

# Republican River Basin Update

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# Outline

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- ❑ Three-states discussions
- ❑ IMP modifications
- ❑ Forecast (2016)

# Three-States Discussions

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## □ October 2015 Meeting

- Work-Plan for Long-term Agreement
- Draft Bostwick Irrigation Districts MOA changes

## □ November 2015 Meeting

- Draft Bostwick Irrigation Districts MOA changes
- Discussion with Bostwick Irrigation Districts
- Adoption of amended resolution

# IMP Modifications

Why the IMP Modifications?

- United States Supreme Court ruling changed methods for accounting for groundwater depletions
- Recent agreements with Kansas provide augmentation crediting and more flexible delivery

# IMP Modifications

## What Was Modified?

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- Inclusion of definitions of key terms
- Improved clarification of Compliance Standards
- GW controls for regulatory backstop
- SW controls for Compact water administration
- Monitoring section for additional updates and management action steps
- Modification process improvements

# IMP Modifications

## Compliance Standards and Controls

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- The Compliance Standards are unchanged
- Greater definition of the Compliance Standard purpose is incorporated
- GW Controls include new regulatory backstop (Option 2)
- SW Controls include new control aimed at greater flexibility in water administration (Reduce the need for Compact water administration)

# IMP Modifications

## New Forecast Approach

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- December 31<sup>st</sup> Compact Call Forecast Volume (method largely unchanged)
- June 1<sup>st</sup> KBID water supply target (40,000 ac-ft)
- October 1<sup>st</sup> Compact Compliance Volume
- December 31<sup>st</sup> Actual Compact Compliance Volume
- Carry-forward of “credits/debits” for each NRD

# 2016 Dry-Year Forecast

Year	Item	Information Source
Forecast Year T + 1 (Coming Irrigation Season)	Groundwater Consumptive Use and Imported Water Supply Credit	Average values for T = 0 and T - 1
	Surface Water Consumptive Use	Colorado: Average of T - 1 and T - 2 use Kansas: + (.1858 x HCL content) + 9,575 Nebraska: - (4x10 <sup>-7</sup> ) x (NE lake volume) <sup>2</sup> + (0.52) x (NE lake volume) - 42,000
	Streamflow	(5-year average of state line flows) x 0.41 + 0.23 x HCL content - 27,450

**Estimated 2016 Basin-Wide Balance of approximately -35,300AF**



# Guide Rock Annual Balances

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Year	Guide Rock
<b>T = 0 (2015)</b>	<b>-11,100 (preliminary)</b>
<b>T = + 1 (2016)</b>	<b>-35,300 (forecast)</b>
<b>Forecast Balance</b>	<b>-46,400</b>

# NRD Annual Balances

## (2015-2016)

	Annual Balance		
Year	LRNRD	MRNRD	URNRD
2015 (Preliminary)	-8,700	-3,300	900
2016 (Forecast)	-8,200	-8,500	-18,600
2-Year Balance	-16,900	-11,800	-17,700
Management Actions Prior to June 1st	10,900	7,600	11,500

# Thank you

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# Questions?