Supporting Document C-4

Water Picture Show

Water Assembly Presents the Water Picture Show



Framing the Wet Water Picture - For Today and Tomorrow



What Is The Water Assembly?

A Large and Growing Grass Roots Organization of Citizens Concerned about Water Issues in the Area

- Hydrology Experts
- Water System Managers
- Government Agencies
- Environmentalists
- Business People
- Politicians
- Private Citizens
- ... etc.

A Diverse Volunteer Group

... Partnered with the Middle Rio Grande Council of Governments

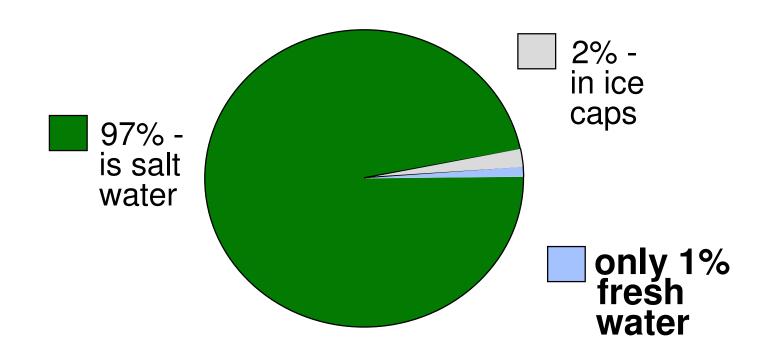
Discussion Topics



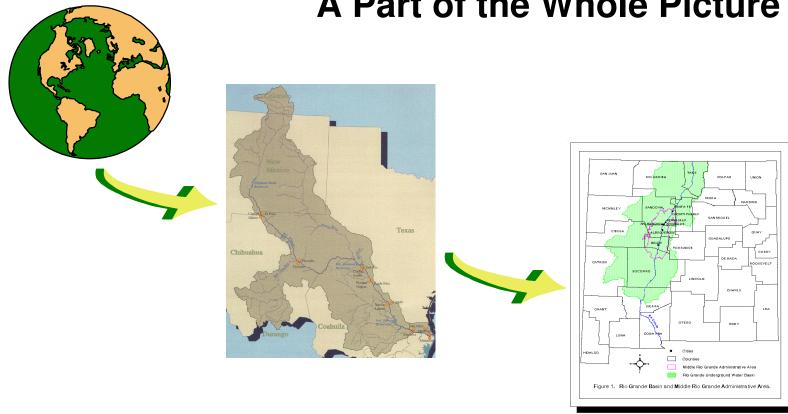
- Introduction
- Water The Five Hard Facts
- The Water Budget
- Regional Water Planning
- Current Planning Status
- ... and This Means You!

