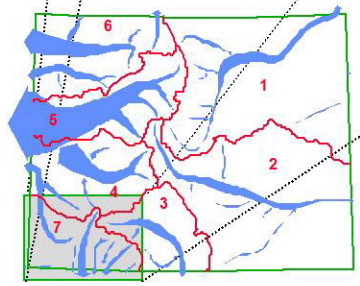
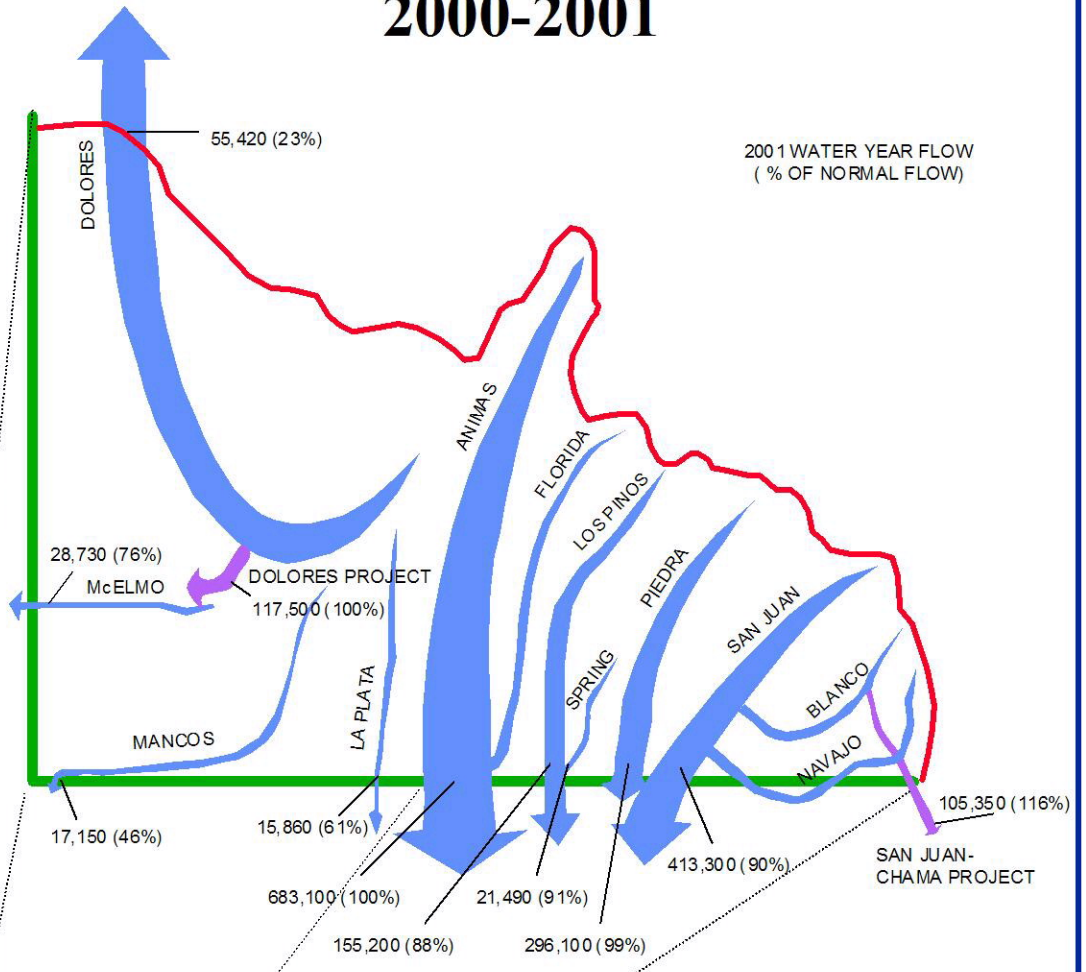


# DIVISION OF WATER RESOURCES

## DIVISION VII ANNUAL REPORT

### 2000-2001



Ken Beegles  
Division Engineer



**Division 7 Staff**

August 23, 2001  
Chimney Rock, Colorado

Back Row L-R: Marty Robbins, Bob Formwalt, Harold Baxstrom, Matthew Schmitt, Ken Beegles,  
Bruce Whitehead, Wally Patcheck, Dave Nelson  
Middle Row L-R: Scott Brinton, Robert Daniels, Glen Humiston, Brett Nordby, Val Valentine  
Front Row L-R: Sherry Schutz, Jeff Titus, Shari Titus, Hal Pierce  
Not Pictured: Bob Becker



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## **A. CURRENT WATER YEAR**

The irrigation year ending November 1, 2001 deviated from the odd year cycle.

Throughout the '90's, the odd numbered years experienced higher precipitation and runoff. El Nino passed a few years ago and the pattern that could have been predicted to develop more precipitation actually followed a normal cycle, this year. It was a very unusual year in that the accumulation of snow occurred very close to average during the entire winter period until May. Less snow fell in the Dolores drainage than the San Juans. The La Plata's faired very well in comparison and actually reached up to about 120% early in the season. There was a fairly good lower level snow in this drainage so the early runoff was supplemented by sufficient moisture conditions. The yearly water supply was certainly better than 2000 but not up to levels hoped for.

The months of May and June changed all that. The warm temperatures caused the high snow pack to deplete early. Most streams peaked early in May. No late peak occurred in June because the higher elevation snow was all gone. Little or no precipitation occurred through the summer months. Unfortunately, after one break in August, the weather patterns continued to be dry again. Reservoir storage was used up in most of the irrigation reservoirs. Lemon and Vallecito did not get as low as the levels experienced in 1996, however, the early run did supply lands with a first irrigation supply and then whatever management could be applied in conjunction with the priorities was used to spread the remaining amount.

### **Administration of Water**

The average year of snow led to fairly normal administration activities. Most of the calls went on by June and remained so until the end of the season.

La Plata River Compact: Most ditches received a significant run of water in the spring, as the call did not go on until April 28. The New Mexico call of the Compact was administrated with a little more flexibility as major ditch adjustments to counter single day credits or deficits were avoided in order to keep the river running steadier. For the

first year spring flows were intentionally run on to the Mesa as early as possible with the plan to test the system to see if return flows on Long Hollow would increase. It appeared that the delayed impact might have resulted in a slight increase or delay in reduction of the typical base flow of 5.0 cfs. The river was declared futile to deliver to New Mexico on July 22 and remained that way until a rain event during August 9 through 14 raised the lower stream delivery at the Stateline gage to levels, which exceeded the required delivery. This continued until the end of the season. The upper station at Hesperus did not significantly increase during this time.

Elbert Creek: This especially difficult stream was administered as usual. The rainstorm in August allowed for a refill of smaller reservoirs. The rainstorm in August allowed for a refill on the augmentation ponds and took the call off for a few days. However, Public Service Co (now Excel Energy) continued the call the entire season. Regulation of reservoir levels was very difficult to maintain. However, new substitute supply plans supported by Electra Lake releases allowed for some ponds to continue operating. The Needles area is one that has been under the greatest development pressure. The DPL Case for Two Dogs Subdivision allowed for augmentation of the irrigation wells as well as the domestic supplies. Considerable difficulty was encountered in administering the Twilight Peaks subdivision as some users were taking drinking-only well water for outside irrigation. The same problem occurred at Lakewood Meadows but orders issued there made a successful impact and it was believed that most users complied.

Other administrative impacts were carried out in similar manner as in the past. See also the water commissioner notes for a summary of the year.

Enforcement Actions: More enforcement action was taken as many violations were discovered. Ponds are often dug without permits, augmentation plans fail or people fail to stay renewed and covered by the plan. In most cases, the order provides enough motivation to start corrective procedures. Several orders for wells and ponds in the Florida River Drainage were addressed and no follow up was necessary. One of the two augmentations expirations on the Dolores River was not complied with. The Attorney

General was brought in and began taking action to force compliance in the Shell case. This is still pending with contempt of court orders forthcoming. In the case of Twilight Peaks, the augmentation pond was not built correctly and measuring devices needed to be installed. When water was refused because of no-activity, the Twilight Peaks attorney notified Water Resources that legal action on their part would be taken against the Division Engineer. After some local discussion, the developer complied and staff gages, tables and structures were finished. Water was run in small quantities to the augmentation pond.

Above Silverton at the Mineral Point Ditch, a major conflict developed when the owner extended the ditch across another mining claim and BLM land. A headgate was installed so that the transmountain diversion can be regulated to the amounts and uses authorized and accounted for by the Division 4 Engineer. Otherwise, the flows will remain in the Animas Drainage.

The geothermal wells and usage in Pagosa Springs had to be watched carefully. There were several new filings for water rights by the Spring Inn. The water found naturally is difficult to determine when any water is being brought by pipeline from the Town Wells. Also the Dugan Well continues to leak. Action was taken to order it to be abandoned or otherwise repaired.

Follow up action was being taken as several owners prepared to file for water rights and augmentation plans to legalize their diversions and address their previous orders across the Division. This was the first year that the well commissioner, Dave Nelson, implemented the planned follow up on groundwater abandonments required by permits in the past two years.

Areas that received the most attention were the Florida Mesa, Stollsteimer Creek, Upper Animas, Mancos River and McElmo/Hartman Draw.

## **Division Seven Staff Summaries**

### Hydrographic Report / Scott Brinton

Streamflow was below normal for the year. Streamflow records for the 2000 Water Year were completed and delivered to the chief hydrographer for publication.

Two records were published by the USGS. Twenty-two records were published in the Colorado Division of Water Resource yearly publication.

The Division Seven hydrographer made 168 river measurements and 39 ditch measurements this year. Water commissioners in Division Seven made 57 river measurements and 33 ditch measurements.

Two new construction projects were undertaken this year in Division Seven. Ramp flumes were constructed at the La Plata at Hesperus and at the La Plata River at the Colorado-New Mexico Stateline stations. Division Seven personnel also assisted the La Plata Conservancy District in the installation of Ramp Flumes at the La Plata River near Breen and at the La Plata River below the mouth of Cherry Creek. It is hoped that these new flumes, once calibrated, will provide a much more accurate accounting of the flows in the La Plata River system. Ted Brooks of R & M Construction & Services, LLC of Montrose, Colorado did constructed of all four flumes.

#### Dam Safety / Brett Nordby

This was a busy season for the relatively new Dam Safety Engineer. His second season was spent catching up with several overdue outlet inspections along with the large number of dam inspections, construction inspections and follow-up inspections, and coercing dam owners to update their emergency preparedness plans (EPP's). Dams were inspected according to the normal schedule, with follow-up visits and construction inspections made as necessary. A new dam, Mountain View, was added to the Class 1 ranks when its construction was finally completed late this summer. The final construction and acceptance inspection was in October. During this calendar year, the inspection schedule included a total of 52 out of 82 jurisdictional and 3 non-jurisdictional dams in the Division this year. Thirteen Class I dams, 23 Class II dams, 15 Class III dams, and 1 Class IV dam were inspected. Division 7 Water Commissioners completed 23 Dam Observation Reports for Class III dams. Nearly all of the EPP's either have their update completed or are in the process of being updated. Sixty-seven Notices of Intent applications and 2 Livestock Water Tank applications were reviewed.

In addition, the dam safety engineer participated in 3 federal dam inspections to gain knowledge of the operations and construction. He also attended FERC inspections on Terminal (Electra Lake), ASPAAS, and Stagecoach dams.

Construction and follow-up inspections were either conducted or attended on several dams this year. These included various jurisdictional and non-jurisdictional dams such as Narraguinnep, Slesinger (Crescent), Charles Lemon R.R., Pinon, Spence, Summit, and Mountain View dams. Livestock Water Tank dam inspections were conducted on the Cutthroat and Rainbow dams at the E.B. Dude Ranch, north of Mancos. A site visit to Grewal Dam was also conducted after receiving a “Notice of Intent” application and a complaint from the Forest Service about the dam.

Work on Narraguinnep included a utility (optical line) crossing on its downstream face. Major rehabilitation was conducted on Slesinger to flatten the steep slopes and eliminate trees found on its downstream slope last year. Charles Lemon R.R. finally completed the last of its crest shaping, outlet conduit extension, and spillway improvements this summer. Both, Spence and Pinon were found to have deficient or missing outlets. Mountain View is a brand new dam that was accepted during its final inspection with Mark Haynes of the Dam Safety Branch in October.

Last year, inspections were performed on Cutthroat and Rainbow dams. Both were found to be in serious need of repair due to lack of maintenance. Rehabilitation started on Cutthroat and Rainbow this season and will continue until all deficient items are eliminated.

