

Republican River Basin Update

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Department of Natural Resources

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Outline

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

Three-States Discussions

❑ 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?

- 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

- 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

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

2016 Dry-Year Forecast

Year	Item	Information Source
	Groundwater Consumptive Use and Imported Water Supply Credit	Average values for T = 0 and T - 1
Forecast Year T + 1 (Coming Irrigation Season)	Surface Water Consumptive Use	Colorado: Average of T - 1 and T - 2 use Kansas: + (.1858 x HCL content) + 9,575 Nebraska: - (4x10 ⁻⁷) x (NE lake volume) ² + (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

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

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

Questions?



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