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From Haigler to Hardy: A Basin-Wide Approach to Water

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Nebraska Department of Natural Resources

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Water Planning and Integrated Management

Surface Water





Outline From Haigler to Hardy: A Basin-Wide Approach to Water

Basin-Wide Planning

Republican River Basin Planning

Republican River Basin Stakeholder Involvement

Future Outlook



BASIN-WIDE PLANNING

A basin-wide plan facilitates **collaboration** and **coordination** of water supply management actions among **NDNR** and **all the NRDs** within a basin



Basin-wide planning, purpose and benefits

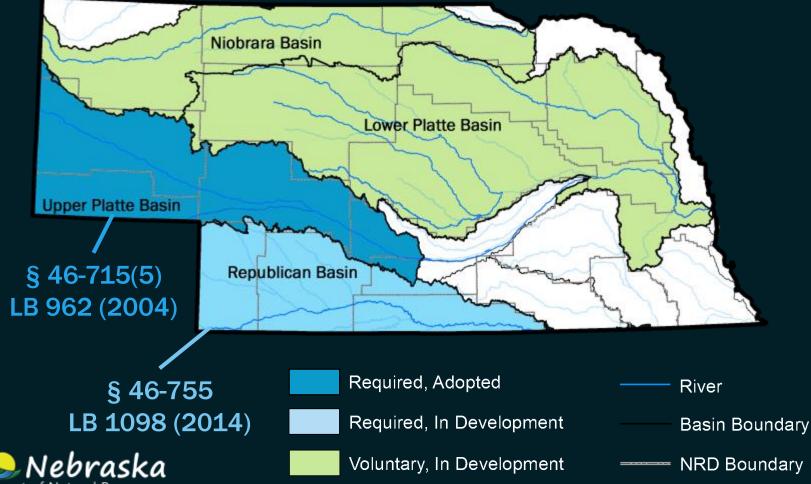
- Management of hydrologically connected surface water and groundwater resources
- >NDNR & all NRDs within a basin
- Basin-wide planning looks beyond NRD borders to:
 - Provide a framework for consistency among a basin's NRDs for tasks such as:
 - Defining goals and objectives
 - Monitoring
 - Data exchange
 - Manage cross-boundary issues and opportunities







Basin-wide plans may be required by statute or voluntary



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Basin-wide plans are collaborative

Plan Development
 NDNR + basin NRDs
 Stakeholders

Plan implementationNDNR + basin NRDs





Basin-wide plans use an adaptive management approach





Basin-wide plans are similar to but different from IMPs

Basin-wide plans

≻All basin NRDs & DNR

- ➤Goals & objectives
 - Focused on regional, cross-boundary issues and opportunities
 - $_{\odot}$ Consistent among basin NRDs
 - $_{\odot}$ More of a general framework

Integrated management plans

>1 NRD & NDNR

- Goals, objectives, & controls
 - Tailored to local issues and opportunities
 - Specific to one NRD
 - More specific



