



Modification of Department Rules for Conducting its Annual Basin Evaluations

December 10th, 11th, and 15th

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Department of Natural Resources

Outline

- Timeline of Events to Date
- Rule Components and Evaluation Process
- Results of June 2014 Survey
- Timeline for Moving the Process Forward

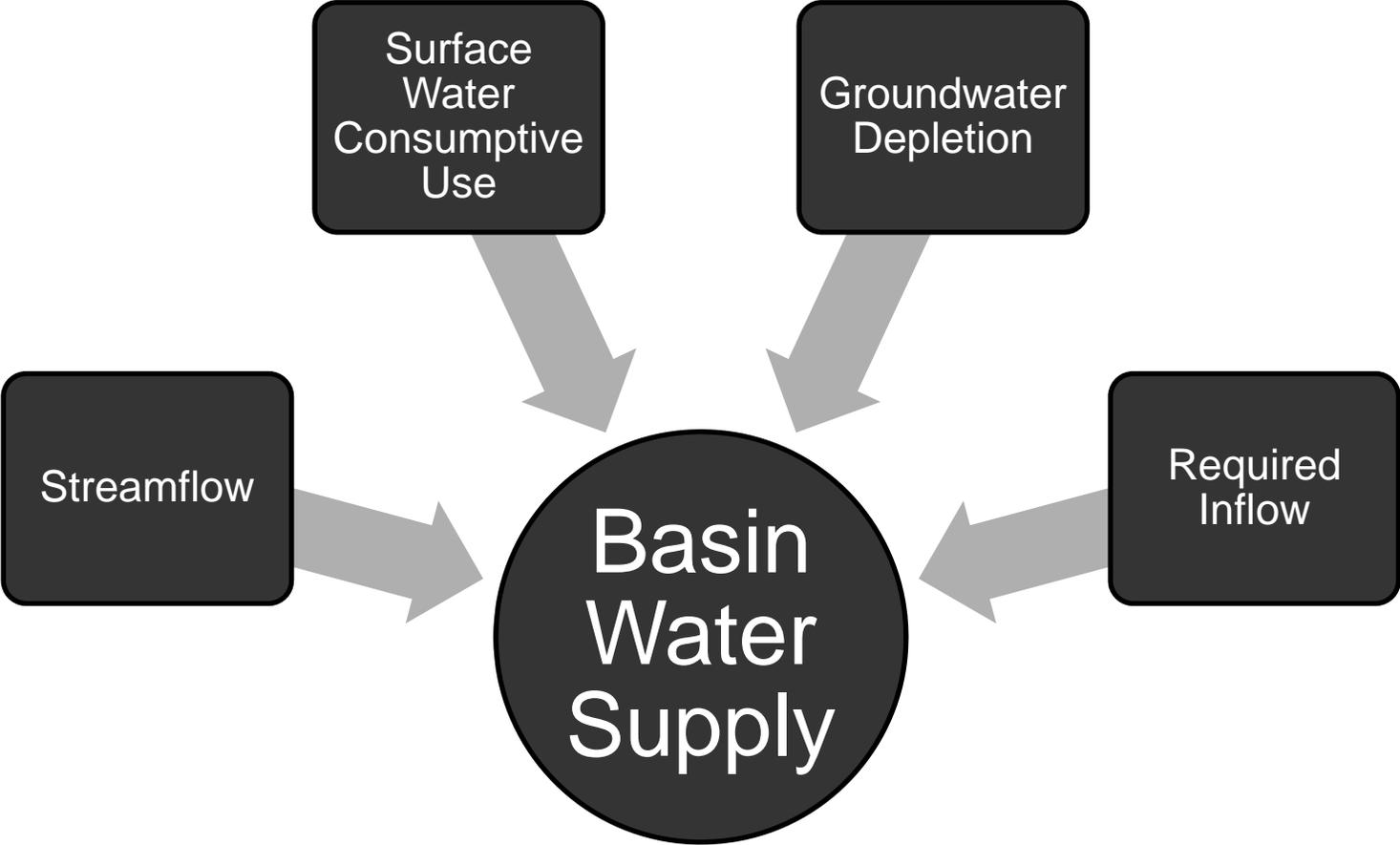
Timeline

- 2009 Upper Platte IMP's Adopted
- 2010 – 2012 new rule concepts developed
- 2013 release of draft rules and public hearing
- 2014 survey of stakeholders and release of new draft rules
- <http://www.dnr.nebraska.gov/iwm/timeline-for-assessment-and-potential-modification-of-department's-rules-related-to-its-determination-of-fully-appropriated-basins-subbasins-or-reaches>

