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Basin-Wide Planning in Nebraska

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Nebraska Department of Natural Resources



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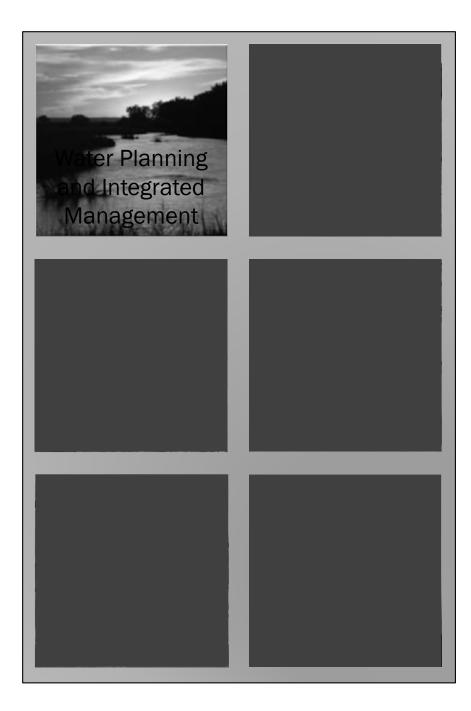
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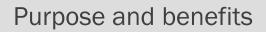
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Outline

Basin-wide planning in Nebraska



Characteristics

Current basin-wide plans

Discussion



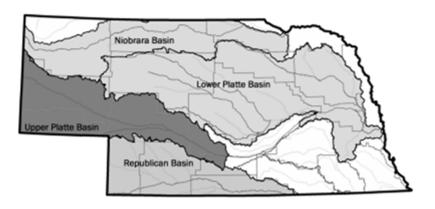
PURPOSE AND BENEFITS

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

- Management of hydrologically connected surface water and groundwater resources
- NDNR & all NRDs within a basin

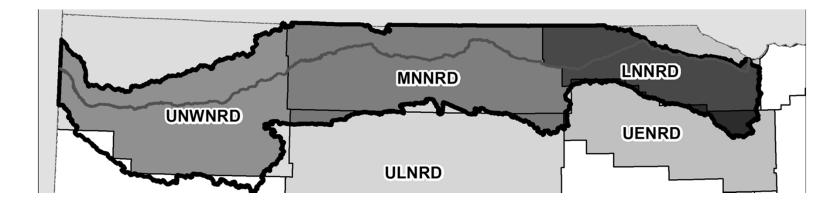






Basin-wide planning, benefits

- ➤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
 - Address connectivity between NRDs
 - Manage cross-boundary issues and opportunities

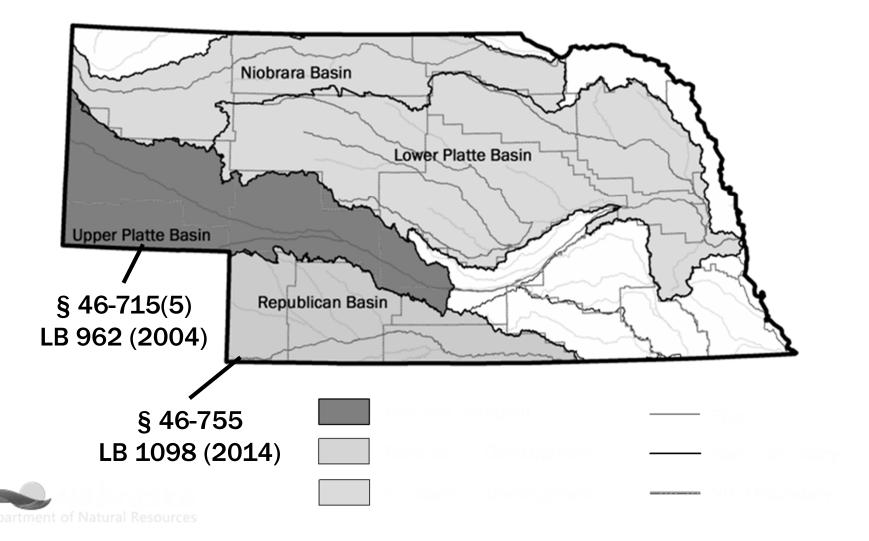




CHARACTERISTICS

Basin-wide planning is a **collaborative**, **adaptive management** approach to managing a basin's water resources