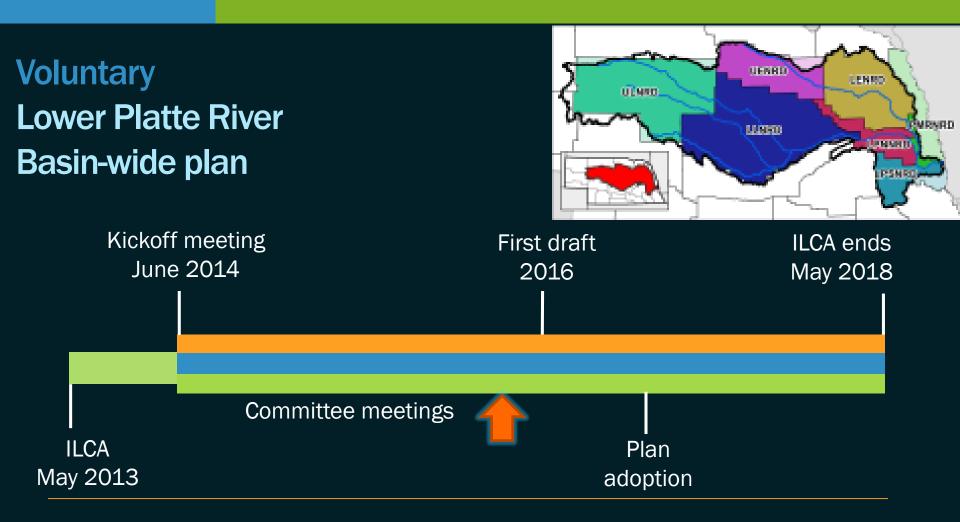
Basin-wide plans complement IMPs

FRAMEWORK Data exchange guidelines Data collection guidelines Shared plan components CROSS-BOUNDARY TRANSFERS CROSS-BOUNDARY TRANSFERS REGIONAL WATER SSUES COMMUNICATION CROSS-BOUNDARY PROJECTS



BASIN-WIDE PLANNING ACROSS THE STATE



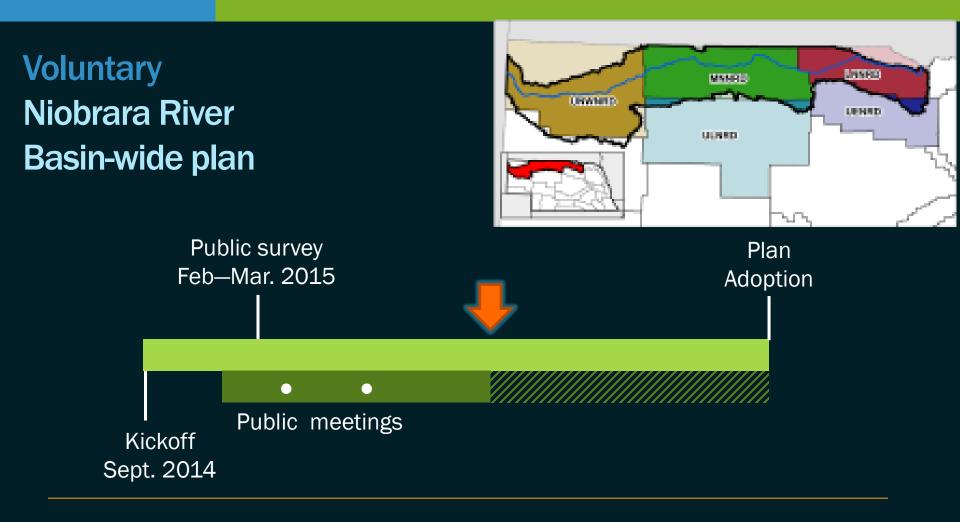


NRD board members are stakeholders
 Water banking workshops

 Example conjunctive management and water supply alternatives

Excess flow analysis

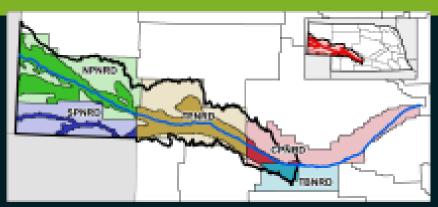




 Public meetings to gather stakeholder input Goals, objectives, and action items
Ready to start writing plan



Required Platte Overappropriated Area Basin-wide plan







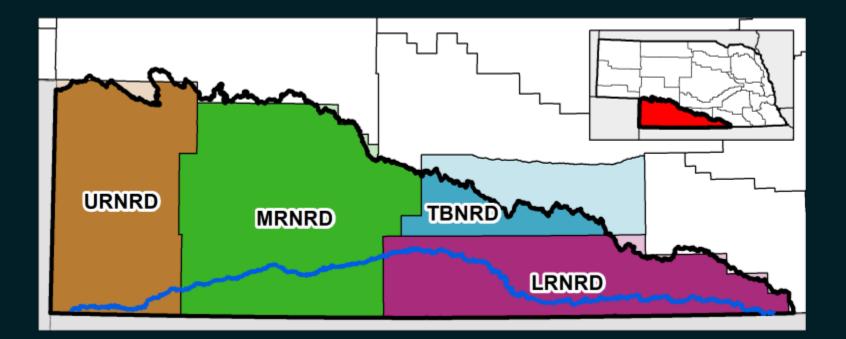
REPUBLICAN RIVER BASIN PLANNING

The Nebraska Department of Natural Resources and four Natural Resources Districts in the Republican River Basin are developing a basin-wide water management plan in collaboration with local stakeholders.



