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July 23, 2010

Ms. Elizabeth Taylor
Taylor & McCaleb, P.A.
Post Office Box 2540
Corrales, New Mexico 87048-2540
Via Facsimile (505) 888-6640

Re: File you requested from Mr. Whipple, entitled "1991-2001 UC Depletion Schedules (Excluding NM Schedules for Navajo Settlement and 2006 HD)"
San Juan Water Commission v. John D'Antonio, New Mexico State Engineer
11th Judicial District Court
Docket Number CV 2008-1699

Dear Liz:

Mr. Whipple has located the file that you asked for, i.e. the file entitled "1991-2001 UC Depletion Schedules (Excluding NM Schedules for Navajo Settlement and 2006 HD)". There are several draft depletion schedules in the file so, pursuant to our agreement on Monday, I am producing those documents in redacted form, to show only references to ALP and Navajo-Gallup.

The file is pretty thick. I can try faxing it to you, or can simply bring a copy to you on Monday, July 26, 2010. I doubt you'll be particularly interested in many of the documents, so hand delivering a copy might be the best course of action. Just let me know your preference.

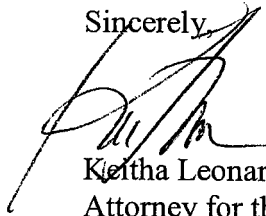
Additionally, while looking for the file, Mr. Whipple located other documents, including more draft depletion schedules and a presentation by Mr. Turney to the SJWC in 2001. Some of these draft depletion schedules were made public, so I am producing those without redaction. The drafts that were not public will be produced in redacted form, to show the references to ALP and/or Navajo-Gallup. I can either fax these documents to you, or bring them with me to the deposition. Again, just let me know.

Ms. Elizabeth Taylor
Ms. Jolene McCaleb
Mr. Richard Cole
July 23, 2010
Page 2

You can reach me on my cell phone, which is 505 920-5632. If you need to call me this weekend, my home phone is 505 989-9608.

I'll see you next week.

Sincerely,



Kertha Leonard
Attorney for the New Mexico Interstate Stream Commission

cc: Mr. Dan Rubin, Attorney for the State Engineer
Mr. DL Sanders, Chief Counsel for the Office of the State Engineer
Ms. Amy Haas, General Counsel for the Interstate Stream Commission

Liz, as we discussed, Amy Haas will hand deliver the documents to your office either tonight or tomorrow. Thanks. K.

This is the
"1991-2001 UC Depletion
Schedules (excluding NM
Schedules for Navajo Settlement
& 2006 HD)" file

OSE-2724

MEMORANDUM
November 16, 2001

To: Philip Mutz, Upper Colorado River Commissioner for New Mexico
From: John Whipple, Staff Engineer, ISC
Subject: Revised Upper Colorado River Basin Depletion Schedule for New Mexico

The Bureau of Reclamation must extend its 1988 Hydrologic Determination to determine that water is available to contract from the Navajo Reservoir Supply for potential water uses by the Navajo-Gallup Water Supply Project through the year 2060. The Project would consumptively use Upper Basin water in New Mexico and Arizona. The Upper Colorado River Commission by resolution of December 15, 1999, adopted for planning purposes depletion schedules, dated January 2000, for each of the Upper Division States that include estimates of future depletions through 2060. The January 2000 depletion schedule for New Mexico indicates possible reliance of the Navajo-Gallup Project on other States' unused apportionments.

A review of the January 2000 depletion schedule has been made in light of subsequent changes in planned depletions for the Navajo-Gallup Project, changes to the Animas-La Plata Project as now authorized by the Colorado Ute Settlement Act Amendments of 2000, and negotiations of water subcontracts between the Jicarilla Apache Nation and other users of the Navajo Reservoir Supply. Based on said review, I propose for your presentation to the Upper Colorado River Commission the attached revision, dated January 2002, to the table entitled: "Upper Colorado River Division States Depletion Schedule (New Mexico)." The revised depletion schedule for New Mexico is proposed to replace the schedule of the same title adopted by the Commission in 1999. The revised depletion schedule includes the Navajo-Gallup Project within New Mexico's Upper Basin apportionment.

Also attached for your information is a table, dated November 2001, entitled: "New Mexico Anticipated Depletion Schedule." Said table presents some detail of the depletions by project or water user included in the proposed revision to the Upper Colorado River Division States Depletion Schedule for New Mexico. Please note that the 6.0 million acre-feet yield to the Upper Basin assumes that the Upper Basin must deliver half of the Mexican Treaty obligation at Lee Ferry and that the Upper Basin States are not entitled to salvage of water by use above Lee Ferry. New Mexico does not agree with these assumptions; and consequently, the Upper Basin yield used in the attached tabulations is conservatively low. Also, the attached depletion schedules make no attempt to predict the rate or extent of transfers of uses from agricultural to domestic uses. Nor does the November 2001 New Mexico Anticipated Depletion Schedule represent a quantification or legal determination of water rights. The attached depletion schedules are proposed for use solely for long-term planning purposes and to indicate water availability for potential Navajo-Gallup Project uses in New Mexico.

Upper Colorado River Division States Depletion Schedule (New Mexico)

| Item | Year | | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig. & Stock | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 |
| Municipal/Domestic | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Power/Industrial | 56 | 56 | 56 | 57 | 58 | 58 | 58 | 58 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |
| Reservoir Evaporation | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 |
| TOTAL CURRENT DEPLETIONS | 449 | 449 | 449 | 449 | 450 | 450 | 450 | 450 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig. & Stock | 0 | 0 | 90 | 110 | 110 | 110 | 110 | 110 |
| Municipal/Domestic | 0 | 1 | 10 | 14 | 15 | 15 | 15 | 15 |
| Power/Industrial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reservoir Evaporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL ANTICIPATED DEPLETIONS | 0 | 1 | 100 | 124 | 125 | 125 | 125 | 125 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig. & Stock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Municipal/Domestic | 0 | 0 | 0 | 6 | 10 | 12 | 12 | 12 |
| Power/Industrial | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 0 | 0 | 0 | 6 | 9 | 13 | 13 | 13 |
| Reservoir Evaporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL POTENTIAL DEPLETIONS | 0 | 1 | 1 | 13 | 20 | 26 | 26 | 26 |
| Summary of Depletions | 449 | 451 | 550 | 586 | 595 | 601 | 601 | 601 |
| Evap-Storage Units | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| TOTAL DEPLETIONS | 507 | 509 | 608 | 644 | 653 | 659 | 659 | 659 |
| State Share of 6.0 MAF | 669 | 669 | 669 | 669 | 669 | 669 | 669 | 669 |
| Remaining Available | 162 | 160 | 61 | 25 | 16 | 10 | 10 | 10 |
| Percent of State Share | 24% | 24% | 9% | 4% | 2% | 1% | 1% | 1% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Basin Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.

NEW MEXICO ANTICIPATED DEPLETION SCHEDULE

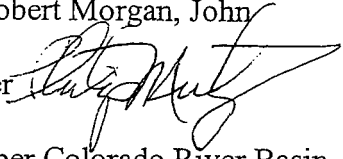
November 2001

| Year | 1990 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|--|------------|------------|------------|------------|------------|------------|------------|------------|
| CURRENT DEPLETIONS (1) | | | | | | | | |
| Agricultural- Irrig. & Stock (rounded) | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 |
| Navajo Irrigation: | | | | | | | | |
| NIIP | 149.4 | 149.4 | 149.4 | 149.4 | 149.4 | 149.4 | 149.4 | 149.4 |
| Fruitland-Cambridge | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| Hogback-Cudei | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 |
| Chaco River | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 | 3.1 |
| Crystal | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| Navajo Irrigation Subtotal | 173.7 | 173.7 | 173.7 | 173.7 | 173.7 | 173.7 | 173.7 | 173.7 |
| Non-Indian Irrigation: | | | | | | | | |
| Above Navajo Dam (inc. Jicarilla) | 1.3 | 1.3 | 1.3 | 1.3 | 1.7 | 1.7 | 1.7 | 1.7 |
| Upper San Juan | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| Hammond | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 | 9.2 |
| Animas | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 | 31.7 |
| La Plata | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 | 5.1 |
| Farmers Mutual Ditch | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| Westwater | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Jewett Valley | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| Chaco River | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| Non-Indian Irrigation Subtotal | 67.8 | 67.8 | 67.8 | 67.8 | 68.2 | 68.2 | 68.2 | 68.2 |
| Stockpond Evap and Stock | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 | 4.3 |
| Ag.- Irrig. & Stock Total | 245.8 | 245.8 | 245.8 | 245.8 | 246.2 | 246.2 | 246.2 | 246.2 |
| Municipal/Domestic (rounded) | | | | | | | | |
| Municipal and Industrial | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 |
| Scattered Rural Dom. (inc. Jicarilla) | 1.4 | 1.4 | 1.4 | 1.4 | 1.5 | 1.5 | 1.6 | 1.6 |
| Municipal/Domestic Total | 10.3 | 10.3 | 10.3 | 10.3 | 10.4 | 10.4 | 10.5 | 10.5 |
| Power/Industrial (rounded) | | | | | | | | |
| PNM - Navajo Reservoir supply (2) | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 | 16.2 |
| Utah International, inc. lease to PNM | 37.0 | 37.0 | 37.0 | 38.0 | 38.0 | 39.0 | 39.0 | 39.0 |
| Bloomfield Industrial | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| Power/Industrial Total | 55.7 | 55.7 | 55.7 | 56.7 | 57.7 | 57.7 | 57.7 | 57.7 |
| Minerals | | | | | | | | |
| Export - San Juan-Chama Project | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |
| Reservoir Evaporation (rounded) | | | | | | | | |
| Navajo Reservoir Evap | 28.3 | 28.3 | 27.5 | 27.0 | 27.0 | 27.0 | 27.0 | 27.0 |
| Small Reservoir Evap | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| Reservoir Evaporation Total | 29.5 | 29.5 | 28.7 | 28.2 | 28.2 | 28.2 | 28.2 | 28.2 |
| TOTAL CURRENT DEPLETIONS | 449 | 449 | 449 | 449 | 450 | 450 | 450 | 450 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural- Irrig. & Stock (rounded) | 0 | 0 | 90 | 110 | 110 | 110 | 110 | 110 |
| NIIP Completion (3) | | | | | | | | |
| Fruitland/Hogback Rehabilitation | 0.0 | 0.0 | 90.0 | 104.6 | 104.6 | 104.6 | 104.6 | 104.6 |
| Ag.- Irrig. & Stock Total | 0.0 | 0.0 | 90.0 | 109.6 | 109.6 | 109.6 | 109.6 | 109.6 |
| Municipal/Domestic (rounded) | | | | | | | | |
| Animas-La Plata: | | | | | | | | |
| SJWC | 0.0 | 1.0 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 | 10.4 |
| Navajo | 0.0 | 0.0 | 0.0 | 2.0 | 2.3 | 2.3 | 2.3 | 2.3 |
| LPCD | 0.0 | 0.0 | 0.0 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| Ridges Basin Reservoir Evap | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Animas-La Plata Subtotal | 0.0 | 1.0 | 10.4 | 13.3 | 13.6 | 13.6 | 13.6 | 13.6 |
| Jicarilla (4) | 0.0 | 0.0 | 0.0 | 0.8 | 1.4 | 1.8 | 1.8 | 1.8 |

MEMORANDUM

December 5, 2001

TO: Larry Anderson, Scott Balcomb, Tom Davidson and Frank Maynes, Upper Colorado River Commissioners, with copies to Robert Morgan, John Shields, Randy Seaholm and Wayne Cook

FROM: Philip Mutz, Upper Colorado River Commissioner 

SUBJECT: Revised Depletion Schedule for New Mexico-Upper Colorado River Basin

Earlier this year at a meeting in Denver, I briefed the proposed Navajo-Gallup Municipal Water Supply Project which would include diversion of water from the San Juan River in New Mexico to provide a domestic/municipal water supply to communities on the Navajo Reservation and the City of Gallup in New Mexico and also to the Window Rock-Ft. Defiance area on the Navajo Reservation in Arizona. As currently planned, the project would consumptively use water apportioned to New Mexico by the Upper Colorado River Basin Compact in both the Upper and Lower Basin areas of New Mexico. To my knowledge, the water supply for the planned use in Arizona has not been formalized.

Water for the use in New Mexico would be by contract with the Secretary of the Interior and possibly by subcontract with the Jicarilla Apache Tribe for a part of the total. Also, Jicarilla is looking at a branch line that would provide water to communities in the southern portion of the Jicarilla Reservation, and that amount of water would come under the existing contract between the Secretary and Jicarilla. Potential contracts could extend to the year 2060. To determine that water is available to contract for the planned use, the Bureau of Reclamation must extend the 1988 Hydrologic Determination to the year 2060.

The Upper Colorado River Commission by resolution dated December 15, 1999, adopted for planning purposes, depletion schedules for the Upper Division States dated January 2000, that include estimates of depletions through the year 2060. A review of the January 2000 depletion projection for New Mexico has been made in light of subsequent changes in planning for the Navajo-Gallup Project, changes to the Animas-La Plata Project by the Colorado Ute Settlement Act Amendments of 2000, changes in depletion by NIIP, negotiation of subcontracts between Jicarilla and other existing users of water from the Navajo Reservoir Supply and other small changes to certain depletions contained in the January 2000 projections. In light of the review, a revised depletion schedule for New Mexico has been prepared and may be proposed to replace the January 2000 schedule for New Mexico adopted by the Commission. The revised schedule is attached and following are changes made in the revised schedule.

- Under Current Depletions: for the periods **2020** through **2060** the totals have each been reduced 1,000 to a new total of 449, 000 in 2020 and to a new total of 450,000 in each of the periods **2030** through **2060**. The reduction is in reservoir evaporation.
- Under Anticipated Depletions: for the period **2010** agricultural has been increased 10,000 for Navajo Indian Irrigation Project (NIIP), municipal has been increased 5,000 for Animas-La Plata Project (ALP) and evaporation has been reduced 1,000 for a total increase of 14,000; for the periods **2020** through **2060** agricultural has been decreased 11,000 to reflect reduction in transfer of depletion back to Fruitland and Hogback projects from NIIP, municipal has been reduced up to 3,000 for minor changes in ALP and Jicarilla, power has been decreased 4,000 for a change in Jicarilla and evaporation has been reduced 1,000; a decrease in total of up to 19,000 in **2060**.
- Under Potential Depletions: for the periods **2020** through **2060** municipal has been increased up to 3,000 for Navajo-Gallup Project, power has been decreased 4,000 for a change in Jicarilla and export has been increased 4,000 for Navajo-Gallup; an increase in total of 2,000 for the periods **2040** through **2060**.
- For Total Depletions: a decrease of up to 18,000 in **2060**.
- For Remaining Available: an increase of up to 18,000 in **2060**.

The existing contract between the Secretary of the Interior and Public Service Company of New Mexico (PNM) for 16,200 from the Navajo Reservoir Supply expires in **2005**. PNM and Jicarilla have subcontracted for the same amount of water from the same source effective **2006-2027** with commitment to negotiate for contract extension.

The total depletion by NIIP is 254,000 assuming 5 % average fallow acreage.

The total depletion by ALP including reservoir evaporation is 14,000 by **2020**.

The Navajo-Gallup Project on-line by **2020** with total depletion of 26,000 by **2040**; of the total depletion, 7,500 assumed by subcontract with Jicarilla; total of export is 13,000 of which 12,000 would be to the Little Colorado River Basin and 1,000 to the Rio Grande Basin.

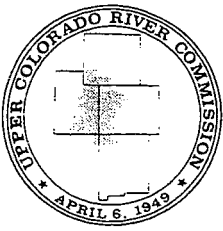
Upper Colorado River Division States Depletion Schedule (New Mexico)

| Item | Year | | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig. & Stock | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 |
| Municipal/Domestic | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Power/Industrial | 56 | 56 | 56 | 57 | 58 | 58 | 58 | 58 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |
| Reservoir Evaporation | 29 | 29 | 29 | 28 | 28 | 28 | 28 | 28 |
| TOTAL CURRENT DEPLETIONS | 449 | 449 | 449 | 449 | 450 | 450 | 450 | 450 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig. & Stock | 0 | 0 | 90 | 110 | 110 | 110 | 110 | 110 |
| Municipal/Domestic | 0 | 1 | 10 | 14 | 15 | 15 | 15 | 15 |
| Power/Industrial | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reservoir Evaporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL ANTICIPATED DEPLETIONS | 0 | 1 | 100 | 124 | 125 | 125 | 125 | 125 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig. & Stock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Municipal/Domestic | 0 | 0 | 0 | 6 | 10 | 12 | 12 | 12 |
| Power/Industrial | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 0 | 0 | 0 | 6 | 9 | 13 | 13 | 13 |
| Reservoir Evaporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL POTENTIAL DEPLETIONS | 0 | 1 | 1 | 13 | 20 | 26 | 26 | 26 |
| Summary of Depletions | 449 | 451 | 550 | 586 | 595 | 601 | 601 | 601 |
| Evap-Storage Units | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| TOTAL DEPLETIONS | 507 | 509 | 608 | 644 | 653 | 659 | 659 | 659 |
| State Share of 6.0 MAF | 669 | 669 | 669 | 669 | 669 | 669 | 669 | 669 |
| Remaining Available | 162 | 160 | 61 | 25 | 16 | 10 | 10 | 10 |
| Percent of State Share | 24% | 24% | 9% | 4% | 2% | 1% | 1% | 1% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Basin Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.