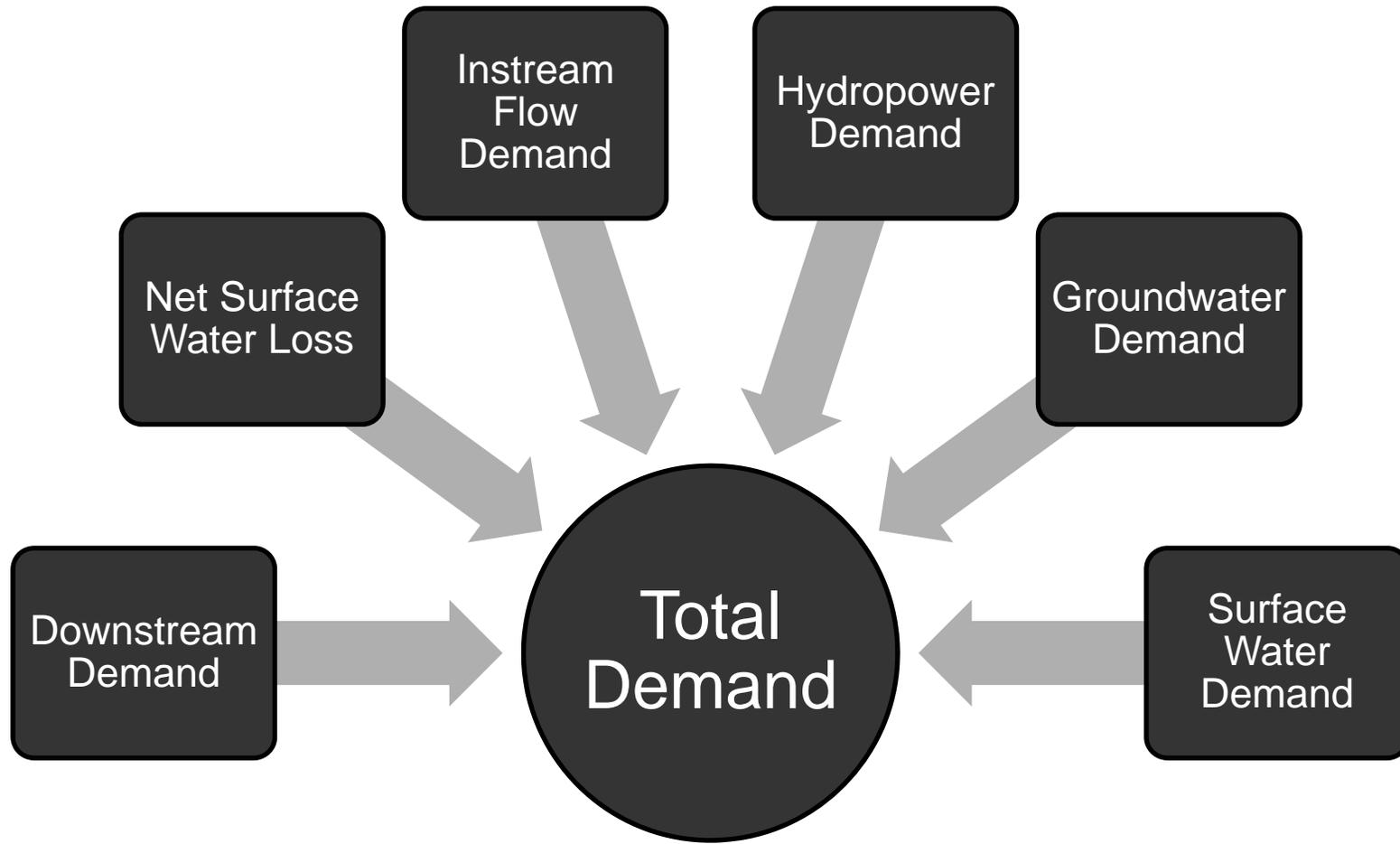
Rules Concepts

- Basin Water Supply (BWS)
- Total Demand (TD)
- Representative Period (25 years)
- Near-Term/Long-Term Balance
- IMP role in final determination

