



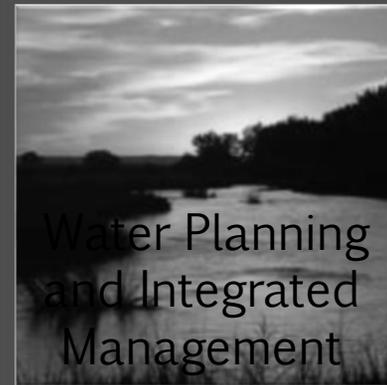
Voluntary Integrated Management Planning Process

Carrie Wiese, IWM Coordinator

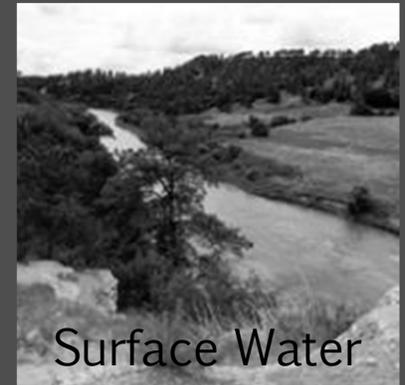




Providing the sound science and support for managing Nebraska's most precious resource.



Water Planning
and Integrated
Management



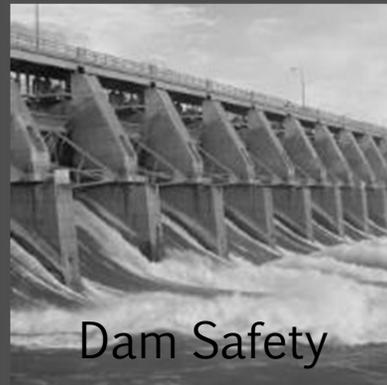
Surface Water



Groundwater



Floodplain
Management

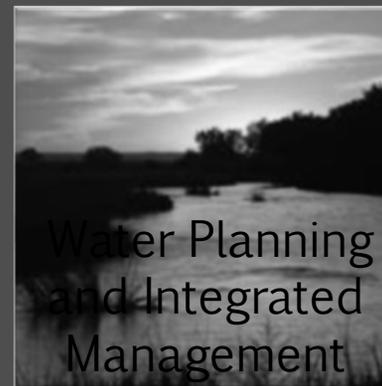