A new, “supposed” non-jurisdictional dam (Grewal Dam) was constructed late in the season. Near its completion, the U.S. Forest Service complained that the dam was encroaching on its roadway easement and appeared to be poorly constructed. Brett visited the site to inspect the dam and measure its dimensions. The dam was found to be poorly constructed and of jurisdictional height. An order was issued to request engineered plans by February 1, 2002 or a breach order would ensue.

The dam safety engineer conducted 15 conduit inspections with either sliding the camera sled or crawling through the conduit. This work nearly caught up the schedule for outlet inspections on the 10-year cycle. During this process, 2 conduits were found in serious need of repair. The Cortez #1 outlet was found to be damaged (holes and rocks



plugging the conduit) near its downstream end. The conduit was shortened approximately 12 feet immediately after the inspection to eliminate the problem and will be inspected next season to determine its condition.

The other damaged outlet was found at Spence Reservoir. The conduit appeared to be partially collapsed and completely plugged with rocks near its junction with the service spillway along the upstream face. This reservoir was restricted to zero storage until the outlet is repaired. The owners have since retained an engineer and are in the process of reviewing their options.

Another questionable structure, Pinon dam, was believed to have no outlet at all. Since 1978, it was believed that the original outlet had been abandoned and plugged when it was connected directly to an irrigation pump-house at the time. After a 3-foot restriction was imposed, requiring plans of the pump-house, a gage rod, and a new outlet system, the original outlet conduit was discovered in the pond downstream of the dam. Unfortunately, the gates operated poorly and leaked excessively. An engineer was retained to look at the situation, perform an outlet inspection, and is presently working on possible alternatives. The downstream pond will eventually be drained to allow for an outlet inspection sometime next year.

The Extreme Precipitation Committee ongoing proceedings have affected the Dam Safety program. This committee is developing new standards for modeling extreme precipitation for elevations above 7,500 feet. Hydrology studies on existing Class I and II dam spillways are being postponed pending the outcome of this committee. The committee was expected to release its final results during the summer of 2001. However, these results have been delayed another year.

**Following are individual area comments from Water Commissioners regarding their respective districts:**

District 29, San Juan River & District 78, Upper Piedra & Upper San Juan / Val Valentine

“It was a year the ol’ timers remember from their youth.” Good snow pack at the lower elevations and rain, but not so much to make haying difficult. As one rancher put

it. “This year was as good (weather and hay) as last year was bad. I got as much hay as I didn’t get last year.”

Winter snow pack was a little above normal, 115%. May was cold, the grass was slow. Late May, and June the run off came out in a way to be best used by the irrigators. Unlike the previous irrigation season, monsoonal rains did not come. Rains in Late July and August shortened the call period 57% or 64 days on the Rito Blanco and 60% or 56 days on Fourmile Creek, compared to 150 days on the Rito Blanco, and 143 days on Fourmile Creek in 2000.

Pagosa Area Water & Sanitation Districts was able to maintain their reservoirs at Pagosa Lakes at higher levels than in the past. This was largely due to the efforts of Art Hollman, getting into the mountains early and operating the Dutton Collection Ditch in April instead of June, a first. This effort netted 220 acre-feet (144 acre-feet in 2000) of trans-basin water delivered to storage, primarily to G.S. Hatcher Reservoir.

The Colorado River Decision Support System (CRDSS) mapping project irrigated acre inventory, Abandonment proceedings, and structure location by means of GPS were among the projects undertaken by staff. In July, a tour and training session attend by all Division 7 staff was conducted at Chimney Rock Archeological Ruins.

In August, J. Robert Formwalt became the Deputy Water Commissioner for the upper reaches of the San Juan and Piedra Rivers. He carries on for John Taylor, who served the Districts well for twenty-three years.

Though most ranchers shipped their cattle on schedule, many continued to irrigate through October and into November due to a “summer-like” autumn.

#### District 30, Animas River / David Nelson

A less than average snow pack in District 30 again caused a shortage of soil moisture in the spring and the irrigation season started in late April this year. Summer rain in August offered a short respite and allowed for the refilling of several reservoirs but a dry, very warm fall caused irrigators to use water until Thanksgiving.

Augmentation releases were made for all augmentation plans this year and evaporation releases were made from ponds located in over-appropriated areas. Additionally, several owners of ponds are working toward obtaining augmentation plans.

The first calls of the year came November 1, 2000. They were placed by Excel Energy on the upper part of Elbert Creek and all of Little Cascade Creek for power production in the Power Canal #1 (ID #612). This was followed by a call from the Conley Ditch (E-1, ID #525) on Elbert Creek beginning June 5, 2001 that affected the entire Elbert Creek system. Although they were short of water in the late summer and fall, users on Junction Creek, did not place a call this year. Elbert Creek was on call the entire year above Cascade Reservoir and the portion of the creek below the reservoir was on call through the traditional irrigation year and irrigation water was used until Thanksgiving, 2001.

Administrative and enforcement problems were again numerous this year. These included investigating alleged driller violations, inspecting well construction, dealing with illegal water storage and stopping illegal uses of water from wells located in over appropriated systems. Follow-up action was taken with residents of a large subdivision who continued to use water outside this year after last years warning letter. The Mineral Point Ditch (ID #4661) was again a problem this year. An order was issued to install a waste gate in the ditch that would allow water to be kept in District 30 when not being used in Division 4. This order was not complied with, causing the ditch to be breached and tagged. The Attorney General's office filed a complaint against the ditch owner in Water Court. This action caused the owner to comply late in the year. Another ditch that has historically taken water transbasin to the Uncompaghe River, the Carbon Lake Ditch (ID #4660), has undergone a major change. A citizen's group from the Silverton area has purchased the outstanding shares in the ditch and has ceased water diversions through the ditch. This will help to keep heavy metals from leaching into the Mineral Creek drainage. This was being caused by the ditch flowing above several abandoned mines and water from the ditch seeping through these mines. Transdistrict water from the La Plata River through the Pine Ridge Ditch was an issue again this year. Investigation into the capacity of Johnson Reservoir (partially filled by the Pine Ridge ditch) required additional time and effort this year. Other ditch issues regarding measuring devices are continuing to be addressed.

Ponds in the Twilight Peaks Subdivision were again an administrative issue, particularly with the 365-day call period on upper Elbert Creek. A memorandum

regarding the operation of this system is being circulated that will solve these problems when implemented. The Sites Ditch (ID #634) has again become the center of controversy on Junction Creek. A 'change of water right' filing to allow the ditch to carry water to a lake for augmentation use triggered the arguments. It is being caused by differing agendas between agricultural users, new residents, developers, environmentalists and recreationalists. Another meeting will be scheduled this coming year to try to broker an agreement between all groups. New residents who have moved into the state during the population explosion Colorado is currently experiencing are causing a significant number of the increased problems.

A major water diversion structure, Cascade Canal (ID #523), was the subject of a construction project this year. A new Ramp Flume was constructed to measure the flow thru this 200- 400 cfs canal that takes water from the Cascade Creek drainage to store in Cascade Reservoir and/or produce energy thru Power Canal #1. This canal has also been recently equipped with a satellite monitoring system.

Steve Barrett was hired in the Denver office, so a new assistant was found for District 30. Jeff Titus did an outstanding job learning the job in District 30 and, with a wonderful amount of initiative, was able to assist in areas that would not have been expected when he was hired.

#### District 30F, Florida River / Harold Baxstrom

The 2001 irrigation year in the Florida River drainage basin began November 1, 2000 with a Lemon Reservoir content of 9,505 acre-feet water in storage. Mid November saw a 422 acre-foot decrease during the "stock run" which filled all of the Florida Mesa stock ponds. Otherwise reservoir contents gradually increased (in all but 2 days) until spring "runoff" started on March 21 when reservoir content was 10,538 acre-feet. Irrigation releases started May 9 with a reservoir content of 20,011 acre-feet (half full). With continuous irrigation the June 6, 8.00 AM reservoir reading was 40,146 acre-feet (full). On that date, storage loss and the "river call" started. During 3 non-contiguous days in August, when rainfall increased inflow, call level adjustments could not be made quickly enough to provide benefit to junior users. With this exception decreasing inflow

and increasing storage loss were continuous from June 6 to October 13 when irrigation ceased leaving a reservoir content of 14,100 acre-feet.

Generally F-23 was the lowest calling priority. F-17 was reached for three days. Both of these priorities are decreed to the Florida Canal.

Reservoir level of 14,100 acre feet on October 13 increased by 54 acre feet at end of irrigation year on Oct 31, 2001.

Three structure orders were issued on non-approved ponds. Two have been approved and the other is in the process. Thirteen structure orders were issued for well meters. All have been corrected.

#### Water District 31, Pine River / Hal Pierce

The year 2001 started out as a very good irrigation year and by mid-August the Pine River Irrigation District agreed to provide the necessary water to the river and the system went off call. By mid-September the monsoon season had failed to materialize as expected and the previous decision, to provide water to the river, looked as if it might be a mistake. The Pine River Irrigation District held to their original decision. By mid January 2002, it is anticipated that Vallecito Reservoir will be at its maximum winter water level (Elevation 7643) on April 1, 2002, as allowed by Bureau Standard Operating Procedures and as a result the dry fall conditions will still allow for maximum winter storage.

Irrigation water filing in the Vallecito area on D Creek and Grimes Creek caused a flurry of paper work in the form of 65 letters of opposition. The irrigation desires of the applicant were opposed by a large group of concerned citizens who felt that the water should remain in the stream system for aesthetic and other purposes.

A change in the administrative personnel at the Southern Ute Tribal Office resulted in an improved working relationship with staff members. The process of securing records for the 1986 Indian Settlement Act will be improved due to the improved access to tribal staff.

District 32, McElmo Creek / Marty Robbins

Last irrigation year was a confusing but an eye-opening year for many of the water users. Due to the abandonment list and processes, we were able to impress on many of the water right holders that they needed to take care of their water rights. We were able to get some of the needed ditch maintenance started. Many of the water rights holders were under the impression that they owned the water and that as long as they owned the water right they did not have to do anything with it.

Last irrigation year we were able to get the National Park Service to comply with the conditions of their water right. I believe that we have them on a track of co-operation that will make them more responsible for their actions.

Our biggest event that occurred was the move of the field office from Cortez to Mancos.

District 33, La Plata River / Matthew Schmitt & Wallace Patcheck

The 2001 water year had mixed reviews. The snow pack showed a “normal” year. Lower ditches (7500 feet or lower) had about a normal run of water while higher ditches had a poorer run of water. A cold late spring slowed down the plant growth and caused high elevation ditches to turn on later than normal. Snow pack was very low by late spring and gone by early summer. This, combined with slow plant growth, caused a poor hay crop for farmers higher than 7500 feet.

All but three ditches were curtailed by June 18<sup>th</sup>. The three being La Plata Irrigation, Hay Gulch and La Plata & Cherry Creek Ditches and a futile call was in place by July 19<sup>th</sup>. This condition continued into the new water year.

A rain event above Hesperus dictated a test run to New Mexico on the 2<sup>nd</sup> of August. After 24 hours, the water hadn't reached the H & H headgate less than 6 miles below Hesperus and water was again picked up in Colorado ditches. Rain was again experienced on August 9 through the 14<sup>th</sup> and water was run to New Mexico to fulfill the compact. Over 50 hours later, water had not reached the Vosburg heading 17 miles from Hesperus (14 miles more to stateline). Again the river was picked up.

On the bright side, new ramp flumes were installed at the Hesperus and Stateline gaging stations. These flumes should eliminate the “shift” in the rating table experienced

at the Hesperus and Stateline stations. Two new gaging stations with ramp flumes were also constructed, one is on the La Plata River at County Road 122 and the other on the La Plata River at County Road 100 below the Cherry Creek confluence. These flumes will help with the administration of the compact and aid in tracking delivery of water to New Mexico.

District 34, Mancos River / Glen Humiston

The irrigation year 2001 started out with the Cortez Field Office having to find new quarters. The Dolores State Bank bought the property from the Montezuma Valley Irrigation Company to put a branch bank on it. We were given until April 30 to be out. Given the amount of money available to shop for space, it turned into an interesting project.

The most desired area was Cortez but the budget just would not rent anything suitable, hence we ended up in the just vacated fire station in Mancos, Colorado. This has proven to be very satisfactory and with much more useable space.

The water year was predictably in short supply, but thanks to storage reservoirs it turned out to be a pretty fair year. Having a Bureau Project like Jackson Gulch Reservoir allows for much more management of limited water supply's thereby enhancing river priorities and crop yields.

