



QUAY COUNTY GOVERNMENT

300 South Third Street

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AGENDA REGULAR SESSION QUAY COUNTY BOARD OF COMMISSIONERS March 9, 2015

9:00 A.M. Call Meeting to Order

Pledge of Allegiance

Approval of Minutes-Regular Session February 27, 2015

Approval/Amendment of Agenda

Public Comment

Public Hearing

Sam Vaughn, HDR

- Discussion of Quay County's 40-Year Water Plan Update

Public Hearing Adjourned

Ongoing Business-None

New Business

I. Larry Moore, Quay County Road Superintendent

- Road Update

II. Richard Primrose, Quay County Manager

- Request Approval of 2014-2015 Resolution No. 30 Transfer of Budget for LEPF Fund
- Correspondence

III. Request Approval of Accounts Payable



DOC HCM-00360

03/31/2015 02:19 PM Doc Type: COCOM

Fee: (No FieldTag Finance.TotalFees found) Pages: 26
Quay County, NM Veronica Marez, County Clerk



IV. Other Quay County Business That May Arise During the Commission Meeting and/or Comments from the Commissioners

V. Request for Closed Executive Session

- **Pursuant to Section 10-15-1(H) 7. The New Mexico Open Meetings Act to Discuss Threatened or Pending Litigation**
- **Pursuant to Section 10-15-1(H) 2. The New Mexico Open Meetings Act to Discuss Limited Personnel Matters**

Adjourn

Lunch- Time and Location to be Announced

REGULAR SESSION-BOARD OF QUAY COUNTY COMMISSIONERS

March 9, 2015

9:00 a.m.

BE IT REMEMBERED THE HONORABLE BOARD OF QUAY COUNTY COMMISSIONERS met in regular session the 9th of March, 2015, at 9:00 a.m. at the Commission Chamber, Tucumcari, New Mexico for the purpose of taking care of any business that may come before them.

PRESENT & PRESIDING:

Franklin McCasland, Chairman
Sue Dowell, Member
Mike Cherry, Member
Richard Primrose, County Manager
Veronica Marez, Quay County Clerk

OTHERS PRESENT:

Larry Moore, Quay County Road Supervisor
Vic Baum, Quay County Assessor
Stephen Hansen, Quay County Sun
Sam Vaughn, HDR
Grady Reid, HDR
Zac Stein, HDR
Russell Braziel, KTNM Radio Station
Cheryl Simpson, Quay County Manager's Office
Larry Wallin, Village of Logan Manager
Russell Ferrer, Village of Logan Council
Jared Langenegger, City of Tucumcari Manager
Robert Lumpkin, City of Tucumcari Mayor

The meeting was called to order by Chairman McCasland. Vic Baum led the Pledge of Allegiance.

A MOTION was made by Sue Dowell, SECONDED by Mike Cherry to approve the minutes from the February 27, 2015 regular commission meeting. MOTION carried. Copy of said minutes is attached and made a part of these minutes.

Commissioners Voted:

McCasland – “ABSTAINED”

Dowell – “YES”

Cherry – “YES”

A MOTION was made by Mike Cherry, SECONDED by Sue Dowell to approve the agenda. MOTION carried. Copy of said agenda is attached and made a part of these minutes.

Commissioners Voted:

McCasland – “YES”

Dowell – “YES”

Cherry –“YES”

PUBLIC COMMENT: None

PUBLIC HEARING:

Chairman McCasland called the Public Hearing to order at 9:05 a.m.

Sam Vaughn, HDR gave an overview of Quay County’s 40- Year Water Plan. Copy of said overview is attached and made a part of these minutes.

Zac Stein, HDR gave an overview on Ute Reservoir Firm Yield Study. Copy of said overview is attached and made a part of these minutes.

Robert Lumpkin , City of Tucumcari Mayor inquired about changes to Yield Study. Zac Stein informed Lumpkin that the Yield Study is based on facts and data and addressed his question.

Chairman McCasland closed the Public Hearing to order at 10:15 a.m.

Chairman McCasland requested a 10 minute break. Time noted 10:15 a.m.

ONGOING BUSINESS: None

OLD BUSINESS: None

NEW BUSINESS:

Larry Moore, Quay County Road Superintendent presented the following report.

1. Presented blade report.
2. LGRF is due March 16, Moore is preparing paper work and needs Primrose approval.
3. Certified Road Mileage is due April 1.
4. Crews are blading roads.
5. Crews have finished 1.4 miles on Quay Rd U.
6. Primrose and Moore attended the RPO meeting in Las Vegas last week for the LGRF and Permit training.

Richard Primrose gave the following County Manager’s Report:

Requested approval of 2014-2015 Resolution No. 30 Transfer of Budget for LEPF Fund. A MOTION was made by Sue Dowell, SECONDED Mike Cherry to approve Resolution. MOTION carried. Copy of said Resolution is attached and made a part of these minutes.

Commissioners Voted:

McCasland – “YES”

Dowell – “YES”

Cherry –“YES”

CORRESPONDENCE:

1. Surface Water Quality Bureau Community meeting Tuesday, March 10th at Mesalands Community College.
2. Received a letter from Senator Pete Campos informing us of what is going on at the Legislature.
3. Tucumcari Tourism Working Group will be meeting on Monday, March 9, 2015 at 6:30 pm at City Hall.
4. Mesalands 17th Annual Iron Pour is set for March 8-14.
5. Presented the monthly RPHCA report.
6. Wednesday, March 18th, 2015 at 10:00 am in the Liberty room at the Tucumcari Convention Center, a meeting will be held for stakeholders and interested public to begin developing the Ute Reservoir Watershed-Based Plan for water quality restoration.
7. Primrose invited Commissioners to the dinner for NMDOT Commissioner on March 18 at 6:00 a.m. at the Convention Center and the meeting will be held on March 19 at 8:30 a.m. at Convention Center.
8. Next Commission meeting on March 23 will be held in Nara Visa.

CHECKS WERE REVIEWED.

A MOTION was made by Sue Dowell, SECONDED by Mike Cherry to approve the expenditures as presented. MOTION carried. A copy of the expenditure report is attached and made a part of these minutes.

Commissioners Voted:

McCasland – “YES”

Dowell – “YES”

Cherry –“YES”

Under Other Business That May Arise During the Commission Meeting and/or Comments from the Commissioners. NONE

A MOTION was made by Mike Cherry, SECONDED by Sue Dowell, to go into executive session pursuant to the Section 10-15-1(H)7. The New Mexico Open Meetings Act to Discuss Threatened or Pending Litigation. Pursuant to Section 10-15-1(H)2. The New Mexico Open Meetings Act to Discuss Limited Personnel Matters. MOTION carried Dowell voting “aye”, Cherry voting “aye”, McCasland voting “aye”.

Time noted 11:00 am.

-----EXECUTIVE SESSION-----

A MOTION was made by Mike Cherry, SECONDED by Sue Dowell that only pending personnel matters and threatened or pending litigation was discussed during Executive Session

and no action was taken. MOTION carried McCasland voting "aye", Cherry voting "aye", Dowell voting "aye".

Return to regular session. Time noted 11:55 a.m.

There being no further business, a MOTION was made by Sue Dowell, SECONDED by Mike Cherry to adjourn the regular meeting of the Board of Quay County Commissioners until the next regular meeting set for March 23, 2015 in Nara Visa unless sooner called. The Commissioners announced they would be having lunch at Del's and all those in attendance were invited. MOTION carried.

Commissioners Voted:

McCasland – "YES"

Dowell – "YES"

Cherry – "YES"

Time noted 12:00 p.m.

