

Republican River Basin IMP Modifications



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**NEBRASKA DEPARTMENT OF NATURAL
RESOURCES**

**LOWER 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 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**

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 31st 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 31st 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 1st KBID Target Water Supply

NEW CONCEPT



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

October 1st Compact Compliance Volume

NEW CONCEPT



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

December 31st Compact Compliance Volume

NEW CONCEPT



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

Credit/Debit Carry Forward

NEW CONCEPT



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

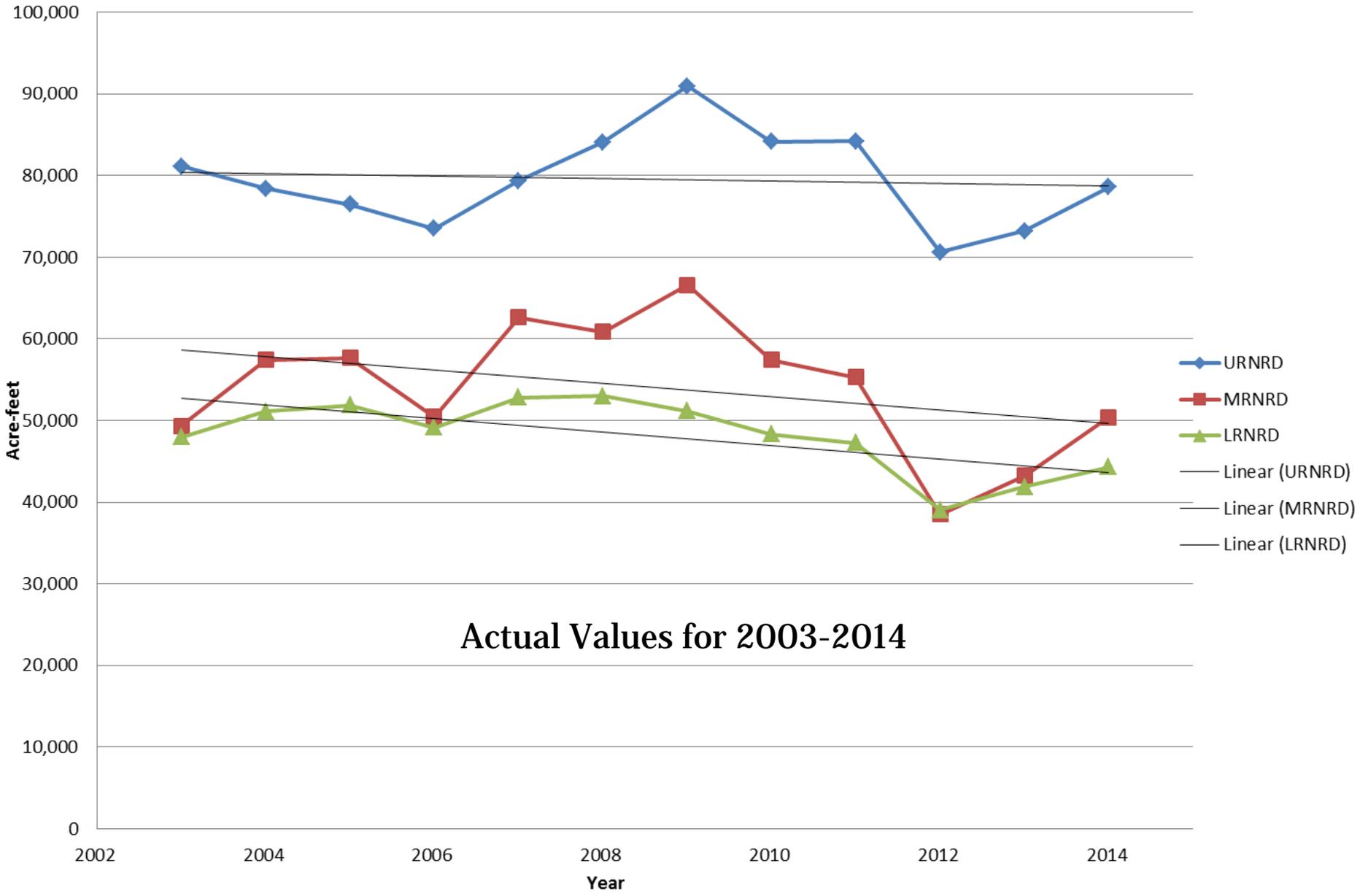
Questions



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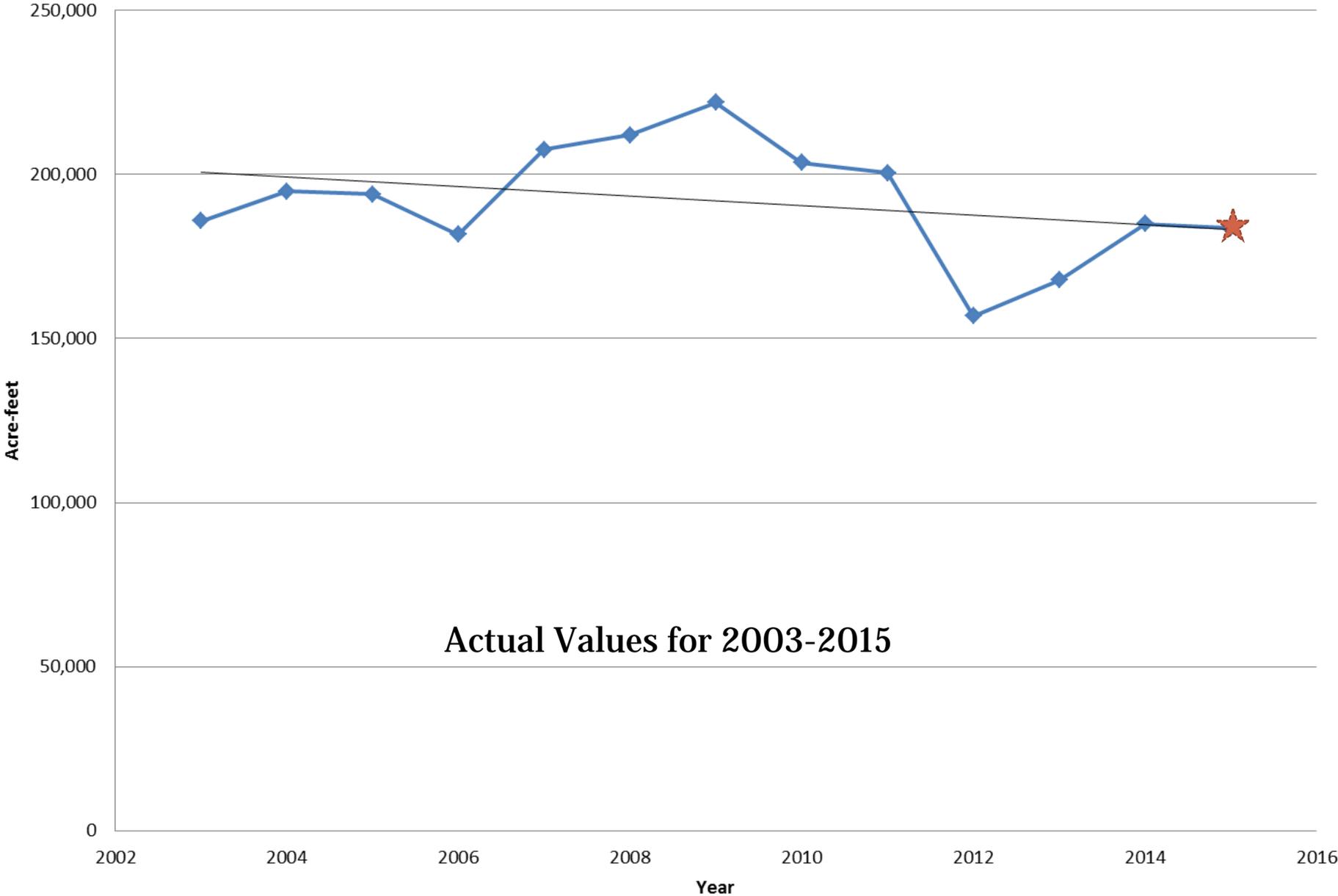
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Groundwater Depletions by NRD



Actual Values for 2003-2014

Total Basin Groundwater Depletions



Actual Values for 2003-2015

Total Basin Groundwater Depletions