District 46, Siembritas Arroyo / Robert Daniels

On May 4, 2001 the Pine River Canal turned water in at the heading and they did not come to a full head until the end of May. By the time water arrived in the laterals it was around the 10<sup>th</sup> of May and then only a partial head. By the time most of the wastewater ditches received a partial head it was the end of May. After that there was a full supply of water for all the ditches and laterals desiring to take water.

At the end of the irrigation year the crop production was average, as was the supply of water.

District 69, Disappointment Creek & District 71, Dolores River /  
Robert Becker

Early spring activities (mid-Apr. to mid-May) had the Cortez office staff involved in preparing for the re-location of the field office to Mancos. The majority of this time was spent in sorting, packing and then unpacking the necessities to have the office back to “business as usual” as quickly as possible.

The most notable occurrence involved the owner of an illegal pond and non-augmented well. Action was started last year, thru the Attorney General’s office, and we were successful in obtaining court rulings against Mr. Shell. The court required Mr. Shell to bring his well and pond into compliance and ordered Mr. Shell to pay Plaintiffs’ (the States’) legal fees in the amount of \$4396.51.

District 77, Navajo River / Sherry Schutz

District 77 and the Chromo Valley are still changing. People continue to want to live in the mountains and are still moving to the area.

The San Juan Chama Project diverted 47,710 acre-feet out of the RioBlanco, 3,900 acre-feet out of the Little Navajo River and 53,740 acre-feet out of the Navajo River. The total diverted was 105,350 acre-feet. The average diverted since the beginning of the diversion in 1971 is 90,527 acre-feet. This year was 116% of average with it being the 11<sup>th</sup> highest year of diversions.

Harris Bros. and Boone #2 Reservoir construction was finished in October 2000. With the reservoir being filled, it was able to supply the subdivision with ample water.

In May 2001 the Dam Safety Engineer did a camera inspection of Spence Reservoir and found some big rocks blocking the outlet and couldn’t get the camera all the way through. Vandalism is suspected. The subdivision is now in the process of figuring out how to get the rocks out and how much damage has been done. Spence Reservoir is below Harris #2 Reservoir and is supplied with part of its water from there. Now their water is still not available because of the repair to the Reservoir.



## **Activities of the Division Seven Office**

La Plata Work: In cooperation with the La Plata Water Conservancy District and the US Bureau of Reclamation plans were made by this office to establish two new gages and control sections on the La Plata River. Also this allowed for construction of new Ramp flumes at the index stations at Hesperus and Stateline. When these are operational, water tracking will be much better and decisions governing curtailment of ditches can be made timelier.

Orders for a new Parshall Flume installation above Red Mesa Ward Reservoir were finally responded to by late October. This was another chance where cooperative work led to a new installation that would give us a permanent gaging structure to work with.

Forest Service Negotiations: Technical team meetings continued which the Negotiating parties stepped back to reassess the positions given new court rulings and the change in administration in Washington and the Department of Agriculture. The technical team reviewed streams and developed data that would help define the claims.

Trout Unlimited succeeded in securing party status in the Reserved Rights cases and was approved for entry by water court. Other user groups also requested entry into the case.

Animas La Plata Compact & Project: The Animas La Plata Project moved significantly forward with the much reduced Municipal and Industrial project. The project, which received consensus approval in Washington D.C. and funding was approved during 1999 and 2000. Project contracts were being negotiated during the year and plans were to begin construction late in 2002.

Administration of a New Mexico call in Colorado has been discussed. It appeared that such a call could be administered but might result in a loss to senior or undecreed uses in New Mexico. No recognition of a marketing use for the water was made by Colorado.

Efforts were made by the La Plata Water Conservancy District to address in part the shortages of supply on the La Plata River. Approximately 10,000 acre-feet is believed to leave the state, on average, that exceeds the compact demand. Much of this occurs during periods of snowmelt, and during rainstorms that drain into the lower river. However, there could be significant benefit in the expansion of Red Mesa Ward Reservoir and in the construction of lower end reservoirs on Long Hollow and Johnny Pond Arroyo.

San Juan Chama Project: The USBR managed the project to take the maximum available. Endangered species issues were still being dealt with on the Rio Grande. This year no water was made available for a trade from the Navajo River to the Rio Blanco to assist with the instream flow requirements of the Blanco in June. The minimum bypass was released after the river flows dropped off.

Ramp Flume Construction: These new design structures have worked very well in a variety of situations. After early construction experiments on the Dolores Project yielding good results, the Florida Conservancy District installed ramp flumes in ditches and two on the river in cooperation with the state. These have been apparently working and lent commendation to their use elsewhere. Money became available through cooperative efforts by the USBR, the DWR and the La Plata Conservancy District. This led to ramp flume construction starts at both index stations as well as two new sites along the La Plata at key location. They were delayed by contractor illness and an untimely rise from the rains, but were finally complete by late 2001. It is believed that much better control will be maintained on the La Plata system by knowing where and when water delivery is expected. This work also led to removal of several cottonwood trees in the area of the Hesperus Gage to facilitate the construction.

Abandonment 2000: There were over 387 water rights listed. Two hundred and twenty two rights were protested before July 1, 2001. These were reviewed and checked. Some were removed, but by late September few of the objections were resolved. One hundred and six meetings were scheduled for October and November, during which objectors

were given the opportunity to express their reasons, or to propose an alternative, to full abandonment. During these meetings several interesting facts were discovered, mistakes corrected, and plans for improvements made in return for adjustments to the list. It is believed that though this process was time consuming, it yielded excellent results and enabled better communication between the Division office, field offices, and remote water users. They may have another opportunity to protest in 2002. However, as a result of the many agreements made, most also agreed to allow certain amounts or the entire amount to remain undisputed on the revised abandonment list filed with the court at the end of December 2001.

Reserved Rights and Federal Rights: The Park Service worked cooperatively with commissioners in Montezuma County to acquire a record of use for the irrigation season. Hovenweep records were especially good. Personnel changes in both tribes made record collection very difficult. The Southern Ute Indian Tribe was reorganizing and also reelected Leonard Burch as tribal chairman. A new Water Resources Department was established. Efforts were made to find the people who now are responsible for keeping records. This succeeded to some extent.

The Ute Mountain Ute Indian Tribe also lost some key employees and we were unable to rebuild our relationships soon enough to get the records programs back on track. However records were collected where possible. A newly elected Tribal Chairman, Judy Knight has assumed leadership. Changes in appointments or goals within the tribal government will need to be followed next year.

The BLM was able to finalize their decree for a number of upper Animas filings this year. Records kept for the BLM in the division are based on those submitted in the spring 2001 for the season in the year before. This was the best agreement that could be reached to avoid estimated or canned contract information being submitted.

San Juan RIP: Activities subsided somewhat this year. There was a "Perturbation" according to biologists in the previous fall. This led to more water being required for release. Navajo reservoir did not have any trouble with shortages but was scheduled to be drawn down for repairs. A low-flow test outflow of 250 cfs was carried out despite

objections from many parties. Later in the summer it appeared that the lower river near Four Corners would drop below 1000 cfs. A significant release was made and resulted in a major increase in the river since it rained about that same point in time. Recovery goals were revealed by the F & WS this year. It still did not appear clear whether the San Juan River would be considered a good or poor place to expect recovery goals to be reached. However, plans are continuing forward to improve habitat and monitor stocking for signs of increased reproduction and maturity in current populations.

## **Office Report**

During 2000-2001 the office was budgeted sufficient funds to do its required duties. State vehicles were turned in after the carryover period. This caused more personal mileage to be reimbursed. It was noticed that mileage totals were less than those experienced in the past. Demands of customers and more reliance on computer interaction maybe contributing to this decline in personal mileage use. The type of water year may affect the future needs.

A new copy machine was secured as well as a second printer. Matthew Schmitt constructed a new map cabinet to enable storage of extra maps and documents to take place. Digital cameras were made available to the main office as well as the two outlying offices. This greatly assisted the visual interaction as problem areas could be documented without a separate field trip being made. A new purchase of Arc-View software allowed more experimentation with projects involving mapping. Bob Daniels made several improvements to various programs. One of the most useful tools was the GIS interface between the county GIS coverage in La Plata County and the owner information. CRDSS mapping and USGS topographic coverage could be incorporated to make useful subsets for certain problems.

Personnel did not change significantly during the fiscal year. Steve Barrett (Water District 30A) was hired in to a full-time job in Denver. A good replacement was found in Jeff Titus who was hired temporary during 2001. John Taylor retired after 23 years of service on the Upper Piedra / San Juan and was replaced by Robert Formwalt in that part time position. A major change occurred by moving the western field office from Cortez to Mancos. Both areas have significant public service demands. The change,

however, allowed significant expansion and storage possibilities. We will miss being close to the outlying areas of Montezuma County. However, it is believed that the new location will be more centralized to the administration needs.

Glen Humiston was recognized as Water Commissioner of the Year 2001. Jim Isgar was recognized as Water Manage of the Year for his leadership in developing new alternatives for irrigation and domestic supplies or the La Plata River Drainage.

## **B. UPCOMING YEAR**

The retirement of Glen Humiston and the tragic loss of David Nelson (Water Commissioner / District 30 -Animas Drainage) in January 2002, caused some projects to be temporarily shelved while the office adjusted to the changes in personnel and reassigned job duties.

The commissioners on the Los Pinos (Pierce and Daniels) have taken on a major project in reviewing individual acreage figures on two major ditches. These will be used to try to establish the distribution of water to the lands. A possible water banking program may be suggested from this study.

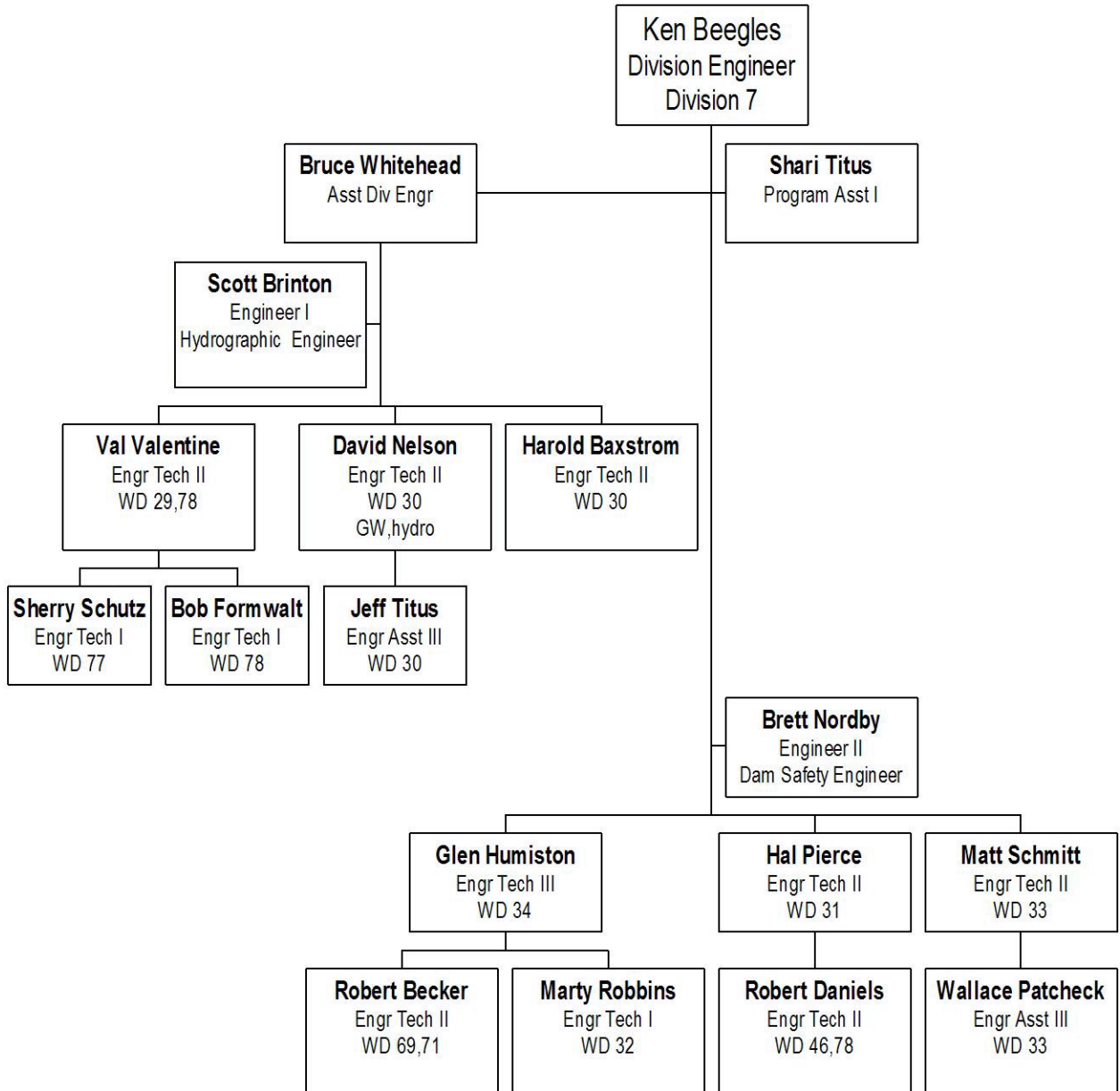
Further work was planned to expand the river restoration work on the Rio Blanco in Archuleta County.