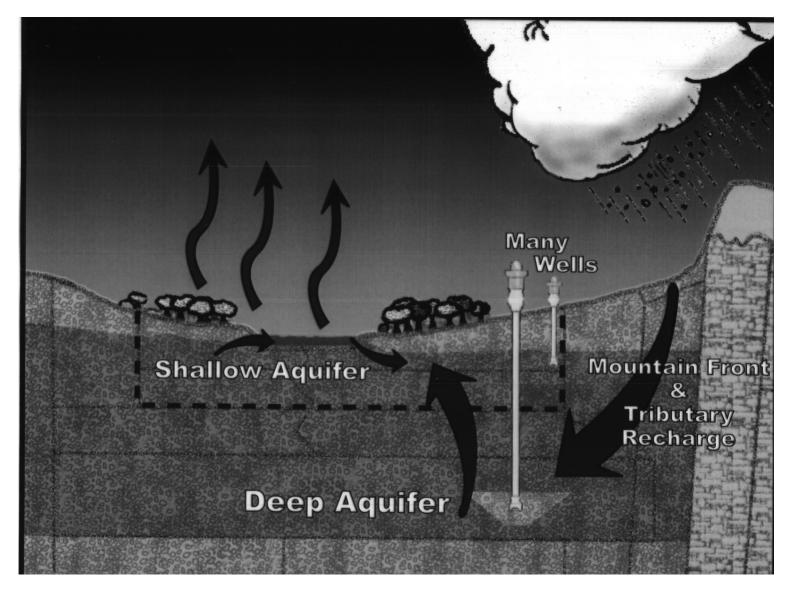


Worldwide - A Limited Supply of Fresh Water



The Middle Rio Grande - A Part of the Whole Picture

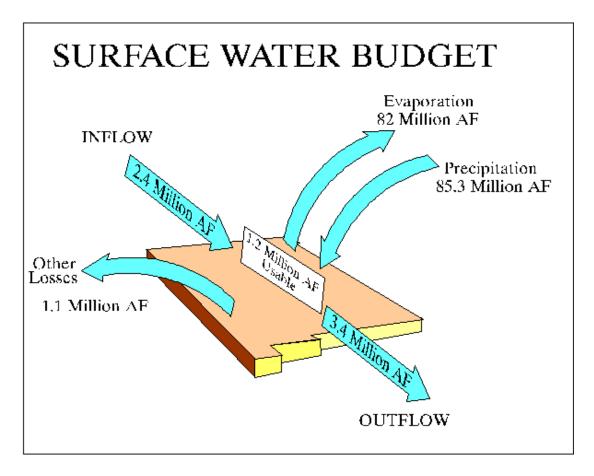




Water - The Five Hard Facts

- 1. The Middle Rio Grande region's water supply is limited.
- 2. The aquifer, our water savings account, is being used up.
- 3. We have a legal obligation to provide river habitat.
- 4. We have a legal obligation to downstream water users.
- 5. The population and water demand are growing rapidly.

Where It Comes From ... and Where It Goes



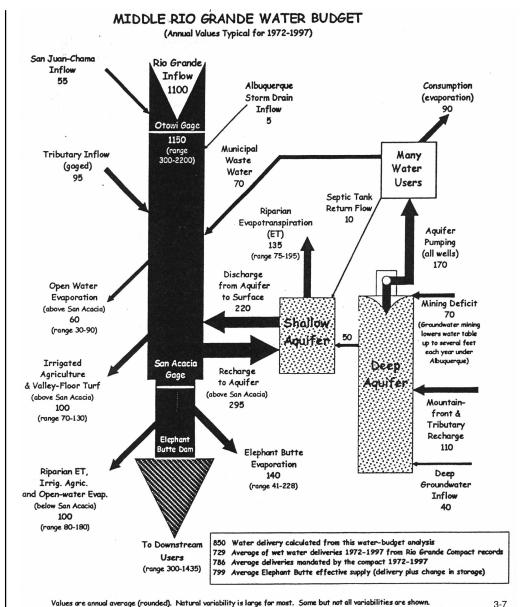
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Water Budget The Technical

Details

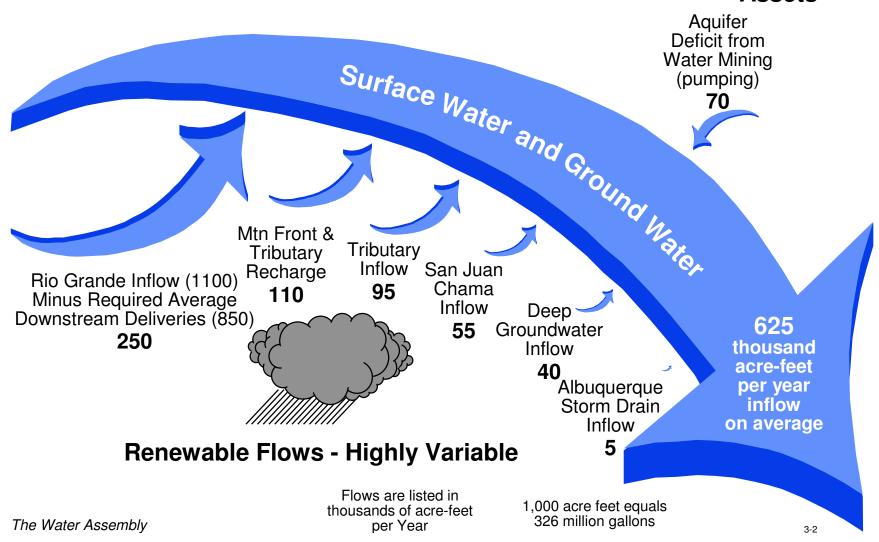
Available surface water varies substantially from year to year, according to precipitation. In an average year:

- We get enough surface water to meet our annual usage, and
- The net loss to the aguifers is 70,000 acre-feet per year





Non-Renewable Assets



The Rio Grande Flows Were Divided

- Negotiations Resulted in the Rio Grande Compact.
- Rivers Flows Divided
 Between Colorado, New
 Mexico, and Texas.
- Treaty Obligation to Deliver Allotment to Mexico.

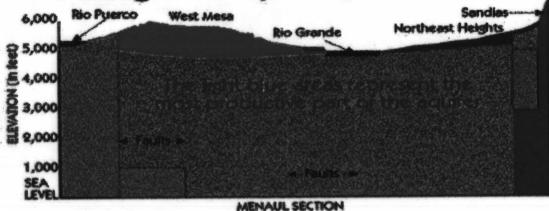
Bottom Line: For Middle Rio Grande Region, there is an allotment of water for use and a specific quantity to be delivered downstream.



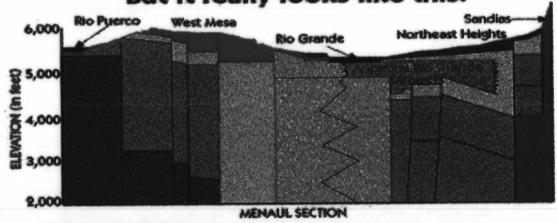


Aquifer Past and Present

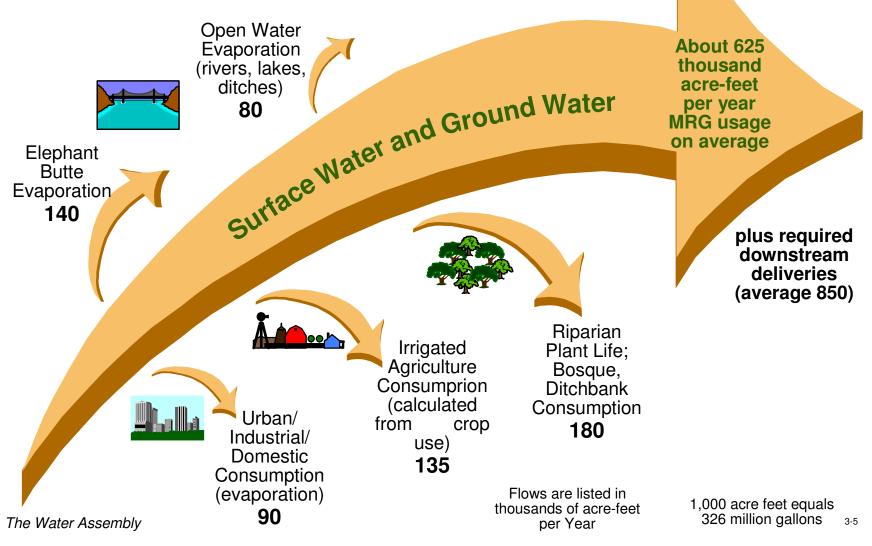




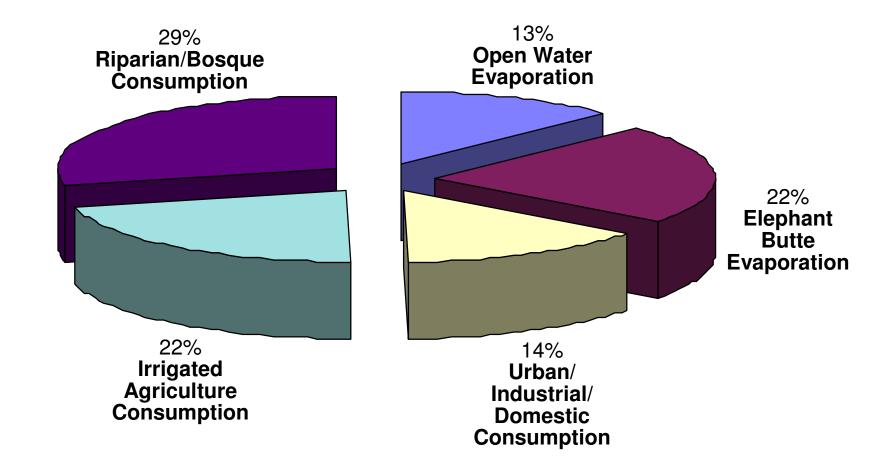
But it really looks like this:



Estimated Water Budget Expenses Where is Water Now Used?

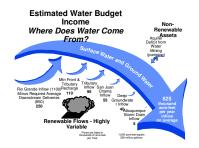


How We Are Now Sharing the Pie



Today's Water Budget Arithmetic

Income Minus Expenses Equals Surplus







... in an average year

The Population is Growing

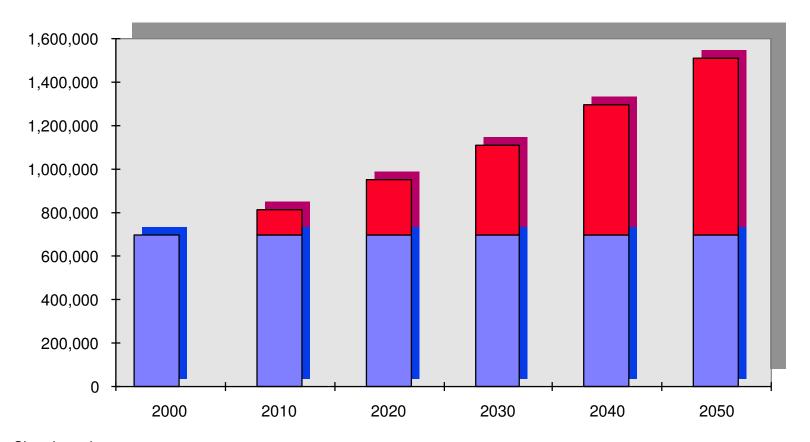


Chart based upon 1.55% Growth per Year (double in 50 years)