Dam Safety

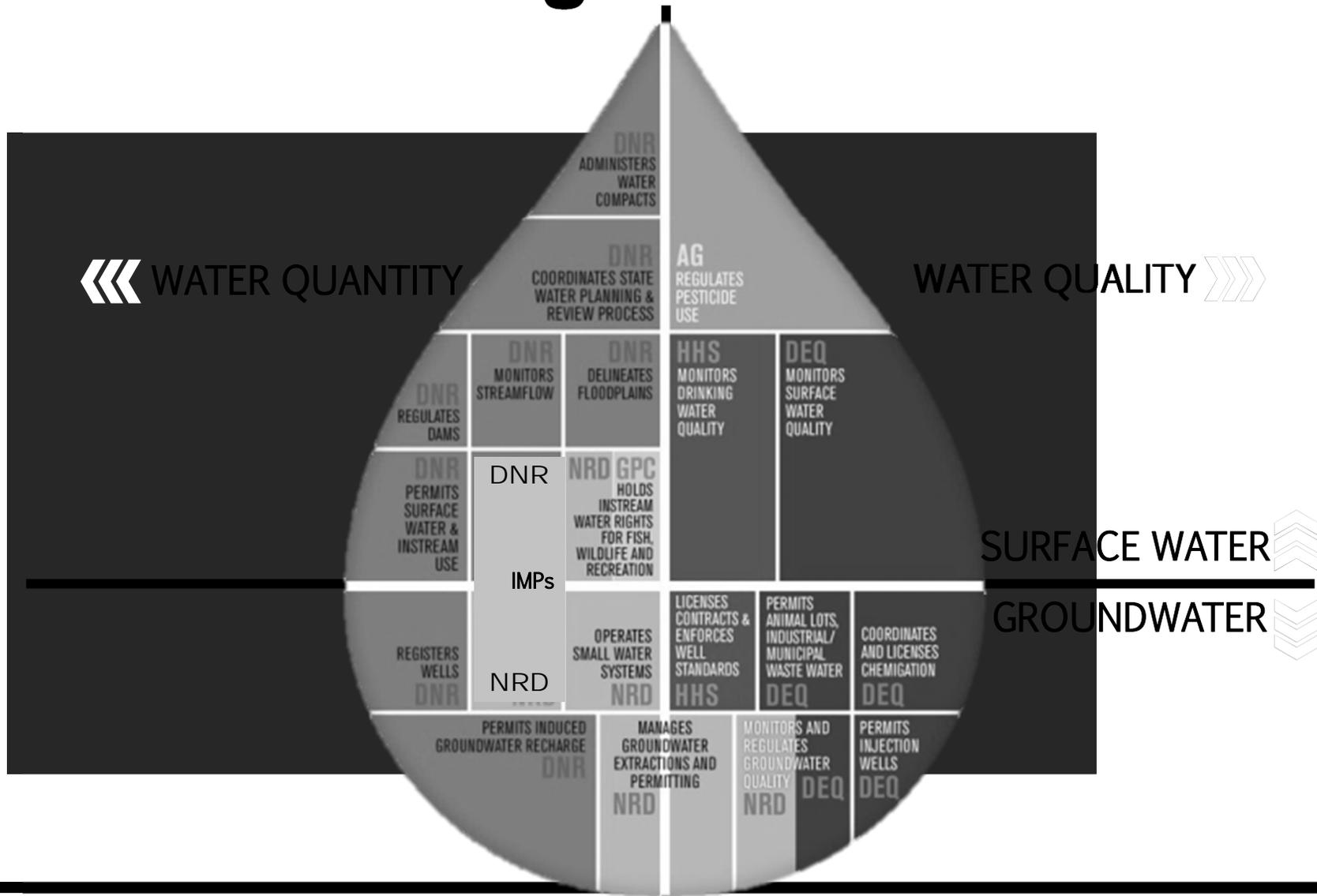




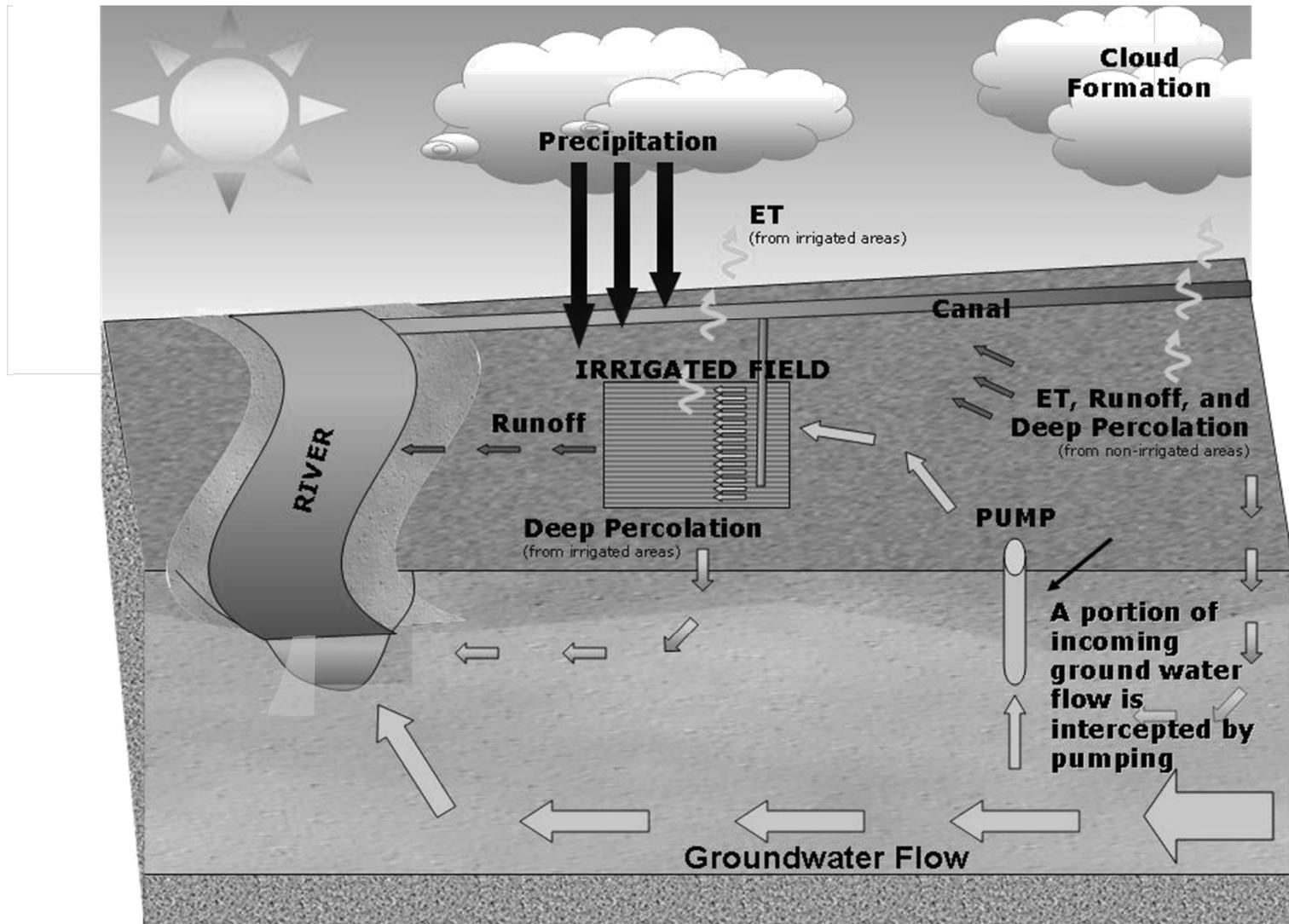
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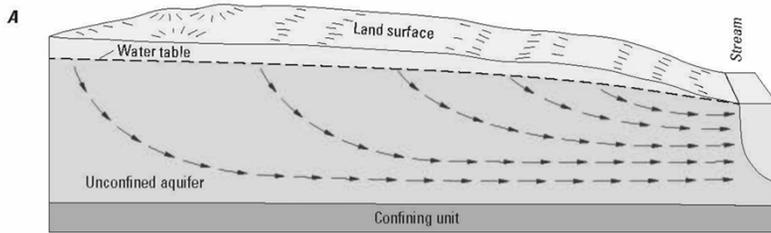
Water Planning in Nebraska