BOARD OF QUAY COUNTY COMMISSIONERS


Franklin McCasland, Chairman



Sue Dowell, Member

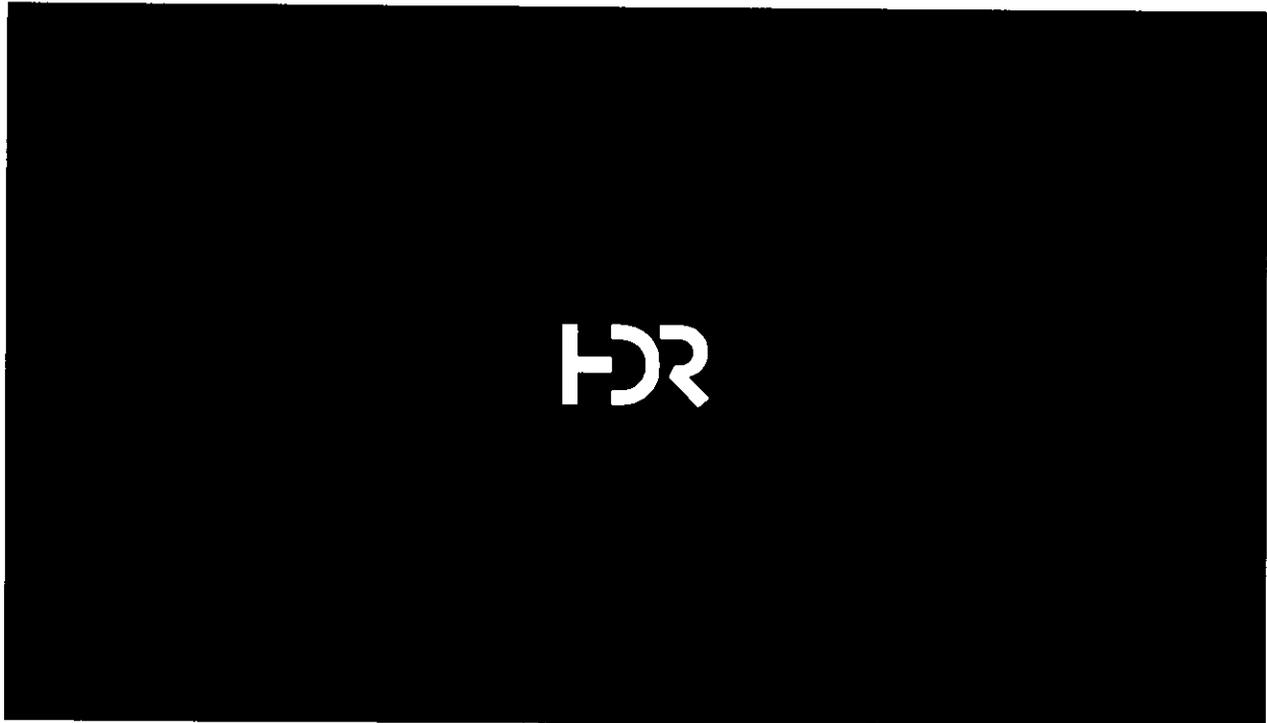


Mike Cherry, Member

ATTEST:


Veronica Marez, Quay County Clerk



A cover page with a dark, grainy background image of a landscape. A white rectangular box in the lower-left corner contains the following text:

Quay County, New Mexico
40-Year Water Plan Update
March 9, 2015

Below the text is the HDR logo. In the bottom right corner of the page, there is a small white box containing the text "© 2015 HDR Inc. All rights reserved."

Plan Organization

- Introduction
- Planning Area Description
- Population and Water Demand Projections
- Water Supply Projections
- Needs Analysis and Water Supply Alternatives

A draft report was submitted to Quay County on February 19th and is currently undergoing review.



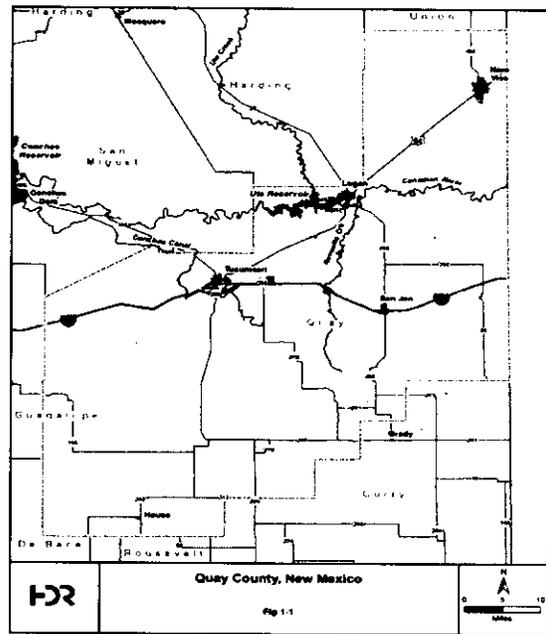
Purpose of the Plan Update

- Update the Plan to reflect the current state of water resources and develop new projections of future water demands and supplies.

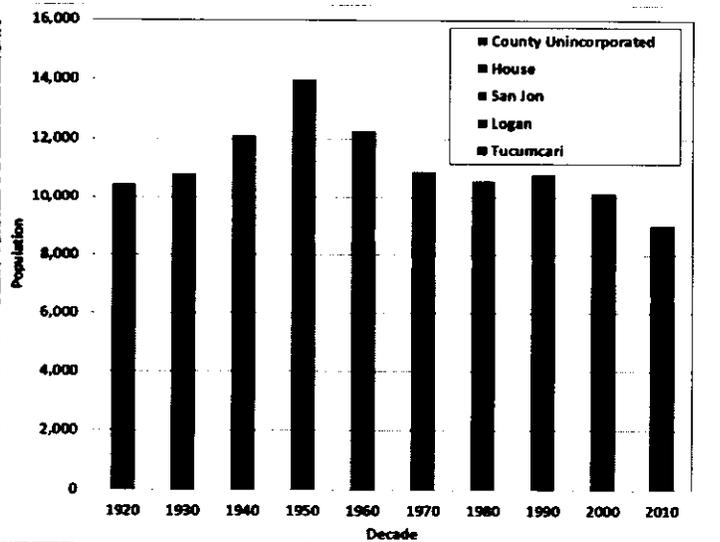


Characteristics of Quay County

- Four Incorporated Areas
 - Tucumcari
 - Logan
 - San Jon
 - House
- Surface Water Resources
 - Conchas and Ute Reservoirs
- Municipal Supply is from groundwater
- Conchas Reservoir is used for irrigation
- Potential for growth in the County

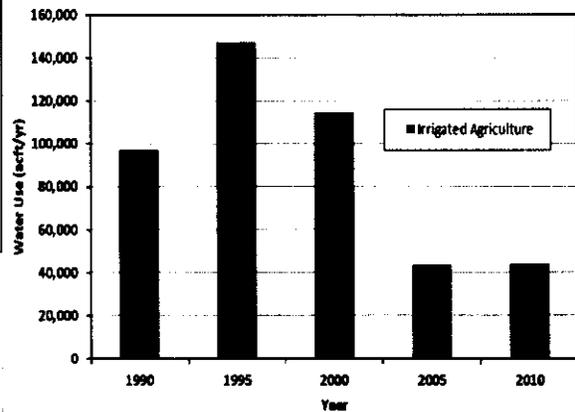
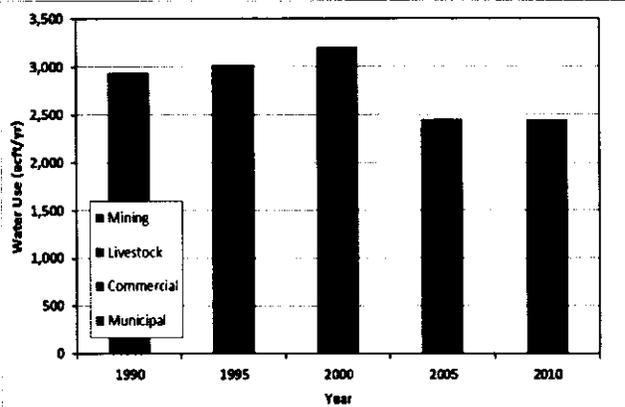


