

Active Water Resource Management in the Mimbres Basin



Presented by:

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Acting District 3 Manager

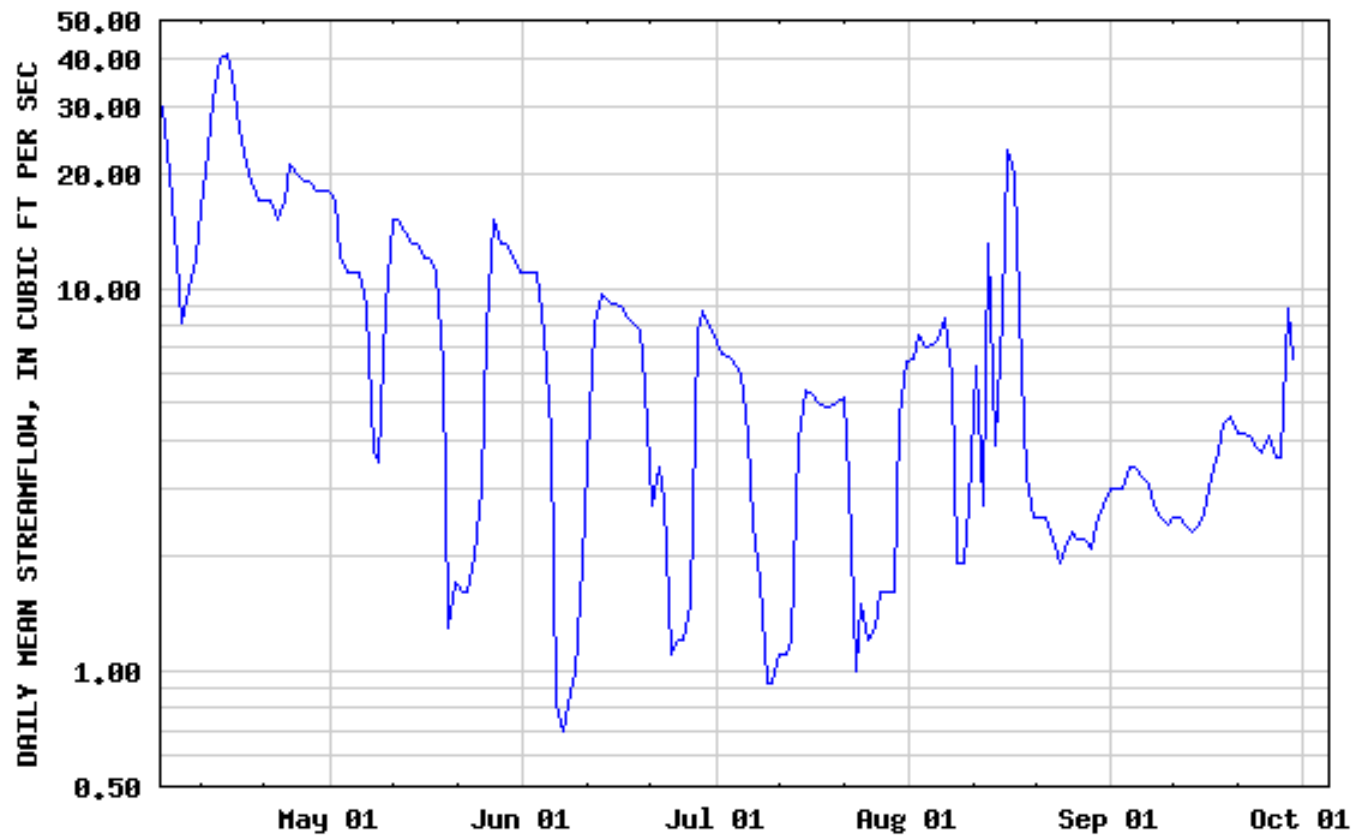
Office of the State Engineer

New Mexico & Drought





USGS 08477110 MIMBRES RIVER AT MIMBRES, NM



PROVISIONAL DATA

Active Water Resource Management (AWRM)

- What is it?
 - Refers to a broad range of activities including:
 - Permitting and Transfers
 - Monitoring and metering diversions
 - Limiting diversions of water to the amount by the existing right (Mimbres Basin has Decree that defines limits)
 - Launched in January 2004
 - General AWRM Rules and Regulations promulgated December 31, 2004

The background of the slide features a faded, sepia-toned image of a map with a compass rose in the upper left corner. The map shows some geographical outlines and text, though it is not clearly legible. The compass rose has some numbers, including '091' and '07'.