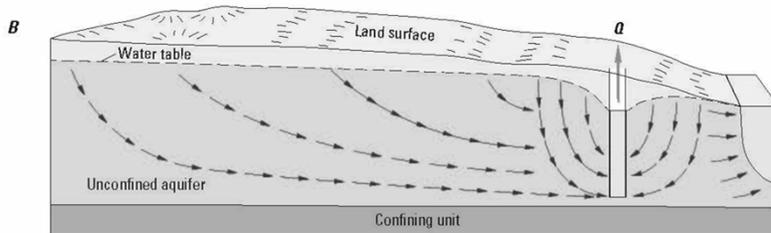
Hydrogeology 101



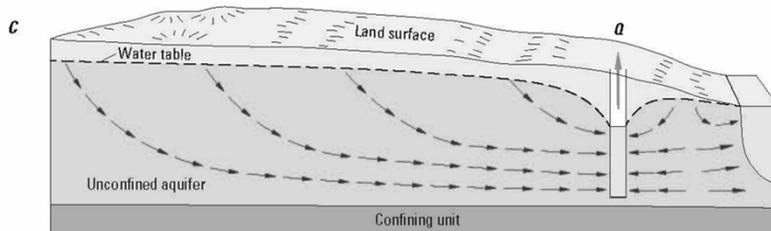
Hydrogeology 101



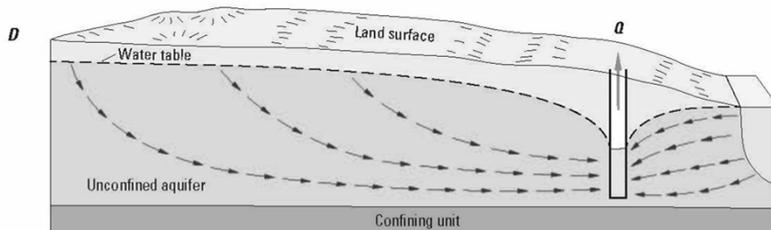
A. Pre-development Conditions



B. Pumping from aquifer storage



C. Interception of groundwater baseflow



D. Interception of groundwater baseflow and induced infiltration

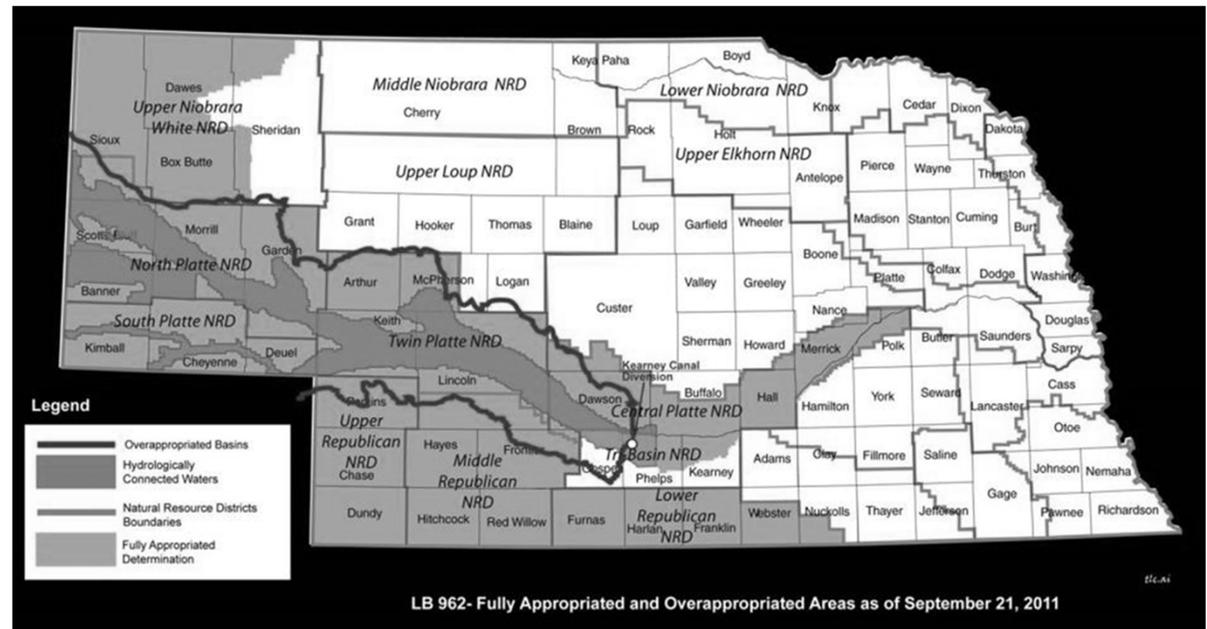
Integrated Management Planning: What is it?

- Surface water and groundwater management
- Proactive
- Protects existing users
- Adaptive management
- Jointly developed between NRD and NeDNR
- Suited to local conditions



IMP Statutory History

- 2004 - LB962
 - IMP required if fully or overappropriated
 - No mechanism for voluntary IMPs
- 2010 - LB764
 - Authorized voluntary IMPs
- 2014 - LB1098
 - Water Sustainability Fund



Why Do A Voluntary Integrated Management Plan?