UPPER COLORADO RIVER COMMISSION

1999 DEC 27 AM 9:22

355 South 400 East • Salt Lake City • Utah 84111 • 801-531-1150 • FAX 801-531-9705

OFFICE OF THE
STATE ENGINEER
A.C.S. SANTA FE, NM

Handwritten notes:
UC-3
Component Addition
copy: Upper Sta. - 5
Consumptive Use

MEMORANDUM

To: Interested Agencies/Parties

From: Executive Director

Date: December 23, 1999

Subject: ESTIMATES OF FUTURE DEPLETIONS IN THE
UPPER DIVISION STATES

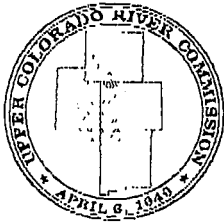
For several years, prior to July 1994, there had been substantial concern surrounding "Official" depletion schedules for use of Colorado River water in the Upper Basin. However, there is a need to use depletion schedules for long-range planning and power-rate studies on a continuing basis. The Upper Division States, through the Commission, recognize this ongoing need and have been actively reviewing and revising estimates of future uses of Colorado River water in their respective States. These reviews have been completed utilizing the most recent information on future water, power and energy developments.

Upper Division States depletion schedules were revised in July 1994 and also revised unofficially in 1996. The Upper Colorado River Commission at its December 15, 1999 meeting passed a resolution not objecting to the use of the January 2000 States' depletions schedule for planning and water supply studies as appropriate. The resolution and schedule are enclosed.

If you have any questions about the schedules, please contact either Commission staff or the individual State water resources agencies.

WEC:pj

Enclosures



UPPER COLORADO RIVER COMMISSION

355 South 400 East • Salt Lake City • Utah 84111 • 801-531-1150 • FAX 801-531-9705

To: Upper Colorado River Commissioners
Legal & Engineering Committee Members

From: Executive Director

Date: December 6, 1999

Subject: UPPER DIVISION STATES' DEPLETION SCHEDULE "2000"

Attached are the revised "2000" Depletion Tables for each of the Upper Division States as well as a total schedule for the Upper Division.

It is our intent to have the Commission not object to the use of the total schedule for use in future model studies, evaluations, etc., by Reclamation, Western and others. Please carefully review this data and let us know by close of business December 9, 1999 of any corrections that need to be made.

We sincerely appreciate all the work each State's staff has done in revising its individual projections and are looking forward to favorable Commission action on this matter on December 15, 1999 at our meeting in Las Vegas.

Attachment

Upper Colorado River Division States Depletion Schedule (Total)

| ITEM | YEAR | | | | | | | |
|-------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 2717 | 2717 | 2717 | 2717 | 2717 | 2717 | 2717 | 2717 |
| Municipal/Domestic | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| Power/Industrial | 178 | 181 | 182 | 183 | 184 | 184 | 184 | 184 |
| Minerals | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Export | 886 | 886 | 886 | 886 | 886 | 886 | 886 | 886 |
| Reservoir Evaporation | 168 | 169 | 169 | 169 | 169 | 169 | 169 | 169 |
| TOTAL CURRENT DEPLETIONS | 4037 | 4040 | 4041 | 4042 | 4043 | 4043 | 4043 | 4043 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 50 | 170 | 206 | 204 | 199 | 198 | 193 |
| Municipal/Domestic | 0 | 25 | 118 | 158 | 193 | 224 | 254 | 257 |
| Power/Industrial | 0 | 40 | 60 | 71 | 85 | 93 | 105 | 114 |
| Minerals | 0 | 3 | 14 | 27 | 44 | 50 | 53 | 57 |
| Export | 0 | 126 | 205 | 252 | 289 | 334 | 354 | 359 |
| Reservoir Evaporation | 0 | 3 | 4 | 4 | 4 | 5 | 6 | 7 |
| TOTAL ANTICIPATED DEPLETIONS | 0 | 247 | 571 | 718 | 819 | 905 | 970 | 987 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 1 | 26 | 32 | 35 | 46 | 101 | 105 |
| Municipal/Domestic | 0 | 0 | 1 | 6 | 8 | 11 | 33 | 56 |
| Power/Industrial | 0 | 1 | 3 | 6 | 22 | 34 | 48 | 61 |
| Minerals | 0 | 0 | 1 | 3 | 14 | 21 | 51 | 66 |
| Export | 0 | 0 | 0 | 8 | 14 | 21 | 24 | 27 |
| Reservoir Evaporation | 0 | 0 | 0 | 1 | 3 | 4 | 6 | 8 |
| TOTAL POTENTIAL DEPLETIONS | 0 | 2 | 31 | 56 | 95 | 137 | 262 | 323 |
| Summary of Depletions | 4037 | 4289 | 4643 | 4816 | 4957 | 5085 | 5275 | 5354 |
| Evap-Storage Units | 546 | 546 | 546 | 546 | 546 | 546 | 546 | 546 |
| TOTAL DEPLETIONS | 4583 | 4835 | 5189 | 5362 | 5503 | 5631 | 5821 | 5900 |
| Upper Division Allocation | 5950 | 5950 | 5950 | 5950 | 5950 | 5950 | 5950 | 5950 |
| Remaining Available | 1367 | 1115 | 761 | 588 | 447 | 319 | 129 | 50 |
| Percent Unused | 23% | 19% | 13% | 10% | 8% | 5% | 2% | 1% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation, is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.

Upper Colorado River Division States Depletion Schedule (Utah)

| ITEM | YEAR | | | | | | | |
|------------------------------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 591 | 591 | 591 | 591 | 591 | 591 | 591 | 591 |
| Municipal/Domestic | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Power/Industrial | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| Minerals | | | | | | | | |
| Export | 154 | 154 | 154 | 154 | 154 | 154 | 154 | 154 |
| Reservoir Evaporation | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| TOTAL CURRENT DEPLETIONS | 833 | 833 | 833 | 833 | 833 | 833 | 833 | 833 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 0 | 29 | 33 | 27 | 21 | 15 | 11 |
| Municipal/Domestic | 0 | 0 | 7 | 35 | 63 | 91 | 119 | 143 |
| Power/Industrial | | | | | | | | |
| Minerals | | | | | | | | |
| Export | 0 | 0 | 81 | 81 | 106 | 120 | 141 | 157 |
| Reservoir Evaporation | | | | | | | | |
| TOTAL ANTICIPATED DEPLETION | 0 | 0 | 118 | 149 | 196 | 232 | 275 | 311 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 0 | 25 | 25 | 25 | 25 | 25 | 25 |
| Municipal/Domestic | | | | | | | | |
| Power/Industrial | 0 | 0 | 2 | 3 | 8 | 9 | 13 | 16 |
| Minerals | 0 | 0 | 1 | 3 | 8 | 9 | 13 | 16 |
| Export | | | | | | | | |
| Reservoir Evaporation | | | | | | | | |
| TOTAL POTENTIAL DEPLETIONS | 0 | 0 | 28 | 31 | 40 | 43 | 50 | 57 |
| Summary of Depletions | 833 | 833 | 979 | 1013 | 1070 | 1108 | 1158 | 1202 |
| Evap-Storage Units | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| TOTAL DEPLETIONS | 953 | 953 | 1099 | 1133 | 1190 | 1228 | 1278 | 1322 |
| State Share of 6.0 MAF | 1369 | 1369 | 1369 | 1369 | 1369 | 1369 | 1369 | 1369 |
| Remaining Available | 416 | 416 | 270 | 236 | 179 | 141 | 91 | 47 |
| Percent of State Share | 30% | 30% | 20% | 17% | 13% | 10% | 7% | 3% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation, is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.

Upper Colorado River Division States Depletion Schedule (Colorado

| ITEM | YEAR | | | | | | | |
|------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Municipal/Domestic | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| Power/Industrial | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Minerals | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Export | 606 | 606 | 606 | 606 | 606 | 606 | 606 | 606 |
| Reservoir Evaporation | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 |
| TOTAL CURRENT DEPLETIONS | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 | 2265 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 20 | 49 | 49 | 52 | 52 | 54 | 57 |
| Municipal/Domestic | 0 | 18 | 76 | 81 | 82 | 82 | 85 | 86 |
| Power/Industrial | 0 | 40 | 57 | 64 | 73 | 73 | 77 | 80 |
| Minerals | 0 | 0 | 7 | 17 | 32 | 32 | 32 | 32 |
| Export | 0 | 45 | 122 | 142 | 162 | 182 | 182 | 182 |
| Reservoir Evaporation | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| TOTAL ANTICIPATED DEPLETION | 0 | 125 | 313 | 355 | 403 | 423 | 432 | 439 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 1 | 1 | 5 | 5 | 12 | 64 | 65 |
| Municipal/Domestic | 0 | 0 | 1 | 1 | 1 | 1 | 13 | 13 |
| Power/Industrial | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 |
| Minerals | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 |
| Export | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 2 |
| Reservoir Evaporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL POTENTIAL DEPLETIONS | 0 | 1 | 2 | 6 | 7 | 15 | 79 | 80 |
| Summary of Depletions | 2265 | 2391 | 2580 | 2626 | 2675 | 2703 | 2776 | 2784 |
| Evap-Storage Units | 295 | 295 | 295 | 295 | 295 | 295 | 295 | 295 |
| TOTAL DEPLETIONS | 2560 | 2686 | 2875 | 2921 | 2970 | 2998 | 3071 | 3079 |
| Colorado Allocation | 3079 | 3079 | 3079 | 3079 | 3079 | 3079 | 3079 | 3079 |
| Remaining Available | 519 | 393 | 204 | 158 | 109 | 81 | 8 | 0 |
| Percent of State Share | 17% | 13% | 7% | 5% | 4% | 3% | 0% | 0% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation, is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.

Upper Colorado River Division States Depletion Schedule (New Mex

| ITEM | YEAR | | | | | | | |
|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 246 | 246 | 246 | 246 | 246 | 246 | 246 | 246 |
| Municipal/Domestic | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Power/Industrial | 56 | 56 | 56 | 57 | 58 | 58 | 58 | 58 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |
| Reservoir Evaporation | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| TOTAL CURRENT DEPLETIONS | 449 | 449 | 449 | 450 | 451 | 451 | 451 | 451 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 0 | 80 | 121 | 121 | 121 | 121 | 121 |
| Municipal/Domestic | 0 | 0 | 5 | 11 | 16 | 17 | 18 | 18 |
| Power/Industrial | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reservoir Evaporation | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 |
| TOTAL ANTICIPATED DEPLETION | 0 | 0 | 86 | 133 | 138 | 141 | 143 | 144 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Municipal/Domestic | 0 | 0 | 0 | 5 | 7 | 10 | 10 | 10 |
| Power/Industrial | 0 | 1 | 1 | 3 | 4 | 5 | 5 | 5 |
| Minerals | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Export | 0 | 0 | 0 | 4 | 6 | 9 | 9 | 9 |
| Reservoir Evaporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL POTENTIAL DEPLETIONS | 0 | 1 | 1 | 12 | 17 | 24 | 24 | 24 |
| Summary of Depletions | 449 | 450 | 536 | 595 | 606 | 616 | 618 | 619 |
| Evap-Storage Units | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| TOTAL DEPLETIONS | 507 | 508 | 594 | 653 | 664 | 674 | 676 | 677 |
| State Share of 6.0 MAF | 669 | 669 | 669 | 669 | 669 | 669 | 669 | 669 |
| Remaining Available | 162 | 161 | 75 | 16 | 5 | -5 | -7 | -8 |
| Percent of State Share | 24% | 24% | 11% | 2% | 1% | -1% | -1% | -1% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation, is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.

Upper Colorado River Division States Depletion Schedule (Wyoming)

| ITEM | YEAR | | | | | | | |
|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 1991-95 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ |
| CURRENT DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 379 | 379 | 379 | 379 | 379 | 379 | 379 | 379 |
| Municipal/Domestic | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Power/Industrial | 42 | 44 | 45 | 45 | 45 | 45 | 45 | 45 |
| Minerals | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| Export | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Reservoir Evaporation | 36 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| TOTAL CURRENT DEPLETIONS | 489 | 493 | 494 | 494 | 494 | 494 | 494 | 494 |
| ANTICIPATED DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 1 | 8 | 9 | 10 | 11 | 12 | 15 |
| Municipal/Domestic | 0 | 0 | 2 | 3 | 5 | 7 | 8 | 10 |
| Power/Industrial | 0 | 0 | 3 | 7 | 12 | 18 | 25 | 30 |
| Minerals | 0 | 3 | 7 | 10 | 12 | 18 | 21 | 25 |
| Export | 0 | 0 | 2 | 4 | 7 | 11 | 15 | 20 |
| Reservoir Evaporation | 0 | 1 | 1 | 1 | 1 | 2 | 3 | 4 |
| TOTAL ANTICIPATED DEPLETIO | 0 | 4 | 23 | 34 | 47 | 66 | 84 | 104 |
| POTENTIAL DEPLETIONS | | | | | | | | |
| Agricultural-Irrig & Stock | 0 | 0 | 0 | 2 | 5 | 9 | 12 | 15 |
| Municipal/Domestic | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 33 |
| Power/Industrial | 0 | 0 | 0 | 0 | 10 | 20 | 30 | 40 |
| Minerals | 0 | 0 | 0 | 0 | 5 | 10 | 36 | 48 |
| Export | 0 | 0 | 0 | 4 | 8 | 12 | 15 | 18 |
| Reservoir Evaporation | 0 | 0 | 0 | 1 | 3 | 4 | 6 | 8 |
| TOTAL POTENTIAL DEPLETIONS | 0 | 0 | 0 | 7 | 31 | 55 | 109 | 162 |
| Summary of Depletions | 489 | 497 | 517 | 535 | 571 | 615 | 687 | 760 |
| Evap-Storage Units | 73 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| TOTAL DEPLETIONS | 562 | 570 | 590 | 608 | 644 | 688 | 760 | 833 |
| Upper Division Allocation | 833 | 833 | 833 | 833 | 833 | 833 | 833 | 833 |
| Remaining Available | 271 | 263 | 244 | 225 | 189 | 145 | 74 | 0 |
| Percent of State Share | 32% | 32% | 29% | 27% | 23% | 17% | 9% | 0% |

NOTE: This depletion schedule does not attempt to interpret the Colorado River Compact, the Upper Colorado River Compact, or any other element of the "Law of the River." This schedule should not be construed as an acceptance of any assumption that limits the Upper Colorado River Basin's depletion.

In this schedule, the Upper Division Allocation is listed, for planning purposes only, as 5,950,000 acre-feet. For planning purposes, the total Upper Colorado River Basin Allocation, is 6,000,000 acre-feet, of which 50,000 acre-feet is the Upper Basin allocation to Arizona. This estimate does not constitute an endorsement of the Bureau of Reclamation's 1988 Hydrologic Determination.

"Evap-Storage Units" refers to the total and individual States portions of evaporation from the major reservoirs constructed under the Colorado River Storage Project Act. These include Flaming Gorge, Curecanti and Glen Canyon.

*Done
10/7/99
JW*

Interstate Stream Commission

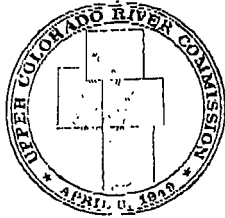
(505) 827-6160
Fax: (505) 827-6188

FAX TRANSMISSION COVER SHEET

Date: *October 7, 1999*
To: *Mr. Wayne Cook*
Fax: *(801) 531-9705*
Re: *1965 Framework Study*
Sender: *John J. Whipple* *JW*

*YOU SHOULD RECEIVE 2 PAGE(S), INCLUDING THIS COVER SHEET. IF
YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (505) 827-6160.*

1965 Framework Study is primarily agricultural use with minor amounts of miscellaneous uses. We do not have information to project future transfers from 1965 framework study uses to M&I uses. Call me if you have any questions.