Historical Population of Quay County



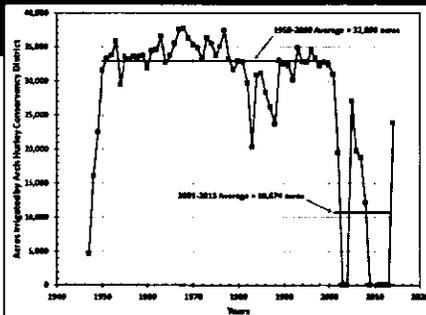
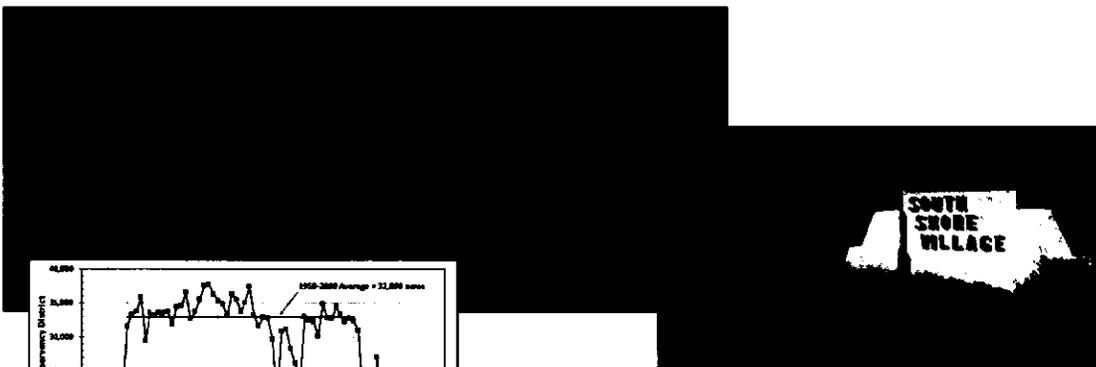
Most areas have seen a reduction in population since about 1950; however, Logan has been steadily growing since that time.

Historical Water Use in Quay County



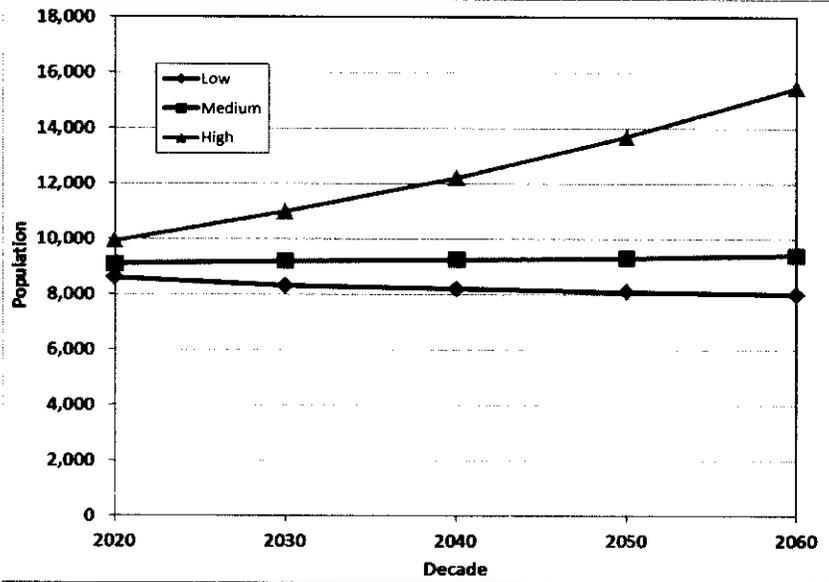
Reductions in use (municipal & irrigation) in 2005 and 2010 are likely associated with ongoing drought conditions.

Quay County Growth Potential



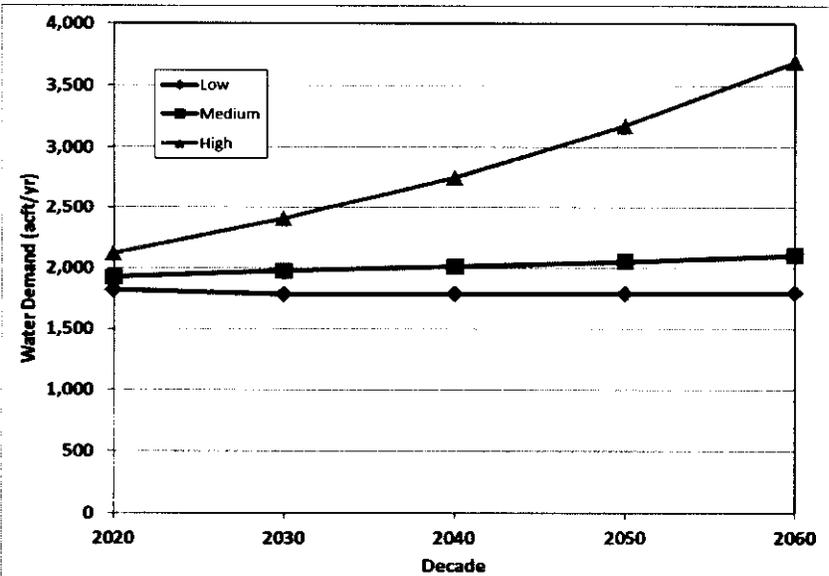
Most future growth in Quay County is expected to be associated with development near Ute Reservoir, commercial expansion in Tucumcari, and renewal of irrigated agriculture.

Population Projections



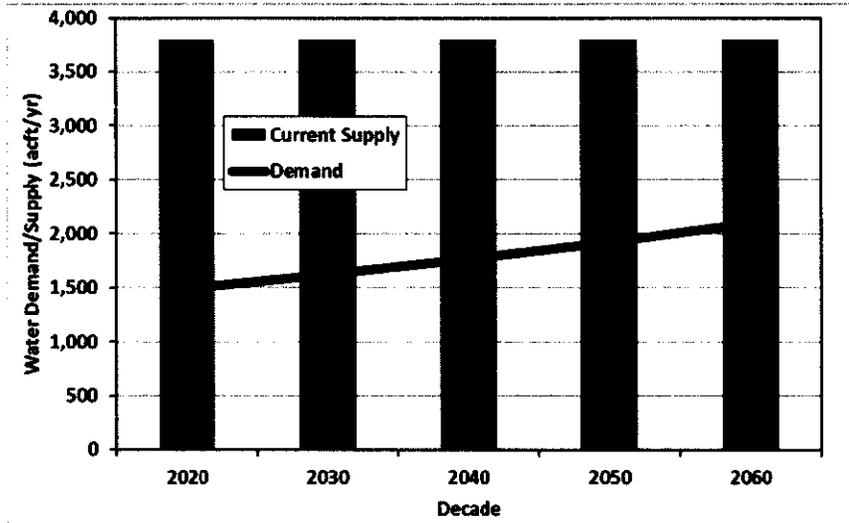
Sources:
 Low – UNM BBER
 Medium – UNM BBER
 High – Actual historical growth rates through year 2000.