Basin-wide plans may be required by statute or voluntary



Basin-wide plans are collaborative

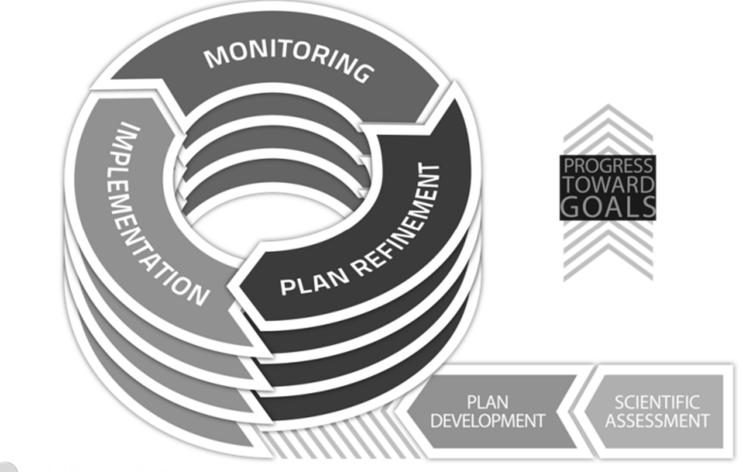
- Plan Development

 NDNR + basin NRDs
 Stakeholders
 (collaboration mandated
 for required plans)
- Plan implementation
 NDNR + basin NRDs





Basin-wide plans use an adaptive management approach



Department of Natural Resources

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

Consistent among basin NRDs

More of a general framework

Integrated management plans

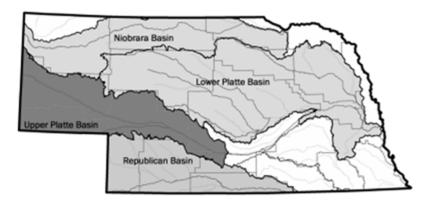
- >1 NRD & NDNR
- Goals, objectives, & controls
 - Tailored to local issues and opportunities
 - Specific to one NRD
 - More specific



Basin-wide plans complement IMPs

REPORTING GUIDELINES DATA EICHANGE GUIDELINES DATA COLLECTION GUIDELINES CONSISTENCY CROSS-BOUNDARY TRANSFERS REGIONAL WATER SOUNDARY TRANSFERS REGIONAL WATER SOUNDARY TRANSFERS COMMUNICATION CROSS-BOUNDARY PROJECTS





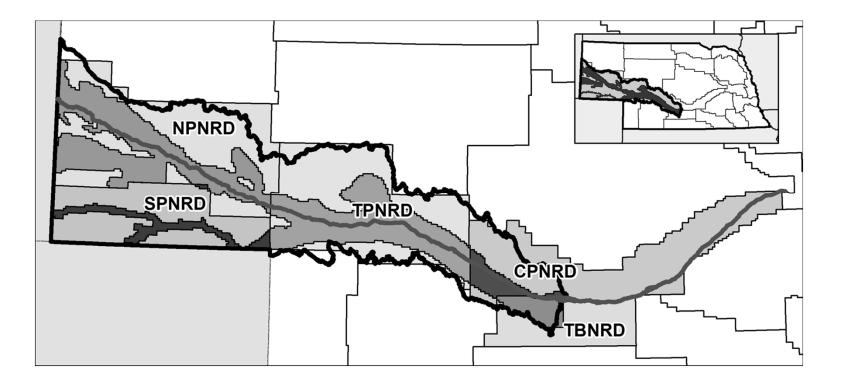
CURRENT BASIN-WIDE PLANS

Each of the state's four basin-wide planning processes is unique, reflecting both **differing statutory requirements** and each basin's **distinct challenges and opportunities**



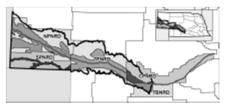
Platte Overappropriated Area basin-wide plan Plan overview

≻Required by LB 962 (2004)





Platte Overappropriated Area basin-wide plan Statutory requirements, § 46-715(5)



Use consultation and collaboration approach

- o Stakeholders representing specific interests
- Agreement by all parties OR by NDNR/NRDs OR by Interrelated Water Review Board