UPPER COLORADO RIVER COMMISSION

355 South 400 East • Salt Lake City • Utah 84111 • 801-531-1150 • FAX 801-531-9705

MEMORANDUM - FAX

To: John Shields, Wyoming
Randy Seaholm, Colorado
Robert King, Utah
Jay Groseclose, New Mexico

From: Executive Director

Date: August 20, 1999

Subject: DEPLETION STUDIES

You should have received (by mail) a copy of our recently completed depletion graphs (by States) comparing historical depletions (1971-1995) with our future projections. Year 1991 IS NOT 1991 historical but 1990 projection data (sorry-only way to plot!). From these plots, we can see how our historical use compares to our existing projections.

As we have discussed, we would like to carefully review these data and determine if our future projection tables need to be revised/updated. I propose that we make this effort a subject of an Engineering Committee/Commissioner training session in mid-October. We need to approve a "2000" depletion table to replace our "1994" official depletion table at our Commission meeting in December.

Attached is a copy of my assessment of this data. Here are my questions (see notes on graphics).

Utah

- * Is the evaporation projection low?
- * Is the ag' projection low.
- * We need to be prepared to justify the large departure in M&I in 2010, 2020, etc.

Wyoming

- * Is ag 100,000 AF low.
- * Is the evaporation projection low.
- * Is the M&I high near term?

John Shields, Wyoming
Randy Seaholm, Colorado
Robert King, Utah
Jay Groseclose, New Mexico
August 20, 1999
Page 2

Colorado

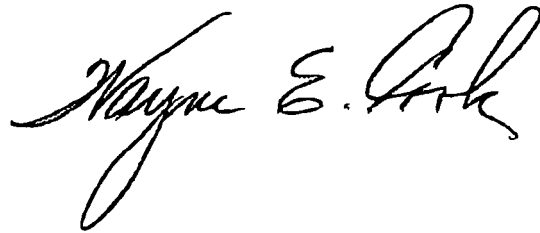
- * Can we explain differences in exports/M&I uses.
- * Evaporate projection appears low.
- * Is af okay? Long-term ag seems to support projection. What about ag use since 1987? Is it just a result of 1987-1992 drought?

New Mexico

- * Evaporation projection seems low. *higher storage - not full demand on Navajo probably doesn't have CRSP evap charged to NM. Navajo ~26.5*
- * Exports? What's happening with historical exports? *initial P.II, Heron, wet + full in mid*
- * Irrigated ag seems to be at least 100,000 AF high in our near-term projections. *PII? schind schedule, but now have consultation on rest of project we had some corrq. in for EB. Ag #5 seems to be ~~some~~ *higher* #5*

Would it be possible to have a breakfast meeting on August 25 (near Cotton tree Hotel) before your salinity work group meeting? We could also meet at Robert's office before 10:00 a.m. *an increase 140,000 from*

Let's discuss the details of an informal meeting when we see each other in Los Angeles. *Phil is updating #5 now*
books include New Mexico = 200 + Navajo
where as Phil I assumed 200
with sales being 150 incl. CRSP

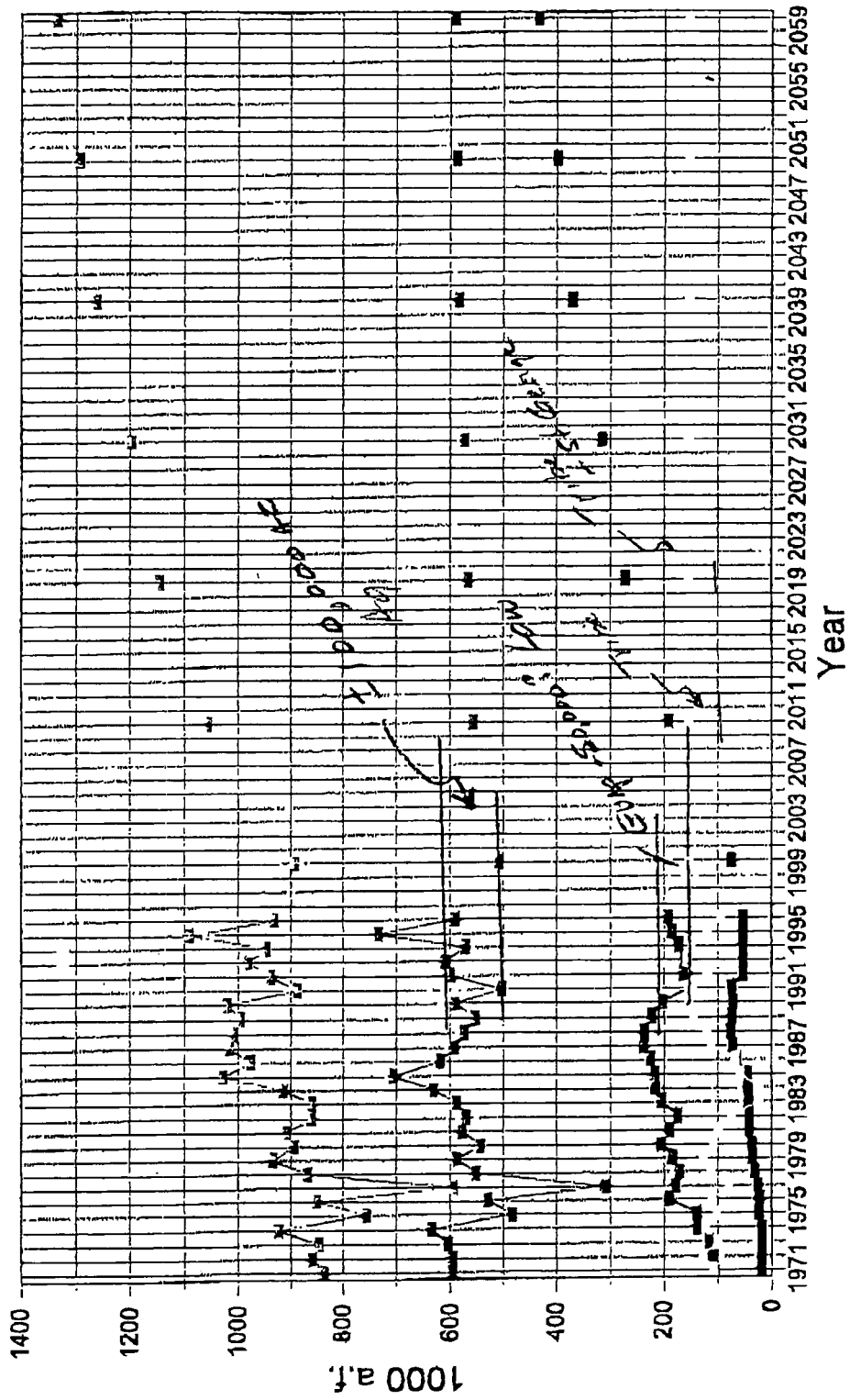


WEC:pj

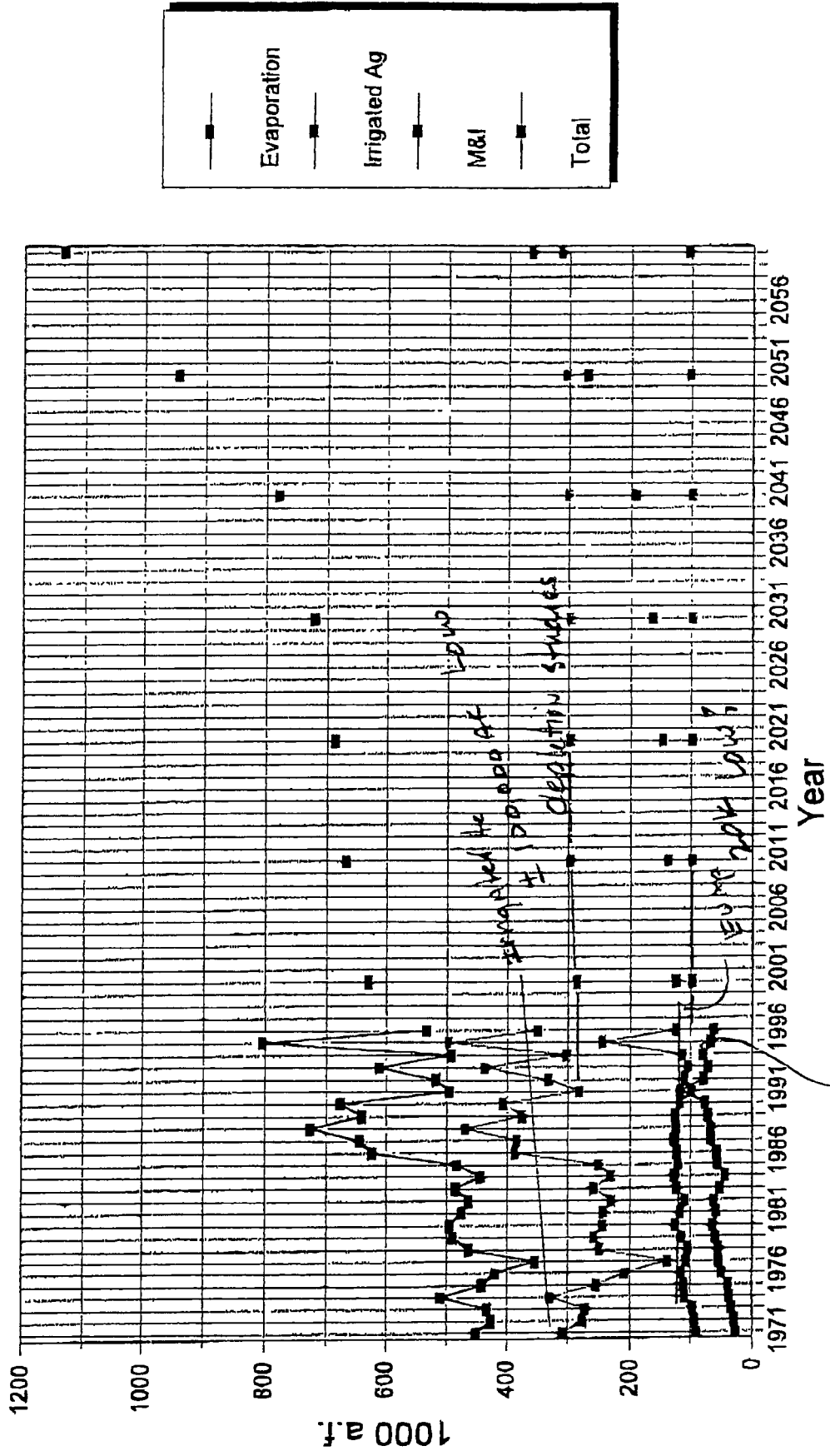
Attachments

Utah

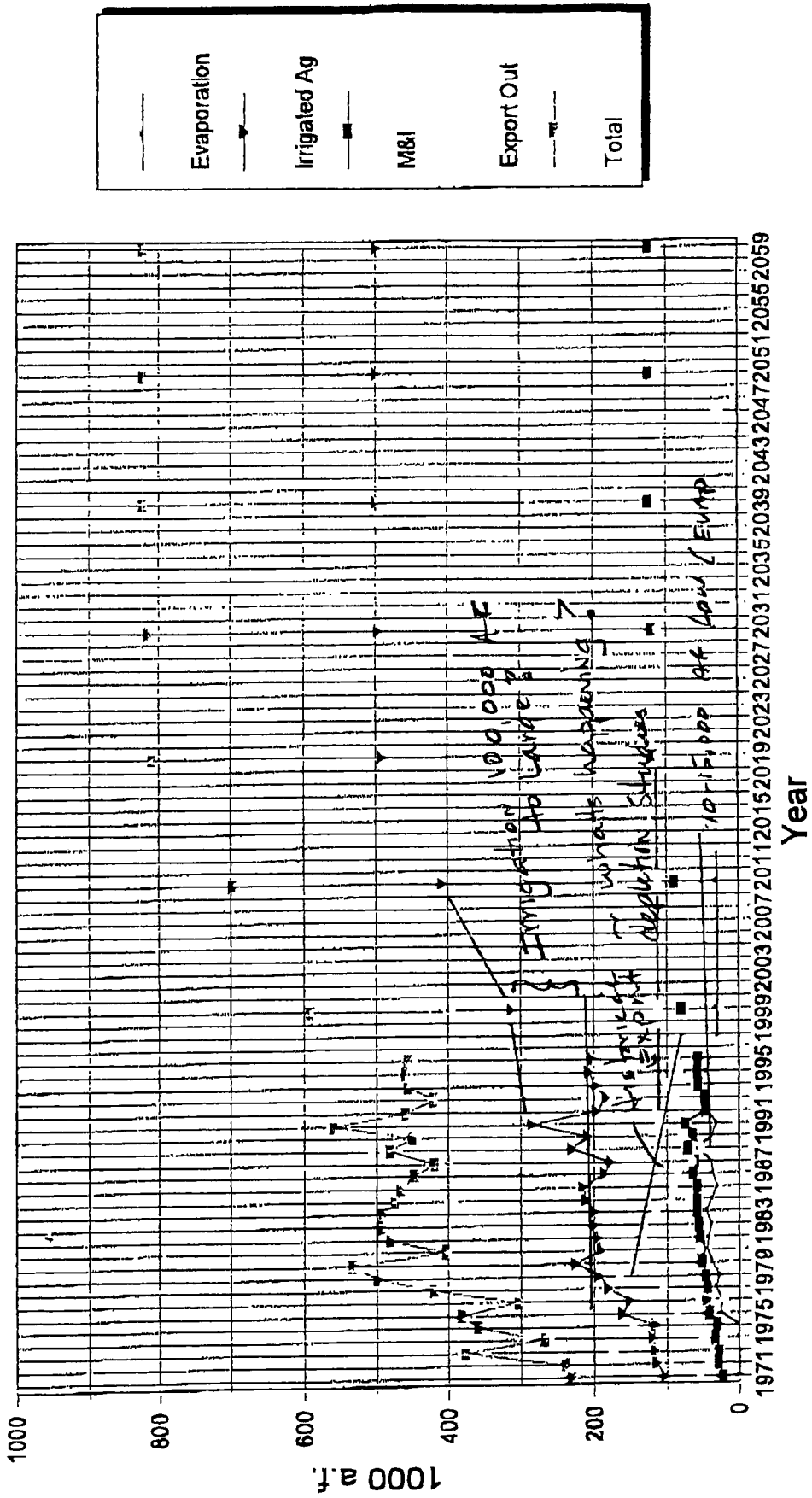
CU&L 1971-1995



Wyoming CU&L 1971-1995

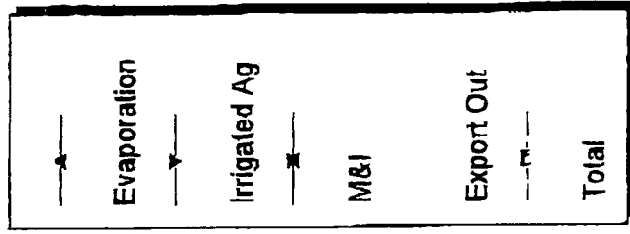
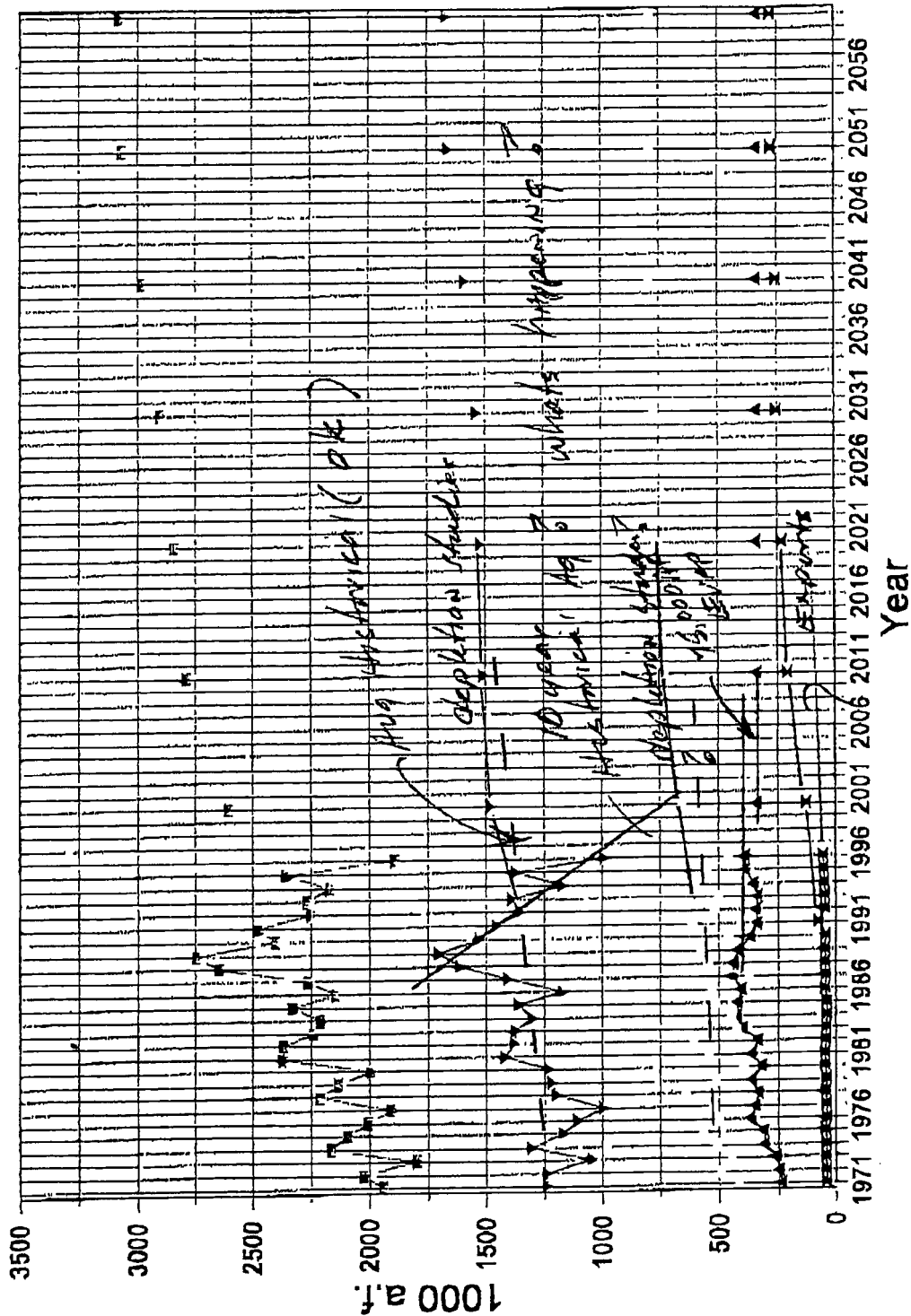


