRCS - Conservation Innovation Grant: \$500,000 secured in June 2007 (requires \$500,000 nonfederal match)
- 2) Nebraska Environmental Trust: Requested \$588,000 in September 2007, NET grants will be awarded Spring 2008.
- 3) Nebraska DNR - Interrelated Water Management Plan Program Fund: Grant program for the NRDs to address groundwater/surface water issues. Currently a consortium of 5 NRDs have agreed to submit an application for approximately \$200,000 - \$300,000 (Deadline: March 2008)

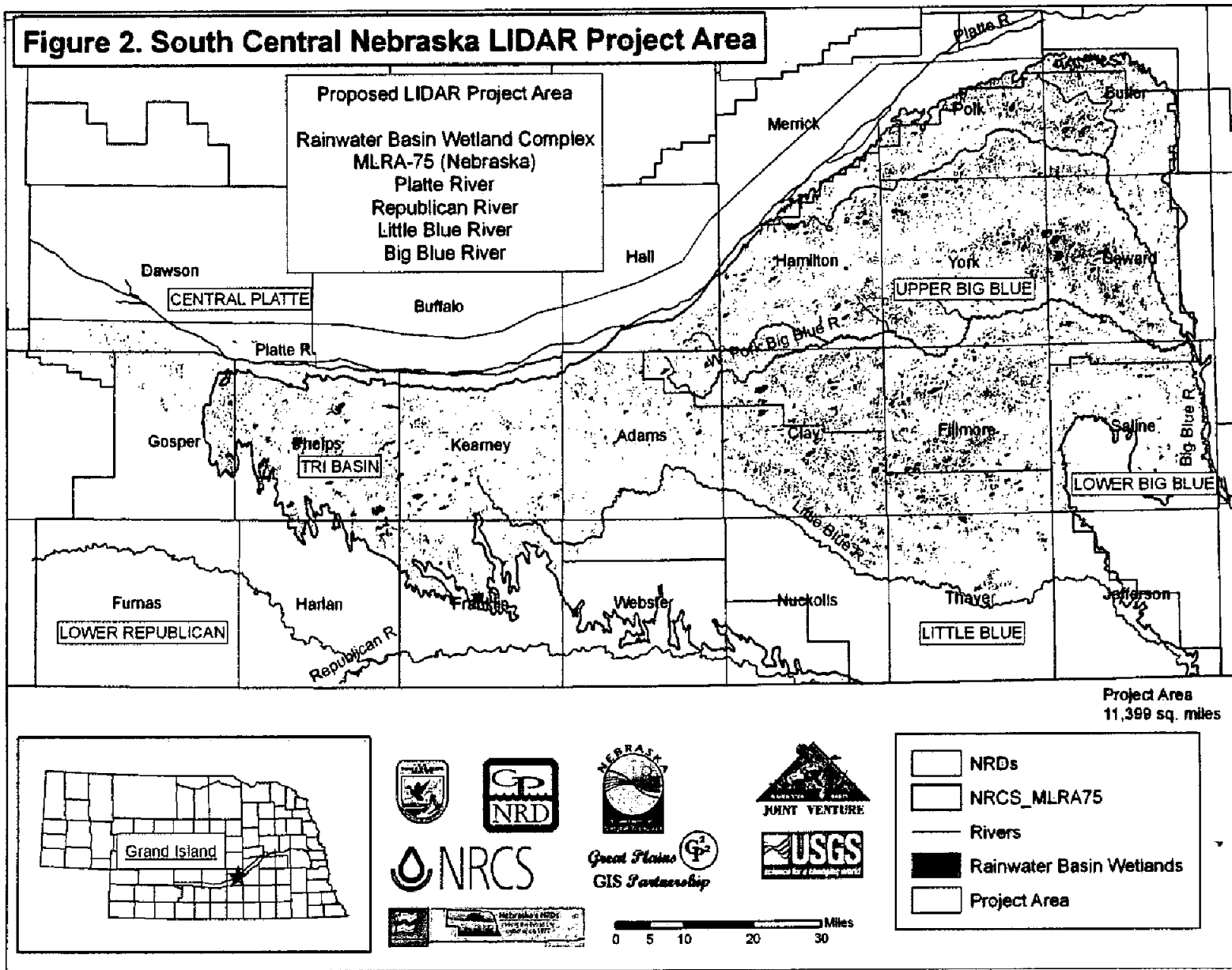
The following partners have agreed to provide cash and/or in-kind match.

- 1) Rainwater Basin Joint Venture
- 2) Nebraska-DNR
- 3) Nebraska Game and Parks
- 4) Nebraska-NRCS
- 5) USGS
- 6) US Fish and Wildlife Service

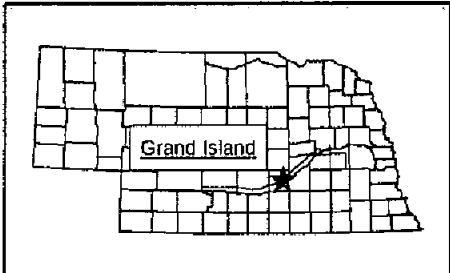
If your organization is interested in participating in project or for more information please contact:

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Figure 2. South Central Nebraska LIDAR Project Area



Project Area
11,399 sq. miles



- NRDs
- NRCS_MLRA75
- Rivers
- Rainwater Basin Wetlands
- Project Area

0 5 10 20 30 Miles