With the filing of the abandonment list as revised by the Division Engineer, there will undoubtedly be some objection by various parties. This should be kept at a minimum because of the numerous agreements made the previous year.

### **Involvement with Water User Community Issues**

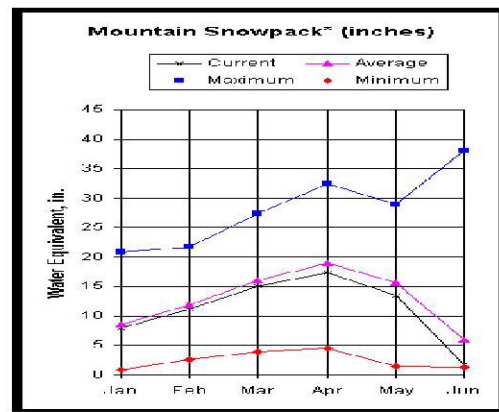
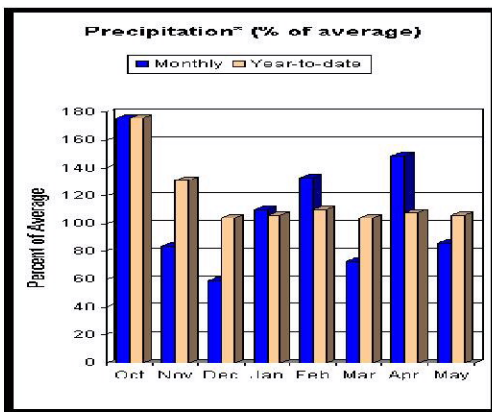
These all remained essentially the same during the water year. The staff remained active and involved. Many issues remain the same. The results show that it appears that the Division has achieved a great deal of respect and recognition by the public for its ability to help in water matters throughout the Southwest region.

**Division 7  
Organizational Chart  
January 2002**



**San Miguel, Dolores, Animas, and San Juan River Basins as of June 1, 2001**

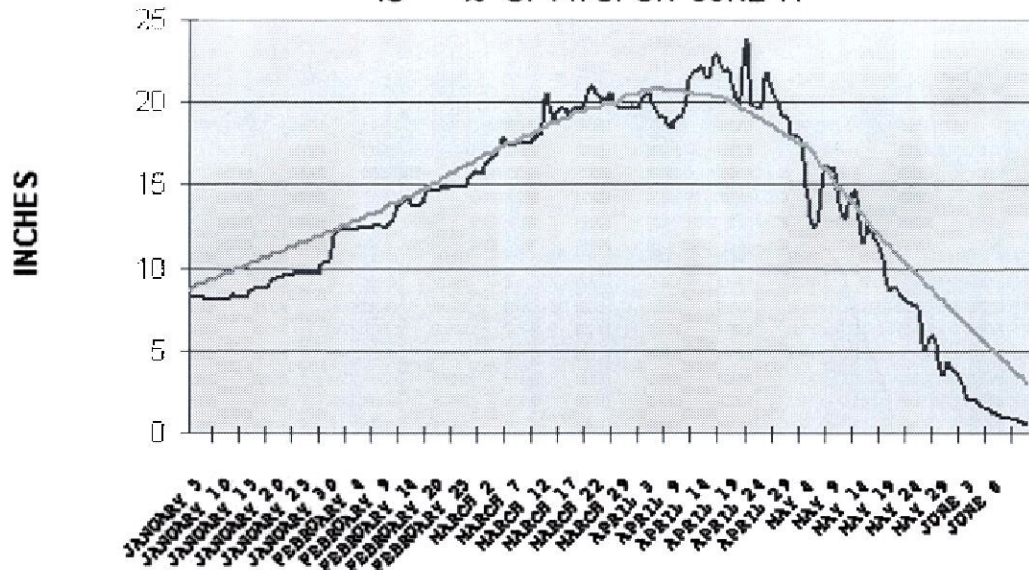
Warm temperatures and below average precipitation have caused the snow at most of the snow measuring sites in these basins to melt away by June 1. Only 5 out of 16 SNOTEL sites have snow remaining on them, and those measurements make a basinwide percent of average of only 32%. Most of the remaining snow is in the San Juan Basin, which has 45% of average snow accumulation left. There is no measurable snow left in the Dolores and San Miguel basins. Precipitation during May was 86% of average, and the water year total is now 106% of average on June 1. The combined reservoir storage level for 6 major reservoirs in these basins has improved significantly since last month, and is 95% of average for this time of year. There is 87% of the storage there was last year at this time. The streamflow forecasts for the remaining runoff season are extremely variable depending on location and snowpack conditions. Forecasts range from only 29% of average at the Inlet to Gurley Reservoir, to 125% of average at the Inflow to Vallecito Reservoir.



**SAN MIGUEL, DOLORES, ANIMAS, SAN JUAN BASIN SNOTEL**

**SWE**

15 % OF AVG. ON JUNE 11



Preliminary data subject to change. **DATE**

**TRANSMOUNTAIN DIVERSION SUMMARY ----- OUTFLOWS**

SOURCE								RECIPIENT		
WD	ID	NAME	STREAM	10-YEAR AVG.		CURRENT YEAR		WD	ID	STREAM
				AF	DAYS	AF	DAYS			
29	4669	TREASURE PASS DITCH	SAN JUAN RIVER	120.0	32.5	56.6	22	20	921	RIO GRANDE RIVER
30	4660	CARBON LAKE DITCH	ANIMAS RIVER	320.4	88.2	0	0	68	692	UNCOMPAHGRE RIVER
30	4661	MINERAL POINT DITCH	ANIMAS RIVER	119.5	55.9	0	0	68	609	UNCOMPAHGRE RIVER
30	4662	RED MOUNTAIN DITCH	ANIMAS RIVER	56.8	56.1	11.3	19	68,41	604,549	UNCOMPAHGRE RIVER
31	4638	PINE RIVER-WEMINUCHE PASS D.	PINE RIVER	466.4	58.1	462.4	110	20	919	RIO GRANDE RIVER
31	4637	WEMINUCHE PASS DITCH	PINE RIVER	827.2	27	0	0	20	922	RIO GRANDE RIVER
78	4672	WILLIAMS CREEK-SQUAW PASS D.	PIEDRA RIVER	361.4	76.8	387.4	98	20	923	RIO GRANDE RIVER
78	4670	DON LA FONT #1 (S RIVER PEAK)	PIEDRA RIVER	15.4	21.1	0	0	20	917	RIO GRANDE RIVER
78	4671	DON LA FONT #2 (PIEDRA PASS D.)	PIEDRA RIVER	139.8	54.6	0	0	20	918	RIO GRANDE RIVER



## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
29	3507	Harris Bros Boone Res 2	Blanco River	0.0	11/01/00	211.0	06/11/01	175.0
29	3644	Borns Lake Reservoir	West Fk. San Juan R.	67.9	11/01/00	67.9	10/31/01	67.9
29	3654	Echo Canyon Reservoir	Echo Creek	2,052.5	07/31/01	2,148.8	03/31/01	2,052.5
29	3682	Thomas Reservoir	San Juan R.	20.0	05/22/01	58.0	11/01/00	36.0
29	3848	Mountain View Reservoir	Four Mile Creek	406.7	11/01/00	1,009.8	06/22/01	1,009.8
		Total of all < 50 AF		135.5		227.9		198.9
Total for District 29				2,682.6		3,723.4		3,540.1

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
30	3534	Andrews Lake	Lime Creek	131.0	11/01/00	131.0	10/18/01	131.0
30	3536	Cascade	Elbert Creek	9,395.0	04/18/01	22,552.0	11/01/00	20,413.0
30	3540	Haviland Lake	Elbert Creek	490.0	08/06/01	526.0	11/01/00	492.0
30	3546	Ice Lake	Elbert Creek	408.0	06/06/01	416.0	11/01/00	416.0
30	3547	Keeler Lake	Elbert Creek	469.0	10/18/01	488.0	11/01/00	469.0
30	3548	Lake of the Pines	Little Cascade Creek	114.0	11/01/00	114.0	10/31/01	114.0
30	3560	Turner Ponds	Animas River	84.0	11/01/00	84.0	10/31/01	84.0
30	3561	Turner Reservoir	Waterfall Creek	356.0	10/31/01	472.0	05/01/01	356.0
30	3576	Florida Canal and Res	Florida River	318.5	05/01/01	441.5	08/14/01	321.5
30	3581	Lemon Reservoir	Florida River	9,504.8	11/01/00	40,146.0	06/06/01	14,160.4
30	3622	Henderson Lake	Animas River	58.0	11/01/00	58.0	10/31/01	58.0
30	3625	Naegelin Lake	Junction Creek	210.0	11/01/00	270.0	06/04/01	210.0
30	3630	Twilight Lake	Purgatory Creek	60.0	11/01/00	60.0	10/31/01	60.0
30	3707	Johnson Reservoir	Coal Creek	740.0	11/01/00	985.0	05/24/01	838.0
30	3724	Johnson Lake #2	Wildcat Canyon	100.0	11/01/00	150.0	03/26/01	105.0
30	3817	Dry Lake	Animas River	55.0	11/01/00	55.0	10/31/01	55.0
		Total of all < 50 AF		278.0		365.0		280.6
Total for District 30				22,771.3		67,313.5		38,563.5

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
31	3517	Wommer Reservoir	Little Bear Creek	191.3	10/31/01	208.5	11/01/00	191.3
31	3518	Vallecito Reservoir	Pine River	33,653.9	11/01/00	124,460.7	06/27/01	51,365.2
31	3805	Gosney Gravel Pit	Pine River	58.9	05/17/01	115.3	07/08/01	84.3
		Total of all < 50 AF		0.0		0.0		0.0
Total for District 31				33,904.1		124,784.5		51,640.8

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
32	3601	Totten Reservoir	Transbasin Water	1,918.2	10/16/01	2,494.5	03/14/01	1,918.2
32	3602	Narraguinnep Reservoir	Transbasin Water	12,786.4	10/18/01	18,786.9	06/19/01	18,155.8
32	3603	A M Puett Reservoir	Transbasin Water	552.5	10/02/01	2,244.0	05/14/01	552.5
		Total of all < 50 AF		90.7		90.7		90.7
Total for District 32				15,347.8		23,616.1		20,717.2

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
33	3522	Red Mesa Ward Reservoir	Hay Gulch	0.0	11/01/00	1,176.0	03/15/01	65.0
33	3523	Taylor Reservoir	La Plata River	85.6	11/01/00	85.6	10/31/01	85.6
		Total of all < 50 AF		0.0		0.0		0.0
Total for District 33				85.6		1,261.6		150.6

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
34	3585	Bauer Reservoir No 1	Crystal Creek	9.5	11/01/00	357.0	05/01/01	74.8
34	3586	Bauer Reservoir No 2	Chicken Creek	438.4	10/31/01	1,532.9	05/01/01	438.4
34	3589	Jackson Gulch Reservoir	West Fork Mancos R	2,333.0	10/31/01	10,159.0	05/31/01	2,333.0
34	3590	L A Bar Reservoir	Chicken Creek	26.8	11/01/00	73.3	05/01/01	26.8
34	3592	Sellers & McClane Res	Mud Creek	0.0	08/02/01	52.1	04/02/01	32.0
34	3594	Weber	Middle Fork Mancos R	129.4	10/31/01	458.9	04/16/01	129.4
		Total of all < 50 AF		24.9		49.2		24.9
Total for District 34				2,962.0		12,682.4		3,059.3

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
69	3529	Belmar Lake Reservoir	Rincon Creek	188.0	10/18/01	394.6	06/15/01	188.0
69	3530	Dunham Reservoir	Disappointment Creek	54.1	08/30/01	78.8	05/10/01	54.1
69	3532	Morrison Reservoir	Morrison Creek	62.5	11/01/00	116.3	05/10/01	93.8
		Total of all < 50 AF		20.9		50.6		22.2
Total for District 69				325.5		640.3		358.1