New Mexico CU&L 1971-1995



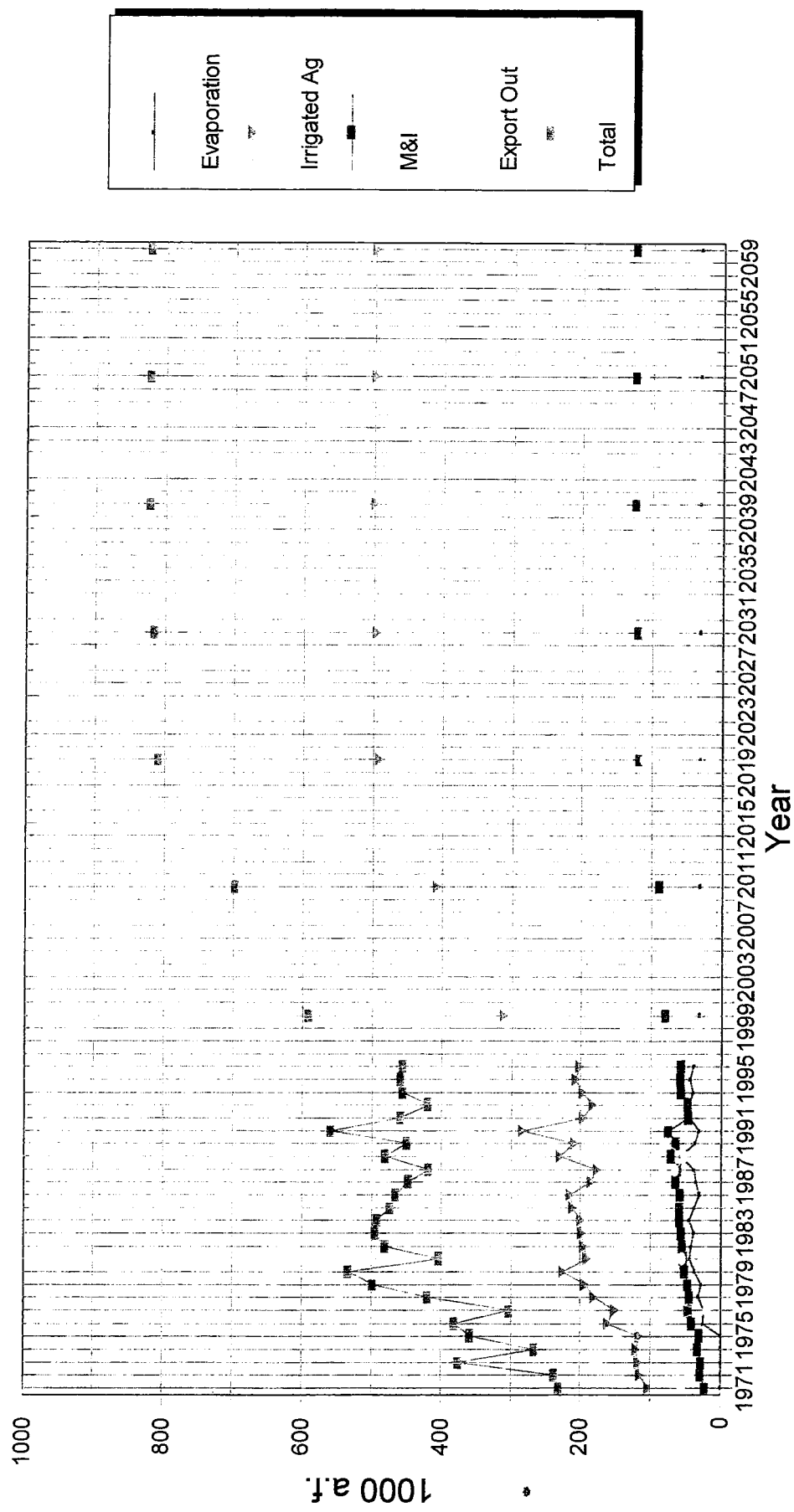
Colorado

CU&L 1971-1995

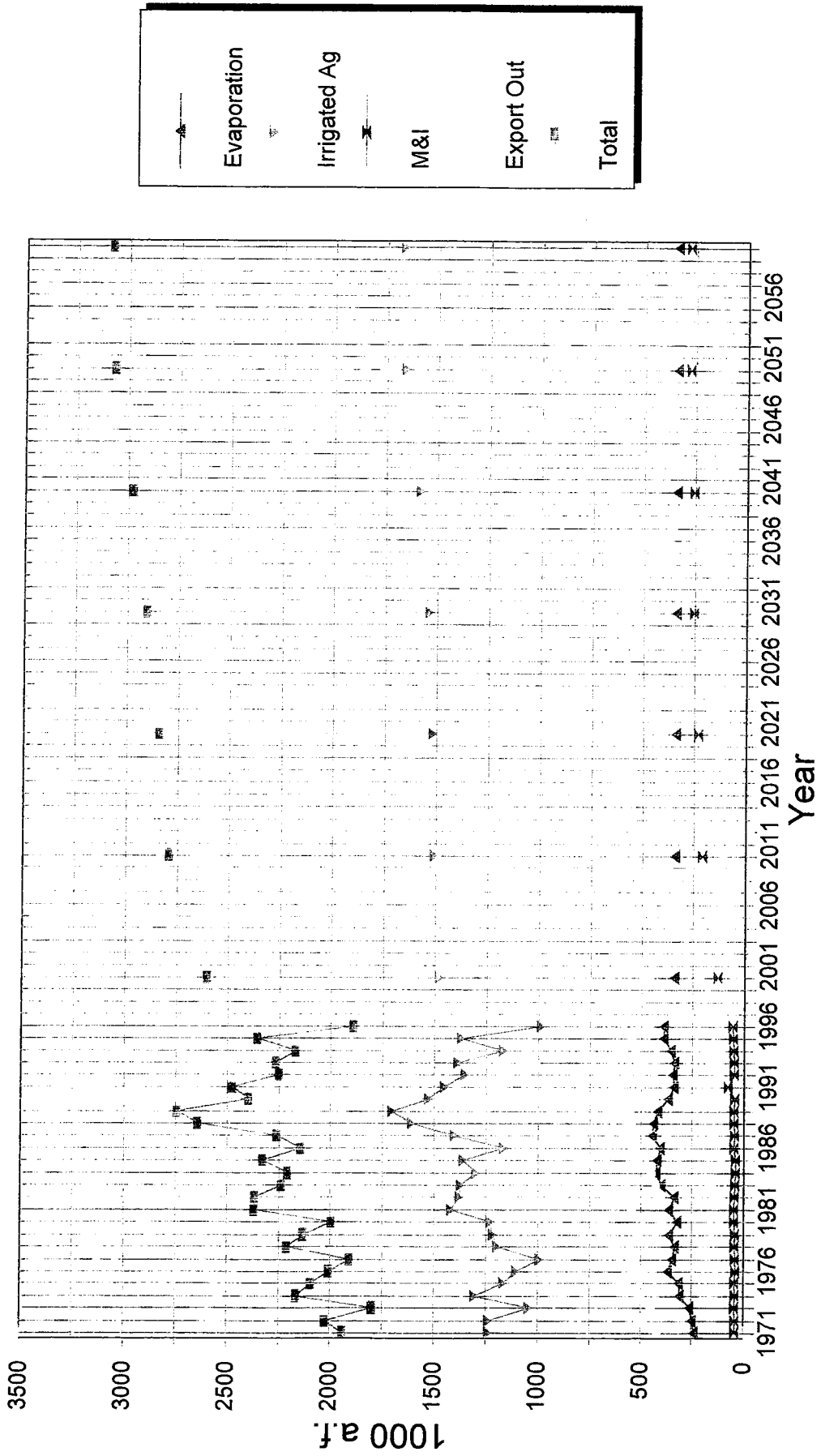


New Mexico

CU&L 1971-1995

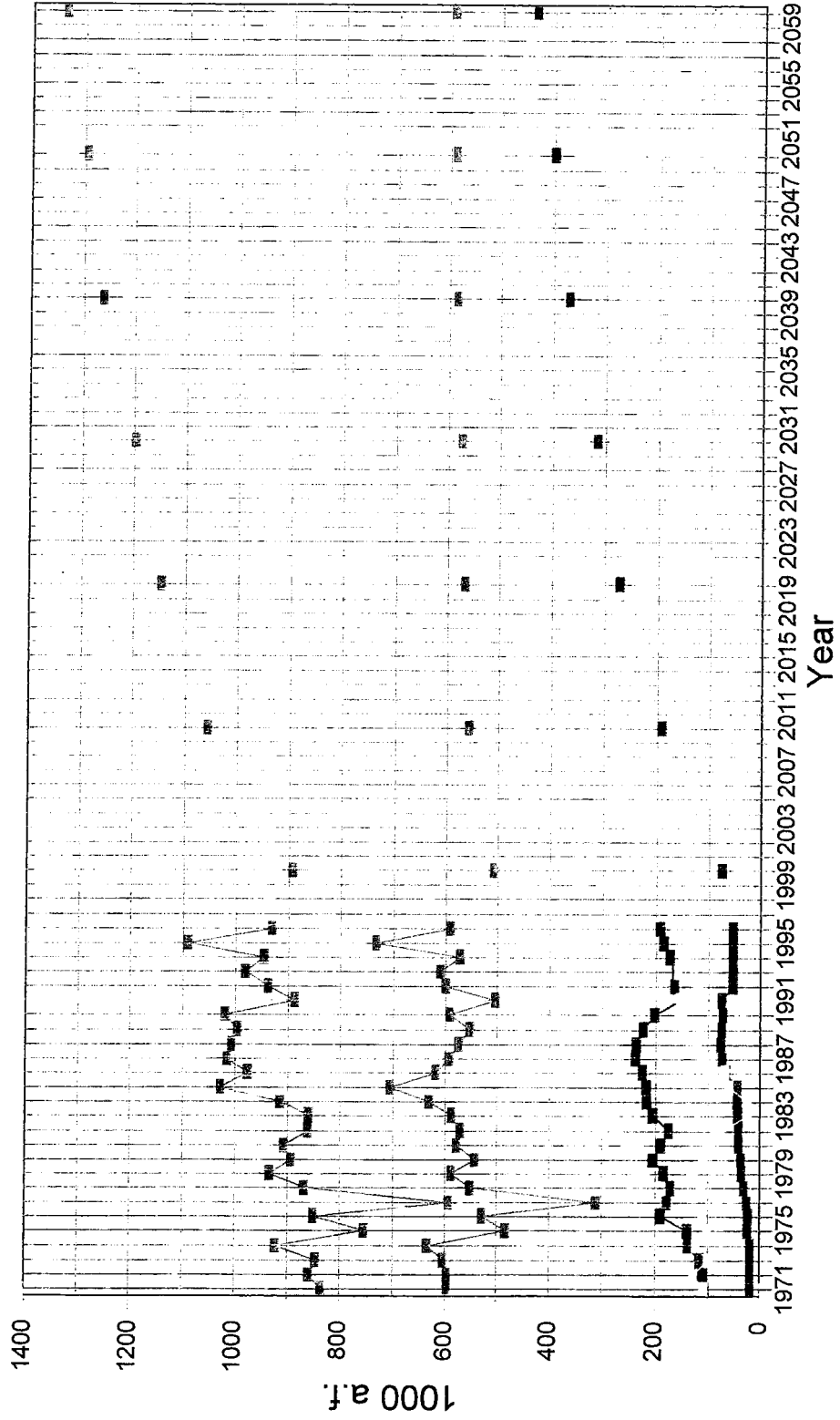


Colorado CU&L 1971-1995



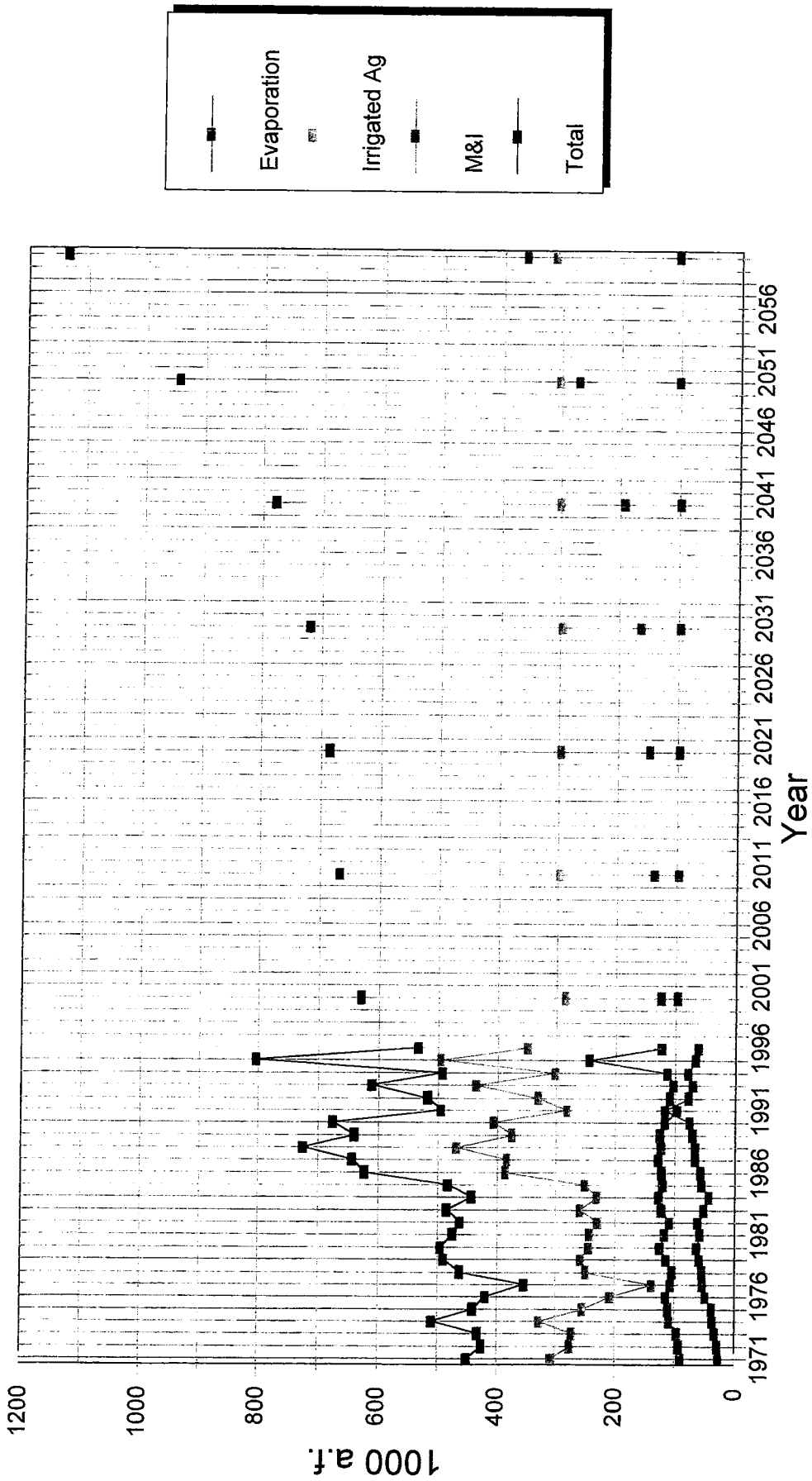
Utah

CU&L 1971-1995



Wyoming

CU&L 1971-1995



OCTOBER 21, 1997

BASELINE ACRES FOR NEW MEXICO IN THE SAN JUAN BASIN
(Includes agricultural irrigation and residential yard watering)

| UNIT | IRRIGATION AREA | ACRES |
|----------|----------------------------------|---------|
| 1 | Above Navajo Dam | 900 |
| 2 | Animas River | 15,000 |
| 3 | Upper San Juan River | 3,500 |
| | Hammond Project | 3,933 |
| | Echo Ditch | 500 |
| | Total | 7,933 |
| 4 | Upper La Plata | 200 |
| | La Plata River | 4,300 |
| | Total | 4,500 |
| 5 | Chaco River | 4,200 |
| 6 | Farmington Glade | 100 |
| | Farmers Mutual Ditch | 3,750 |
| | Jewett Valley | 1,200 |
| | Westwater | 50 |
| | Fruitland | 3,300 |
| | Hogback-East | 1,900 |
| | Total | 10,300 |
| 7 | Hogback-West | 3,300 |
| | Cudei | 400 |
| | Total | 3,700 |
| 8 | Whiskey Creek | 300 |
| Subtotal | | 46,833 |
| 3,5,6 | Navajo Indian Irrigation Project | 61,900 |
| Total | | 108,733 |