General AWRM Regulations

- Provides a broad framework to conduct water administration within New Mexico
- Brings all aspects of administration under a single administrative scheme
- Provides for District-Specific Rules & Regulations for each Water District
- Provides for extensive public review and comment in each Water Master District

AWRM Priority Basins ~ Statewide

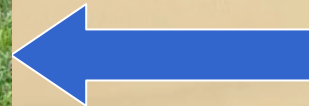
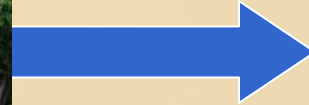
- Lower Rio Grande
- Pecos
- San Juan
- **Mimbres**
- Rio Gallinas
- Rio Hondo
- Nambe-Pojoaque-Tesuque (NPT)



Why AWRM in the Mimbres Basin?

- A Watermaster was appointed by the Court after the 1993 Decree
- History of the Mimbres Basin Watermaster
- The State Engineer has the statutory responsibility for administration of water
- To administer effectively and efficiently, the State Engineer must have a River Watermaster on site on a daily basis

AWRM on the Mimbres River

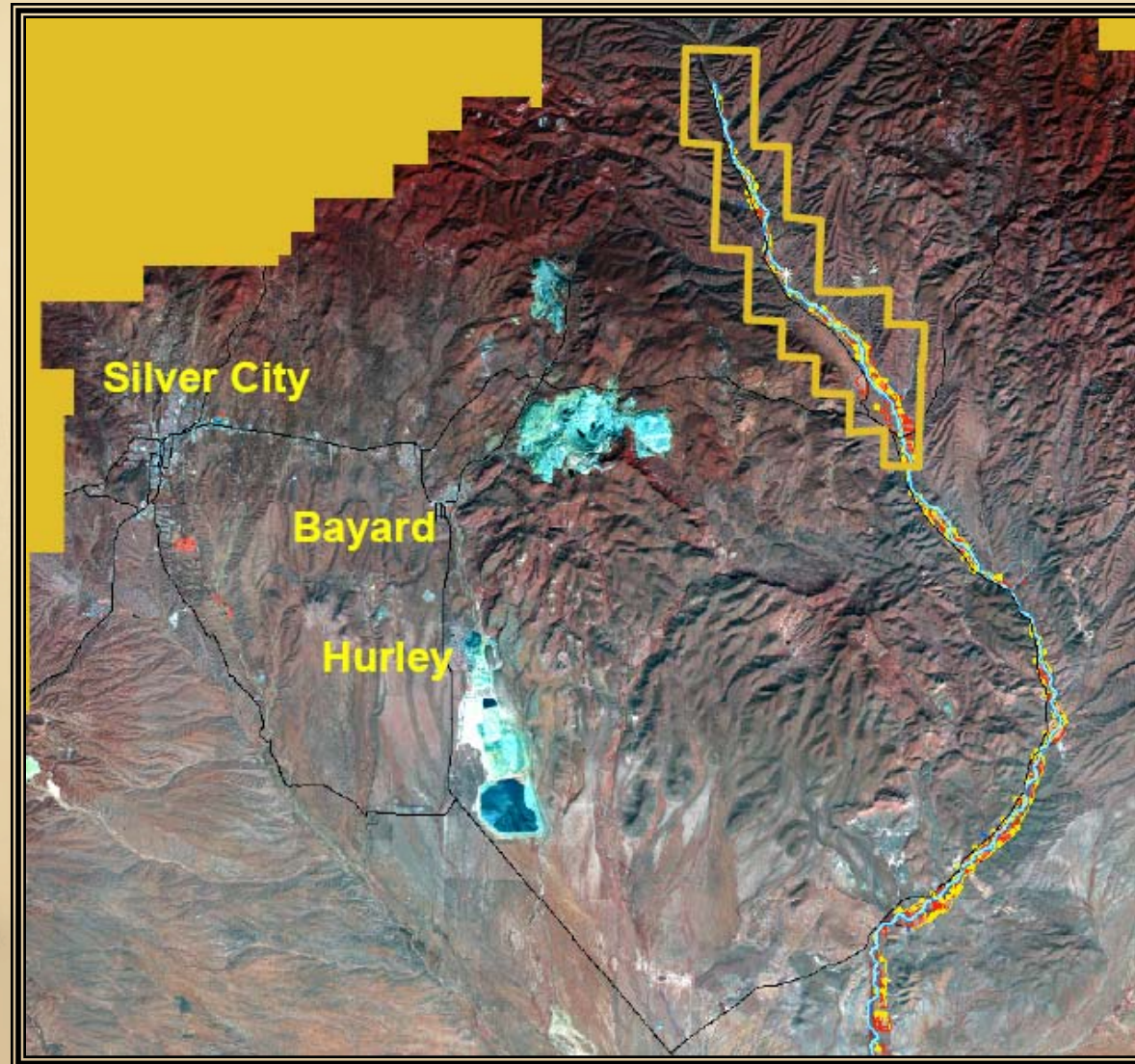


Mimbres AWRM ~ Process

- Motion in Sixth Judicial District Court
- Hiring of a Watermaster *
- Declaration of Water Master District*
- Development of Advisory Group
- Development of District-Specific Rules & Regs *
- Public Input ~ Everyone in Water Master District
- Active Water Resource Management



Proposed Upper Mimbres Water Master Subdistrict





Hiring of Mimbres River Watermaster

- The State Engineer is covering the costs for FY'06
- The position was created in July and interviews were conducted on September 9th
- The Mimbres River Watermaster, Bryan Stevenson, was hired on September 20th

Future Funding for the Mimbres River Watermaster

- Provided for in
Statute
- Potential Sources
 - State Legislature
 - Counties Through