Components of Basin Water Supply (BWS)



Total Demand (TD)



Near-Term and Long-Term Balance

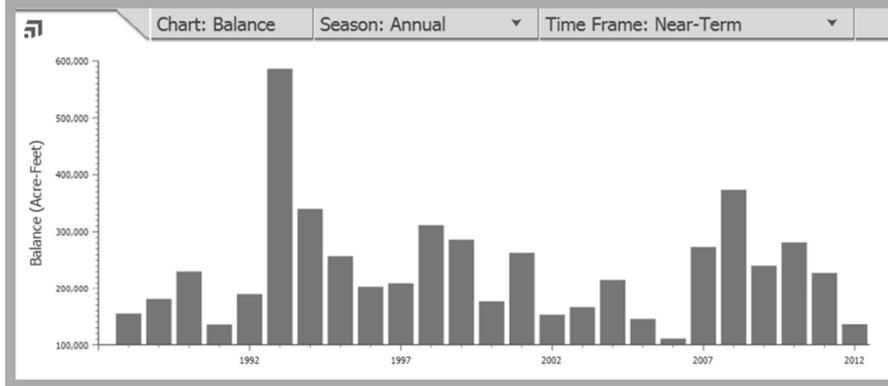
Explore the Little Blue Basin

Use this page to explore hydrologic data for the Little Blue Basin in the tab area below. Hydrologic data at the basin level are presented below in each tab by big picture, supplies, demands, nature and extent of use, and balance.

Navigate to another basin by selecting one from the drop-down list or use the back button in your browser to reach the statewide map to click on another basin in the map.



Basin Overview Big Picture Supply Demand Nature & Extent of Use Balance

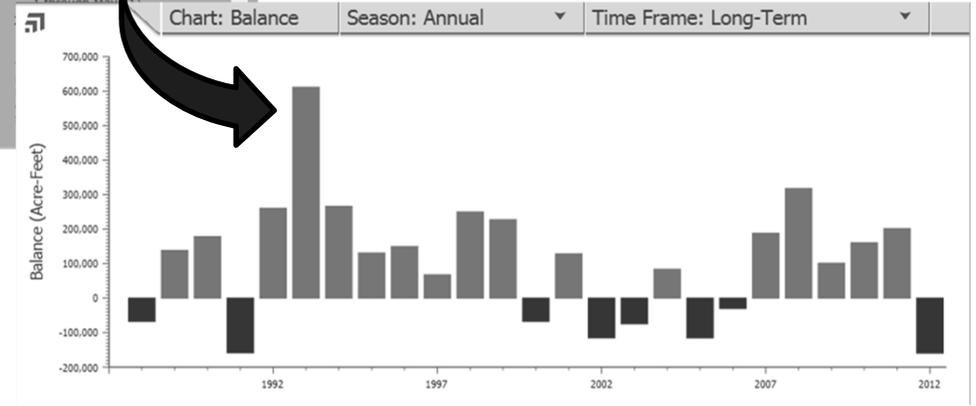


Balance

INSIGHT provides data to evaluate the near-term and long-term water supplies of a basin or subbasin. Once the water supply and total use are determined for each basin, a comparison can be made to determine the balance. To recognize the impact that may have on the ability to supply to meet water demand, comparison is done over two time periods in a given year:

1. non-peak - i.e. non-irrigation season (September

25-Year Representative Period



IMPs Role in Determination

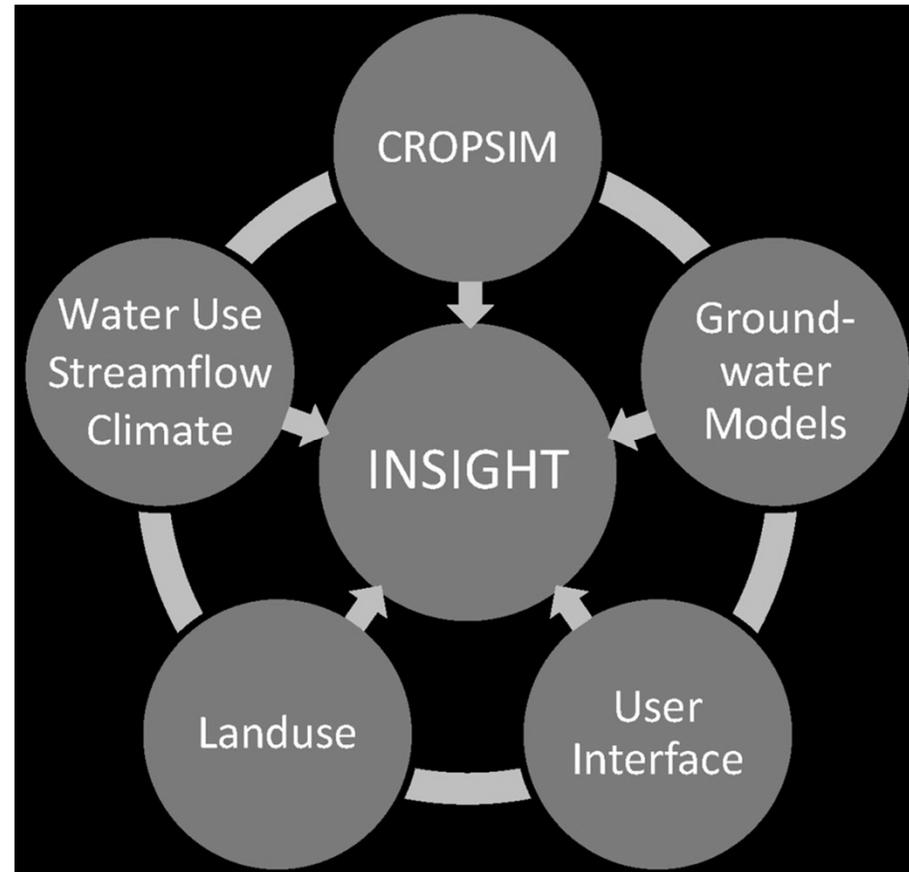
- FAB Report serves as preliminary determination
- Information reviewed after the preliminary determination includes the status of current planning processes
- Final determination can reach different conclusion if planning is able to provide equivalent protection to existing uses

Survey Results

Comparison of Current Rules to Future Preference for Rules	Current Rules	Future Rules
	Mean	Mean
The current rules use the best available hydrologic science to determine water availability	2.58	4.48
The current rules address critical supply and demand issues	2.42	4.20
The current rules support water planners and guide future actions	2.68	4.36
The current rules address water supply problems before they are critical	2.77	4.40
The current rules are unambiguous	2.75	4.32
The current rules initiate water planning processes to prevent conflicts	2.62	4.16

Survey Results

- The rules should use the best available hydrologic science to determine water availability
- Water Supplies
 - Basin water supplies
 - GW depletions
 - SW depletions
 - Streamflow
- Water Uses/Demands
 - Meter data
 - Diversion records
 - Climate data
 - CROPSIM outputs
 - Water administration data
 - Landuse data
 - And more...



Survey Results

- The rules should address critical supply and demand issues
 - New rules assess all current hydrologically connected water use
 - New rules assess focus areas for more targeted management

- The rules should support water planners and guide future actions
 - New rules directly link to planning framework
 - IMPs contain new methods for monitoring

Survey Results

- The rules should address water supply problems before they are critical
 - New rules lead to more proactive determinations
 - New rules look at all hydrologically connected water demands
- The rules should be unambiguous
 - New rules have greater definition of key terms
 - New rules allow for collaboration on key data used

Survey Results

- The rules should initiate water planning processes to prevent conflicts
 - New rule link to voluntary IMPs and basin planning
 - New rules directly link to planning framework
 - IMPs contain new methods for monitoring

Process Looking Forward...

- Public Comments Accepted Through December 31, 2014
- Department review of comments and send out final draft rules for public hearing (Spring 2015)
- If new rules implemented basin evaluations and OA/FA determination utilize those methods next year
- If new rules are not implemented current rule continued to be utilized for basin evaluations and OA/FA determination



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