NOTE: Assume crop distribution found by 1994 USBR irrigated lands inventory, after adjusting the above acres for the acreage of residential yards estimated to be irrigated with ditch water in 1994 (see Interstate Stream Commission memoranda dated June 11, June 13, and September 10, 1997).

OCTOBER 21, 1997

BASELINE ACREAGES, DECREED WATER RIGHTS ACREAGES AND
 AUTHORIZED PROJECT ACREAGES FOR IRRIGATED LANDS IN THE
 SAN JUAN RIVER BASIN IN NEW MEXICO

| DEVELOPMENT | BASELINE ACREAGE | DECREED OR AUTHOR- IZED ACREAGE |
|--|---------------------|---|
| INDIAN LANDS: | | |
| NAVAJO INDIAN IRRIGATION PROJECT | 61,900 | 110,630 |
| HOGBACK PROJECT (INC. HOGBACK EXT.) | 5,200 | 8,380 |
| FRUITLAND | 3,300 | 3,820 |
| CUDEI | 400 | 600 |
| CHACO RIVER (HALF SUPPLY) | 3,300 | 6,500 |
| WHISKEY CREEK (HALF SUPPLY) | 300 | 500 |
| SUBTOTAL | 74,400 | 130,430 |
| NON-INDIAN LANDS: | | |
| ABOVE NAVAJO DAM | 900 | 1,770 |
| ANIMAS RIVER | 15,600 | 17,437 |
| LA PLATA RIVER (HALF SUPPLY) | 4,500 | 5,888 |
| UPPER SAN JUAN RIVER | 3,500 | 6,539 |
| HAMMOND PROJECT | 3,933 | 3,933 ⁰⁰ |
| FARMERS MUTUAL DITCH | 3,750 | 4,182 |
| JEWETT VALLEY | 1,200 | 1,269 |
| WESTWATER | 50 | 63 |
| CHACO RIVER (HALF SUPPLY) | 900 | 1,100 |
| McKINLEY CO. SPREADER DAMS (NO SUPPLY) | 0 | 1,410 |
| SUBTOTAL | 34,333 | 43,591 |
| TOTAL IRRIGATED ACREAGE | 108,733 | 174,021 |

NOTES ON BASELINE ACREAGES --

ACRES FOR NIIP IS ESTIMATED FROM BASELINE DEPLETION OBTAINED BY SECTION 7 CONSULTATION AND ACRES FOR OTHER AREAS ARE FROM ISC'S MEMORANDUM DISAGGREGATING BASELINE DEPLETIONS.

NOTES ON DECREED OR AUTHORIZED ACREAGES --

FOR INDIAN LANDS: ACRES FOR CHACO RIVER AND WHISKEY CREEK ARE TOTAL ACRES FROM 1965 SCS TYPE I SURVEY, ACRES FOR NIIP IS FROM AUTHORIZING LEGISLATION, AND ACRES FOR OTHER AREAS ARE BASED ON SORENSON'S 1976 MEMORANDUM.

FOR NON-INDIAN LANDS: ACRES FOR CHACO RIVER IS TOTAL ACRES FROM 1965 SCS TYPE I SURVEY, ACRES FOR MCKINLEY COUNTY IS FROM 1938 HYDROSURVEY OF SPREADER DAMS, ACRES FOR WESTWATER IS FROM 1994 USBR IRRIGATION SURVEY, ACRES FOR HAMMOND PROJECT IS FROM AUTHORIZING LEGISLATION, AND ACRES FOR OTHER AREAS ARE FROM 1948 ECHO DITCH DECREE.

*1,402.1 Ac in
 present location
 after EDD, etc
 JLM*

TABLE 4. RECOMMENDED BASELINE DEPLETIONS FROM THE
SAN JUAN BASIN FOR NEW MEXICO

(UNITS: AVERAGE ANNUAL DEPLETIONS IN 1,000 ACRE-FEET)

| DEVELOPMENT | DEPLETION |
|--|-----------|
| IRRIGATION DEPLETIONS: | |
| INDIAN LANDS: | |
| NAVAJO INDIAN IRRIGATION PROJECT BLOCKS 1-8 | 149.4 |
| HOGBACK (1) | 12.1 |
| FRUITLAND | 7.9 |
| CUDEI | 0.9 |
| CHACO RIVER | 3.1 |
| WHISKEY CREEK | 0.3 |
| SUBTOTAL | 173.7 |
| NON-INDIAN LANDS: | |
| ABOVE NAVAJO DAM | 1.3 |
| ANIMAS RIVER (2) | 31.7 |
| LA PLATA RIVER (3) | 5.1 |
| UPPER SAN JUAN RIVER (4) | 8.2 |
| HAMMOND AREA (5) | 9.2 |
| FARMERS MUTUAL DITCH | 8.7 |
| JEWETT VALLEY | 2.8 |
| WESTWATER | 0.1 |
| CHACO RIVER | 0.7 |
| SUBTOTAL | 67.8 |
| TOTAL IRRIGATION DEPLETIONS | 241.5 |
| NON-IRRIGATION DEPLETIONS: | |
| NAVAJO RESERVOIR EVAPORATION | 26.0 |
| UTAH INTERNATIONAL | 39.0 |
| SAN JUAN POWERPLANT (CONTRACT FROM NAVAJO RES.) | 16.2 |
| INDUSTRIAL DIVERSIONS NEAR BLOOMFIELD | 2.5 |
| MUNICIPAL AND INDUSTRIAL USES | 8.9 |
| SCATTERED RURAL DOMESTIC USES | 1.4 |
| SCATTERED STOCKPONDS AND LIVESTOCK USES | 4.3 |
| FISH AND WILDLIFE | 1.4 |
| TOTAL NON-IRRIGATION DEPLETIONS | 99.7 |
| SAN JUAN-CHAMA PROJECT EXPORTATION | 110.0 |
| UNSPECIFIED MINOR DEPLETIONS ALLOWED UNDER RECOVERY IMPLEMENTATION PROGRAM SINCE 1992 | 1.5 |
| TOTAL DEPLETIONS (NEW MEXICO, EXCLUDING ALP) | 452.7 |
| ANIMAS-LA PLATA PROJECT (COLORADO AND NEW MEXICO) | 57.1 |

NOTES:

- (1) INCLUDES HOGBACK PROJECT AND HOGBACK EXTENSION.
- (2) INCLUDES ANIMAS RIVER, ECHO DITCH AND FARMINGTON GLADE AREAS.
- (3) INCLUDES UPPER LA PLATA AND LA PLATA RIVER AREAS.
- (4) INCLUDES CITIZEN'S DITCH AND OTHER DITCHES.
- (5) DEPLETION FOR HAMMOND AREA IS COMPUTED USING THE AUTHORIZED
ACREAGE FOR THE HAMMOND PROJECT OF 3,933 ACRES.

TABLE 5. RECOMMENDED BASELINE DEPLETIONS FROM THE
SAN JUAN RIVER FOR NEW MEXICO

(UNITS: AVERAGE ANNUAL DEPLETIONS IN 1,000 ACRE-FEET)

| DEVELOPMENT | DEPLETION |
|--|-----------|
| IRRIGATION DEPLETIONS: | |
| INDIAN LANDS: | |
| NAVAJO INDIAN IRRIGATION PROJECT BLOCKS 1-8 | 149.4 |
| HOGBACK (1) | 12.1 |
| FRUITLAND | 7.9 |
| CUDEI | 0.9 |
| CHACO RIVER | 0.0 |
| WHISKEY CREEK | 0.0 |
| SUBTOTAL | 170.3 |
| NON-INDIAN LANDS: | |
| ABOVE NAVAJO DAM | 1.3 |
| ANIMAS RIVER (2) | 31.7 |
| LA PLATA RIVER (3) | 5.1 |
| UPPER SAN JUAN RIVER (4) | 8.2 |
| HAMMOND AREA (5) | 9.2 |
| FARMERS MUTUAL DITCH | 8.7 |
| JEWETT VALLEY | 2.8 |
| WESTWATER | 0.1 |
| CHACO RIVER | 0.0 |
| SUBTOTAL | 67.1 |
| TOTAL IRRIGATION DEPLETIONS | 237.4 |
| NON-IRRIGATION DEPLETIONS: | |
| NAVAJO RESERVOIR EVAPORATION | 26.0 |
| UTAH INTERNATIONAL | 39.0 |
| SAN JUAN POWERPLANT (CONTRACT FROM NAVAJO RES.) | 16.2 |
| INDUSTRIAL DIVERSIONS NEAR BLOOMFIELD | 2.5 |
| MUNICIPAL AND INDUSTRIAL USES | 8.9 |
| SCATTERED RURAL DOMESTIC USES | 1.4 |
| SCATTERED STOCKPONDS AND LIVESTOCK USES | 2.2 |
| FISH AND WILDLIFE | 1.4 |
| TOTAL NON-IRRIGATION DEPLETIONS | 97.6 |
| SAN JUAN-CHAMA PROJECT EXPORTATION | 110.0 |
| UNSPECIFIED MINOR DEPLETIONS ALLOWED UNDER RECOVERY IMPLEMENTATION PROGRAM SINCE 1992 | 1.5 |
| TOTAL DEPLETIONS (NEW MEXICO, EXCLUDING ALP) | 446.5 |
| ANIMAS-LA PLATA PROJECT (COLORADO AND NEW MEXICO) | 57.1 |

NOTES:

- (1) INCLUDES HOGBACK PROJECT AND HOGBACK EXTENSION.
- (2) INCLUDES ANIMAS RIVER, ECHO DITCH AND FARMINGTON GLADE AREAS.
- (3) INCLUDES UPPER LA PLATA AND LA PLATA RIVER AREAS.
- (4) INCLUDES CITIZEN'S DITCH AND OTHER DITCHES.
- (5) DEPLETION FOR HAMMOND AREA IS COMPUTED USING THE AUTHORIZED
ACREAGE FOR THE HAMMOND PROJECT OF 3,933 ACRES.

DEPLETIONS FROM THE UPPER COLORADO RIVER BASIN IN NEW MEXICO IN 1000 ACRE-FEET
(Historic quantities based on data used for Colorado River System Consumptive Uses and Losses Reports)

| YEAR | NM AGRIC. ABOVE ARCHULETA D-1/Q+2 (1) | SJ-CHAMA EXPORT D-2 (2) | NAIIP DIVERSION D-3 (3) | NAVAJO RES. EVAP R+3 (4) | NM AGRIC. BELOW ARCHULETA D-6/Q+8 (5) | NM MISC. USES D-7/Q+9 (6) | NIIP RETURN FLOW Q+10 (7) | TOTAL NM DEPLETION REACH 801 (8) | SJ ENERGY & M&I D-1/Q+2 (9) | NM USES BELOW SHIPROCK D-2/Q+4 (10) | TOTAL NM DEPLETION REACH 802 (11) | TOTAL DEPLETION NEW MEXICO (12) |
|------|---------------------------------------|-------------------------|-------------------------|--------------------------|---------------------------------------|---------------------------|---------------------------|----------------------------------|-----------------------------|-------------------------------------|-----------------------------------|---------------------------------|
| 1970 | 1 | 0 | 0 | 22 | 67 | 11 | 0 | 101 | 16 | 15 | 31 | 132 |
| 1971 | 1 | 54 | 0 | 18 | 69 | 7 | 0 | 149 | 16 | 15 | 31 | 180 |
| 1972 | 1 | 41 | 0 | 17 | 82 | 8 | 0 | 149 | 21 | 14 | 35 | 184 |
| 1973 | 1 | 175 | 0 | 26 | 76 | 8 | 0 | 286 | 20 | 14 | 34 | 320 |
| 1974 | 1 | 48 | 0 | 19 | 86 | 8 | 0 | 162 | 25 | 13 | 38 | 200 |
| 1975 | 1 | 145 | 0 | 22 | 78 | 9 | 0 | 255 | 22 | 13 | 35 | 290 |
| 1976 | 1 | 84 | 35 | 20 | 96 | 9 | 1 | 244 | 23 | 12 | 35 | 279 |
| 1977 | 1 | 19 | 38 | 19 | 84 | 9 | 1 | 169 | 28 | 12 | 40 | 209 |
| 1978 | 1 | 105 | 51 | 25 | 97 | 10 | 2 | 287 | 26 | 12 | 38 | 325 |
| 1979 | 1 | 164 | 76 | 23 | 91 | 10 | 4 | 361 | 28 | 12 | 40 | 401 |
| 1980 | 1 | 144 | 110 | 32 | 91 | 10 | 7 | 381 | 32 | 12 | 44 | 425 |
| 1981 | 1 | 54 | 92 | 38 | 89 | 18 | 17 | 275 | 28 | 13 | 41 | 316 |
| 1982 | 1 | 131 | 115 | 36 | 73 | 19 | 21 | 354 | 34 | 13 | 47 | 401 |
| 1983 | 1 | 130 | 129 | 33 | 68 | 19 | 24 | 356 | 33 | 13 | 46 | 402 |
| 1984 | 1 | 114 | 127 | 39 | 71 | 16 | 23 | 345 | 38 | 13 | 51 | 396 |
| 1985 | 1 | 92 | 132 | 32 | 79 | 17 | 24 | 329 | 34 | 13 | 47 | 376 |
| 1986 | 1 | 89 | 155 | 26 | 69 | 12 | 34 | 318 | 37 | 13 | 50 | 368 |
| 1987 | 1 | 83 | 131 | 30 | 55 | 13 | 28 | 285 | 41 | 13 | 54 | 339 |
| 1988 | 1 | 64 | 118 | 32 | 61 | 12 | 26 | 262 | 41 | 12 | 53 | 315 |
| 1989 | 1 | 50 | 171 | 50 | 69 | 14 | 35 | 320 | 48 | 12 | 60 | 380 |
| 1990 | 1 | 76 | 143 | 32 | 71 | 13 | 28 | 308 | 42 | 12 | 54 | 362 |
| 1991 | 2 | 113 | 153 | 43 | 63 | 13 | 33 | 354 | 35 | 12 | 47 | 401 |
| 1992 | 2 | 87 | 146 | 44 | 62 | 13 | 38 | 316 | 35 | 12 | 47 | 363 |
| 1993 | 2 | 99 | 166 | 39 | 62 | 15 | 45 | 338 | 44 | 12 | 56 | 394 |
| 1994 | 2 | 82 | 181 | 43 | 60 | 15 | 47 | 336 | 45 | 11 | 56 | 392 |
| 1995 | 2 | 86 | 182 | 38 | 62 | 16 | 56 | 330 | 43 | 12 | 55 | 385 |
| 2000 | 2 | 108 | 183 | 28 | 75 | 15 | 34 | 377 | 53 | 20 | 73 | 450 |
| 2010 | 3 | 108 | 286 | 28 | 75 | 19 | 57 | 462 | 53 | 21 | 74 | 536 |
| 2020 | 3 | 108 | 318 | 28 | 78 | 25 | 64 | 496 | 64 | 35 | 99 | 595 |
| 2030 | 4 | 108 | 318 | 28 | 78 | 29 | 64 | 501 | 69 | 36 | 105 | 606 |
| 2040 | 4 | 108 | 318 | 28 | 78 | 30 | 64 | 502 | 78 | 36 | 114 | 616 |
| 2050 | 5 | 108 | 318 | 28 | 78 | 30 | 64 | 503 | 79 | 36 | 115 | 618 |
| 2060 | 5 | 108 | 318 | 28 | 78 | 30 | 64 | 503 | 80 | 36 | 116 | 619 |