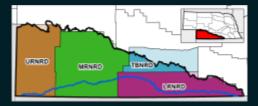
Republican River Basin-wide plan

>Required by LB 1098 (2014)



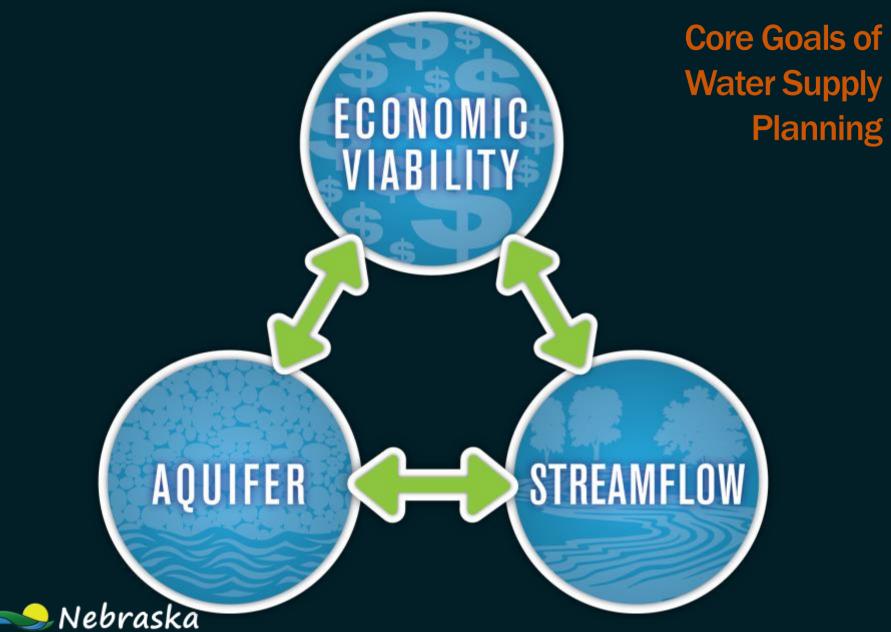


Republican River Basin-wide plan Statutory requirements, § 46-755

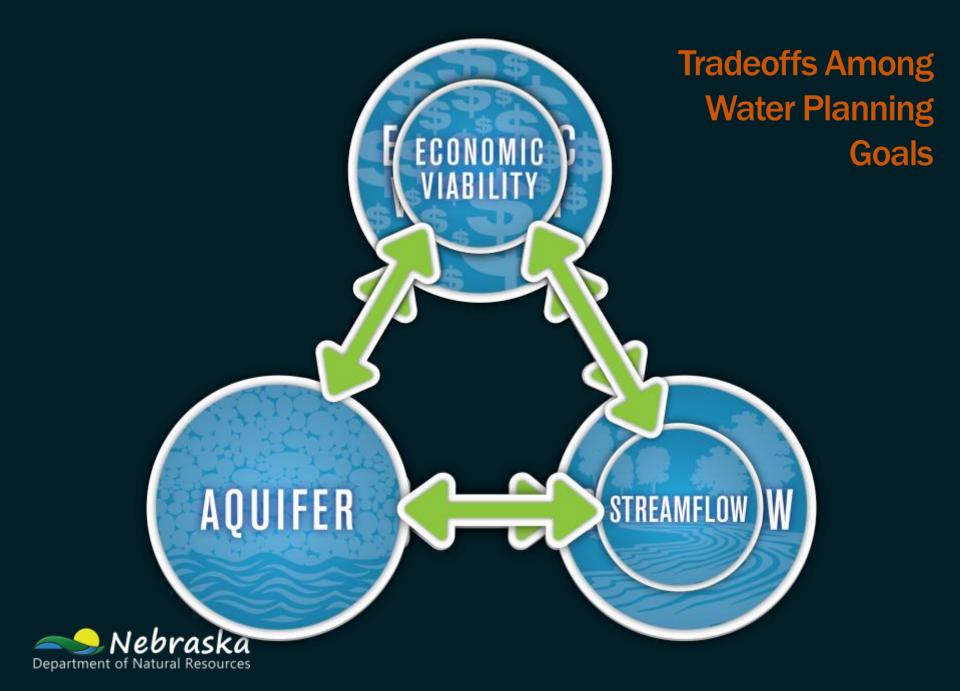


- Why? If a river basin includes three or more natural resources districts that have been or are required to develop an integrated management plan for substantially all of the district, such natural resources districts shall, jointly with the department and the natural resources districts within the same basin, develop and adopt a basin-wide plan for the areas of a basin, subbasin, or reach determined by the department to have hydrologically connected water supplies....
- What? A basin-wide plan shall have clear goals and objectives with a purpose of sustaining a balance between water uses and water supplies so that the economic viability, social and environmental health, safety, and welfare of the river basin, subbasin, or reach can be achieved and maintained for both the near term and the long term, ensure that compliance with any interstate compact or decree or other formal state contract or agreement or applicable state or federal law is maintained, and (c) set forth a timeline to meet the goals and objectives as required under this subdivision, but in no case shall a timeline exceed thirty years after April 17, 2014.

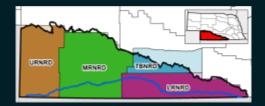




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Republican River Basin-wide plan Statutory requirements, § 46-755



Ensure Compact compliance continues

Set forth a timeline to achieve goals and objectives

- $_{\odot}$ Not to exceed 30 years
- Track progress by setting measurable hydrologic objectives and intermediate target dates
- Technical analysis every 5 years to assess progress and assess need for plan modifications



Republican River Basin-wide plan IMP/BWP relationship



Basin-wide plan

A framework that will apply to all four NRDs within the basin