Water Demand Projections



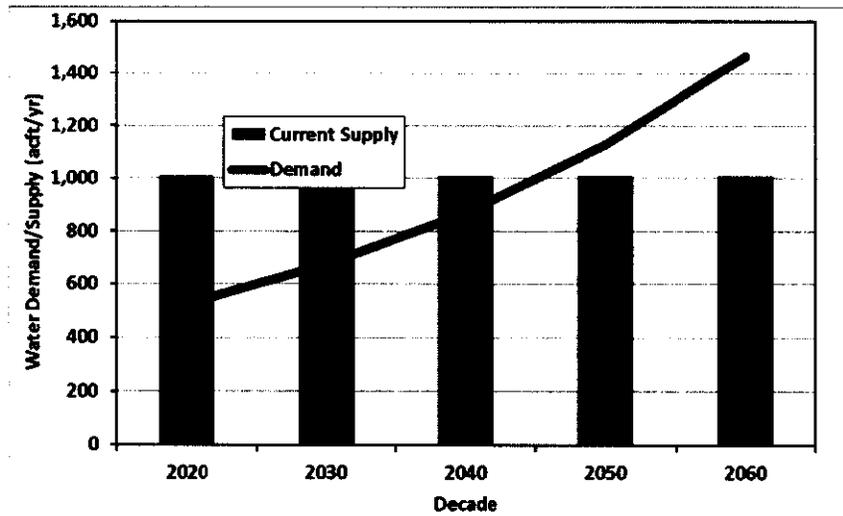
The "High" scenario was selected for planning purposes.

Needs Analysis – Tucumcari



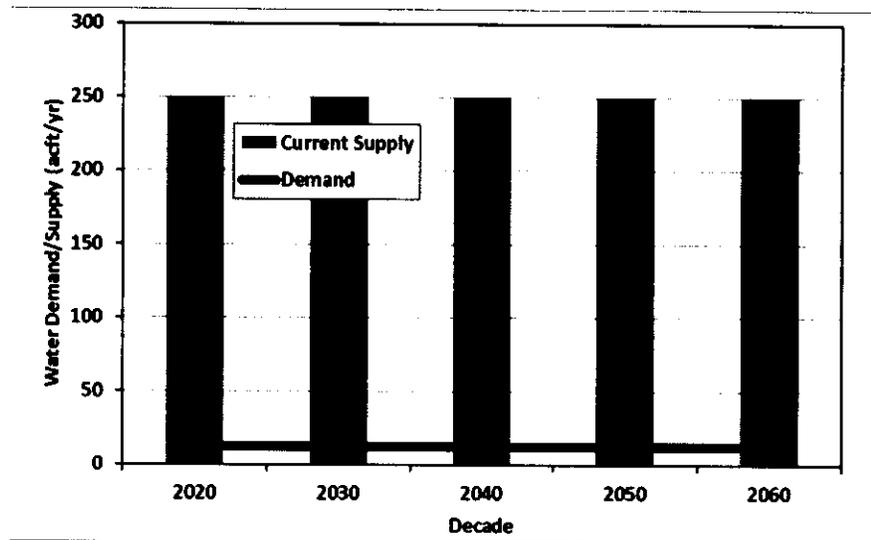
Current supplies appear sufficient through the planning period.

Needs Analysis – Logan / San Jon



Additional supplies needed by 2045. Capacity for peak day needed sooner.

Needs Analysis – House



Current supplies appear sufficient through the planning period.

Water Supply Alternatives

▪ Water Conservation

- Only Tucumcari has a Water Conservation Plan
- Common Elements of a Water Conservation Plan
 - Water efficient fixtures and appliances
 - Low-water use landscaping and efficient irrigation
 - Water efficient commercial and industrial water use processes
 - Water reuse systems for both potable water and non-potable water
 - Distribution system leak repair
 - Public information
 - Water rate structures
 - Incentives for water use efficiency techniques

Water Supply Alternatives (cont.)

Water Loss Control Program

Step 1 – Water Audit Data Needs

- Gathering information.
- Determining flows into and out of the distribution system based on estimates or metering.
- Calculating the performance indicators.
- Assessing where water losses appear to be occurring based on available metering and estimates.
- Analyzing data gaps.
- Considering options and making economic and benefit comparisons of potential actions. Selecting the appropriate interventions.

Step 2 – Intervention Action Items

- Gathering further information, if necessary.
- Metering assessment, testing, or a metering replacement program.
- Detecting and locating leaks.
- Repairing and replacing pipe.
- Operation and maintenance programs and changes.
- Administrative processes or policy changes.
- No further action is necessary.

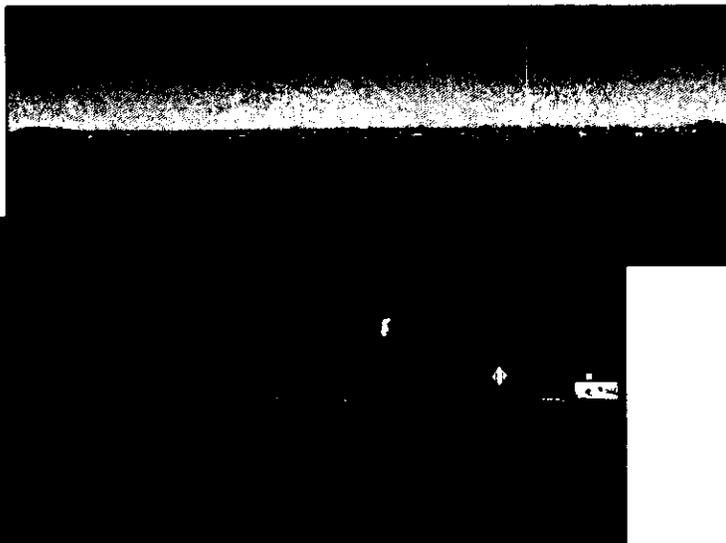
Step 3 – Evaluation Performance Indicators

- Were the goals of the intervention met? If not, why not?
- Where does the system need more information?
- How often should the system repeat the audit, intervention, and evaluation process?
- Is there another performance indicator the system should consider?
- How does the system compare to the last audit, intervention and evaluation process?
- How can the system improve performance?

Water Supply Alternatives (cont.)

Other Alternatives

- Wellhead Protection Plans
- Internal Infrastructure Needs
- Wastewater Reuse
 - Logan
 - Tucumcari



Water Supply Alternatives (cont.)

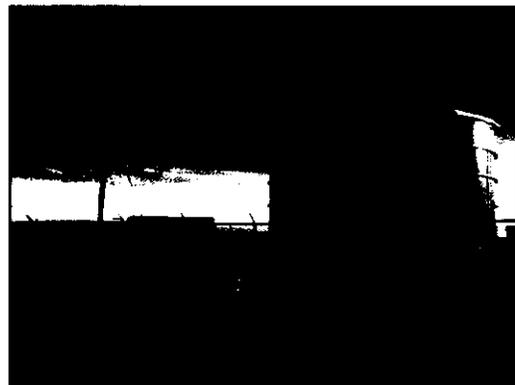
▪ Water Supply from Ute Reservoir

- Logan may need more than its 400 acft/yr allocation.
- Shorter-term needs may arise to meet peak day demands.
- Build-out of Ute Lake Ranch and other developments could be supplied by Logan and/or Tucumcari.
- If groundwater depletion or quality becomes a concern, additional supplies from Ute Reservoir could be used.