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
71	3606	Big Pine Reservoir	Lost Canyon	13.2	11/01/00	259.0	04/19/01	57.8
71	3607	Buck Pasture Reservoir	Beaver Creek	48.1	10/31/01	53.0	11/01/00	48.1
71	3610	Ethel Belmear Reservoir	Beaver Creek	84.6	10/15/01	87.3	11/01/00	846.0
71	3612	Groundhog Reservoir	Groundhog Creek	11,104.0	10/15/01	18,983.0	06/13/01	11,104.0
71	3613	Lost Canyon Lake	Lost Canyon	58.1	11/01/00	106.2	04/09/01	93.0
71	3614	McPhee Reservoir	Dolores River	205,946.0	10/31/01	335,395.0	05/31/01	205,946.0
71	3619	Summit Reservoir	Lost Canyon	339.0	10/05/01	4,151.0	05/14/01	339.0
		Total of all < 50 AF		10.7		16.2		13.2
Total for District 71				217,603.7		359,050.7		218,447.1



## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
77	3512	Spence Reservoir	Coyote Creek	2.0	10/25/01	379.0	05/24/01	2.0
77	3696	Sappington Reservoir	Coyote Creek	145.0	09/25/01	201.0	05/24/01	145.0
		Total of all < 50 AF		15.4		15.4		15.4
Total for District 77				162.4		595.4		162.4

## RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of Year
				AF	Date	AF	Date	
78	3624	Dunagan Reservoir	Stollsteimer Creek	0.0	11/01/00	93.4	04/17/01	2.5
78	3626	G S Hatcher	Stollsteimer Creek	1,159.5	02/26/01	1,735.0	04/02/01	1,329.7
78	3629	Linn and Clark Reservoir	Dutton Creek	1,045.6	11/30/00	1,230.0	02/28/01	981.0
78	3636	Pinón Lake	Dutton Creek	53.2	09/28/01	162.0	04/02/01	89.2
78	3642	Williams Creek Reservoir	Williams Creek	10,084.0	11/01/00	10,084.0	10/14/01	10,084.0
78	3644	Lake Forest	Dutton Creek	360.0	11/01/00	465.0	02/28/01	379.1
78	3645	Stevens Reservoir	Dutton Creek	381.1	10/30/01	635.0	04/02/01	381.1
78	3646	Town Center Lake	Dutton Creek	175.0	11/01/00	630.0	04/02/01	272.5
78	3650	Palisade Lake	Middle Fork Piedra R	50.0	11/01/00	50.0	10/16/01	50.0
		Total of all < 50 AF		85.1		151.0		95.8
Total for District 78				13,393.5		15,235.4		13,664.9

## 2001 WATER DIVERSION SUMMARIES

WD	STRUCTURES REPORTING			ALL OTHER STRUCTURES		ESTIMATED NUMBER OF VISITS TO STRUCTURE	TOTAL DIVERSIONS (ACRE-FEET)	TOTAL DIVERSIONS TO STORAGE (ACRE-FEET)	TO IRRIGATION		
	WITH RECORD (1)	NO WATER AVAILABLE (2)	NO WATER TAKEN (3)	NO INFORMATION AVAILABLE (4)	NO RECORD (5)				TOTAL DIVERSIONS (ACRE-FEET)	NUMBER OF ACRES IRRIGATED	AVERAGE ACRE-FEET PER ACRE
29	348	3	180	4	0	3,360	99,358	296	39,163	10,719	3.65
30	940	34	435	0	0	12,240	323,274	45,194	152,308	31,140	4.89
31	310	27	220	3	0	9,636	596,487	103,891	230,442	47,934	4.81
32 *	382	12	186	11	0	4,278	362,983	12,454	273,648	77,599	3.53
33	174	31	59	3	0	5,297	35,496	933	30,416	10,867	2.80
34 **	405	14	48	6	0	2,279	52,574	10,538	35,291	10,424	3.39
46	45	7	14	0	0	959	4,819	0	2,853	736	3.88
69	31	0	9	1	0	223	2,890	292	2,575	1,350	1.91
71	139	2	78	2	0	4,054	421,206	139,917	14,930	1,963	7.61
77***	120	0	47	0	0	1,649	69,795	219	11,475	2,160	5.31
78	180	4	76	2	0	1,656	29,930	2,417	23,894	5,797	4.12
<b>TOTAL</b>	<b>3,074</b>	<b>134</b>	<b>1,352</b>	<b>32</b>	<b>0</b>	<b>45,631</b>	<b>1,998,812</b>	<b>316,151</b>	<b>816,995</b>	<b>200,689</b>	<b>4.07</b>

Definitions:

- (1) Count of structures with CIU=A and NUC=blank
- (2) Count of structures with CIU=A and NUC=B
- (3) Count of structures with CIU=A and NUC={A,C,D} + CIU=I
- (4) Count of structures with CIU=A and NUC={E,F}
- (5) Count of structures with CIU=U

\* Total Deliveries from Dolores River Basin, Dist. 71, 285,557 A.F. of which 215,855 A.F. were for irrigation.

\*\* Total Deliveries from Dolores River Basin, Dist. 71, 616 A.F. of which 475 A.F. were for irrigation.

\*\*\* Total Deliveries from Dist. 29, 0 A.F. (No deliveries from transbasin diversions IY 2001)

## 2001 WATER DIVERSION SUMMARIES TO VARIOUS USES

WD	TRANSMOUNTAIN OUTFLOW	TRANSBASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
29***	57	4,338	900	941	0	0	3,757	89	1,582
30	11	0	6,343	1,309	544	468	11,004	296	9,248
31	462	0	1,067	106	2	0	895	41	140
32 *	0	0	6,074	1	32	0	0	4	420
33	0	349	2	14	0	1	0	455	2,160
34	0	0	1,144	2	3	0	736	15	4,510
46	0	0	0	0	0	0	0	0	22
69	0	0	0	0	0	0	0	0	3
71 **	234,963	0	382	1	0	3	6,782	12	476
77	0	0	0	0	0	0	361	44	1
78	387	0	1,356	42	0	0	984	39	687
TOTAL	235,880	4,687	17,268	2,416	581	472	24,519	995	19,249

\* Municipal Use in Dist. 32 delivered from Transbasin - Dist. 71.

\*\* Transbasin outflow in Dist. 71 diverted to Dist. 32 and Dist. 34.

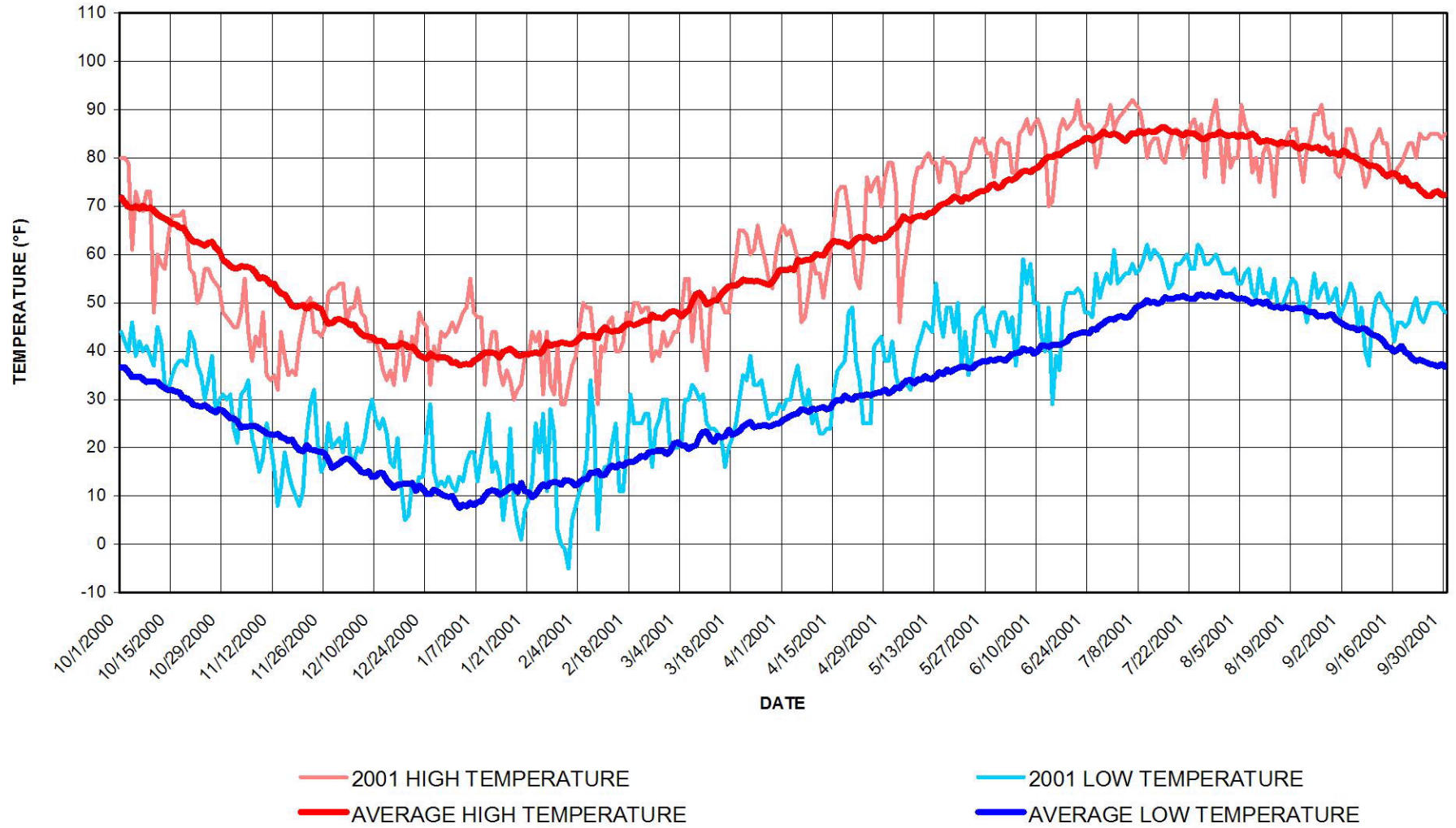
\*\*\* Transbasin outflow in Dist 29 includes 0 af to Dist. 77 (No deliveries from transbasin IY 2001). Remainder is Trans Sub-basin diversion in Snowball Ditch