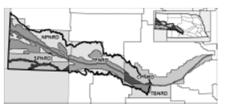
Develop IMPs concurrently

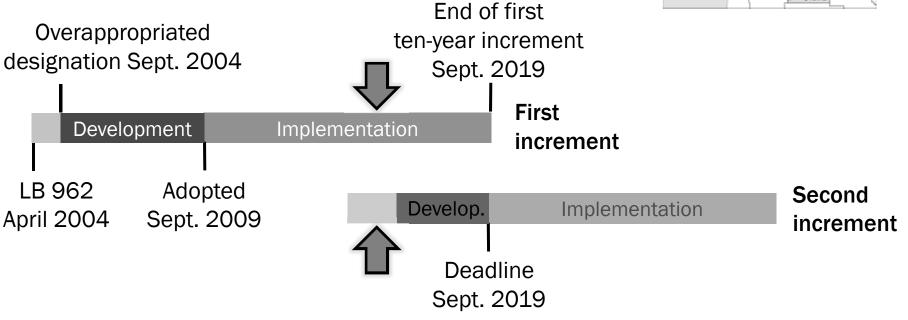
- Identify the difference between current and fully appropriated levels of development
- Adopt an incremental approach
 - o 10 year increments
 - Technical analysis of progress to evaluate whether each subsequent increment is needed



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Platte Overappropriated Area basin-wide plan Status

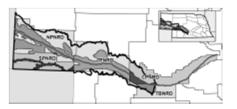




- \checkmark Technical analysis to assess progress towards goals
- \checkmark Draft public participation plan
- \checkmark Facilitator selection in progress
- \checkmark Stakeholder meetings to begin in June



Platte Overappropriated Area basin-wide plan Public involvement

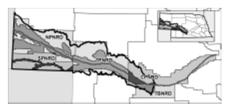


Stakeholder committee must include representatives of: irrigation districts, reclamation districts, public power and irrigation districts, mutual irrigation companies, canal companies, and municipalities that rely on water from basin

≻Meetings are open to the public



Platte Overappropriated Area basin-wide plan First increment plans, IMP/BWP relationship



Basin-wide plan

Goals and objectives
 Consistent among basin NRDs
 More of a general framework
 Defines where we want to get

Creates opportunities for collaboration among NRDs

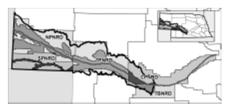
IMPs within the basin

Goals, objectives, & controls

 Specific targets and actions that each NRD will use to meeting the basin-wide plan's goals



Platte Overappropriated Area basin-wide plan First increment plans, IMP/BWP relationship



Basin-wide plan

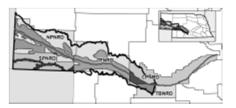
Establish uniform methods for calculating depletions and offsets

IMPs within the basin

Coordinate with the other
 NRDs to develop a
 consistent method of
 calculation that will be
 applied when calculation of
 depletions or accretions to
 the stream are necessary



Platte Overappropriated Area basin-wide plan First increment plans, IMP/BWP relationship



Basin-wide plan

- Identify projects to enhance water supply
- Pursue on a basin-wide level when they will help achieve sustainable levels of supply and use and address water shortages in one NRD that affect more than one NRD.

IMPs within the basin

- Investigate opportunities to reduce consumptive use
- ≻May include but not limited to:
 - Transfer SW appropriations to instream flow
 - Transfer SW appropriations or apply for new for GW recharge
 - Contractual agreements between water users
 - Conjunctive management with SW projects

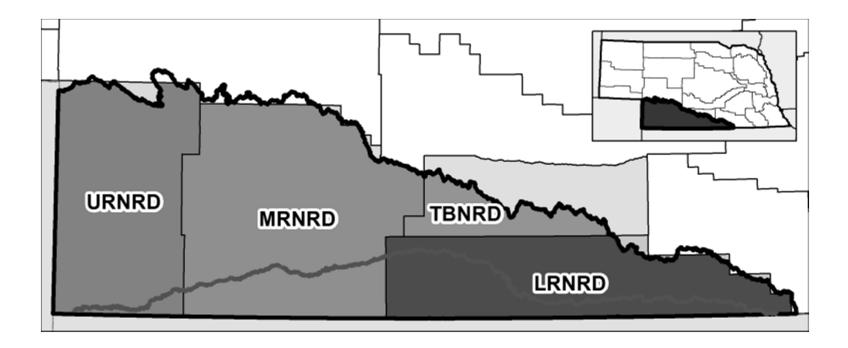


Next: Republican River Basin-wide plan



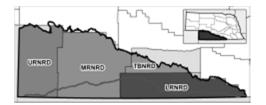
Republican River Basin-wide plan Plan overview

>Required by LB 1098 (2014)





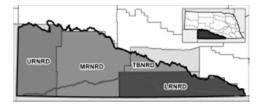
Republican River Basin-wide plan Statutory requirements, § 46-755



- Ensure Compact compliance continues
- >Set forth a timeline to achieve goals and objectives
 - $_{\rm O}$ 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
- Use consultation and collaboration approach
 - Stakeholders representing specific interests
 - o Agreement by all parties OR
 - by NDNR/NRDs OR by Interrelated Water Review Board