Water Supply Alternatives (cont.)

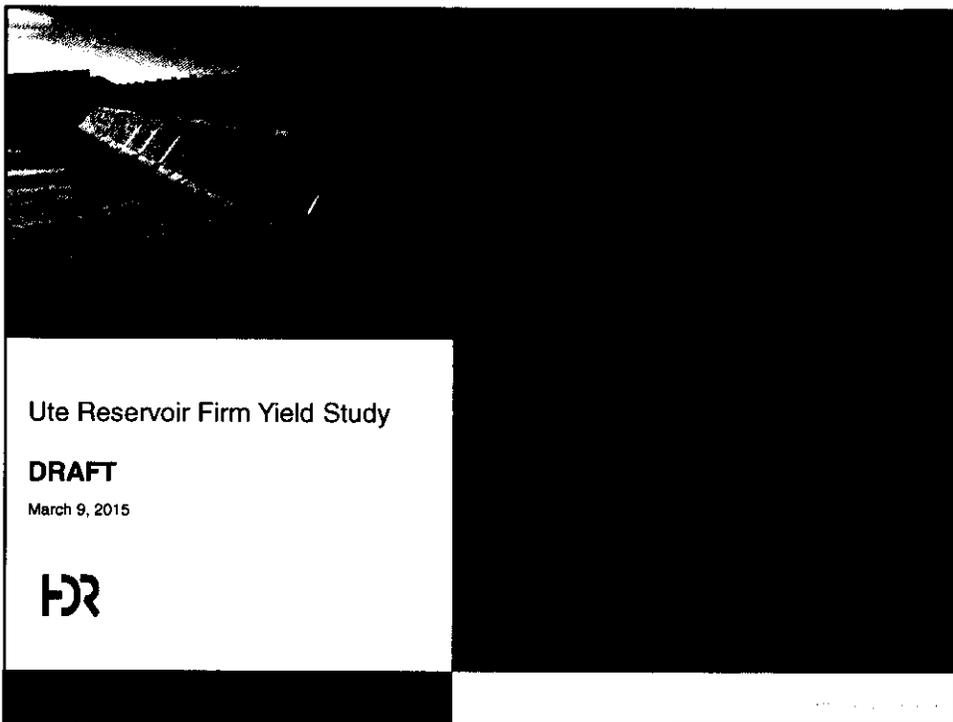
▪ Tucumcari / Logan Pipeline

- Approx. 22 mile pipeline between Logan and Tucumcari.
- Would allow entities to share water and provide service to developments along the pipeline.
- Would create a regional system.



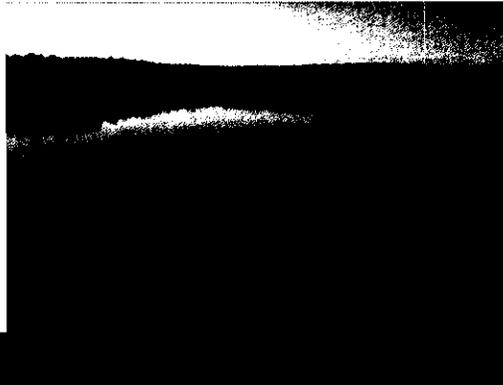
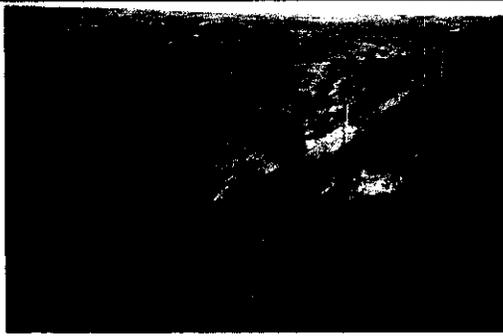
▪ Logan / San Jon Pipeline

- Could serve additional customers along the existing pipeline.
- The pipeline could be extended south of San Jon to serve additional customers.



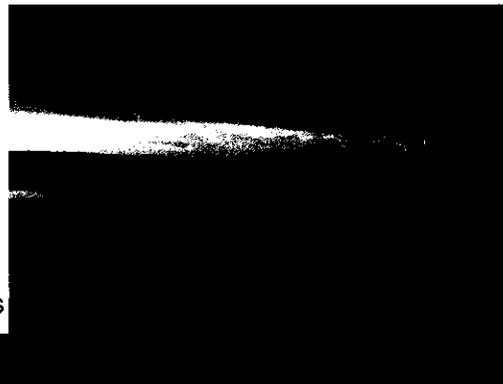
Outline

- Introduction & Background
- Description of Firm Yield Model
- Conchas Reservoir Simulations
- Ute Reservoir Simulations
- Drought Comparisons



Firm Yield Model

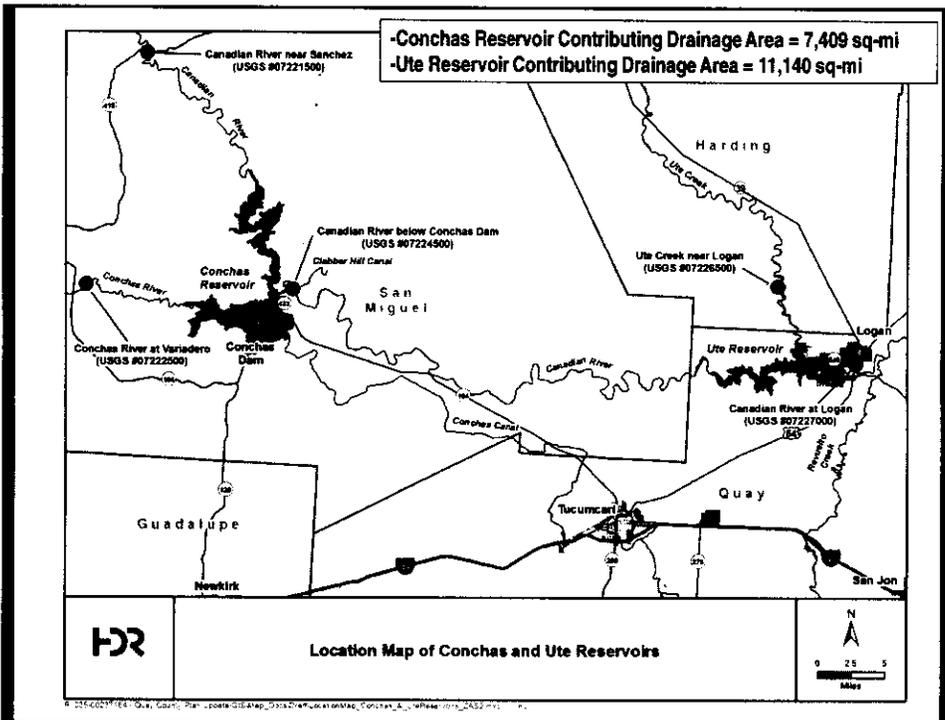
- Model simulates historical hydrologic conditions with current and future infrastructure and sediment accumulation
- Model includes Conchas and Ute Reservoirs
 - Infrequent Conchas Reservoir spills contribute to Ute Reservoir inflows
- Period of Record: 1940-2014
 - Includes current drought.
- Model inputs
 - Inflows
 - Evaporation
 - Precipitation
 - Sediment Accum.
 - Channel Losses
 - Diversions
 - Leakage
 - Elev-Area-Cap
 - Spills
 - Diversion Patterns



Definition of Firm Yield

"The draft or withdrawal that lowers the water content in a reservoir from a full condition to a minimum level just once during the critical historical drought."

