

*Overview and Perspectives of Geospatial Applications, Use and Vision for*



by Chad Boshart

**NEMA**

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*A GIS Council Member Presentation*

## **NEMA**

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The Nebraska Emergency Management Agency is charged by state statute to reduce the vulnerabilities of the people and communities of Nebraska from the damage, injury and loss of life and property resulting from natural, technological, or man-made disasters and emergencies.

Under state law, all local jurisdictions are responsible for initial response to a disaster. When local resources become exhausted, NEMA is called in to assist with state resources.

NEMA is part of the Military Department. The state's Adjutant General serves as the director of the agency as well as the commanding officer of the Army National Guard and the Air National Guard.

NEMA is a small agency with less than 40 full-time and part-time employees. Day-to-day operations are managed by Al Berndt, assistant director.

Four phases of Emergency Management: Preparedness, Response, Recovery, Mitigation

One GIS user with ArcGIS. In office and in field.

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## NEMA

The agency was located in a bunker built in the 1960s during the height of the Cold War. It was intended to serve as Nebraska's government headquarters if nuclear confrontation was likely. Today we are located in a new facility at the National Guard Airbase.



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## Data

### Base Layers

#### Emergency Support Functions

- ESF1 – Transportation
- ESF2 – Communications
- ESF3 – Public Works & Engineering
- ESF4 – Fire Suppression
- ESF5 – Emergency Management
- ESF6 – Mass Care, Housing and Human Services
- ESF7 – Resource Support
- ESF8 – Health and Medical
- ESF9 – Urban Search and Rescue
- ESF10 – Environmental Quality
- ESF11 – Agriculture and Natural Resources
- ESF12 – Energy
- ESF13 – Public Safety and Security
- ESF14 – Long Term Community Recovery and Mitigation
- ESF15 – Military Support

### Event Layers

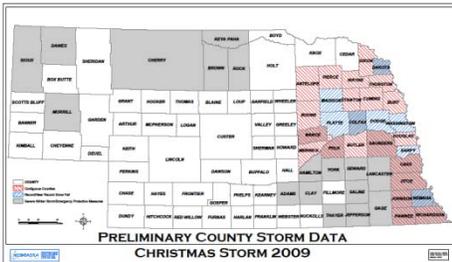
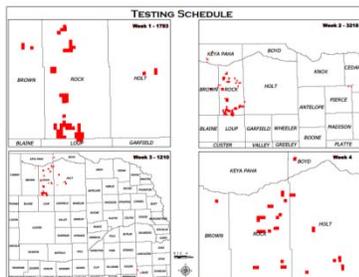
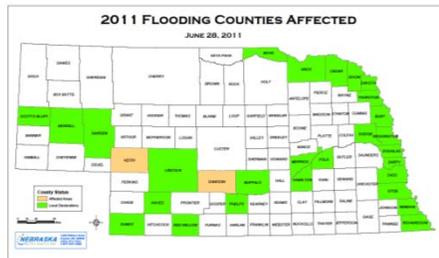
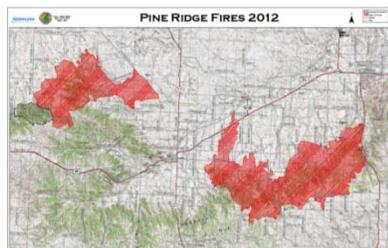
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## NEMA Activities

- Respond to statewide events
- Exercise & Training - TERREX
- Local and State Plans
- Public Assistance / Damage Assessment
- Hazard Mitigation
- Communications – SRS, NRIN, Paraclete
- Grants
- Citizen Corp
- Technical Hazards / REP

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## Events



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## Hallam



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## Governor

The Governor and Lt. Governor are always monitoring any disaster.



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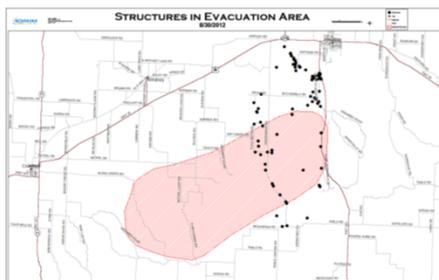
## Other Agencies

Nebraska State Patrol  
Department of Natural Resources  
Nebraska National Guard  
Department of Roads  
Department of Health and Human Services  
Game and Parks Commission  
University of Nebraska  
State Fire Marshal  
National Weather Service  
FEMA Region VII  
USACE  
Natural Resources Districts  
OCIO

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## Challenges and Barriers – Policy and Management