- Better planning to prevent fully appropriated status
- Proactive approach to water management
- Local buy-in leads to more effective water management
- Eligibility for the Water Sustainability fund
- Multi-faceted education process
- Flexible – Adaptive Management



Integrated Water Management

IMPLEMENTATION

Water Management
Projects

Strategic Planning Actions

PLANNING
AND PUBLIC
PARTICIPATION

Goals and Objectives
for Water Planning

Stakeholder Involvement

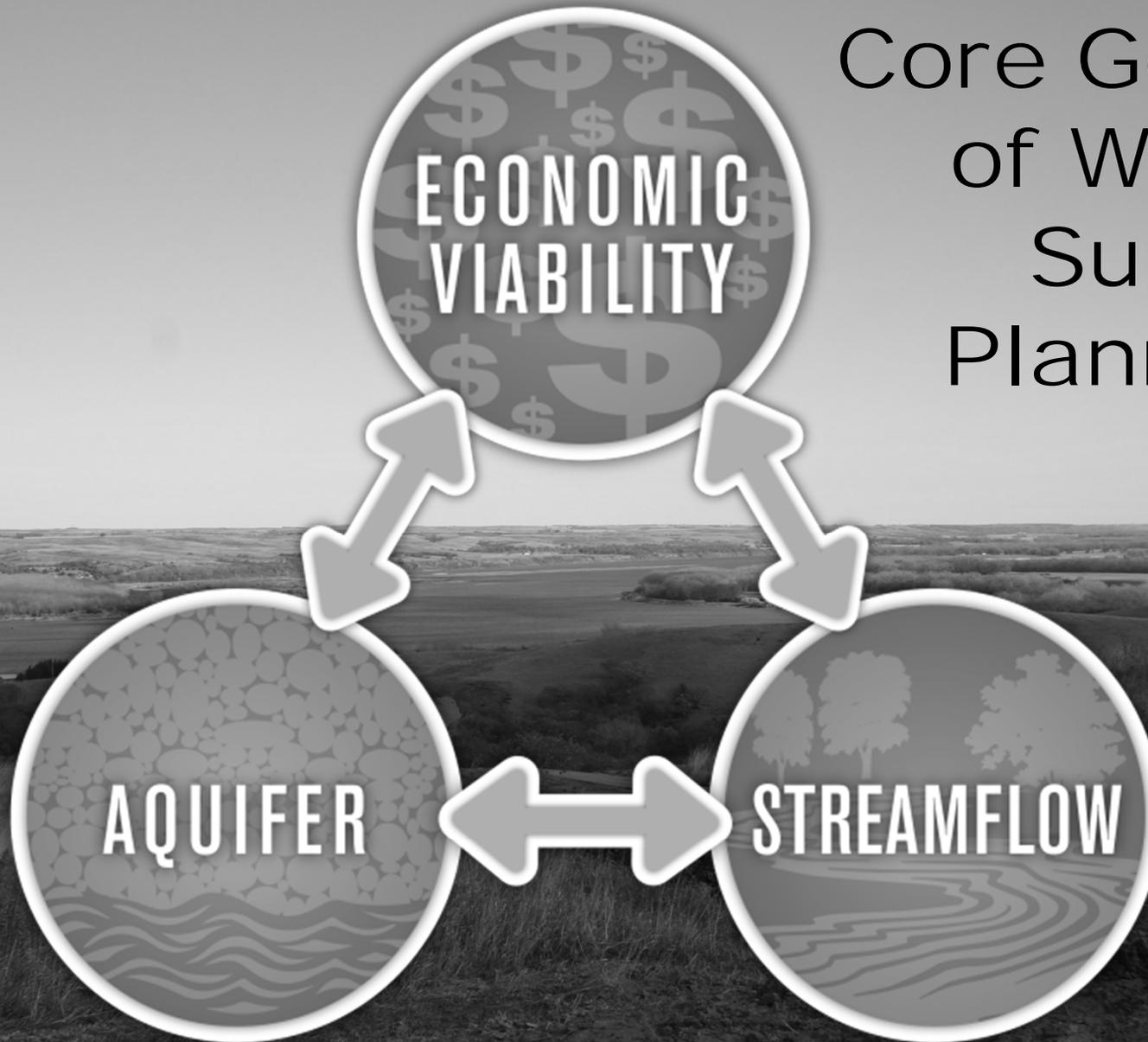
Water Availability and Water
Shortages

Water Supplies and Water Uses

SCIENCE

Hydrologic Models, Data, and Analyses

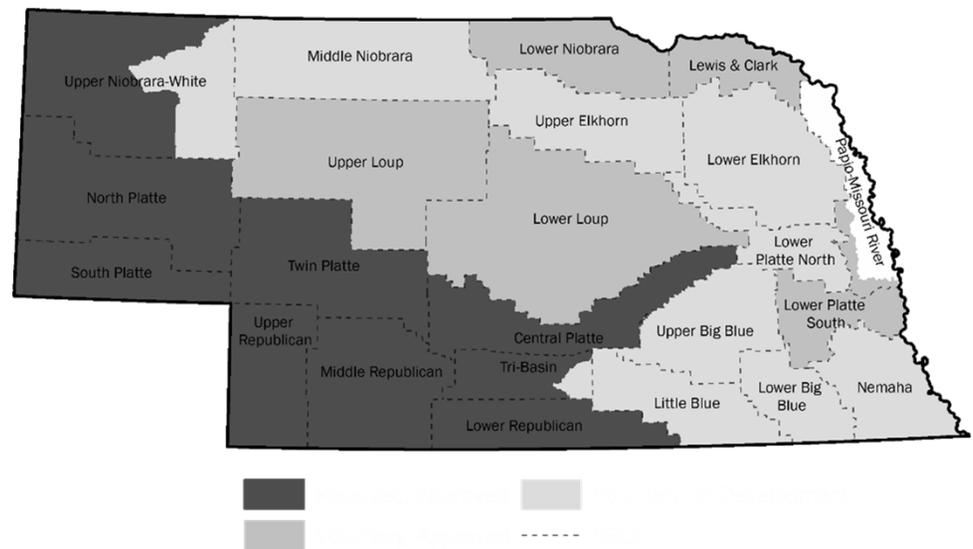
Core Goals of Water Supply Planning



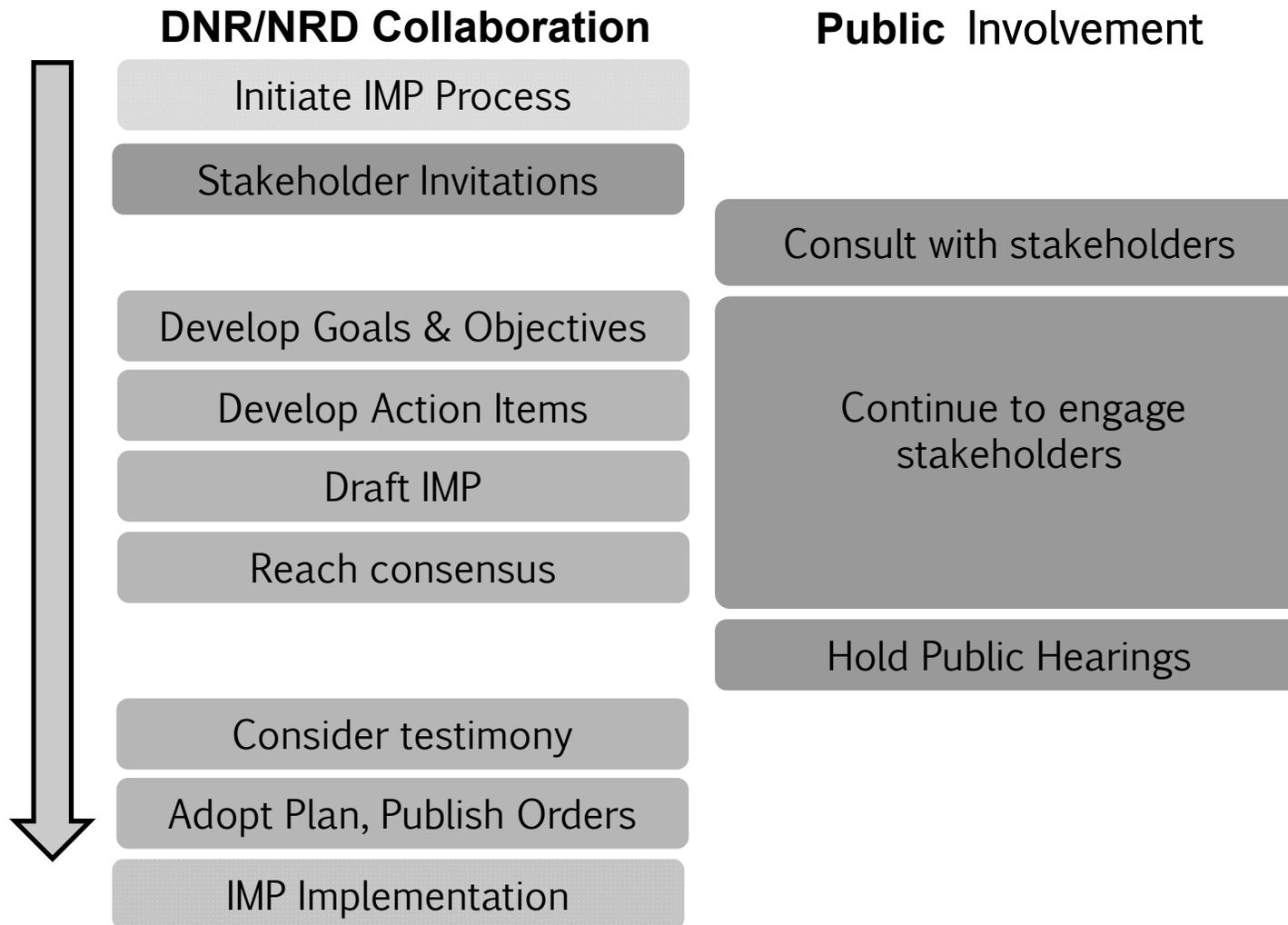
Integrated Management Planning is a Collaborative Process

- ✓ NeDNR + a Natural Resources District (NRD)
 - IMP development
 - Plan implementation

- ✓ Stakeholder input