Water Users





Mimbres River Watermaster ~Duties~

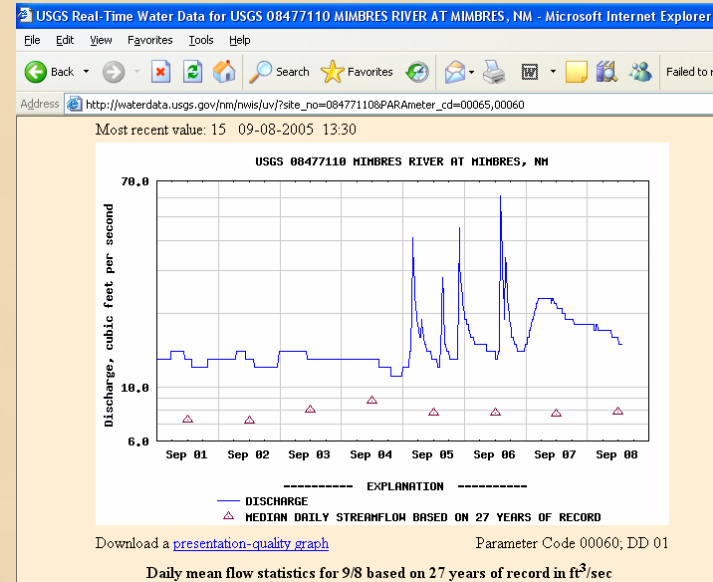
- Daily administration of the Mimbres River within the Upper Mimbres Water Subdistrict
- Collection of data *
- Calculation of available water supplies and allowed uses
- Curtailment of junior uses if required
- Public assistance

Watermaster Tools

GIS Technology



GPS Well Locations within the AWRM District



Input Parameters		
Average Temperature (degrees)	70.80	From Chart Below
PDLh	9.31	From Chart Below
PDLI	9.28	From Chart Below
Effective Precipitation	0.00	From Area Station*
Days in month	31.00	From Chart at Right

* ~ Will be 0.0 at start of each month

Days in Month	
April	30
May	31
June	30
July	31
August	31
September	30
October	31

Input the data for each month in the green cells from the provided tables.

Average Temperature for the Months of April thru October	
Month	Mean
April	53.10
May	61.00
June	70.30
July	72.50
August	70.80
September	66.00
October	56.60

Data from the Fort Bayard Weather Station
Period of Record 1897 to 2005
http://weather.nmsu.edu/nmcccoperator/fort_bayard.htm

Daytime Hour Percentage for April thru October Latitude in degrees north of equator*				
Month	31	32	33	34
April	8.74	8.75	8.78	8.8
May	9.58	9.63	9.68	9.72
June	9.55	9.6	9.64	9.7
July	9.72	9.77	9.83	9.88
August	9.25	9.28	9.31	9.33
September	8.34	8.34	8.34	8.36
October	7.96	7.93	7.92	7.9

33 Column is PDLh ~ 32 Column is PDLI for Upper Mimbres Subdistrict
* - Data from SEO Technical Report 32



District-Specific Rules & Regs

- Open Process – Opportunity for public review and comment
- Meet with regional water users groups to facilitate participation
- Allows for planning for alternative administration

Questions???