NOTES:

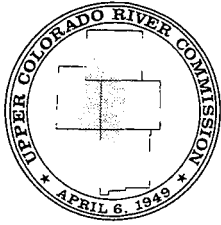
- (1) Includes irrigation, stock and M&I uses above Navajo Reservoir excluding San Juan-Chama Export.
- (2) 100,000 af/yr average is authorized for the San Juan-Chama Project. Updating the study period for recent hydrology gives an average depletion of 108,000 af/yr.
- (3)&(7) Future quantities assume 5% fallow acreage in any year for the Navajo Indian Irrigation Project at completion.
- (4) Navajo Reservoir evaporation is not adjusted for water salvaged.
- (5) Irrigation and stock uses below Navajo Dam and above Hogback, excluding Navajo Indian Irrigation Project.
- (6) M&I, F&W and miscellaneous uses between Navajo Reservoir and Hogback.
- (7) Historic quantities include estimated ground-water returns and operational waste.
- (8) (1)+(2)+[(3)-(7)]+(4)+(5)+(6)
- (9) Includes power uses by San Juan and Four Corners power plants. Future quantities include also M&I diversions by the Navajo-Gallup Water Supply Project.
- (10) Irrigation, stock and M&I uses below Hogback.
- (11) (9)+(10)
- (12) (8)+(11)

DEPLETIONS FROM THE UPPER COLORADO RIVER BASIN IN NEW MEXICO IN 1000 ACRE-FEET
(Historic quantities based on data used for Colorado River System Consumptive Uses and Losses Reports)

| YEAR | NM AGRIC. ABOVE ARCHULETA D-1/Q+2 (1) | SJ-CHAMA EXPORT D-2 (2) | NAIIP DIVERSION D-3 (3) | NAVAJO RES. EVAP R+3 (4) | NM AGRIC. BELOW ARCHULETA D-6/Q+8 (5) | NM MISC. USES D-7/Q+9 (6) | NIIP RETURN FLOW Q+10 (7) | TOTAL NM DEPLETION REACH 801 (8) | SJ ENERGY & M&I D-1/Q+2 (9) | NM USES BELOW SHIPROCK D-2/Q+4 (10) | TOTAL NM DEPLETION REACH 802 (11) | TOTAL DEPLETION NEW MEXICO (12) |
|------|---------------------------------------|-------------------------|-------------------------|--------------------------|---------------------------------------|---------------------------|---------------------------|----------------------------------|-----------------------------|-------------------------------------|-----------------------------------|---------------------------------|
| 1970 | 1 | 0 | 0 | 22 | 67 | 11 | 0 | 101 | 16 | 15 | 31 | 132 |
| 1971 | 1 | 54 | 0 | 18 | 69 | 7 | 0 | 149 | 16 | 15 | 31 | 180 |
| 1972 | 1 | 41 | 0 | 17 | 82 | 8 | 0 | 149 | 21 | 14 | 35 | 184 |
| 1973 | 1 | 175 | 0 | 26 | 76 | 8 | 0 | 286 | 20 | 14 | 34 | 320 |
| 1974 | 1 | 48 | 0 | 19 | 86 | 8 | 0 | 162 | 25 | 13 | 38 | 200 |
| 1975 | 1 | 145 | 0 | 22 | 78 | 9 | 0 | 255 | 22 | 13 | 35 | 290 |
| 1976 | 1 | 84 | 35 | 20 | 96 | 9 | 1 | 244 | 23 | 12 | 35 | 279 |
| 1977 | 1 | 19 | 38 | 19 | 84 | 9 | 1 | 169 | 28 | 12 | 40 | 209 |
| 1978 | 1 | 105 | 51 | 25 | 97 | 10 | 2 | 287 | 26 | 12 | 38 | 325 |
| 1979 | 1 | 164 | 76 | 23 | 91 | 10 | 4 | 361 | 28 | 12 | 40 | 401 |
| 1980 | 1 | 144 | 110 | 32 | 91 | 10 | 7 | 381 | 32 | 12 | 44 | 425 |
| 1981 | 1 | 54 | 92 | 38 | 89 | 18 | 17 | 275 | 28 | 13 | 41 | 316 |
| 1982 | 1 | 131 | 115 | 36 | 73 | 19 | 21 | 354 | 34 | 13 | 47 | 401 |
| 1983 | 1 | 130 | 129 | 33 | 68 | 19 | 24 | 356 | 33 | 13 | 46 | 402 |
| 1984 | 1 | 114 | 127 | 39 | 71 | 16 | 23 | 345 | 38 | 13 | 51 | 396 |
| 1985 | 1 | 92 | 132 | 32 | 79 | 17 | 24 | 329 | 34 | 13 | 47 | 376 |
| 1986 | 1 | 89 | 155 | 26 | 69 | 12 | 34 | 318 | 37 | 13 | 50 | 368 |
| 1987 | 1 | 83 | 131 | 30 | 55 | 13 | 28 | 285 | 41 | 13 | 54 | 339 |
| 1988 | 1 | 64 | 118 | 32 | 61 | 12 | 26 | 262 | 41 | 12 | 53 | 315 |
| 1989 | 1 | 50 | 171 | 50 | 69 | 14 | 35 | 320 | 48 | 12 | 60 | 380 |
| 1990 | 1 | 76 | 143 | 32 | 71 | 13 | 28 | 308 | 42 | 12 | 54 | 362 |
| 1991 | 2 | 113 | 153 | 43 | 63 | 13 | 33 | 354 | 35 | 12 | 47 | 401 |
| 1992 | 2 | 87 | 146 | 44 | 62 | 13 | 38 | 316 | 35 | 12 | 47 | 363 |
| 1993 | 2 | 99 | 166 | 39 | 62 | 15 | 45 | 338 | 44 | 12 | 56 | 394 |
| 1994 | 2 | 82 | 181 | 43 | 60 | 15 | 47 | 336 | 45 | 11 | 56 | 392 |
| 1995 | 2 | 86 | 182 | 38 | 62 | 16 | 56 | 330 | 43 | 12 | 55 | 385 |
| 2000 | 2 | 108 | 183 | 28 | 75 | 15 | 34 | 377 | 53 | 20 | 73 | 450 |
| 2010 | 3 | 108 | 286 | 28 | 75 | 19 | 57 | 462 | 53 | 21 | 74 | 536 |
| 2020 | 3 | 108 | 318 | 28 | 78 | 25 | 64 | 496 | 64 | 35 | 99 | 595 |
| 2030 | 4 | 108 | 318 | 28 | 78 | 29 | 64 | 501 | 69 | 36 | 105 | 606 |
| 2040 | 4 | 108 | 318 | 28 | 78 | 30 | 64 | 502 | 78 | 36 | 114 | 616 |
| 2050 | 5 | 108 | 318 | 28 | 78 | 30 | 64 | 503 | 79 | 36 | 115 | 618 |
| 2060 | 5 | 108 | 318 | 28 | 78 | 30 | 64 | 503 | 80 | 36 | 116 | 619 |

NOTES:

- (1) Includes irrigation, stock and M&I uses above Navajo Reservoir excluding San Juan-Chama Export.
- (2) 110,000 af/yr average is authorized for the San Juan-Chama Project. Updating the study period for recent hydrology gives an average depletion of 108,000 af/yr.
- (3)&(7) Future quantities assume 5% fallow acreage in any year for the Navajo Indian Irrigation Project at completion.
- (4) Navajo Reservoir evaporation is not adjusted for water salvaged.
- (5) Irrigation and stock uses below Navajo Dam and above Hogback, excluding Navajo Indian Irrigation Project.
- (6) M&I, F&W and miscellaneous uses between Navajo Reservoir and Hogback.
- (7) Historic quantities include estimated ground-water returns and operational waste.
- (8) $(1)+(2)+(3)-(7)+(4)+(5)-(6)$
- (9) Includes power uses by San Juan and Four Corners power plants. Future quantities include also M&I diversions by the Navajo-Gallup Water Supply Project.
- (10) Irrigation, stock and M&I uses below Hogback.
- (11) $(9)+(10)$
- (12) $(8)+(11)$



UPPER COLORADO RIVER COMMISSION

1999 AUG -9 AM 9:23

355 South 400 East • Salt Lake City • Utah 84110 • 801-531-1150 • FAX 801-531-9705

OFFICE OF THE
STATE ENGINEER
A.S.D. SANTA FE, NM

MEMORANDUM - FAX

To: Phil Multz, Commissioner
New Mexico

From: Executive Director

Date: August 4, 1999

Subject: HISTORICAL DEPLETIONS - NEW ORLEANS

In anticipation of re-evaluation of our individual Basin States depletions, we have been looking at historical depletion information for each Upper Division State including New Mexico.

Our 1994 New Mexico depletion table identifies depletions through 1990 and projection thereafter. In reviewing this table and historical data, we attempted to re-format the information by categories. With much help (thanks, Phil) we believe that the marked up version to be more correct with some questions:

Refer to footnote on Table as follows:

1/ The 4000 af M&I and 1600 af minerals values seem to be at 1970's levels. Should these numbers be increased to reflect 1990 levels? Has minerals increased? Has M&I use in the Farmington/Shiprock not grown since 1965?

2/ Should we show NIIP at 253,000 af to conform to recent Sec. 7 baseline studies decisions?

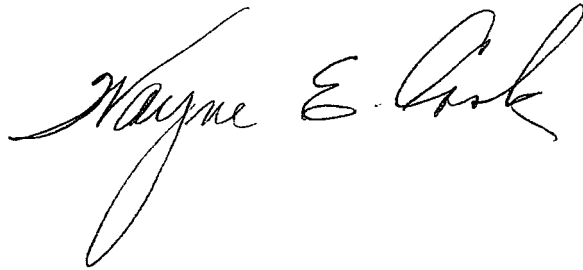
3/ Do we not have forecasts of growth, increased M& I water use in the area not met by Animas-LaPlata and/or Navajo-Gallup projects?

4/ How do we reflect the ultimate resolutions of +/- 100k of "overuse" by New Mexico. Do we terminate Navajo contracts in 2040? Footnote another "hydrologic determination?" Should we anticipate a switch to "system-wide" accounting and a yield of 6.4 maf (New Mexico's share +/- 715k). If so the ultimate termination of unspecified Navajo contracts (+/- 50K) would keep New Mexico whole.

Phil Multz
Page 2
August 4, 1999

5/ Last by not least, will recent Sec. 7 baseline analysis/decisions impact other numbers on this table?

Please look these revisions over carefully, contemplate my dilemma and call and scream at me! Thanks for your help.

A handwritten signature in cursive script that reads "Wayne E. Cook". The signature is written in black ink and is positioned to the right of the main text block.

WEC:pj

Upper Colorado River Division States Depletion Schedule (New Mexico)

| ITEM | YEAR | | | | | | | | |
|-------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 1990 | 2000 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060+ | |
| 1965 FRAMEWORK STUDY (Irrig) | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 | 89 |
| 1966-1989 CHANGES | | | | | | | | | |
| Agricultural-Irrig & Stock | | | | | | | | | |
| Non-Indian | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 |
| Indian | | | | | | | | | |
| Federal | | | | | | | | | |
| Hogback (extension) | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| NIIP | 133 | 133 | 133 | 133 | 133 | 133 | 133 | 133 | 133 |
| San Juan Chama | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Navajo Evaporation | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| Hammond | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| Municipal/Domestic | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 | 04 |
| Power/Industrial | | | | | | | | | |
| UII (Private) | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| PSCNM | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| Minerals | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 | 02 |
| FRAMEWORK & 66-89 CHANGE | 445 | 445 | 445 | 445 | 445 | 445 | 445 | 445 | 445 |
| ANTICIPATED DEPLETIONS | | | | | | | | | |
| Agricultural-Irrig & Stock | | | | | | | | | |
| Public/Private | | | | | | | | | |
| Federal | | | | | | | | | |
| NIIP | 0 | 21 | 78 | 134 | 120 | 120 | 120 | 120 | 120 |
| ALP | 0 | 1 | 3 | 3 | 7 | 7 | 7 | 7 | 7 |
| Jicarilla | | | | | | | | | |
| Municipal/Domestic | | | | | | | | | |
| Public/Private | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Federal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ALP | 0 | 2 | 7 | 18 | 20 | 24 | 24 | 24 | 24 |
| Jicarilla | 0 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 |
| Power/Industrial | | | | | | | | | |
| Jicarilla | 0 | 0 | 3 | 20 | 19 | 18 | 17 | 16 | 16 |
| TOTAL ANTICIPATED | 445 | 472 | 540 | 625 | 631 | 635 | 635 | 635 | 635 |
| POTENTIAL DEPLETIONS | | | | | | | | | |
| Agricultural-Irrig & Stock | | | | | | | | | |
| Federal | | | | | | | | | |
| ALP (Phase II) | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 |
| Indian | | | | | | | | | |
| Gallup - Navajo | 0 | 0 | 15 | 25 | 25 | 25 | 25 | 25 | 25 |
| Navajo Contracts | 0 | 5 | 28 | 45 | 45 | 45 | 45 | 45 | 45 |
| TOTAL POTENTIAL | 0 | 5 | 43 | 70 | 70 | 73 | 73 | 73 | 73 |
| Total Scheduled Depletions | 445 | 477 | 583 | 695 | 701 | 708 | 708 | 708 | 708 |
| Evap-Storage Units | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| Total | 503 | 535 | 641 | 753 | 759 | 766 | 766 | 766 | 766 |
| State Share of 6.0 MAF | 669 | 669 | 669 | 669 | 669 | 669 | 669 | 669 | 669 |
| Remaining Available | 166 | 134 | 28 | -84 | -90 | -97 | -97 | -97 | -97 |
| Percent of State Share | 25% | 20% | 4% | -12% | -13% | -14% | -14% | -14% | -14% |

New Mexico Depletions ~

1965 Type

1971 - CU $\frac{1}{2}$ Loss Rep

| | 1965 Type | 1971 - CU $\frac{1}{2}$ Loss Rep |
|------------|--------------------|----------------------------------|
| SIC | - | 54.4 |
| NAV EVAP | 31.7 | ? |
| Irrigation | 91.0 ^{II} | 102.6 (2.4 stroke) |
| M&I | 2.4 | 22.0 (5.1) |
| thermal | 15.3 | (15.3) |
| Minerals | 1.6 | (1.6) |
| FWL | 0.4 | 0.6 |
| Rec | <u>0.1</u> | <u>-</u> |
| | 144.9 | 180.0 |

^{II} Includes Hammond (2.7)

1990 - depletion table

1965 Framework (modified)

89.0 ~ (91.0 - 2.7 Hammond + 0.7 misc)

1966-1989 Changes ~

12.0 ~

6 \pm Irrigation (Location?)

6 \pm M&I (includes 1.6 minerals?)

@ about 1970 level

adequate?

