Appendix F

Supporting Information for Strategies Analysis



Results of Strategies Discussions August 2005 Steering Committee Meeting and October 2005 Public Meetings Northeast New Mexico Water Planning Region Page 1 of 3

	Yes Votes / No Votes ^b				
Strategy ^a	Tucumcari	Clovis	Logan	Clayton	Mosquero
Number of meeting attendees	16	11	7	30	8
Water Development					
Desalination/salt water utilization	5/0	0/0	0/0	0 / 0	2/0
Enhanced recharge using playa lakes	6 / 0	1/0	0 / 0	9/0	2/0
Cloud seeding	0/9	2/6	0/3	4 / 10	0 / 1
Dam construction (Canadian, Dry Cimarron Rivers, reconstruction of Perico Dam)	5/4	0 / 1	0/5	6 / 1	5/0
Use of Clayton Lake water for municipal supply	3/0	1/0	0 / 0	1/2	0/0
Infrastructure Development					
Ute Pipeline (Eastern New Mexico Rural Water System)	19/9	16 / 0	1/0	0/0	0 / 7
Infrastructure upgrades	14 / 0	0 / 0	0 / 0	6 / 0	0/0
Development/completion of a sewer and collection system for Logan			6 / 0	0/0	0/0
Development/construction of a Harding County (including Roy & Mosquero) water system using Canadian River/Conchas/Ute water					11 / 0
Water Conservation					
Municipal water conservation	10 / 0	7 / 0	4 / 0	21 / 0	3/0
Agricultural water conservation Alternative crop selection/research 	9 / 0	12 / 1	7 / 0	23 / 0	5 / 0
Commercial water conservation (dairies, feedlots)					3/0
Water reuse Reclaiming wastewater 	10 / 0	8 / 0	5/0	9/0	2/0
Water Management					
Watershed management, including removal of non-native vegetation	11/0	9/0	5/0	22 / 0	6/0

^a Italicized alternatives were proposed during the meetings.

--- = Alternative not presented at the meeting in this community.

^b Each meeting participant had a total of ten Yes votes and two No votes.
 Participants could cast no more than two Yes votes or one No vote on any given alternative.

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	Yes Votes / No Votes ^b				
Strategy ^a	Tucumcari	Clovis	Logan	Clayton	Mosquero
Number of meeting attendees	16	11	7	30	8
Water Management (continued)					
Rangeland conservation and management	0 / 0	3/0	3/0	7 / 1	5/0
 Groundwater management, including Monitoring annual/cumulative groundwater depletions Creation of special water and sanitation districts/local groundwater control districts Identifying and designating groundwater conservation areas Monitor depletions along TX-NM border Canadian Compact review: is the change in hydraulic gradient increasing delivery to TX? 	7/0	4 / 0	1/0	27 / 1	3/0
Creation of county water cooperatives/mutual domestic water systems	1 / 0	0 / 0	1/0	0 / 0	0 / 0
Water rights protection Restricting water transfers out of county 	5/0	9/0	11 / 0	29 / 2	10 / 0
Development of local water security plans	4 / 0	1 / 0	0 / 1	8 / 0	0 / 0
Creation of permanent recreation pool in Ute Reservoir (at an elevation of 3765')	3 / 4	0 / 0	5/0	1 / 0	8/0
Declaration of groundwater basins	6 / 0				
Strategic placement of snow fences	1 / 0	0 / 0	0 / 1	2/0	0 / 0
Tucumcari and Chicosa Lake management	1/0	0 / 0	1/0	0 / 0	0 / 0
Lining the minimum recreation pool at Running Water Draw	0 / 0	1/0	0 / 0	0/0	0/0
Metering agricultural water use		8/5	0 / 0	1 / 10	0/6
Fire protection (alternative methods of fighting fire, planning for water to fight fires)				3/0	2/0
Planning for growth (making certain water is available)			0 / 0	13 / 1	6/0

^a Italicized alternatives were proposed during the meetings.

--- = Alternative not presented at the meeting in this community.

^b Each meeting participant had a total of ten Yes votes and two No votes.