- Funding
- Acquiring spatial data.
- Getting good information.
- Personnel



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## Challenges and Barriers – Technical

- Access to internet connection.
- User training and time in the field.
- Keeping up with technology

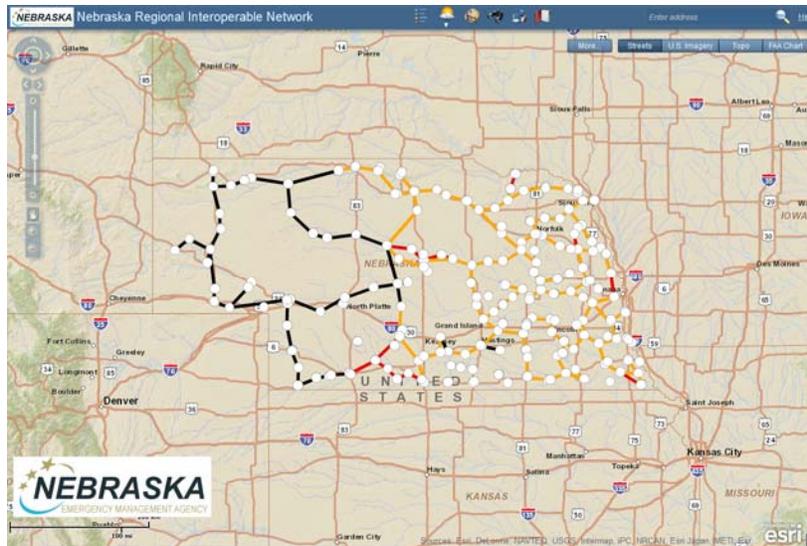


Garmin  
GPSMAP 78sc



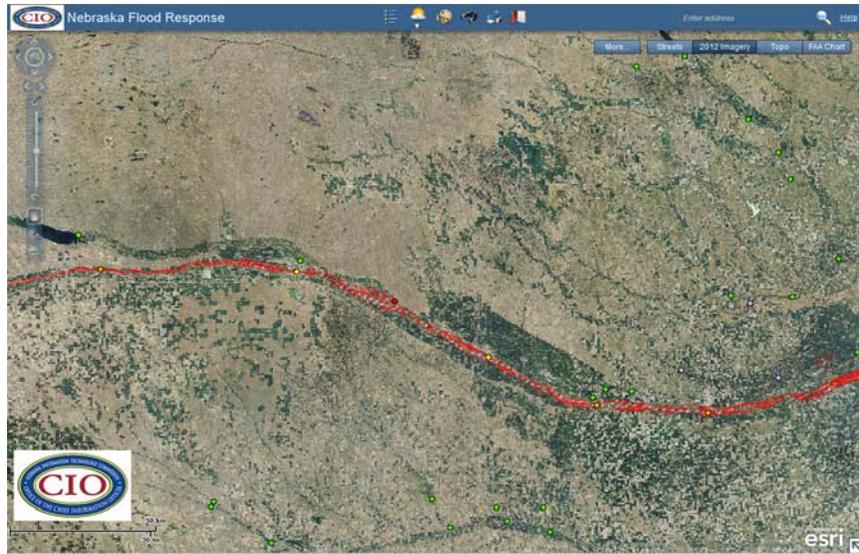
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## Collaboration



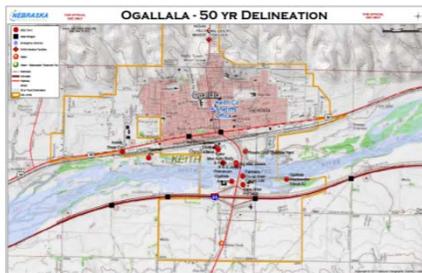
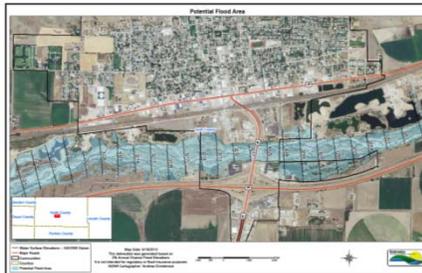
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## Flood Collaboration



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## 2013 Floods - Ogallala



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## Working Groups

Most common maps when NEMA is deployed, **IMAGERY & ROADS**.



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## Future Vision

- Provide GIS capabilities to NEMA for disasters and everyday use.
- Educate and assist locals with GIS knowledge, basic mapping and web services.
- Expand database
- Improve accessibility to data
- Credentialing system - Kansas

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## Thank You

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- **Questions?**
  
- **Contact:**  
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