-Maidment, David R., Editor in Chief, "Handbook of Hydrology," McGraw-Hill, Inc., 1993

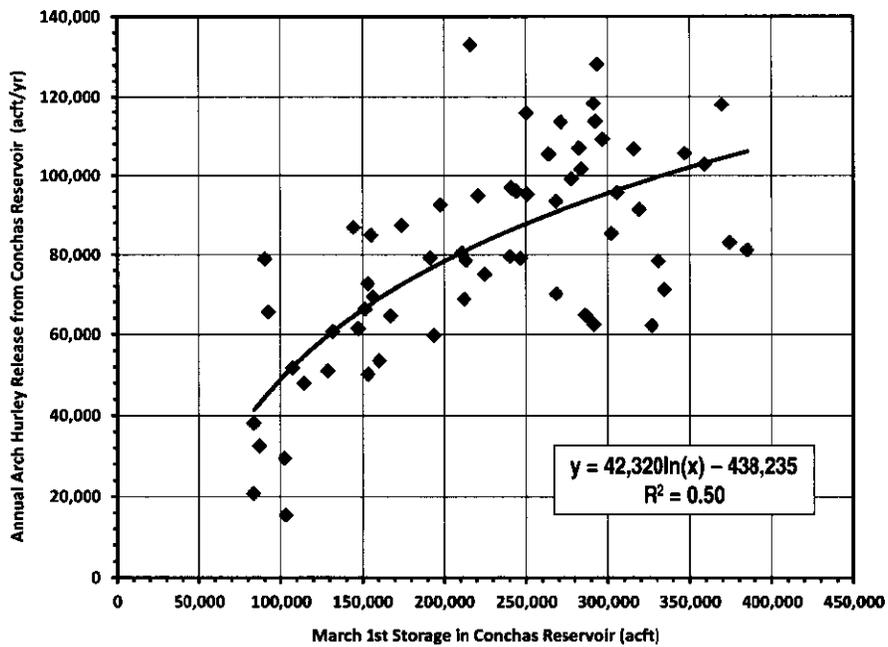


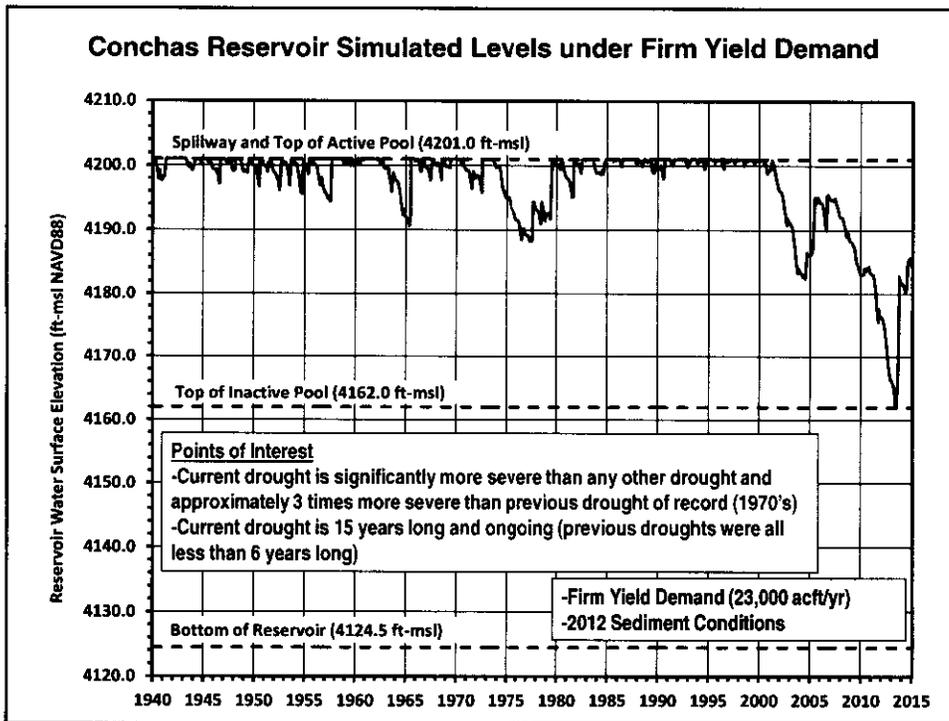
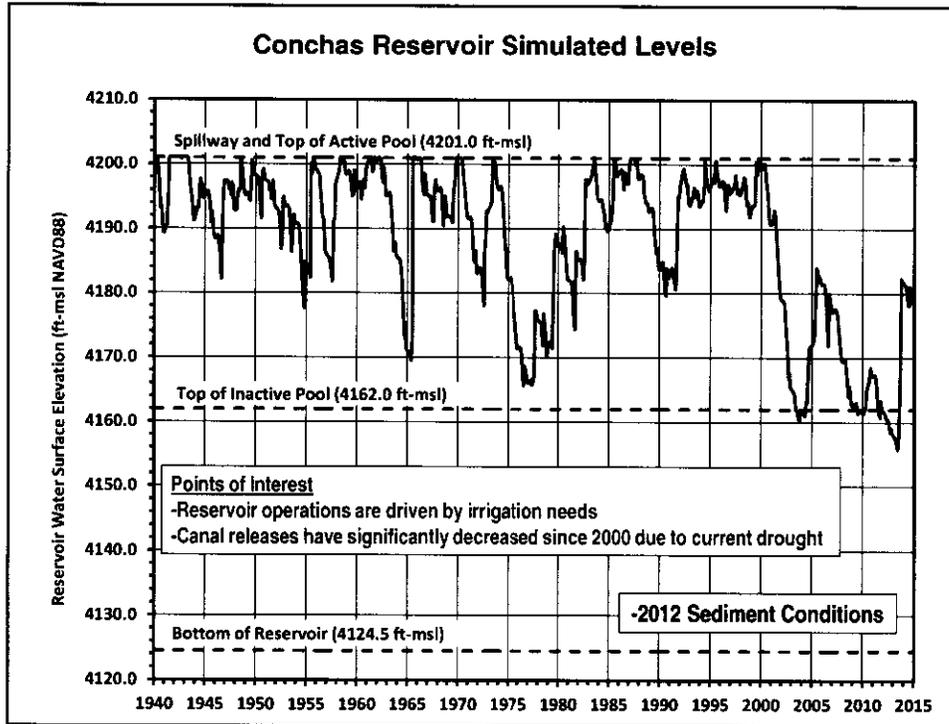
Conchas Reservoir