IMPs within the basin

Must be consistent with the basin-wide plan

May include additional incentive programs or controls



Republican River Basin-wide plan Status



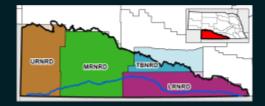


REPUBLICAN RIVER BASIN STAKEHOLDER INVOLVEMENT

Representatives from a wide range of users relying on water from within the basin are consulted in the basin-wide plan development.



Basin-wide plan stakeholder Statutory requirements, § 46-755



• A basin-wide plan shall be developed using a consultation and collaboration process involving representatives from irrigation districts, reclamation districts, public power and irrigation districts, mutual irrigation companies, canal companies, ground water users, range livestock owners, the Game and Parks Commission, and municipalities that rely on water from within the affected area and that, after being notified of the commencement of the plan development process, indicate in writing their desire to become an official participant in such process. The department and affected natural resources districts shall involve official participants in formulating, evaluating, and agreement among all official participants involved in a basin-wide plan. In addition, the department or the affected natural resources districts may include designated representatives of other stakeholders. If agreement is reached by all parties involved in such consultation and collaboration process, the department and the affected natural resources districts shall adopt the agreed-upon basin-wide plan. If agreement cannot be reached by all parties involved, the basin-wide plan shall be developed and adopted by the department and the affected natural resources districts or by the Interrelated Water Review Board.



Stakeholder Recruitment

Must include representatives of: irrigation districts, reclamation districts, public power and irrigation districts, mutual irrigation companies, canal companies, and municipalities that rely on water from basin