Table 4 - Water uses by states, 1965, Upper Colorado Region

| Type of use | On-site depletions (acre-feet) | | | | | Total |
|---|--------------------------------|-----------|------------|---------|---------|------------|
| | Arizona | Colorado | New Mexico | Utah | Wyoming | |
| Municipal and industrial | 1,500 | 15,900 | 2,400 | 5,000 | 2,600 | 27,400 |
| Electric power (thermal) | | 3,200 | 15,300 | 1,300 | 3,400 | 23,200 |
| Minerals | | 16,900 | 1,600 | 9,400 | 5,800 | 33,700 |
| Fish and wildlife | 600 | 2,700 | 400 | 7,900 | 100 | 11,700 |
| Recreation | | 700 | 100 | 300 | 200 | 1,300 |
| Stockpond evaporation and livestock use | 1,100 | 20,700 | 2,400 | 6,200 | 4,500 | 34,900 |
| Subtotal | 3,200 | 60,100 | 22,200 | 30,100 | 16,600 | 132,200 |
| Irrigation | | | | | | |
| Consumptive use | 4,400 | 991,300 | 76,000 | 404,400 | 221,200 | 1,697,300 |
| Incidental use | 500 | 198,700 | 15,000 | 81,000 | 20,400 | 315,600 |
| Reservoir evaporation | 2,000 | 27,100 | 31,700 | 30,200 | 23,900 | 114,900 |
| Total irrigation | 6,900 | 1,217,100 | 122,700 | 515,600 | 265,500 | 2,127,800 |
| Export | | | | | | |
| Diversions | | 417,100 | | 109,500 | | 526,600 |
| Reservoir evaporation | | 12,300 | | 11,400 | | 23,700 |
| Less water import | | | | (2,600) | | (2,600) |
| Subtotal of all above | 10,100 | 1,706,600 | 144,900 | 664,000 | 282,100 | 2,807,700 |
| Main-stem reservoir evaporation | | | | | | 643,000 1/ |
| Region total | | | | | | 3,450,700 |

1/ Flaming Gorge Reservoir (67,000 acre-feet) and Lake Powell (576,000 acre-feet).

Table 5 - Water uses by subregions, 1965, Upper Colorado Region

| Type of use | On-site depletions (acre-feet) | | | Region total |
|---|--------------------------------|-----------------|-------------------|--------------|
| | Green River | Upper Maia Stem | San Juan-Colorado | |
| Municipal and industrial | 7,900 | 12,300 | 7,200 | 27,400 |
| Electric power (thermal) | 6,300 | 1,000 | 15,300 | 23,200 |
| Minerals | 17,200 | 11,900 | 4,600 | 33,700 |
| Fish and wildlife | 3,000 | 1,300 | 2,400 | 11,700 |
| Recreation | 500 | 500 | 300 | 1,300 |
| Stockpond evaporation and livestock use | 13,300 | 11,200 | 10,400 | 34,900 |
| Subtotal | 53,200 | 38,800 | 40,200 | 132,200 |
| Irrigation | | | | |
| Consumptive use | 662,400 | 747,400 | 287,500 | 1,697,300 |
| Incidental use | 113,600 | 167,300 | 34,700 | 315,600 |
| Reservoir evaporation | 42,400 | 16,900 | 55,600 | 114,900 |
| Total irrigation | 818,400 | 931,600 | 377,800 | 2,127,800 |
| Export | | | | |
| Diversions | 109,500 | 414,600 | 2,500 | 526,600 |
| Reservoir evaporation | 11,400 | 12,300 | | 23,700 |
| Less water import | | | (2,600) | (2,600) |
| Subtotal of all above | 992,500 | 1,397,300 | 417,900 | 2,807,700 |
| Main-stem reservoir evaporation | 67,000 1/ | | 576,000 2/ | 643,000 |
| Region total | 1,059,500 | 1,397,300 | 993,900 | 3,450,700 |

1/ Flaming Gorge Reservoir

2/ Lake Powell

**TABLE C-2—Colorado River System Consumptive Uses and Losses Report, P.L. 90-537
Summary of Estimated Water Use by States, Basins, and Types of Use 1971**

(1,000 A.F.)

| | | Estimated Beneficial Consumptive Uses and Losses ¹ | | | | | | |
|-----------------------|-------|---|------------------------------------|---------------------------------------|-------------------------------|-----------------------|----------------------|---------------|
| State | Basin | Reservoir Evaporation ² | Irrigated Agriculture ³ | Municipal and Industrial ⁴ | Fish and Wildlife, Recreation | Export Outside System | Export Within System | Total |
| Arizona | Upper | — | 6.6 | 2.9 | 1.6 | — | — | 11 |
| | Lower | <u>160.1</u> | <u>4,216.7</u> | <u>334.6</u> | <u>32.8</u> | — | 0.5 | <u>4,745</u> |
| | Total | 160.1 | 4,223.3 | 337.5 | 34.4 | — | 0.5 | 4,756 |
| California | Lower | — | 484.8 | 7.2 | — | 4,630.0 | — | 5,122 |
| Colorado | Upper | — | 1,236.8 | 41.3 | 7.3 | 415.0 | — | 1,701 |
| Nevada | Lower | 1.1 | 62.5 | 66.9 | 0.8 | — | (-0.5) | 131 |
| New Mexico | Upper | — | 102.6 | 22.0 | 0.6 | 54.4 | — | 180 |
| | Lower | <u>5.5</u> | <u>19.9</u> | <u>7.5</u> | — | — | — | <u>33</u> |
| | Total | 5.5 | 122.5 | 29.5 | 0.6 | 54.4 | — | 213 |
| Utah | Upper | — | 596.1 | 18.0 | 7.8 | 107.6 | — | 729 |
| | Lower | <u>0.7</u> | <u>61.6</u> | <u>1.1</u> | — | <u>1.3</u> | — | <u>65</u> |
| | Total | 0.7 | 657.7 | 19.1 | 7.8 | 108.9 | — | 794 |
| Wyoming | Upper | — | 307.4 | 20.1 | 0.2 | 6.0 | — | 334 |
| Other ⁵ | Upper | 458.0 | — | — | — | — | — | 458 |
| | Lower | <u>1,458.0</u> | — | — | — | <u>1,560.8</u> | — | <u>3,019</u> |
| | Total | 1,916.0 | — | — | — | 1,560.8 | — | 3,477 |
| Colorado River System | Upper | 458 | 2,250 | 104 | 18 | 583 | 0 | 3,413 |
| | Lower | <u>1,625</u> | <u>4,846</u> | <u>417</u> | <u>34</u> | <u>6,193</u> | <u>0</u> | <u>13,115</u> |
| | Total | 2,083 | 7,096 | 521 | 52 | 6,776 | 0 | 16,528 |

¹ From tables UC-1, -3 and LC-1, -3, and -4.

² In the Upper Basin, reservoir evaporation other than main stem has been assigned to the principal reservoir function.

³ Includes livestock water use and stockpond evaporation.

⁴ Includes water uses for thermal electric power and mineral resources.

⁵ Mainstream reservoir evaporation includes estimated channel loss below Lee Ferry. For the purpose of this report water passing to Mexico (not used in basin) is shown as an export.

John Whipple

From: bliesner
Sent: Thursday, September 14, 2000 3:23 PM
To: agilmore
Cc: andreas; John.Leeper; spillack; akeller; jwhipple
Subject: Navajo demand schedule

Andrew,

Attached is a revised demand schedule with corrections to the Hogback and Fruitland demands. We discovered an error in the starting acreage to which additions were made. These errors have been corrected.

I also understand that the State of New Mexico has challenged using the full build-out depletion of 270,000 afy that we proposed. 270,000 afy is consistent with the Section 7 consultations for NIIP and ALP and the ALP SEIS. I have reviewed this with the Navajo Nation and they concur with submitting 270,000. The number is based on our latest assessment of crop mix and phreatophyte use expected for the project, based extensive review of aerial photography and field inspection of phreatophyte areas on the project. We believe it is the best representation of future project conditions for 110,630 irrigated acres and will continue to support this number. I'm sure you will have arguments to the contrary from New Mexico.

We recommend that you work with Jessica Aberly on Jicarilla issues dealing with delivery of their water to PNM under contract and the schedule associated with that water. We simply included their characterization in the schedule.

Sorry about the error. If you have questions, feel free to contact Marvin Lewis or Andy Keller for clarification.

Ron Bliesner

270,000
 is best
 representation
 of future
 actual
 project
 conditions

Summary of Ten Tribes Partnership Water Rights and Development Schedule

| CRSS Node | Tribe | State | River Basin | Point Description | Water Type | Current | | Full Right | | Development Schedule by Year (1000 acre-feet) | | | | | | | | | | | | |
|----------------------------|--------------|------------|-------------|---------------------------------------|-------------|-----------|-----------------|-----------------|-----------------|---|-------|------|--------|------|------|------|------|------|------|-----|-----|-----|
| | | | | | | Use (KAF) | Irrigated Acres | Allocated (KAF) | Allocated Acres | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 | 2030 | 2040 | 2050 | 2060 | | | |
| 411-43 | Northern Ute | Utah | Green | Ute Indian Uses Since 1965 | Withdrawal | 12 | 3000 | 12 | 3000 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | |
| 411-43 | Northern Ute | Utah | Green | Ute Indian Uses Since 1965 | Depletion | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| 411-43 | Northern Ute | Utah | Green | Ute Indian Uses Since 1965 | Return Flow | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | | | | |
| 510-52 | Northern Ute | Utah | White | Ute Indians Compact (White River) | Withdrawal | 0 | 0 | 63 | 13192 | 0 | 8 | 16 | 24 | 32 | 40 | 56 | 63 | 63 | | | | |
| 510-52 | Northern Ute | Utah | White | Ute Indians Compact (White River) | Depletion | 0 | 0 | 31 | 13192 | 0 | 4 | 8 | 12 | 16 | 20 | 28 | 31 | 31 | | | | |
| 510-52 | Northern Ute | Utah | White | Ute Indians Compact (White River) | Return Flow | 0 | 0 | 32 | 13192 | 0 | 4 | 8 | 12 | 16 | 20 | 28 | 32 | 32 | | | | |
| 600-12 | Northern Ute | Utah | Green | Ute Indians Compact (Green River) | Withdrawal | 20 | 4350 | 124 | 27280 | 20 | 30 | 42 | 54 | 66 | 84 | 100 | 124 | 124 | | | | |
| 600-12 | Northern Ute | Utah | Green | Ute Indians Compact (Green River) | Depletion | 10 | 10 | 63 | 27280 | 10 | 15 | 21 | 27 | 34 | 43 | 50 | 63 | 63 | | | | |
| 600-12 | Northern Ute | Utah | Green | Ute Indians Compact (Green River) | Return Flow | 10 | 10 | 61 | 27280 | 10 | 15 | 21 | 27 | 34 | 41 | 50 | 61 | 61 | | | | |
| 610-22 | Northern Ute | Utah | Duchesne | Ag Abv Randlett-Pl-Ag - Ute | Withdrawal | 218 | 66074 | 218 | 66074 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | 218 | | | | |
| 610-22 | Northern Ute | Utah | Duchesne | Ag Abv Randlett-Pl-Ag - Ute | Depletion | 119 | 66074 | 119 | 66074 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | | | | |
| 610-22 | Northern Ute | Utah | Duchesne | Ag Abv Randlett-Pl-Ag - Ute | Return Flow | 99 | 66074 | 100 | 66074 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | | | | |
| 610-35 | Northern Ute | Utah | Duchesne | New Indian Lands - Ute Indian Compact | Withdrawal | 0 | 0 | 54 | 8726 | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 54 | 54 | | | | |
| 610-35 | Northern Ute | Utah | Duchesne | New Indian Lands - Ute Indian Compact | Depletion | 0 | 0 | 30 | 8726 | 0 | 4 | 9 | 13 | 18 | 22 | 27 | 40 | 40 | | | | |
| 610-35 | Northern Ute | Utah | Duchesne | New Indian Lands - Ute Indian Compact | Return Flow | 0 | 0 | 24 | 8726 | 0 | 2 | 3 | 5 | 6 | 8 | 9 | 14 | 14 | | | | |
| Northern Ute Tribal Totals | | | | | | | | | | 250 | 73424 | 471 | 118272 | 250 | 274 | 300 | 326 | 354 | 384 | 422 | 471 | 471 |
| 700-35 | Navajo | Arizona | San Juan | Gallup-Navajo Indian Water Supply-Tem | Withdrawal | 0 | 0 | 5 | M&I | 0 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | |
| 700-35 | Navajo | Arizona | San Juan | Gallup-Navajo Indian Water Supply-Tem | Depletion | 0 | 0 | 5 | M&I | 0 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | |
| 700-35 | Navajo | Arizona | San Juan | Gallup-Navajo Indian Water Supply-Tem | Return Flow | 0 | 0 | 0 | M&I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 801-31 | Navajo | New Mexico | San Juan | NIIP | Withdrawal | 183 | 63881 | 338 | 110630 | 183 | 269 | 313 | 325 | 330 | 333 | 336 | 338 | 338 | | | | |
| 801-31 | Navajo | New Mexico | San Juan | NIIP | Depletion | 146 | 63881 | 270 | 110630 | 146 | 215 | 250 | 260 | 264 | 266 | 269 | 270 | 270 | | | | |
| 801-31 | Navajo | New Mexico | San Juan | NIIP | Return Flow | 37 | 63881 | 68 | 110630 | 37 | 54 | 63 | 65 | 66 | 67 | 67 | 68 | 68 | | | | |
| 801-79 | Navajo | New Mexico | San Juan | Animas-LP New Mexico M&I - Navajo | Withdrawal | 0 | 0 | 5 | M&I | 0 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | |
| 801-79 | Navajo | New Mexico | San Juan | Animas-LP New Mexico M&I - Navajo | Depletion | 0 | 0 | 3 | M&I | 0 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| 801-79 | Navajo | New Mexico | San Juan | Animas-LP New Mexico M&I - Navajo | Return Flow | 0 | 0 | 3 | M&I | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | | | |
| 802-14 | Navajo | New Mexico | San Juan | Gallup Mun. Water Supply Proj.-Navajo | Withdrawal | 0 | 0 | 18 | M&I | 0 | 5 | 10 | 14 | 18 | 18 | 18 | 18 | 18 | | | | |
| 802-14 | Navajo | New Mexico | San Juan | Gallup Mun. Water Supply Proj.-Navajo | Depletion | 0 | 0 | 18 | M&I | 0 | 5 | 10 | 14 | 18 | 18 | 18 | 18 | 18 | | | | |
| 802-14 | Navajo | New Mexico | San Juan | Gallup Mun. Water Supply Proj.-Navajo | Return Flow | 0 | 0 | 0 | M&I | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| 802-21 | Navajo | New Mexico | San Juan | New Mexico Ag Hogback - Cudei | Withdrawal | 20 | 4348 | 42 | 9130 | 20 | 24 | 26 | 28 | 32 | 36 | 42 | 42 | 42 | | | | |
| 802-21 | Navajo | New Mexico | San Juan | New Mexico Ag Hogback - Cudei | Depletion | 10 | 4348 | 21 | 9130 | 10 | 12 | 13 | 14 | 16 | 18 | 21 | 21 | 21 | | | | |
| 802-21 | Navajo | New Mexico | San Juan | New Mexico Ag Hogback - Cudei | Return Flow | 10 | 4348 | 21 | 9130 | 10 | 12 | 13 | 14 | 16 | 18 | 21 | 21 | 21 | | | | |
| 802-22 | Navajo | New Mexico | San Juan | New Mexico Ag Fruitland - Misc | Withdrawal | 12 | 2609 | 32 | 6957 | 12 | 14 | 16 | 18 | 22 | 26 | 32 | 32 | 32 | | | | |
| 802-22 | Navajo | New Mexico | San Juan | New Mexico Ag Fruitland - Misc | Depletion | 6 | 2609 | 16 | 6957 | 6 | 7 | 8 | 9 | 11 | 13 | 16 | 16 | 16 | | | | |
| 802-22 | Navajo | New Mexico | San Juan | New Mexico Ag Fruitland - Misc | Return Flow | 6 | 2609 | 16 | 6957 | 6 | 7 | 8 | 9 | 11 | 13 | 16 | 16 | 16 | | | | |
| Navajo Tribal Totals | | | | | | | | | | 215 | 70838 | 440 | 126717 | 215 | 316 | 375 | 395 | 412 | 423 | 438 | 440 | |
| Navajo Tribal Totals | | | | | | | | | | 162 | 70838 | 333 | 126717 | 162 | 241 | 289 | 305 | 317 | 323 | 332 | 333 | |
| Navajo Tribal Totals | | | | | | | | | | 53 | 70838 | 108 | 126717 | 53 | 75 | 86 | 90 | 95 | 100 | 106 | 107 | |