... increasing demand for the limited water

What Can We Do About It?







What Does Water Planning Mean?

- Understanding What Physical Resources We Have
- Understanding What We Really Value
- Deciding What We Absolutely Must Have
- And ... Figuring Out How to Share



... Tough Decisions Will Be Needed

Who Needs a Water Plan?

- User Communities Understanding the Situation and the Future
- Interstate Stream Commission Protect New Mexico's Interests
- State Engineer For Statewide Water Resource Management
- Council of Governments For Resource-Based Regional Planning
- State Government For Enabling Legislation and Funding
- Local Governments For Local Implementation Ordinances

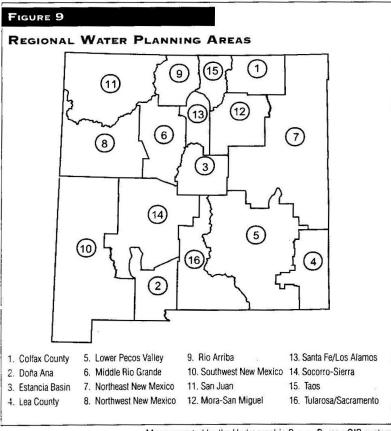
... Something for Everyone

The Five Essential Planning Questions

- What Is the Region's Water Supply?
- How Much Water is Needed Now, and in the Future?
- What Are The Choices to Balance Supply and Demand?
- Which of the Choices Reflect our Region's Values?
- What Strategies Will Bring the Best Choices to Reality?

