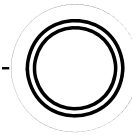


# Republican River Basin IMP Modifications



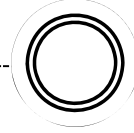
**OCTOBER 5, 2015**

**JESSE BRADLEY**

**NEBRASKA DEPARTMENT OF NATURAL  
RESOURCES**

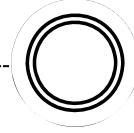
**UPPER REPUBLICAN NATURAL RESOURCES  
DISTRICT STAKEHOLDER MEETING**

# OUTLINE



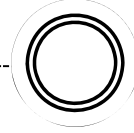
- **Why are the Modifications Necessary**
- **What are the Modifications**
- **How are the Compliance Standards and Controls Affected**
- **Next Steps**

# Why the Modifications?



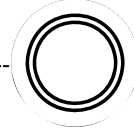
- United States Supreme Court ruling changed methods for accounting for groundwater depletions
- Recent agreements with Kansas provide augmentation crediting and more flexible delivery

# What is being Modified?



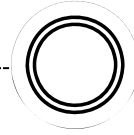
- Inclusion of definitions of key terms
- Improved clarification of Compliance Standards
- GW controls for regulatory backstop
- SW controls for Compact water administration
- Monitoring section for additional updates and management action steps
- Modification process improvements

# How are the Compliance Standards and Controls Affected?



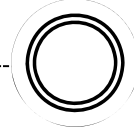
- The Compliance Standards are **unchanged**
- Greater definition of the Compliance Standard purpose is incorporated
- GW Controls include new regulatory backstop (**Option 2**)
- SW Controls include new control aimed at greater flexibility in water administration (**Reduce** the need for Compact water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

## Next Steps



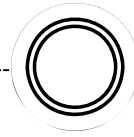
- Three stakeholder meetings (one in each NRD)
- Likely public hearing in November
- If jointly approved, adoption in December
- Implementation for this years forecast

# Key Elements of New Forecast Approach



- **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**

# Comparison

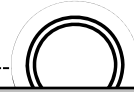


## CURRENT IMP/NEW CONCEPT

	URNRD	MRNRD	LRNRD
2016 Mitigation Current IMP	17,476	18,422	14,082
2016 New Concept Example	13,292	9,577	7,121
Difference (Additional Mitigation Required Under Current IMP)	4,184	8,845	6,961



# December 31<sup>st</sup> Forecast



## CURRENT CONCEPT

Distribution Percentages		URNRD	MRNRD	LRNRD	
		44.0%	30.0%	26.0%	
Total Forecast Allowable (same as current method)		138,104			
Forecast Depletion by NRD (same as current method)		78,242	59,873	49,989	
		URNRD	MRNRD	LRNRD	
	Forecast Allowable	60,766	41,431	35,907	
	Forecast Depletion	78,242	59,873	49,989	
	Forecast Mitigation	-17,476	-18,422	-14,082	
Total Forecast Mitigation(Dec. 31st)			-50,000		

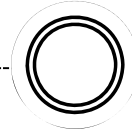
# December 31<sup>st</sup> Forecast

## NEW CONCEPTS

Distribution Percentages		URNRD	MRNRD	LRNRD	
		43.9%	30.8%	25.3%	
Total Forecast Allowable (Updated accounting)		138,104			
Forecast Depletion by NRD (Updated accounting)		78,242	54,873	44,989	
		URNRD	MRNRD	LRNRD	
	Forecast Allowable	60,670	42,549	34,885	
	Forecast Depletion	78,242	54,873	44,989	
	Forecast Mitigation	-17,572	-12,324	-10,104	
Total Forecast Mitigation(Dec. 31st)			-40,000		

# June 1<sup>st</sup> KBID Target Water Supply

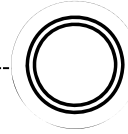
**NEW CONCEPT**



		URNRD	MRNRD	LRNRD		
<b>Assumes 2/3 of the total mitigation is necessary prior to June 1st to meet Resolution requirements</b>		<b>-11,773</b>	<b>-8,257</b>	<b>-6,770</b>		
<b>Total Mitigation</b>			<b>-26,800</b>			

# October 1<sup>st</sup> Compact Compliance Volume

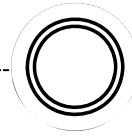
**NEW CONCEPT**



<b>Compact Compliance Volume Shortfall (Early Estimate of Actual Accounting)</b>		<b>-3,200</b>	<b>Reduced Mitigation Requirement by 10,000 ac-ft from the Forecast</b>	
		<b>URNRD</b>	<b>MRNRD</b>	<b>LRNRD</b>
		<b>43.9%</b>	<b>30.8%</b>	<b>25.3%</b>
	<b>Additional Necessary Mitigation for Compliance</b>	<b>-1,406</b>	<b>-986</b>	<b>-808</b>
<b>Mitigation Prior to June 1<sup>st</sup></b>		<b>-11,773</b>	<b>-8,257</b>	<b>-6,770</b>
<b>Total Mitigation for the Year</b>		<b>-13,179</b>	<b>-9,243</b>	<b>-7,578</b>
<b>Total Mitigation</b>		<b>-30,000</b>		

# December 31<sup>st</sup> Compact Compliance Volume

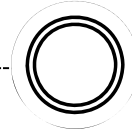
**NEW CONCEPT**



<b>Actual Mitigation Necessary by District (December 31st)</b>			
<b>Total Actual Compact Balance less Credits</b>	<b>-30,000</b>		
	<b>URNRD</b>	<b>MRNRD</b>	<b>LRNRD</b>
<b>Actual Depletion (by NRD)</b>	<b>80,242</b>	<b>57,873</b>	<b>42,989</b>
<b>Actual Depletion Distribution Percentage</b>	<b>44.3%</b>	<b>32.0%</b>	<b>23.7%</b>
<b>Actual Balance by NRD (no credits)</b>	<b>-13,292</b>	<b>-9,587</b>	<b>-7,121</b>
<b>Total Credits by NRD</b>	<b>13,179</b>	<b>9,243</b>	<b>7,578</b>
<b>Actual Balance by NRD</b>	<b>-113</b>	<b>-334</b>	<b>457</b>

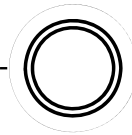
# Credit/Debit Carry Forward

**NEW CONCEPT**



	<b>URNRD</b>	<b>MRNRD</b>	<b>LRNRD</b>
<b>2016 Balance (no carry forward credit/debit)</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>2016 Carry Forward Credits/Debits</b>	<b>-113</b>	<b>-334</b>	<b>457</b>
<b>Forecast 2017 Forecast Balance</b>	<b>-13,000</b>	<b>-9,000</b>	<b>-7,500</b>
<b>Forecast Total Mitigation for 2017</b>	<b>-13,113</b>	<b>-9,334</b>	<b>-7,043</b>

# Questions



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