IMP Development Process



Stakeholder Roles

- Convey local water issues/concerns
- Guide development of goals and objectives
- Disseminate information to local groups about IMP
- Attend meetings



Requirements for Stakeholder Representatives and Comment

- Representatives of:
 - ✓ Irrigation districts
 - ✓ Public power and irrigation districts
 - ✓ Reclamation districts
 - ✓ Mutual irrigation and canal companies
 - ✓ Municipalities
 - ✓ Other water users as deemed appropriate
- Consult with the above groups, and actively solicit public comments, opinions through public meetings and other means; Pursuant to Neb. Rev. Stat. § 46-717(2)



NRD/Department Roles

- Acquire/disseminate information/data needed for stakeholder process
- Help formulate goals and objectives with stakeholders
 - Coordinate with each other, stakeholders, facilitators throughout IMP process
 - Help determine/convey feasible actions for plan implementation
 - Write the Integrated Water Management Plan



Voluntary Integrated Management Plan Components

- Required components
 - Goals/Objectives
 - Purpose to achieve and sustain a balance between uses and supplies
 - Map of geographic area
 - One or more GW controls (§ 46-739)
 - One or more SW controls (§ 46-716)
 - Monitoring program
- Additional components
 - Action items to achieve goals/objectives
 - Evaluation and review process
 - Education and outreach plan
 - Incentive programs



IMP Implementation

- Action Items
- Monitoring Program
 - Tracking action items in context of achieving goals & objectives
- Evaluation
 - Are action items achieving desired goals?
 - Are water supply and demand changing?
 - Have goals changed?
 - Has fully appropriated status changed?
- Adaptive Management





301 Centennial Mall South, 4th Floor
PO Box 94676
Lincoln, NE 68509-4676
402-471-2363