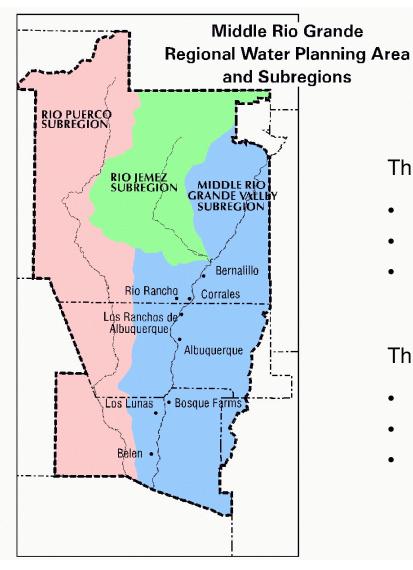
... Our Planning Process

Statewide Planning



Map generated by the Hydrographic Survey Bureau GIS system

... Assembled from Regional Planning



Three Diverse Counties:

- Sandoval
- Bernalillo
- Valencia

Three Watersheds:

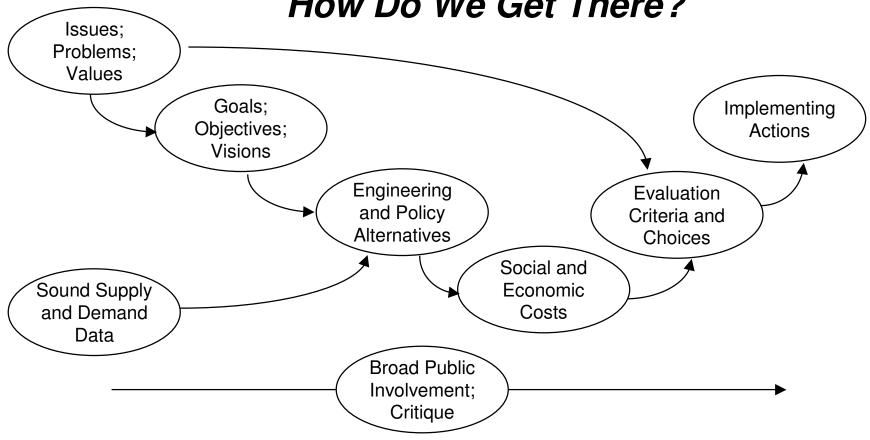
- Río Puerco
- Río Jemez
- Río Grande



What is the Current Water Planning Status for the Middle Rio Grande Region?



Water Planning Overview How Do We Get There?



... by Everyone Working Together

Where Are We On The Five Essential Planning Questions?

- What Is the Region's Water Supply?
 Water Budget Developed; Detailed Refinement Nearly Complete
- How Much Water is Needed Now, and in the Future?
 The "Now" Study Complete; "Future" Evaluation during 2000
- What Are The Choices to Balance Supply and Demand?
 Public Input Being Sought This Meeting and Conversations
- Which of the Choices Reflect our Region's Values?
 Public Input Being Sought This Meeting and Conversations
- What Strategies Will Bring the Best Choices to Reality?
 The Later Steps To Be Based upon Answers to the First Four

... Much Progress; Still a Long Way to Go



Water Planning

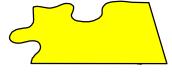


Balance Supply among Users









Future Needs





The Issues are Here and Now:



Active Public Participation Is Important

From the New Mexico State
 Regional Water Planning Handbook:

"Public Participation must be the significant factor in development of regional plans."

You must participate if the plan is to be successful.

Water Planning - An Extensive Public Process

1999

- Full Assembly Review
- The Roadshow
- The Water Budget 2000
- Mar Full Assembly Review
- May Current/Historical Demand
- May-Aug Water Picture Show
- Jun Public Opinion Survey
- Jul Detailed Supply Study
- Jul-Aug Issues and Problems
- Aug-Sep Goals and Objectives

- Sep-Feb Saving Water Series
- Nov Regional Coordination
- Nov Preliminary Alternatives
- Dec Interim Goals and Objectives
 2001
- Feb WPS: Demand/Opinion Update
- Jan Evaluation Criteria
- Mar Full Assembly Review
- May WPS: Saving Water Update
- Apr-Jul Alternatives Identification
- Sep-Nov Prelim. Evaluation
- Oct WPS Alternatives Update

... and more to come

Note to person organizing the slides

Choose one (or possibly two) of the following four slides according to the venue in which the presentation is being given.