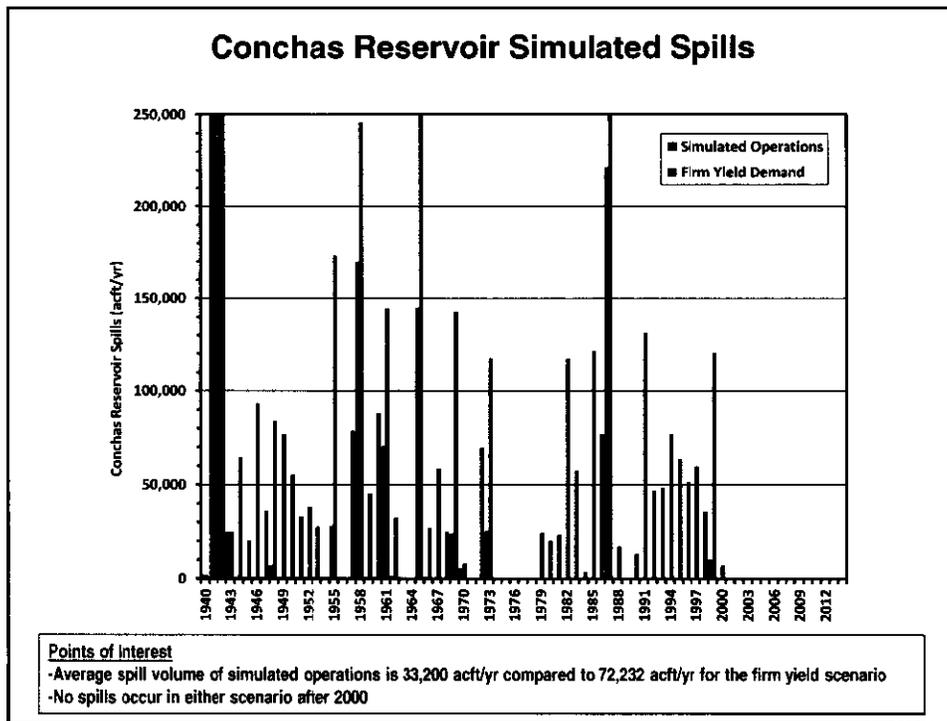
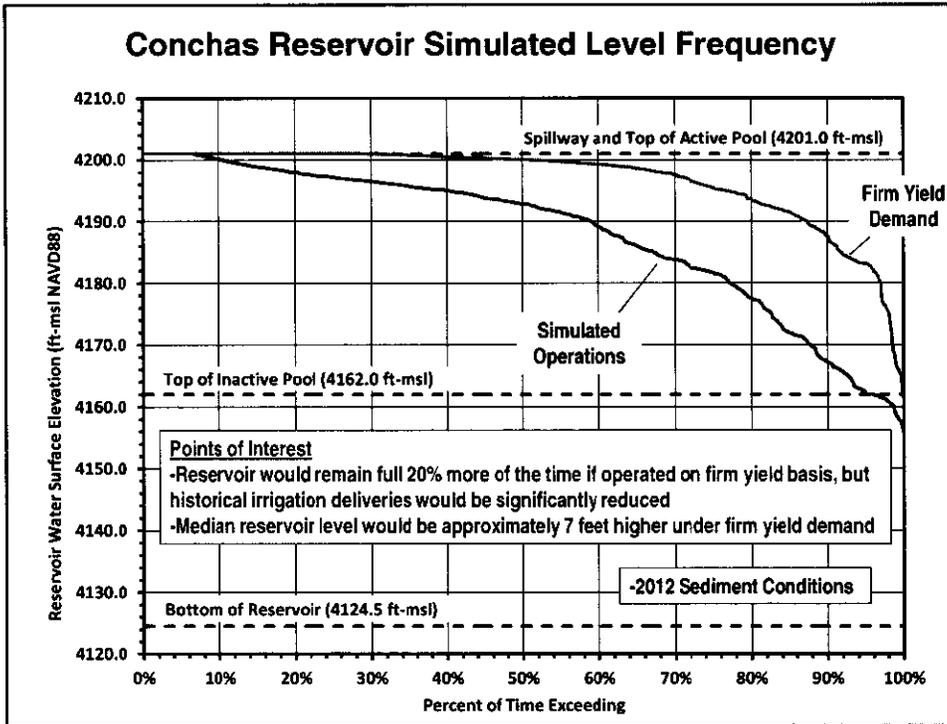
- Completed in 1939 by the US Army Corps of Engineers (USACE)
- Provides irrigation water supply (through Arch Hurley Conservancy District) and flood control
- Spillway elevation of 4201 ft-msl and inactive pool elevation of 4162 ft-msl
- Long-term sediment accumulation rate of 1,671 acft/yr



Relationship of Arch Hurley Canal Releases and March 1st Storage







Conchas Reservoir Summary

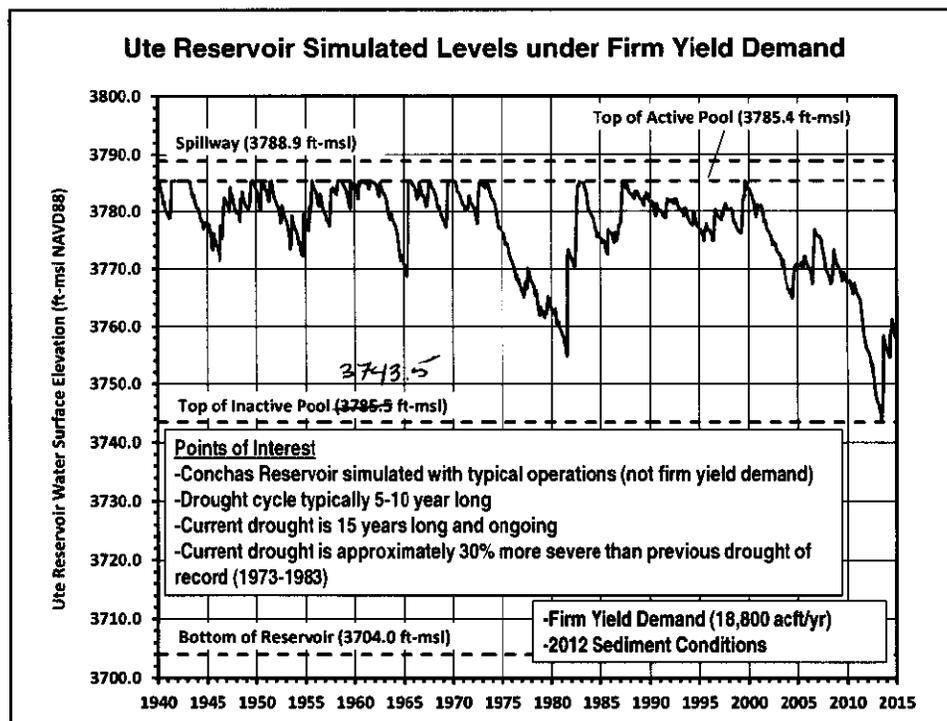
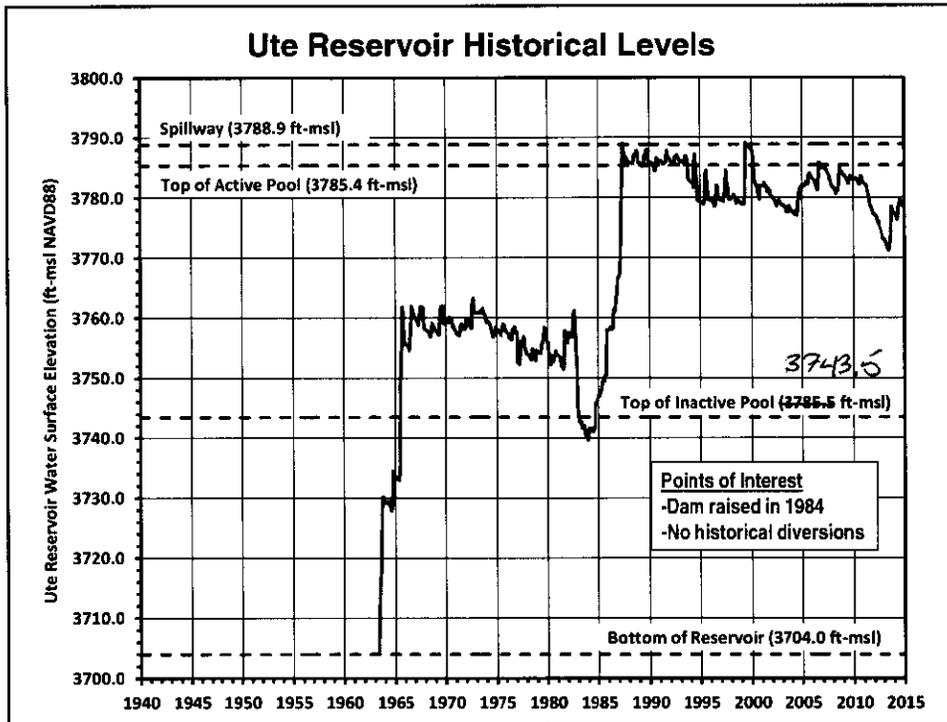
HDR Study	Firm Yield (acft/yr)
1987	66,480
2015	23,000
Reduction	43,480 (-65%)