Republican River Basin-wide plan IMP/BWP relationship



Basin-wide plan

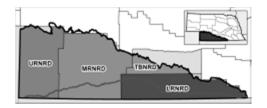
A framework that will apply to all four NRDs within the basin

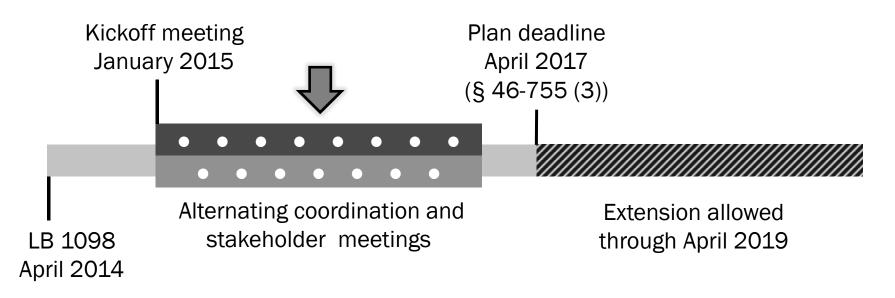
IMPs within the basin

- Must be consistent with the basin-wide plan
- May include additional incentive programs or controls



Republican River Basin-wide plan Status



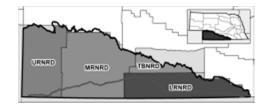


✓ Education about basin hydrology and trends
 ✓ Identification of issues and concerns
 ✓ First draft of goals, objectives, and action items



Republican River Basin-wide plan Public involvement

- Stakeholder Advisory Committee
 - o 47 members
 - 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
 - $_{\rm O}$ Meetings open to public
- Collaboration and consensus process
- 4 hour meetings, every other month
 o Morning logistics and education
 o Afternoon working session







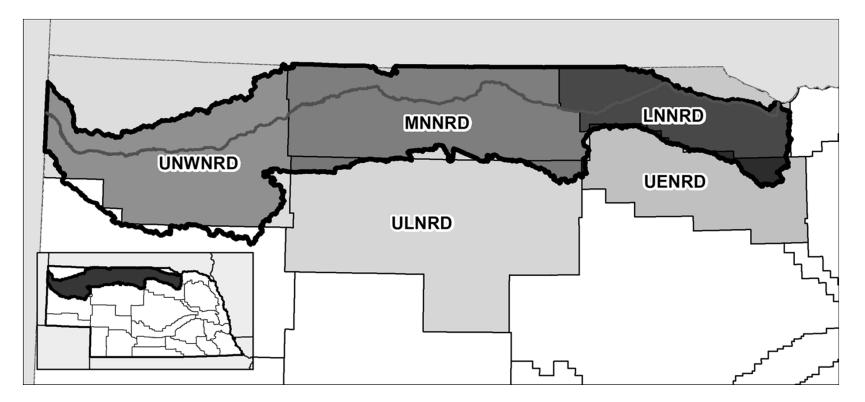


Next: Niobrara River Basin-wide plan



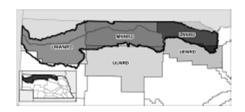
Niobrara River Basin-wide plan Plan overview

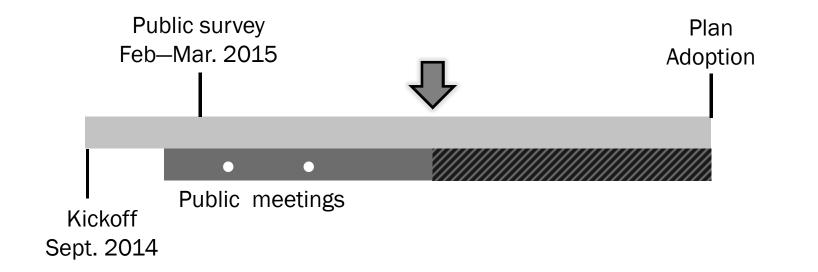
≻Voluntary











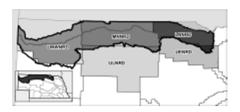
✓ Goals, objectives, and action items ✓ Ready to start writing plan



Niobrara River Basin-wide plan Public involvement

- ➢ Public survey
 - $\circ\,$ To assess public interests and viewpoints about the process and plan
 - o 70 responses
 - 37 private citizens, 16 agricultural producers
 - Respondents expressed a desire for broad participation in the planning process
- ≻Public meetings
 - $_{\circ}$ Open to the public
 - \circ ~ 10–15 participants from the public at each
 - o 2 meetings
 - 1st informational
 - Received information about the plan
 - Took survey
 - 2nd more participatory
 - Provided input on goals and objectives
 - Listened and asked questions