- -Valencia County
- -Rio Rancho
- -Bernalillo Town Hall
- -Bernalillo County

Valencia County Conversations in 2000

Jul 24 Issues and Problems

Aug 8 Goals and Objectives

Nov 4 Region-Wide - Goals and Objectives

Nov 14 Preliminary Alternatives

Dec 13 WRB Goals and Objectives

3rd Weds Saving Water in the Desert Series

... and Much More to Come in 2001

Save the Dates ... Be There!

Rio Rancho Conversations in 2000

- Aug 22 Issues and Problems
- Sep 11 Goals and Objectives
- Nov 4 Region-Wide Goals and Objectives
- Nov 9 Preliminary Alternatives
- Dec 13 WRB Goals and Objectives
- 3rd Weds Saving Water in the Desert Series

... and Much More to Come in 2001

Save the Dates ... Be There!

Bernalillo Town Hall Conversations in 2000

- Aug 23 Issues and Problems
- Sep 13 Goals and Objectives
- Nov 4 Region-Wide Goals and Objectives
- Nov 15 Preliminary Alternatives
- Dec 13 WRB Goals and Objectives
- 3rd Weds Saving Water in the Desert Series

... and Much More to Come in 2001

Save the Dates ... Be There!

Bernalillo County Conversations in 2000

Sep 5 Issues and Problems

• Sep 19 Goals and Objectives

Nov 4 Region-Wide - Goals and Objectives

Nov 20 Preliminary Alternatives

Dec 13 WRB Goals and Objectives

3rd Weds Saving Water in the Desert Series

... and Much More to Come in 2001

Save the Dates ... Be There!

This means YOU!



Water Unites Us!

¡El Agua nos Une!

The Water Assembly www.WaterAssembly.org



Now...



Assembling the Puzzle ...







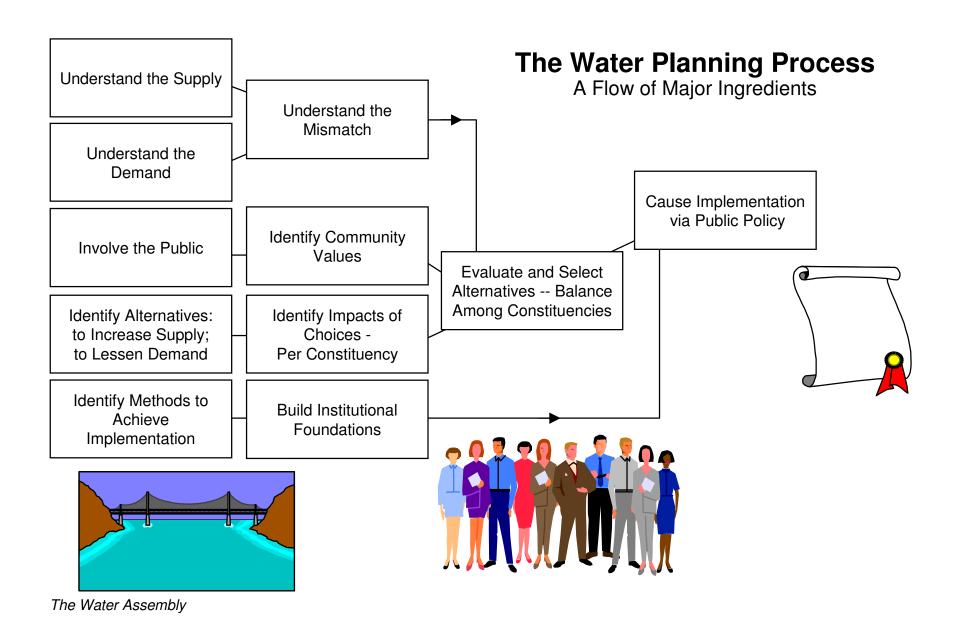






www.WaterAssembly.org

START OF BACK UP SLIDES



Water Planning Areas of Endeavor

Some of the Major Puzzle Pieces



Understanding:

- · Physical Systems
- Management Systems
 - River, Aquifer, Watershed
 - Natural/Human Uses





Public Involvement:

- Infrastructure
- · Informing the Public
- Listening to the Public
- Developing Decision Criteria
- Synthesizing Public Opinion

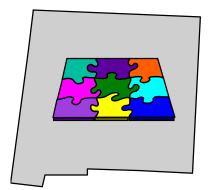




Public Policy Action:

- Current Situation
- Policy Changes
- · Legislative Changes
- Supporting the Changes





The Water Assembly



Water Assembly Operations:

- Obtaining Funding
- Staffing & Logistics
- Organizational Liaison
- Self Monitoring

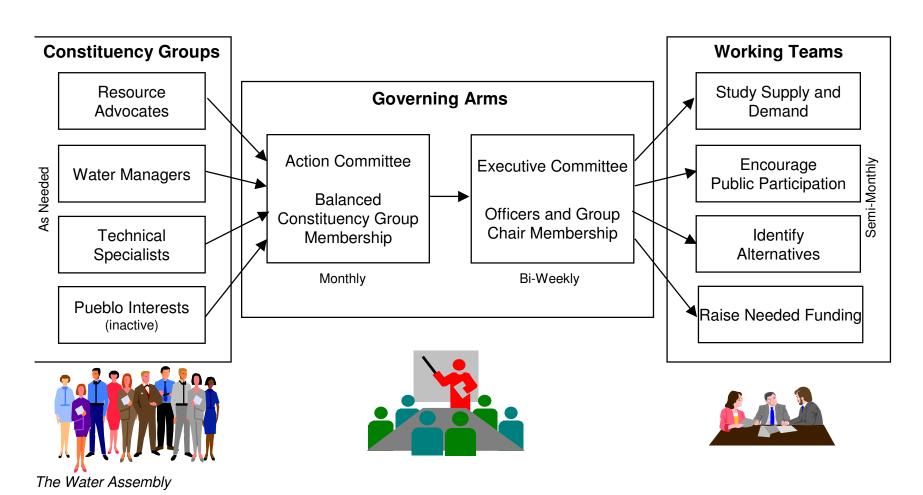


The Water Assembly Organization

For a Balanced Public Water Planning Process

The Water Assembly

Annually / Semi-Annually



Actively Bringing All Viewpoints to the Table

Toward a Broadly Acceptable Solution





Public Participation Working Team







Study Working Team

Establish a

- Scientific Basis:
 Understand the
- Physical Systems
 Surface, Aquifer,
 and Recharge
- Natural and Human Use Mechanisms
- Supply/Demand Relationships
- Understand Management Obligations
- River, Aquifer, Watershed
- Drought Preparation and Planning
- Import/Export
 Requirements

Inform the public:

- Develop Literature for Distribution
- Employ Print and Broadcast Media
- Operate and Maintain Internet Media
- Address School Forums

Involve the Public:

- Outreach to Specific Constituencies
- Conduct Regional Outreach Sessions
- Conduct Community Outreach Sessions
- Develop and Staff Event Booths
- Utilize Surveys and Polls

Build Support Products:

- Plan Public Participation Process
- Develop Water Planning Library
- Codify Public Feedback

Alternatives Working Team

Analyze and Synthesize Alternatives:

- Identify Possible
 Alternative Actions
- Identify Consequences of Alternatives
- Describe/Publicize
 Alternatives
- Relate Alternatives
- to Community Values
 Develop Criteria for
- Balancing Alternatives
 Select/Balance among
- Users/Alternatives
- Establish Guidance for Public Policy Action