Summary of Ten Tribes Partnership Water Rights and Development Schedule

| CRSS Node | Tribe | State | River Basin | Point Description | Water Type | Use (KAF) | Current Irrigated Acres | Allocated (KAF) | Full Right Allocated Acres | Development Schedule by Year (1000 acre-feet) | | | | | | | | | | |
|-----------|------------------|------------|-------------|---|-------------|-----------|-------------------------|-----------------|----------------------------|---|------|------|------|------|------|------|------|------|------|--|
| | | | | | | | | | | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 | 2030 | 2040 | 2050 | 2060 | |
| 801-13 | Jicarilla Apache | New Mexico | San Juan | Jicarilla Apache | Withdrawal | 4 | 1000 | 32 | 9500 | 4 | 11 | 11 | 11 | 11 | 24 | 24 | 24 | 32 | 32 | |
| 801-13 | Jicarilla Apache | New Mexico | San Juan | Jicarilla Apache | Depletion | 2 | | 20 | | 2 | 7 | 7 | 7 | 12 | 12 | 12 | 12 | 20 | 20 | |
| 801-13 | Jicarilla Apache | New Mexico | San Juan | Jicarilla Apache | Return Flow | 2 | | 11 | | 2 | 4 | 4 | 4 | 12 | 11 | 11 | 11 | 11 | 11 | |
| 802-16 | Jicarilla Apache | New Mexico | San Juan | San Juan Thermal (PNM) - Jicarilla Lease | Withdrawal | 16 | 0 | 0 | M&I | 16 | 16 | 16 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | |
| 802-16 | Jicarilla Apache | New Mexico | San Juan | San Juan Thermal (PNM) - Jicarilla Lease | Depletion | 16 | | 0 | | 16 | 16 | 16 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | |
| 802-16 | Jicarilla Apache | New Mexico | San Juan | San Juan Thermal (PNM) - Jicarilla Lease | Return Flow | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 801-21* | Jicarilla Apache | New Mexico | San Juan | San Juan-Chama Export (Jicarilla Portion) | Withdrawal | 7 | | 7 | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 801-21* | Jicarilla Apache | New Mexico | San Juan | San Juan-Chama Export (Jicarilla Portion) | Depletion | 7 | | 7 | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| 802-17 | Jicarilla Apache | New Mexico | San Juan | Future Off-Reservation M&I Leases | Withdrawal | 0 | | 8 | M&I | 0 | 3 | 3 | 3 | 4 | 13 | 16 | 16 | 16 | 8 | |
| 802-17 | Jicarilla Apache | New Mexico | San Juan | Future Off-Reservation M&I Leases | Depletion | 0 | | 8 | | 0 | 3 | 3 | 3 | 4 | 13 | 16 | 16 | 16 | 8 | |
| | | | | Jicarilla Apache Tribal Totals | Withdrawal | 27 | 1000 | 46 | 9500 | 27 | 37 | 37 | 37 | 38 | 46 | 46 | 46 | 46 | 46 | |
| | | | | | Depletion | 25 | | 34 | | 25 | 33 | 33 | 33 | 34 | 34 | 34 | 34 | 34 | 34 | |
| | | | | | Return Flow | 2 | | 11 | | 2 | 4 | 4 | 4 | 4 | 11 | 11 | 11 | 11 | 11 | |
| | | | | Southern Ute Tribal Totals | Withdrawal | 42 | 13815 | 49 | 16328 | 42 | 44 | 44 | 44 | 48 | 49 | 49 | 49 | 49 | 49 | |
| | | | | | Depletion | 22 | | 26 | | 22 | 23 | 23 | 24 | 25 | 26 | 26 | 26 | 26 | 26 | |
| | | | | | Return Flow | 20 | | 23 | | 20 | 21 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | |
| 801-57 | Southern Ute | Colorado | San Juan | Animas-La Plata M And I - So. Utes | Withdrawal | 0 | 0 | 40 | M&I | 0 | 4 | 6 | 9 | 12 | 16 | 20 | 26 | 33 | 40 | |
| 801-57 | Southern Ute | Colorado | San Juan | Animas-La Plata M And I - So. Utes | Depletion | 0 | | 20 | | 0 | 2 | 3 | 5 | 6 | 8 | 10 | 13 | 17 | 20 | |
| 801-57 | Southern Ute | Colorado | San Juan | Animas-La Plata M And I - So. Utes | Return Flow | 0 | | 20 | | 0 | 2 | 3 | 4 | 6 | 8 | 10 | 13 | 16 | 20 | |
| | | | | Southern Ute Tribal Totals | Withdrawal | 42 | 13815 | 89 | 16328 | 42 | 48 | 51 | 55 | 60 | 65 | 69 | 75 | 82 | 89 | |
| | | | | | Depletion | 22 | | 46 | | 22 | 25 | 26 | 29 | 31 | 34 | 36 | 39 | 43 | 46 | |
| | | | | | Return Flow | 20 | | 43 | | 20 | 23 | 25 | 26 | 28 | 31 | 33 | 36 | 39 | 43 | |
| 801-58 | Ute Mountain Ute | Colorado | San Juan | Animas-La Plata M And I - Ute Mntn | Withdrawal | 0 | 0 | 40 | M&I | 0 | 4 | 6 | 9 | 12 | 16 | 20 | 26 | 33 | 40 | |
| 801-58 | Ute Mountain Ute | Colorado | San Juan | Animas-La Plata M And I - Ute Mntn | Depletion | 0 | | 20 | | 0 | 2 | 3 | 5 | 6 | 8 | 10 | 13 | 17 | 20 | |
| 801-58 | Ute Mountain Ute | Colorado | San Juan | Animas-La Plata M And I - Ute Mntn | Return Flow | 0 | | 20 | | 0 | 2 | 3 | 4 | 6 | 8 | 10 | 13 | 16 | 20 | |
| 802-36 | Ute Mountain Ute | Colorado | San Juan | Dolores Import - M And I - Ute Mntn | Withdrawal | 2 | 0 | 2 | M&I | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| 802-36 | Ute Mountain Ute | Colorado | San Juan | Dolores Import - M And I - Ute Mntn | Depletion | 1 | | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 802-36 | Ute Mountain Ute | Colorado | San Juan | Dolores Import - M And I - Ute Mntn | Return Flow | 0 | | 0 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| 802-37 | Ute Mountain Ute | Colorado | San Juan | Colorado Ag - Ute Mntn | Withdrawal | 2 | 500 | 27 | 6750 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 18 | 22 | 27 | |
| 802-37 | Ute Mountain Ute | Colorado | San Juan | Colorado Ag - Ute Mntn | Depletion | 1 | | 19 | | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 11 | 15 | 19 | |
| 802-37 | Ute Mountain Ute | Colorado | San Juan | Colorado Ag - Ute Mntn | Return Flow | 1 | | 8 | | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | |
| 802-42 | Ute Mountain Ute | Colorado | San Juan | Dolores Import - Ag Use - Ute Mntn | Withdrawal | 17 | 5415 | 23 | 7500 | 17 | 19 | 20 | 21 | 23 | 23 | 23 | 23 | 23 | 23 | |
| 802-42 | Ute Mountain Ute | Colorado | San Juan | Dolores Import - Ag Use - Ute Mntn | Depletion | 13 | | 18 | | 13 | 15 | 16 | 17 | 18 | 18 | 18 | 18 | 18 | 18 | |
| 802-42 | Ute Mountain Ute | Colorado | San Juan | Dolores Import - Ag Use - Ute Mntn | Return Flow | 4 | | 5 | | 4 | 4 | 4 | 4 | 5 | 5 | 5 | 5 | 5 | 5 | |
| | | | | Ute Mountain Ute Tribal Totals | Withdrawal | 21 | 5915 | 92 | 14250 | 21 | 29 | 34 | 40 | 47 | 53 | 59 | 69 | 80 | 92 | |
| | | | | | Depletion | 15 | | 58 | | 15 | 20 | 23 | 27 | 31 | 34 | 37 | 43 | 51 | 58 | |
| | | | | | Return Flow | 5 | | 33 | | 6 | 9 | 11 | 13 | 16 | 19 | 22 | 26 | 29 | 34 | |

* not separated from the existing demand point for San Juan-Chama exports

Summary of Ten Tribes Partnership Water Rights and Development Schedule

| CRSS Node | Tribe | State | River Basin | Point Description | Water Type | Current | | Full Right | | Development Schedule by Year (1000 acre-feet) | | | | | | | | | | | | | |
|------------------------------|----------------|------------|-------------|----------------------------------|-------------|-----------|-----------------|-----------------|-----------------|---|----------|------|--------|------|------|------|------|------|------|------|------|------|-----|
| | | | | | | Use (KAF) | Irrigated Acres | Allocated (KAF) | Allocated Acres | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 | 2030 | 2040 | 2050 | 2060 | | | | |
| 920-51 | Fort Mojave | Nevada | Colorado | Fort Mohave Indian Res.(Nevada) | Withdrawal | 5 | 716 | 13 | 1939 | 5 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | | | | | |
| 920-51 | Fort Mojave | Nevada | Colorado | Fort Mohave Indian Res.(Nevada) | Depletion | 2 | | 9 | | 2 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | | | |
| 920-51 | Fort Mojave | Nevada | Colorado | Fort Mohave Indian Res.(Nevada) | Return Flow | 3 | | 4 | | 3 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | | | | | |
| 920-52 | Fort Mojave | Arizona | Colorado | Fort Mohave Indian Res.(Arizona) | Withdrawal | 81 | 10925 | 104 | 16018 | 81 | 92 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | | | | | |
| 920-52 | Fort Mojave | Arizona | Colorado | Fort Mohave Indian Res.(Arizona) | Depletion | 36 | | 73 | | 36 | 60 | 73 | 73 | 73 | 73 | 73 | 73 | 73 | | | | | |
| 920-52 | Fort Mojave | Arizona | Colorado | Fort Mohave Indian Res.(Arizona) | Return Flow | 45 | | 31 | | 45 | 32 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | | | | | |
| 920-53 | Fort Mojave | California | Colorado | Fort Mohave Indian Res.(Calif.) | Withdrawal | 27 | 3354 | 17 | 2586 | 27 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | | | | | |
| 920-53 | Fort Mojave | California | Colorado | Fort Mohave Indian Res.(Calif.) | Depletion | 15 | | 12 | | 15 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | | |
| 920-53 | Fort Mojave | California | Colorado | Fort Mohave Indian Res.(Calif.) | Return Flow | 12 | | 5 | | 12 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | | | | | |
| 920-54 | Fort Mojave | California | Colorado | Fort Mohave Land Development | Withdrawal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 920-54 | Fort Mojave | California | Colorado | Fort Mohave Land Development | Depletion | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 920-54 | Fort Mojave | California | Colorado | Fort Mohave Land Development | Return Flow | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Fort Mojave Tribal Totals | | | | | | | | | | 113 | 14995 | 134 | 20543 | 113 | 122 | 134 | 134 | 134 | 134 | 134 | 134 | | |
| 930-12 | Chemehuevi | California | Colorado | Chemehuevi Ind Res. | Withdrawal | 2 | 100 | 11 | 1900 | 2 | 5 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | | | | | |
| 930-12 | Chemehuevi | California | Colorado | Chemehuevi Ind Res. | Depletion | 1 | | 8 | | 1 | 3 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | |
| 930-12 | Chemehuevi | California | Colorado | Chemehuevi Ind Res. | Return Flow | 1 | | 3 | | 1 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | | |
| Chemehuevi Tribal Totals | | | | | | | | | | 2 | 100 | 11 | 1900 | 2 | 5 | 11 | 11 | 11 | 11 | 11 | 11 | | |
| 940-21 | Colorado River | California | Colorado | CRIR Calif (-3Ktons) | Withdrawal | 5 | 3165 | 55 | 8213 | 5 | 15 | 30 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | |
| 940-21 | Colorado River | California | Colorado | CRIR Calif (-3Ktons) | Depletion | 3 | | 39 | | 3 | 9 | 19 | 39 | 39 | 39 | 39 | 39 | 39 | | | | | |
| 940-21 | Colorado River | California | Colorado | CRIR Calif (-3Ktons) | Return Flow | 2 | | 16 | | 2 | 6 | 11 | 16 | 16 | 16 | 16 | 16 | 16 | | | | | |
| 940-22 | Colorado River | Arizona | Colorado | CRIR Arizona (-87Ktons) | Withdrawal | 591 | 76633 | 662 | 99375 | 591 | 612 | 637 | 662 | 662 | 662 | 662 | 662 | 662 | | | | | |
| 940-22 | Colorado River | Arizona | Colorado | CRIR Arizona (-87Ktons) | Depletion | 327 | | 463 | | 327 | 367 | 414 | 463 | 463 | 463 | 463 | 463 | 463 | | | | | |
| 940-22 | Colorado River | Arizona | Colorado | CRIR Arizona (-87Ktons) | Return Flow | 264 | | 199 | | 264 | 245 | 223 | 199 | 199 | 199 | 199 | 199 | 199 | | | | | |
| 940-23 | Colorado River | Arizona | Colorado | CRIR Pumped | Withdrawal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 940-23 | Colorado River | Arizona | Colorado | CRIR Pumped | Depletion | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 940-23 | Colorado River | Arizona | Colorado | CRIR Pumped | Return Flow | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Colorado River Tribal Totals | | | | | | | | | | 596 | 79798 | 717 | 107588 | 596 | 627 | 667 | 717 | 717 | 717 | 717 | 717 | | |
| 945-22 | Quechan | California | Colorado | Yuma Proj. Reservation Unit | Withdrawal | 31 | 3656.417 | 52 | 7743 | 31 | 38 | 45 | 52 | 52 | 52 | 52 | 52 | 52 | | | | | |
| 945-22 | Quechan | California | Colorado | Yuma Proj. Reservation Unit | Depletion | 17 | | 36 | | 17 | 23 | 29 | 36 | 36 | 36 | 36 | 36 | 36 | | | | | |
| 945-22 | Quechan | California | Colorado | Yuma Proj. Reservation Unit | Return Flow | 14 | | 16 | | 14 | 15 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | | | | | |
| Quechan Tribal Totals | | | | | | | | | | 31 | 3656.417 | 52 | 7743 | 31 | 38 | 45 | 52 | 52 | 52 | 52 | | | |
| 945-41 | Cocopah | Arizona | Colorado | Cocopah Indian Reservation | Withdrawal | 13 | 2400 | 12 | 1874 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | | |
| 945-41 | Cocopah | Arizona | Colorado | Cocopah Indian Reservation | Depletion | 13 | | 12 | | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | | | | | |
| 945-41 | Cocopah | Arizona | Colorado | Cocopah Indian Reservation | Return Flow | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 950-12 | Cocopah | Arizona | Colorado | Cocopah Indian Reservation | Withdrawal | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 950-12 | Cocopah | Arizona | Colorado | Cocopah Indian Reservation | Depletion | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 950-12 | Cocopah | Arizona | Colorado | Cocopah Indian Reservation | Return Flow | 0 | | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Cocopah Tribal Totals | | | | | | | | | | 13 | 2400 | 12 | 1874 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | | |
| Upper Basin Totals | | | | | | | | | | 555 | 164992 | 1137 | 286087 | 555 | 704 | 797 | 854 | 910 | 968 | 1033 | 1100 | 1118 | |
| | | | | | | | | | | 359 | | 720 | | 349 | 457 | 524 | 562 | 595 | 622 | 659 | 698 | 710 | |
| | | | | | | | | | | 195 | | 418 | | 206 | 247 | 273 | 292 | 315 | 346 | 374 | 402 | 408 | 417 |

Summary of Ten Tribes Partnership Water Rights and Development Schedule

| CRSS Node | Tribe | State | River Basin | Point Description | Water Type | Current | | Full Right | | Development Schedule by Year (1000 acre-feet) | | | | | | | | | | | | | | | |
|--------------------------------------|-------|-------|-------------|-------------------|-------------|-----------|-----------------|-----------------|-----------------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | Use (KAF) | Irrigated Acres | Allocated (KAF) | Allocated Acres | 2000 | 2005 | 2010 | 2015 | 2020 | 2025 | 2030 | 2040 | 2050 | 2060 | | | | | | |
| Lower Basin Totals | | | | | Withdrawal | 755 | 100949 | 926 | 139648 | 755 | 805 | 866 | 926 | 926 | 926 | 926 | 926 | 926 | 926 | 926 | 926 | 926 | 926 | | |
| | | | | | Depletion | 414 | | 652 | | 414 | 495 | 576 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | 652 | |
| | | | | | Return Flow | 341 | | 274 | | 341 | 310 | 293 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | 274 | |
| Ten Tribes Partnership Totals | | | | | Withdrawal | 1310 | 265941 | 2063 | 424715 | 1310 | 1509 | 1663 | 1780 | 1836 | 1894 | 1959 | 2026 | 2044 | 2063 | 2063 | 2063 | 2063 | 2063 | 2063 | 2063 |
| | | | | | Depletion | 773 | | 1372 | | 763 | 952 | 1097 | 1214 | 1247 | 1274 | 1311 | 1350 | 1362 | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 | 1372 |
| | | | | | Return Flow | 536 | | 692 | | 547 | 557 | 566 | 566 | 589 | 620 | 648 | 676 | 682 | 682 | 682 | 682 | 682 | 682 | 682 | 682 |

