



Water *for* Food

ROBERT B. DAUGHERTY INSTITUTE
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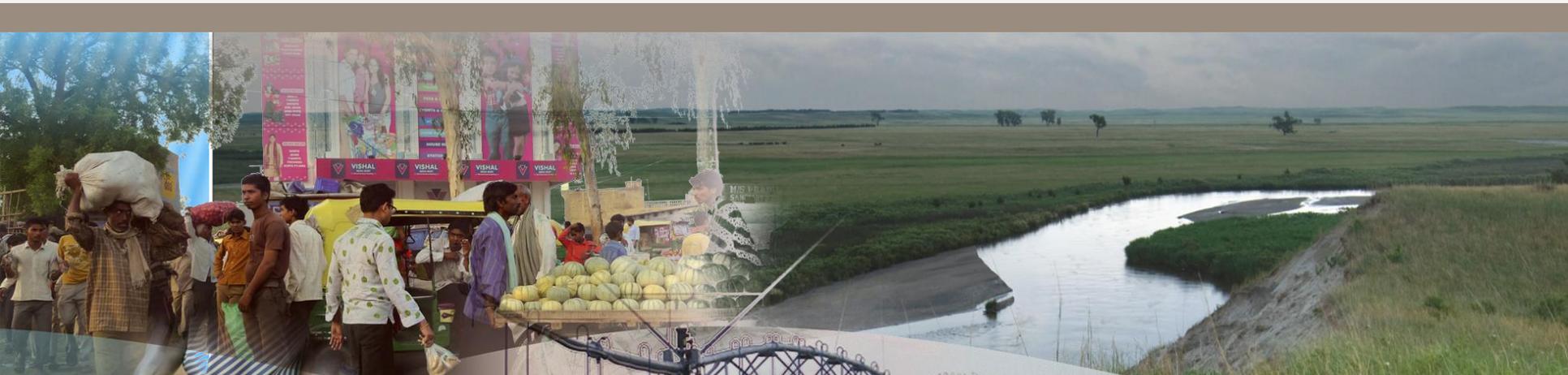
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NEBRASKA WATER RESEARCH PRIORITIES

as determined by the

University of Nebraska Water Resources Advisory Panel

Presented by Rachael Herpel, Research and Outreach Coordinator



WATER RESOURCES ADVISORY PANEL (WRAP)

WRAP first convened in 2006 with Ten Panelists:

- State Agencies
 - Natural Resources
 - Game and Parks
 - Environmental Trust
- Water Users
 - Public Power and Irrigation
 - Industry
 - Agriculture
- Environmental Education
- Natural Resources Districts
- Legislature – Natural Resources Committee Chair

WRAP RESEARCH PROJECTS (2006-2007)

- Riparian Invasive Species
- Measurement of Evapotranspiration
- Center Pivot Water Conservation Project



WRAP EXPANDED TO 15 MEMBERS IN 2008

- State Agencies
 - Natural Resources
 - Game and Parks
 - Environmental Trust
 - Environmental Quality
- Water Users
 - Public Power
 - Irrigation
 - Industry
 - Agriculture
 - Public Drinking Water
- Environmental Education
- Natural Resources Districts
- Federal
- Legislature – Committee Chairs
 - Natural Resources
 - Agriculture



WRAP Meeting, September 29, 2010

RESEARCH PRIORITIES EXPANDED (2009)

- Three Categories
 - Water Quantity
 - 8 topics
 - Added term “management”
 - Basin-specific - 4 topics
 - Water Quality
 - Originally 4 topics – revised/expanded to 8
 - More detailed subtopics also developed and ranked

TOP RANKED RESEARCH PRIORITIES BY CATEGORY

- **Water Quantity**
 - Consumptive Use
 - Water Mgt – Improve Relevance, Efficiency and Effectiveness
 - Value of Water
 - Water Market Systems
- **Basin-specific Priorities**
 - Water Budgets
 - Aquifer Storage and Recovery
 - Managing the Impact of Cyclical Water Supplies
- **Water Quality**
 - Standards for Nutrients in Flowing Waters
 - Livestock Manure Management
 - Riparian Buffer Strips

ASSESSMENT OF RESEARCH NEEDS BEING MET

- Research Reports
 - Water Faculty
 - Research – funded and published
 - NUgrant Results (<http://watercenter.unl.edu/grants/grants.asp>)
 - Research Nebraska (<http://research.unl.edu/eseach-nebraska-expertise-directory/>) – UNO, UNL, UNMC
 - Research Database –
 - Features a brief description, status, results
 - More detailed information on faculty websites, publications
- Two Working Groups Formed – Reviewed Reports
 - Water Quantity and Basin-specific Combined
 - Water Quality

LR 314 – GROUP 5

- “Available Research, Data Sources, Studies”
- Majority of questions focused on research activities of DNR and NRDs
 - Documented collaborative nature of research in Nebraska
 - Duplication is rare
- List of University Funding Sources

IN CLOSING

- Framework and process in place to identify and rank research need and priorities
- Tools are in place to assess how university research is meeting those needs



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SURVEY STATE WATER RESEARCH NEEDS (2006)

- Master List combined the survey results:
 - NRDs
 - Additional Constituents – Water Policy Task Force, irrigation districts, power district, NE Dept. Health & Human Services, local health departments, NE Dept. Environmental Quality, environmental groups
 - WRAP Members