Participants could cast no more than two Yes votes or one No vote on any given alternative.

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	Yes Votes / No Votes ^b				
Strategy ^a	Tucumcari	Clovis	Logan	Clayton	Mosquero
Number of meeting attendees	16	11	7	30	8
Water Quality					
Wellhead protection plans	9/0	3/0	2/0	5/0	2/0
Septic tank replacement/monitoring	8 / 0	3/0	0/0	2/3	0/0
Reclamation of abandoned CO_2 plants	5/0				
Improve trash disposal (e.g., address creek dumping)	5/0				
Coal-bed methane drilling, analysis of potential re-injection water				12 / 0	0/0

--- = Strategy not presented at the meeting in this community.

^a Italicized strategies were proposed during the meetings.
 ^b Each meeting participant had a total of ten Yes votes and two No votes. Participants could cast no more than two Yes votes or one No vote on any given strategy.



Northeast New Mexico Regional Water Plan Prioritization of Strategies for Meeting Future Water Supply Needs

At the November 7, 2005 meeting of the Northeast New Mexico Regional Water Planning Steering Committee, nine strategies were selected to undergo a full analysis in accordance with the Interstate Stream Commission *Regional Water Planning Template*:

- Municipal conservation (including water reuse)
- Agricultural conservation (including well metering)
- Groundwater management (including wellhead protection plans)
- Rangeland conservation and watershed management
- Water rights protection (restricting transfers out of county/out of region)
- Eastern New Mexico Rural Water System (including creating a new minimum recreational pool in Ute Reservoir at an elevation of 3765 feet)
- Infrastructure upgrades (including development of a sewer and collection system in Logan, development of a Harding County water system, development of water systems in Des Moines, Folsom, and Capulin, and addressing San Jon-Logan pipeline issues)
- Planning for growth (making certain that water is available)
- Dam construction (legal analysis on whether there is water in the region that could be impounded by a new dam)

The full analysis following the *Regional Water Planning Template* will include:

- Summary of the Strategy: Provides a general description of the strategy.
- *Technical Feasibility:* Defines ease of implementation from a technical standpoint and defines key technical issues.
- Political Feasibility and Social/Cultural Impacts: Discusses how likely the strategy is to receive political support for implementation and defines positive or negative social or cultural impacts.
- *Financial Feasibility:* Defines approximate ranges of costs for the strategy and discusses whether state or federal financing is available.
- *Hydrologic Impacts:* Estimates how much water could be gained or saved as a result of implementing the strategy.
- *Environmental Impacts:* Describes positive or negative environmental impacts that are likely to result from the strategy.



Northeast New Mexico Regional Water Plan Prioritization of Strategies for Meeting Future Water Supply Needs

Potential strategies were prioritized at the steering committee meeting in Tucumcari on August 29, 2005 and at four public meetings held October 19-21, 2005 in Clovis, Logan, Clayton, and Mosquero. The following table lists the potential strategies

receiving a yes vote from more than half of the attendees at one or more of the meetings, along with the Interstate Stream Commission-required component that each strategy falls under.

	ISC Component ^a					
Proposed Strategy	Water Management	Water Conservation	Water Development	Infrastructure Development	Water Quality	
Municipal conservation (including water reuse)		•				
Agricultural conservation		•				
Watershed management	•					
Groundwater management	•					
Rangeland conservation and management	•					
Water rights protection	•					
Ute Pipeline (Eastern New Mexico Rural Water System)				•		
Infrastructure upgrades				•		
Wellhead protection plans					♦	
Septic tank replacement/monitoring					♦	
Metering of agricultural water use	♦					
Planning for growth (making certain water is available)	•					
Dam construction (Canadian, Dry Cimarron Rivers, reconstruction of Perico Dam)			•			
Creation of a permanent recreational pool in Ute Reservoir (at an elevation of 3,765 feet)	•					
Development of a sewer and collection system for Logan				•		
Development/completion of a Harding County Water System (including Roy and Mosquero), using water from the Canadian River and Conchas and Ute reservoirs				•		

^a The Interstate Stream Commission (ISC) requires that all regional water plans have strategies that address five water planning components.

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