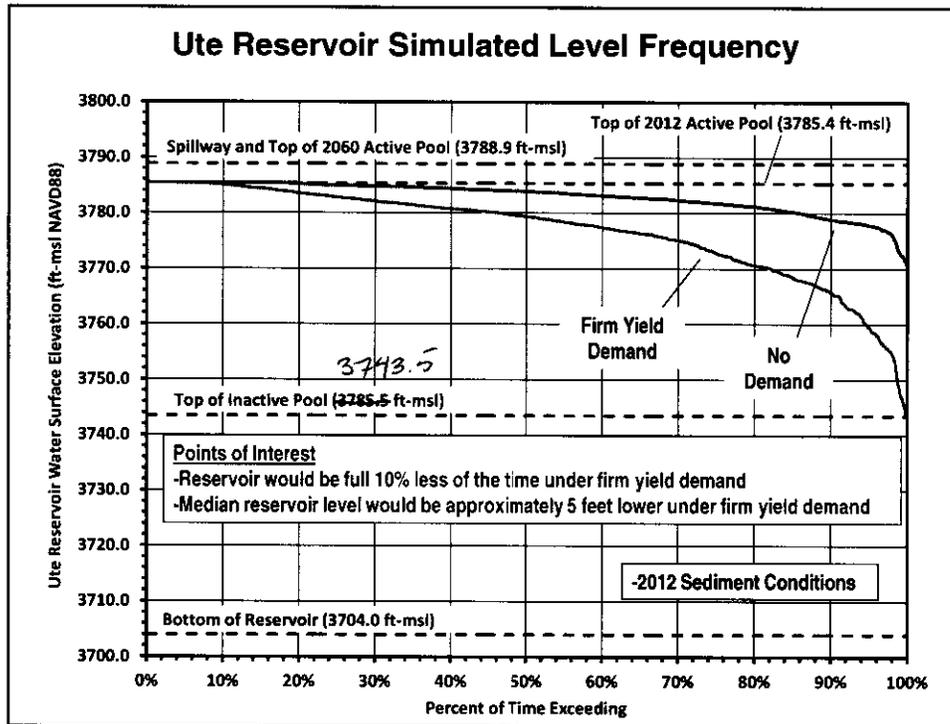
Period	Arch Hurley Average Annual Deliveries (acft/yr)
1940-2000	83,948
2001-2014	27,572
Reduction	56,376 (-67%)

Ute Reservoir

- Completed in 1963 by the New Mexico Interstate Stream Commission (NMISC)
- Dam was raised by 27 ft in 1984 with largest labyrinth spillway in the US
- Maximum conservation storage of 193,240 ac-ft allowed by interstate compact (total of 200,000 ac-ft in New Mexico below Conchas Dam)
- Spillway elevation of 3788.9 ft-msl and inactive pool elevation of ~~3785.5~~^{3743.5} ft-msl (NAVD88)
- Long-term sediment accumulation rate of 1,099 acft/yr



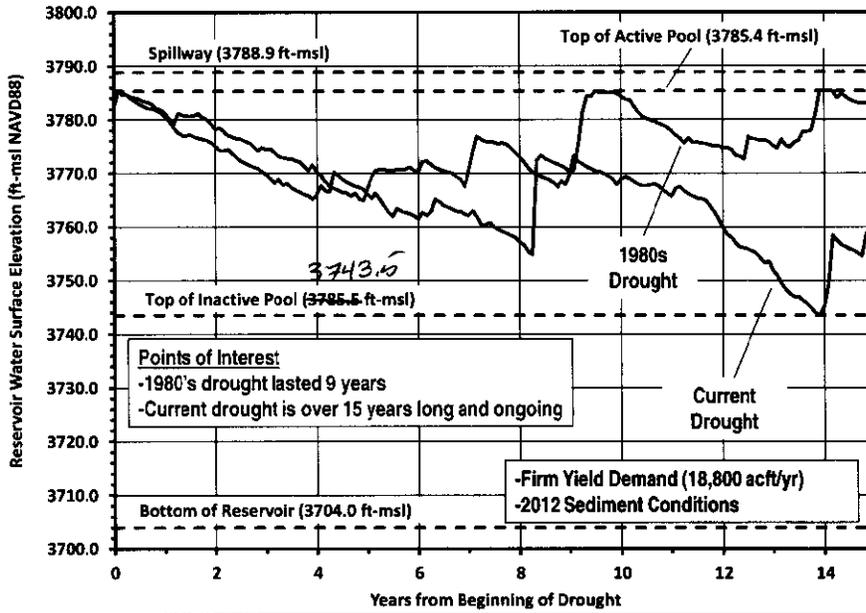




Ute Reservoir Firm Yield Summary

Study	Hydrologic Period of Record	Firm Yield (acft/yr)
1987 HDR	1940-1984	25,280
1994 NMISC	1943-1993	~22,000
2015 HDR	1940-2014	18,800

Comparison of Droughts for Ute Reservoir under Firm Yield Demand



Questions/Discussion

**QUAY COUNTY
FISCAL YEAR 2014-2015
RESOLUTION No. 30**

Authorization of Budgetary Transfer of Funds in **Law Enforcement Protection Fund (607)**

WHEREAS, at meeting of the Board of Quay County Commissioners on March 9, 2015 the following was among the proceedings;

WHEREAS, the Board of Quay County Commissioners deems it necessary to request this Budgetary Transfer of Funds

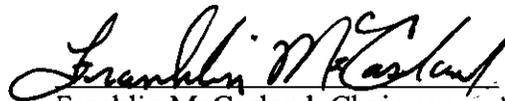
**State Fund 211
Budgetary Transfer**

	<u>TO</u>	<u>FROM</u>
607-12-48020 Equipment & Machinery	\$23,600.00	
607-12-48070 Capital Outlay-Vehicles		\$23,600.00

WHEREAS, the above activity was not contemplated at the time the final budget was adopted and approved **Expenditure Request has changed from Vehicle to Guns & Ammunition**

NOW THEREFORE, BE IT RESOLVED that after approval of the Local Government Division of the Department of Finance and Administration, the above Budgetary Transfer be made.

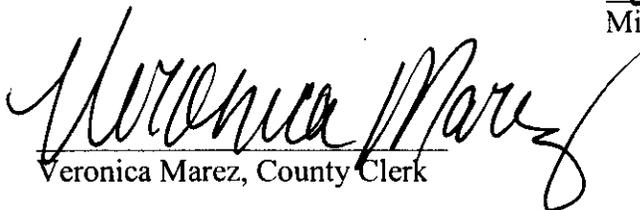
DONE at Tucumcari, County of Quay, New Mexico this 9th day of March, 2015.


Franklin McCasland, Chairman


Sue Dowell, Commissioner


Mike Cherry, Commissioner

ATTEST:


Veronica Marez, County Clerk