**2001 WATER DIVERSION SUMMARIES TO VARIOUS USES (CONTINUED)**

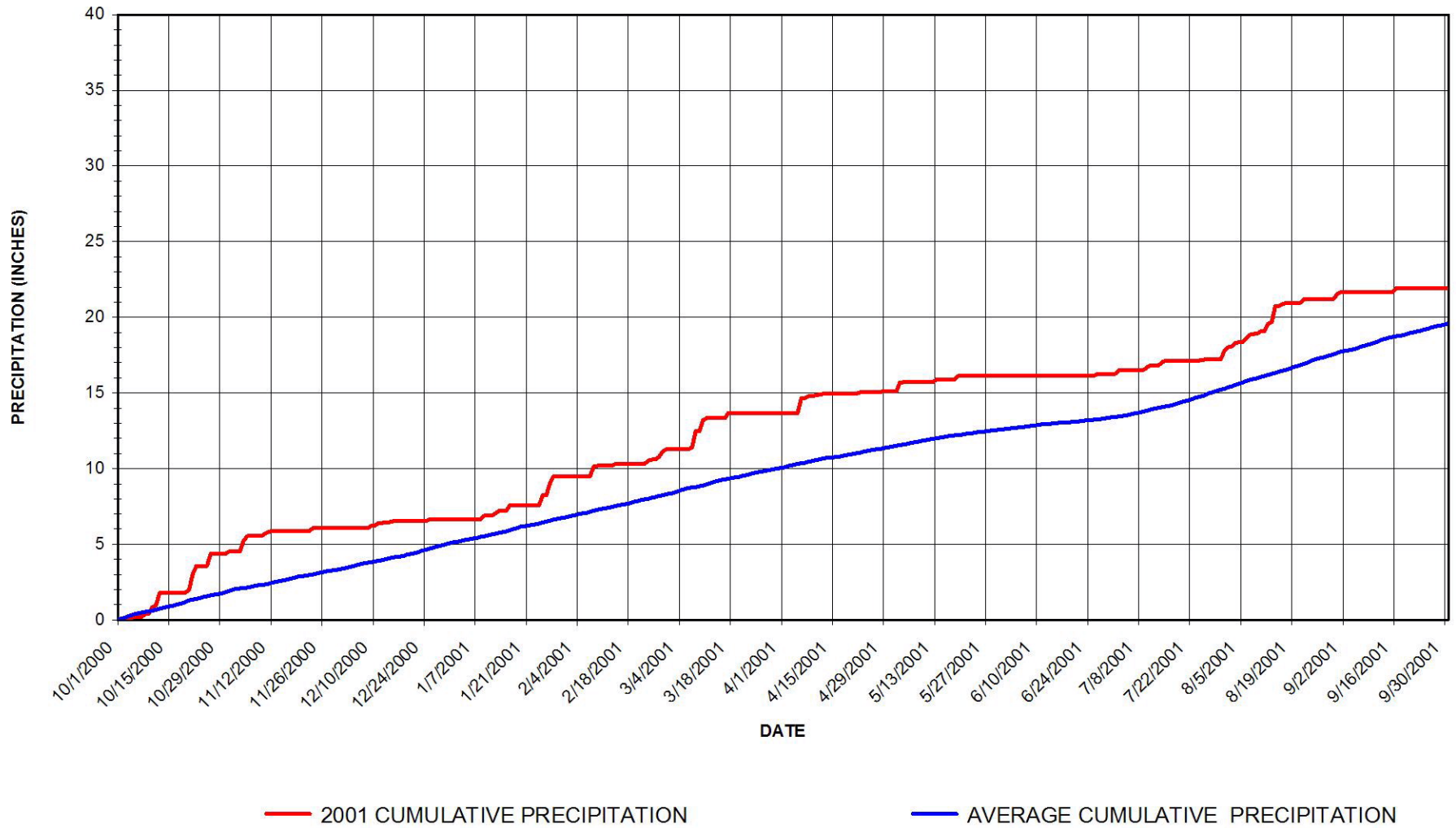
WD	AUGMENTATION	EVAPORATION	FEDERAL RESERVE	GEOHERMAL	SNOWMAKING	MINIMUM STREAMFLOW	POWER GENERATION	WILDLIFE	RECHARGES	OTHER
29	20	0	0	0	0	0	0	0	0	0
30	199	1,174	0	0	117	0	50,045	0	18	0
31	108	3,577	0	0	0	0	255,859	0	0	0
32	3	0	7	0	0	0	50,915	0	0	0
33	6	0	0	0	0	0	0	0	1	120
34	0	0	36	0	0	0	10,888	0	20	0
46	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0
71	114	0	0	0	0	0	22,948	0	0	0
77	0	0	0	0	0	0	0	0	0	0
78	0	0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>450</b>	<b>4,751</b>	<b>43</b>	<b>0</b>	<b>117</b>	<b>0</b>	<b>390,655</b>	<b>0</b>	<b>39</b>	<b>120</b>

\* Geothermal water included in Commercial, Municipal, and Recreation categories.

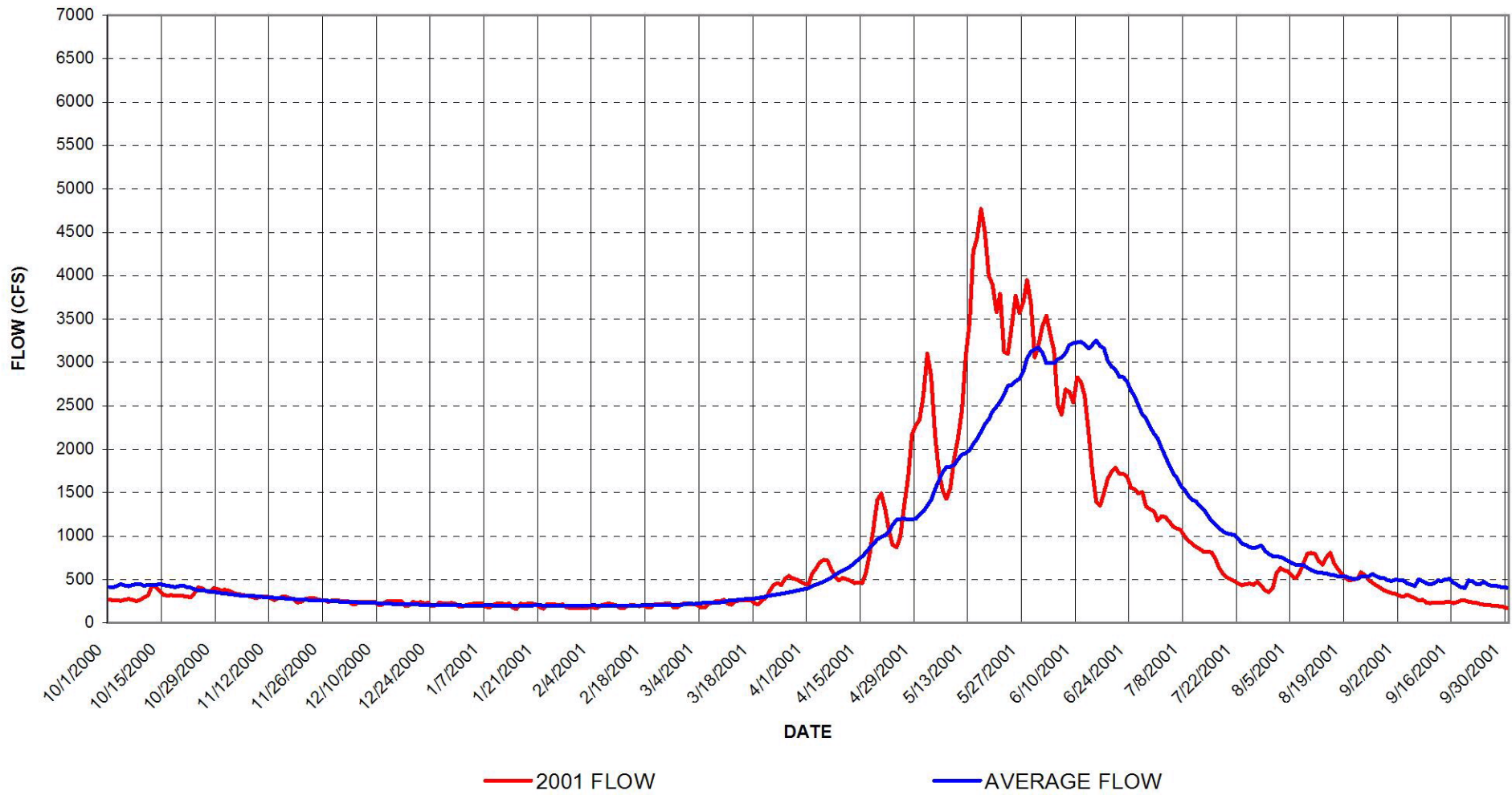
### DURANGO TEMPERATURES



### DURANGO CUMULATIVE PRECIPITATION

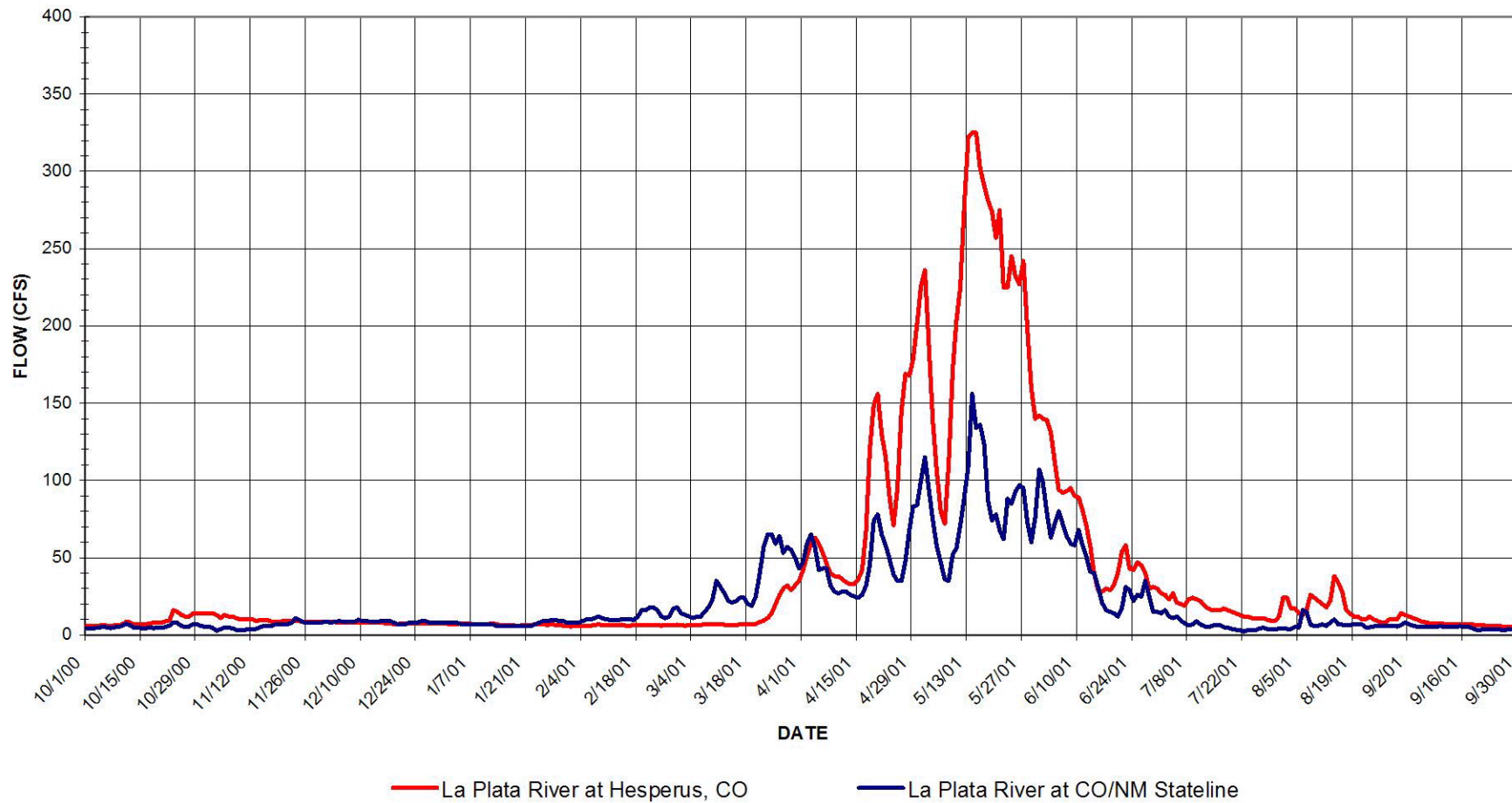


### ANIMAS RIVER AT DURANGO, CO





### LA PLATA RIVER COMPACT - 2001 WATER YEAR



**LA PLATA RIVER COMPACT MONTHLY ADMINISTRATIVE SUMMARY (ACRE-FEET)  
2001 WATER YEAR**

MONTH	HESPERUS STATION	LA PLATA	PINE	30% OF	HESPERUS TOTAL	STATE	ENTERPRISE	PIONEER DITCH	DELIVERED	REQUIRED
		& CHERRY CR. DITCH	RIDGE DITCH	KELLER DITCH		LINE STATION	DITCH (NM)		STATE LINE TOTAL	TOTAL (1/2 HESP TOTAL)
DECEMBER	477	0.0	0.0	0.0	477.0	515	0.0	0.0	515.0	---
JANUARY	417	0.0	0.0	0.0	417.0	447	0.0	0.0	447.0	---
FEBRUARY	351	0.0	0.0	0.0	351.0	658	0.0	22.4	680.4	---
MARCH	756	0.0	0.0	0.0	756.0	2000	0.0	2.0	2002.0	---
APRIL	5070	1.4	335	0.0	5406.4	2760	126	66.8	2952.8	---
MAY	13330	371	341	11.0	14053.0	5210	148	225	5583.0	4654.0
JUNE	3830	1340	80.9	10.5	5261.4	2490	137	180	2807.0	2855.4
JULY	1040	185	0.0	0.0	1225.0	389	40.5	88.3	517.8	612.5
AUGUST	1040	78.7	0.0	0.0	1118.7	412	0.0	0.0	412.0	561.9
SEPTEMBER	434	0.0	0.0	0.0	434.0	286	0.0	0.0	286.0	226.9
OCTOBER	396	0.0	0.0	0.0	396.0	289	0.0	0.0	289.0	196.5
NOVEMBER	342	0.0	0.0	0.0	342.0	269	0.0	0.0	269.0	172.6
TOTALS *	20412.0	1974.7	421.9	21.5	22808.6	9345.0	325.5	493.3	10163.8	9279.8

On April 29th, Colorado began requested deliveries up to 75 cfs or 1/2 upper index flow, whichever is less.