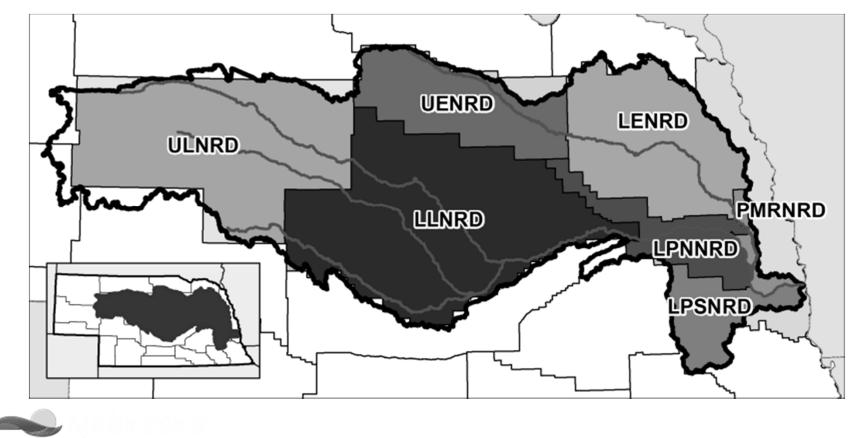


Next: Lower Platte River Basin-wide plan



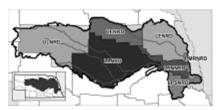
Lower Platte River Basin-wide plan Plan overview

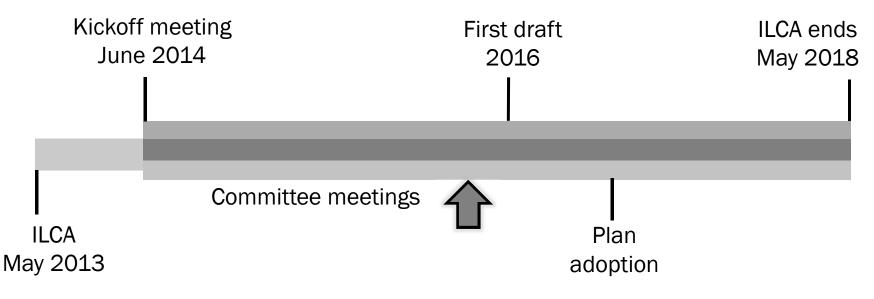
≻Voluntary



Department of Natural Resources

Lower Platte River Basin-wide plan Status

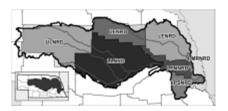




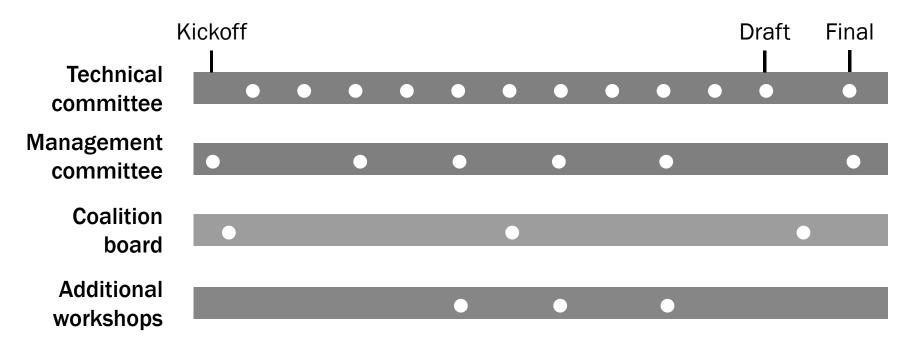
- ✓ Water banking workshops
- ✓ Subbasin workshops
- \checkmark Example conjunctive management and water supply alternatives
- \checkmark Excess flow analysis



Lower Platte River Basin-wide plan Planning meetings

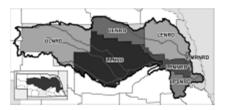


3 levels of management





Lower Platte River Basin-wide plan Representation



NRD board members represent the varied interests in this voluntary basin-wide planning process

➢More than 10 members on each of 7 District Boards, for a Total of 113

>http://dnr.ne.gov/LPRBC



Summary

Basin-wide planning in Nebraska

Purpose and benefits

Characteristics

Current basin-wide plans

Discussion





Department of Natural Resources

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THANK YOU

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