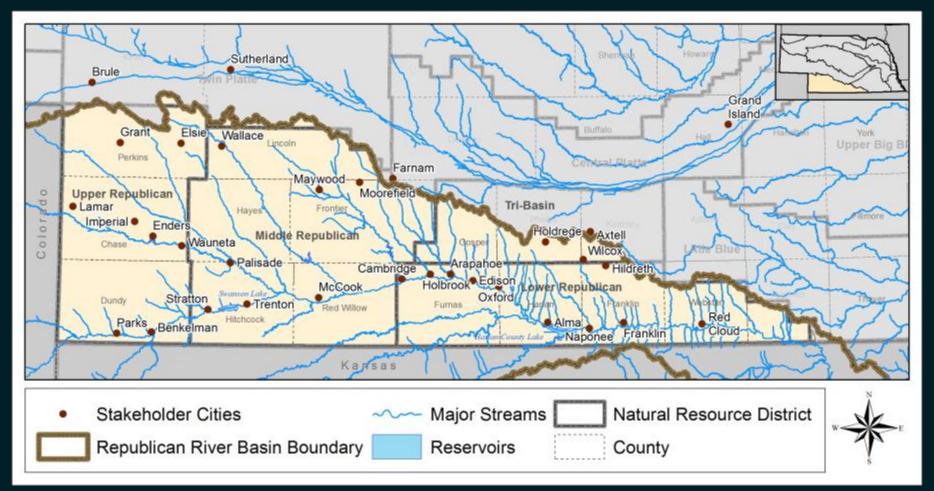
 Invitation letters were sent to these entities

Solicitations were advertised in several local newspapers across the NRDs and the OWH



Group	Representation
Ground water user	19
Range/Livestock	7
Municipalities	5
Agribusiness	6
Irrigation District	3
Other surface water user	3
Education	2
Banker	2
Former NRD	2
Conservationist	2
Other Irrigator	1
NGPC	1
Reclamation District	1
Interested party	1
Landowner	1
Public power district	1
Recreation	1

Basin Representation





Summary of Stakeholder Advisory Committee Role

Collaborative partners in plan development

Members represent various interest groups

>Members are geographically representative of the basin area



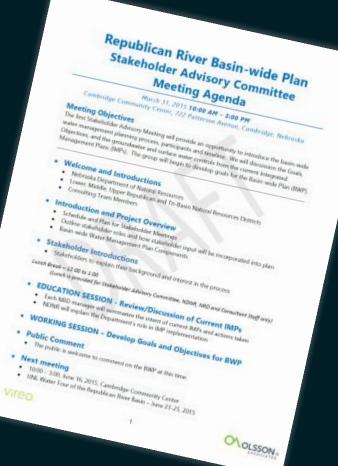
Stakeholder Advisory Committee Meetings

Collaboration and consensus process
4 hour meetings, every other month

Morning – logistics and education
Afternoon – working session

Meetings open to the public
5 meetings conducted in March,

June, and August 2015 and
January and March 2016





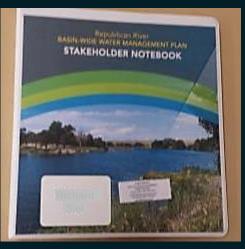
Tools and Techniques for Input

Whole group discussions
Breakout groups
Online Surveys
Stakeholder notebook









Education and Information Exchange Sessions

- Introduction to rolesCurrent affairs
- Background information
 - Nebraska Statutes
 - Basin-wide plans
 - o GMPs vs. IMPs vs. BWPs
 - Overview of NRD's IMPs
 - History of RR Compact
 - Hydrologic overview and trends
- - Other Hydrology such as the connection between streamflow, aquifers, and groundwater pumping
 - Overview of interbasin transfers
 - Bureau of Reclamation projects



Stakeholder Workshops

Basin-wide plan goals, objectives, and action items
 Identification of Stakeholder Advisory Committee priorities
 Draft

- Discussion of online survey feedback
- Perceptions on the state of the basin
- Discussion on best management practices
- Information/Education needs
- Sustainability survey



FUTURE OUTLOOK

Stakeholder Advisory Committee collaboration continues through plan development.



Future Stakeholder Meetings

Refining goals, objectives, and action items

Identifying possible solutions – such as BMPs, conjunctive management projects

Detail measurable objectives and timeframes for completion





Want to know more?

Republican River BASIN-WIDE WATER MANAGEMENT PLAN

WHAT'S GOING ON? Project Description WHO'S INVOLVED? Stakeholders and Partners WHERE? Basin Description & Resources WHAT IS THE SCHEDULE? Project and Meeting Schedule HOW CAN I PROVIDE INPUT? Public Involvement

Further information on the stakeholder meetings including agendas, meeting minutes, and presentations: dnr.nebraska.gov/RRBWP/



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THANK YOU

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