On May 4th, Received New Mexico request for 50 cfs.

On May 5th, Received New Mexico request for 70 cfs.

On May 12th, Delivered New Mexico request for 80 cfs.

On May 23rd, Delivered New Mexico request for 90 cfs.

July 16: Ran test for water delivery

July 19: River split below Hesperus

July 24: River split above confluence of Cherry Creek

Discharges for La Plata River at Hesperus from Aug. 8 to Sep. 4 based on supplemental measurements and gage height record, when available, due to ramp flume construction

Discharges for La Plata River at CO/NM Stateline from Aug. 17 to Sep. 4 based on supplemental measurements and gage height record, when available, due to ramp flume construction

\* TOTALS ARE FOR PERIOD OF COMPACT CALL.

## UPPER BASIN COMPACT -- SAN JUAN-CHAMA DIVERSIONS

<u>WATER</u>	<u>RIO BLANCO</u>	<u>LITTLE OSO</u>	<u>OSO</u>	<u>TOTAL COLO.</u>	<u>AZOTEA</u>	<u>TEN-YEAR</u>	
<u>YEAR</u>	<u>DIVERSION</u>	<u>DIVERSION</u>	<u>DIVERSION</u>	<u>DIVERSION</u>	<u>TUNNEL</u>	<u>TOTALS</u>	<u>% DIFF</u>
					<u>(USGS)</u>	<u>(USGS)</u>	
1971	25,190	1,340	24,980	51,510	59,980		-16.4%
1972	28,290	1,120	24,310	53,720	58,070		-8.1%
1973	70,900	9,720	79,810	160,430	153,300		4.4%
1974	25,290	1,070	18,700	45,060	47,230		-4.8%
1975	58,780	8,120	69,200	136,100	145,100		-6.6%
1976	41,000	2,420	36,950	80,370	85,230		-6.0%
1977	13,450	37	3,930	17,417	19,390		-11.3%
1978	44,010	2,820	50,310	97,140	104,200		-7.3%
1979	60,150	8,980	87,730	156,860	164,200		-4.7%
1980	57,760	6,970	72,460	137,190	143,600	980,300	-4.7%
1981	25,690	1,640	22,260	49,590	53,960	974,280	-8.8%
1982	48,340	6,860	63,810	119,010	127,100	1,043,310	-6.8%
1983	46,960	8,110	69,680	124,750	134,300	1,024,310	-7.7%
1984	45,180	6,070	55,220	106,470	113,600	1,090,680	-6.7%
1985	32,700	9,630	44,630	86,960	91,800	1,037,380	-5.6%
1986	35,520	4,720	43,620	83,860	89,180	1,041,330	-6.3%
1987	32,120	4,380	42,360	78,860	83,050	1,104,990	-5.3%
1988	29,200	972	29,780	59,952	63,530	1,064,320	-6.0%
1989	20,400	672	26,630	47,702	48,570	948,690	-1.8%
1990	37,630	1,480	32,510	71,620	71,700	876,790	-0.1%
1991	51,730	3,930	59,780	115,440	119,400	942,230	-3.4%
1992	32,910	6,340	43,990	83,240	87,080	902,210	-4.6%
1993	34,960	6,210	52,740	93,910	98,810	866,720	-5.2%
1994	28,080	5,020	44,260	77,360	82,200	835,320	-6.3%
1995	34,980	5,220	44,840	85,040	86,270	829,790	-1.4%
1996	26,780	950	27,640	55,370	57,240	797,850	-3.4%
1997	62,320	4,450	71,470	138,240	141,200	856,000	-2.1%
1998	47,910	2,110	45,370	95,390	97,280	889,750	-2.0%
1999	58,690	2,040	55,980	116,710	120,500	961,680	-3.2%
2000	20,230	1,150	19,130	40,510	42,740	932,720	-5.5%
2001	47,710	3,900	53,740	105,350			
AVG.	39,894	4,255	46,378	90,527	93,806	874,535	-3.6%

LIMITS: 1,350,000 ACRE-FEET IN ANY TEN CONSECUTIVE YEARS, 270,000 ACRE-FEET IN ANY YEAR

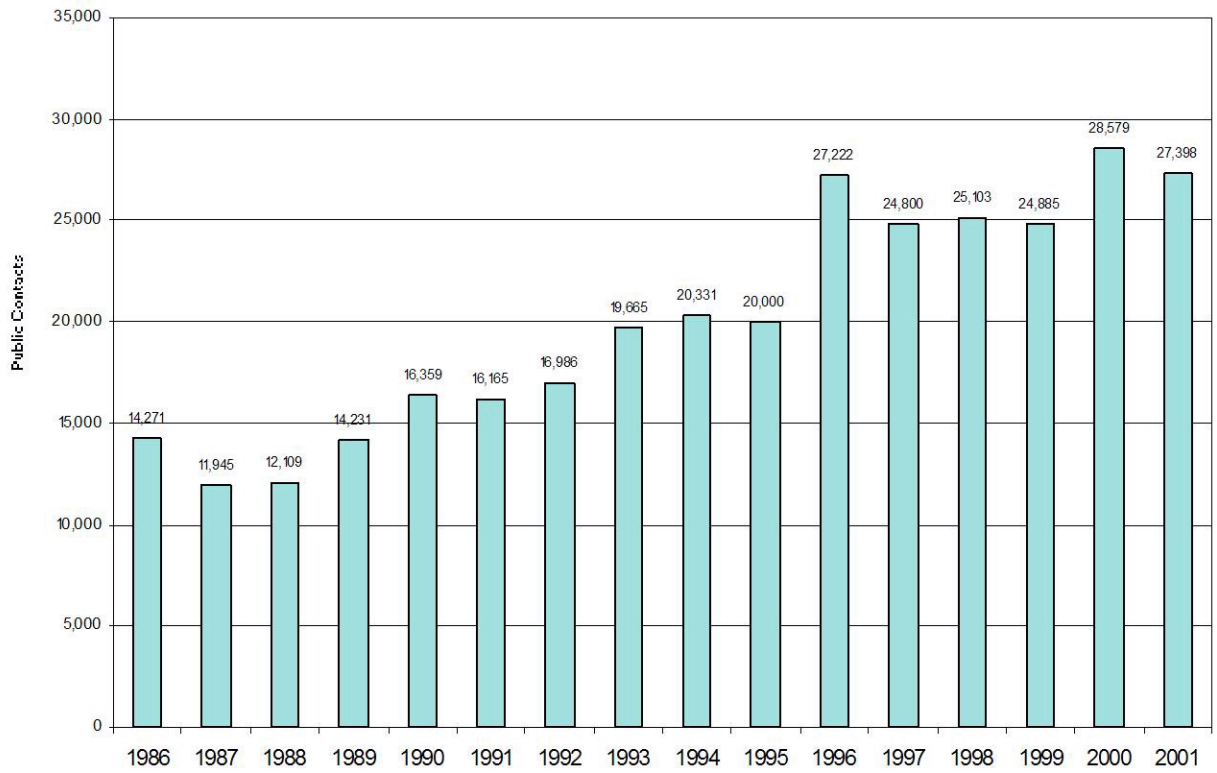
**WATER DIVISION SEVEN**

**ACTIVITY SUMMARY**

**FISCAL YEAR 2001**

<b><u>ACTIVITY</u></b>	<b><u>TOTAL</u></b>
NUMBER OF PROFESSIONAL & TECHNICAL STAFF	4
NUMBER OF CLERICAL STAFF	1
NUMBER OF WATER COMMISSIONER FTE ASSIGNED	15.16
NUMBER OF DECREED "SURFACE" RIGHTS (FOR THE CURRENT YEAR)	43
NUMBER OF SURFACE RIGHTS ADMINISTERED	25,494
NUMBER OF WELLS ADMINISTERED	713
NUMBER OF DAMS & PONDS VISITED	1,177
NUMBER OF PLANS FOR AUGMENTATION (FOR THE CURRENT YEAR)	3
NUMBER OF CONSULTATIONS WITH REFEREE	174
NUMBER OF WATER COURT APPEARANCES	28
NUMBER OF MEETINGS WITH WATER USERS	170
NUMBER OF MEETINGS TO RESOLVE WATER RELATED DISPUTES	146
NUMBER OF PUBLIC ASSISTANCE CONTACTS ON WATER MATTERS	27,398

## DIVISION 7 PUBLIC CONTACTS

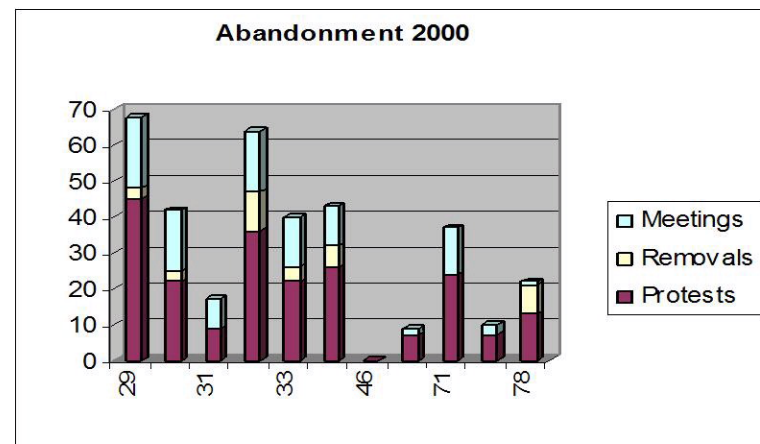
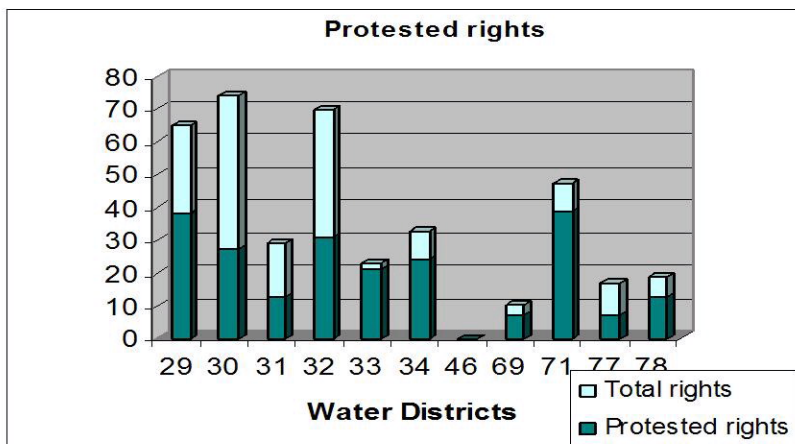


Annual Number of Public Contacts

1986	14,271
1987	11,945
1988	12,109
1989	14,231
1990	16,359
1991	16,165
1992	16,986
1993	19,665
1994	20,331
1995	20,000
1996	27,222
1997	24,800
1998	25,103
1999	24,885
2000	28,579
2001	27,398

## Division Seven 2001 Abandonment List Actions

Water District	Total Rights listed	Protests	Protested rights	Removals	Meetings	Revised List
29	<b>65</b>	45	38	3	20	<b>49</b>
30	<b>74</b>	22	27	3	17	<b>62</b>
31	<b>29</b>	9	13	0	8	<b>28</b>
32	<b>70</b>	36	31	11	17	<b>57</b>
33	<b>23</b>	22	21	4	14	<b>15</b>
34	<b>33</b>	26	24	6	11	<b>17</b>
46	<b>0</b>	0	0	0	0	<b>0</b>
69	<b>10</b>	7	7	0	2	<b>5</b>
71	<b>47</b>	24	39	0	13	<b>36</b>
77	<b>17</b>	7	7	0	3	<b>17</b>
78	<b>19</b>	13	13	8	1	<b>11</b>
	<b>387</b>	211	220	35	106	<b>297</b>



**WATER COURT ACTIVITIES**  
**CALENDAR YEAR 2001**

NUMBER OF APPLICATIONS FOR DECREES	111
NUMBER OF CONSULTATIONS WITH REFEREE	174
NUMBER OF DECREES ISSUED BY WATER COURT	84

TYPE OF DECREE:

SURFACE WATER	43
GROUND WATER	6
RESERVOIRS	10
TRANSFER	0
ALTERNATE POINT	4
CHANGE IN USE	11
PLANS FOR AUGMENTATION	3
IN-STREAM FLOW	0
OTHER	<u>12</u>

NUMBER OF STRUCTURES IN DECREES      89

TYPE OF STRUCTURES:

DITCHES	33
RESERVOIRS, PONDS	26
WELLS	12
SPRINGS	22
OTHER (PIPELINES, PUMPS, ETC.)	<u>25</u>

TOTAL STRUCTURES:      118

**OFFICE ADMINISTRATION FY 2001**

<b><u>NAME</u></b>	<b><u>POSITION</u></b>	<b><u>FY MONTHS</u></b>		
		<b><u>BUDGETED</u></b>	<b><u>WORKED</u></b>	<b><u>FY MILEAGE</u></b>
Kenneth A. Beegles	Division Engineer	12	12	1,155
Bruce T. Whitehead	Asst. Div. Engineer	12	12	499
Scott D. Brinton	Hydrographer	12	12	12,660
Brett Nordby	Dam Safety Engineer	12	12	13,099
Shari Titus	Program Asst. I	12	12	0

**FULL-TIME EMPLOYEES IN THE FIELD**

<b><u>NAME</u></b>	<b><u>POSITION</u></b>	<b><u>DISTRICT</u></b>			
Harold Baxstrom	Eng Tech II	30/Florida	12	12	12,024
Robert Becker	Eng Tech II	69, 71	12	12	12,596
Glen Humiston	Eng Tech III	32,34,69,71	12	12	13,277
Matthew Schmitt	Eng Tech II	33	12	12	12,020
David Nelson	Eng Tech II	30/Animas	12	12	5,437
Hal Pierce	Eng Tech II	31, 46	12	12	15,292
John (Val) Valentine	Eng Tech II	29,77,78	12	12	13,062

**PERMANENT PART-TIME EMPLOYEES IN THE FIELD**

Robert Daniels	Eng Tech II	31,46	9.5	9.5	11,140
Marty Robbins	Eng Tech I	32	9	9	6,248
Wallace Patcheck	EPS Asst. III	33	4	4	6,542
Sherry Schutz	Eng Tech I	77	7.5	7.5	11,166
J.Taylor / B. Formwalt	Eng Tech I	78	5	5	3,498
S. Barrett / J.Titus	EPS Asst. III	30/Animas	3	4*	3,728

**SPECIAL NOTE:**

\* 1 Month Overtime Converted  
 (3 Months of Barrett / Titus Budgeted time came from Groundwater Decentralization)

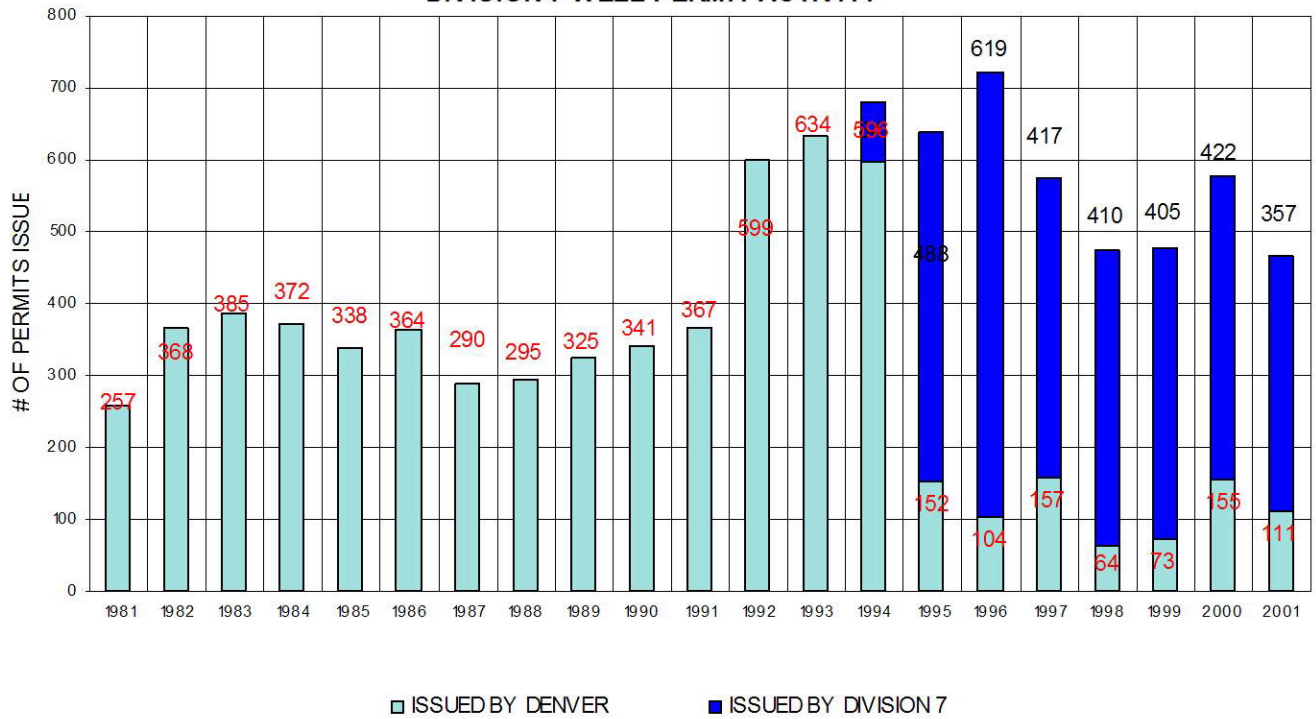
<b>TOTAL MAN-MONTHS:</b>	182	183	
<b>TOTAL FTE:</b>	15.16	15.25	
<b>TOTAL MILES DRIVEN:</b>			153,443



**DIVISION 7  
2001 RIVER CALLS**

WD	RIVER	INITIAL CALLING STRUCTURE	PRIORITY No.	DATE ON CALL	MOST SENIOR CURTAILED STRUCTURE	PRIORITY No.	DATE OFF CALL	DAYS
29	FOUR MILE CREEK	Mesa Ditch	3	06/25/01	Fourmile Ditch	2	08/16/01	56
29	RITO BLANCO	M. O. Brown Ditch	4	07/02/01	Echo Ditch	1	09/04/01	64
30	FLORIDA RIVER	Lemon Reservoir	Res 65-4	06/06/01	Florida Farmers Ditch	F-17	10/14/01	130
30	ELBERT CREEK (Upper)	Power Canal No 1	65-9A	11/01/00	Power Canal No1	65-9A	10/31/01	365
30	ELBERT CREEK (Lower)	Conley Ditch	E-1	06/05/01	Fish Ditch	E-5	10/31/01	148
30	LITTLE CASCADE CREEK	Little Cascade Creek Canal	65-9	11/01/00	Little Cascade Creek Canal	65-9	10/31/01	365
31	PINE RIVER	Spring Creek Ditch	90-59	06/29/01	Schroder Irrigation Ditch	P-12	08/14/01	46
33	LA PLATA RIVER (Hesperus to Stateline)	M K and T Ditch	72	04/28/01	Hay Gulch Ditch	9	07/19/01	82
33	LA PLATA RIVER (Hesperus to Hay Gulch Confluence)	Hay Gulch Ditch	9	07/19/01	Hay Gulch Ditch	5	10/31/01	105
33	LA PLATA RIVER (Hay Gulch Confluence to Stateline)	Morgan and Stambaugh D	55	07/19/01	Seep Ditch	27	07/24/01	6
33	LA PLATA RIVER (Hay Gulch Confluence to Cherry Creek)	White-Roux and Owens D	45	07/24/01	Old Indian Ditch	36	10/31/01	100
33	LA PLATA RIVER (Cherry Creek to Stateline)	Morgan and Stambaugh D	55	07/24/01	Sooner Valley Ditch	41	10/31/01	100
34	MANCOS RIVER	Ratliff and Root Ditch	M-37	06/08/01	Lee and Burke Ditch	M-4	09/25/01	110

### DIVISION 7 WELL PERMIT ACTIVITY



1980 - 2001

<u>CALENDAR YEAR</u>	<u>ISSUED BY DENVER</u>	<u>ISSUED BY DIVISION 7</u>
1980	193	
1981	257	
1982	368	
1983	385	
1984	372	
1985	338	
1986	364	
1987	290	
1988	295	
1989	325	
1990	341	
1991	367	
1992	599	
1993	634	
1994	596	84
1995	152	488
1996	104	619
1997	157	417
1998	64	410
1999	73	405
2000	155	422
2001	111	357

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 29**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	36,438
STORAGE	296
STOCKWATER	1,582
MUNICIPAL	900
DOMESTIC	89
INDUSTRIAL	0
RECREATION	0
FISH	3,757
OTHER: COMMERCIAL, AUGMENTATION	941
TRANSMOUNTAIN-TRANSBASIN	4,259
INTERSTATE	47,710
TOTAL DIVERSIONS.....	95,972
 DELIVERIES FROM STORAGE	
IRRIGATION	41
DOMESTIC	0
MUNICIPAL	0
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	136
OTHER: AUGMENTATION, ETC.	20
TOTAL DIVERSIONS.....	197
 DELIVERIES FROM TRANS SUB-BASIN	
IRRIGATION	2,684
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	2,684
 DUTY OF WATER:	
TOTAL TO IRRIGATION	39,163
ACRES IRRIGATED	10,719
ACRE-FEET DIVERTED PER ACRE	3.65
 NUMBER OF STRUCTURES OBSERVED	535
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	3
ACTIVE DIVERSIONS-DAILY	182
-INFREQUENT STRUCTURES	162
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	4
-NOT USED (A,C,D, CODES)	180
-NO INFORMATION AVAILABLE (F CODE)	4
 NUMBER OF DITCHES, SURFACE RIGHTS	359
NUMBER OF RESERVOIRS	98
NUMBER OF WELLS	79
NUMBER OF OBSERVATIONS	3,360

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 30**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	123,922
STORAGE	44,665
STOCKWATER	35,805
MUNICIPAL	6,343
DOMESTIC	295
INDUSTRIAL,POWER	27,849
RECREATION	468
FISH	11,002
OTHER:COMMERCIAL,RECHARGE,AUGMENTATION,etc..	956
SNOWMAKING	30
TRANSMOUNTAIN-TRANSBASIN	11
INTERSTATE	9,248
TOTAL DIVERSIONS.....	260,594
DELIVERIES FROM STORAGE	
IRRIGATION	28,315
DOMESTIC	1
MUNICIPAL	0
STOCK	0
INDUSTRIAL,POWER	22,196
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER:COMMERCIAL,RECHARGE,EVAP,AUGMENTATION	1,701
SNOWMAKING	87
TOTAL DIVERSIONS.....	52,300
DELIVERIES FROM TRANSBASIN	
IRRIGATION	50
STORAGE	254
MUNICIPAL	0
STOCK	0
OTHER:COMMERCIAL,etc.	45
TOTAL FROM TRANSBASIN.....	349
DUTY OF WATER:	
TOTAL TO IRRIGATION	152,287
ACRES IRRIGATED	31,140
ACRE-FEET DIVERTED PER ACRE	4.89
NUMBER OF STRUCTURES OBSERVED	1,408
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	256
-INFREQUENT STRUCTURES*	683
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	34
-NOT USED (A,C,D, CODES)	435
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES	790
NUMBER OF RESERVOIRS	181
NUMBER OF WELLS	475
NUMBER OF OBSERVATIONS	12,240

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 31**

	ACRE-FEET
DIRECT DIVERSIONS	
IRRIGATION	206,354
STORAGE	103,891
STOCKWATER	140
MUNICIPAL	970
DOMESTIC	41
POWER,INDUSTRIAL	255,859
RECREATION	0
FISH	895
OTHER:COMMERCIAL	106
TRANSMOUNTAIN-TRANSBASIN	462
TOTAL DIVERSIONS.....	568,718
DELIVERIES FROM STORAGE	
IRRIGATION	24,088
DOMESTIC	0
MUNICIPAL	97
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER:EVAPORATION,AUGMENTATION	3,685
TOTAL DIVERSIONS.....	27,870
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	230,442
ACRES IRRIGATED	47,934
ACRE-FEET DIVERTED PER ACRE	4.81
NUMBER OF STRUCTURES OBSERVED	825
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	124
-INFREQUENT STRUCTURES	451
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	27
-NOT USED (A,C,D, CODES)	220
-NO INFORMATION AVAILABLE (F CODE)	3
NUMBER OF DITCHES, OTHER SURFACE RIGHTS	466
NUMBER OF RESERVOIRS	64
NUMBER OF WELLS	342
NUMBER OF OBSERVATIONS	9,636

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 32**

	ACRE-FEET
DIRECT DIVERSIONS	
IRRIGATION	48,612
STORAGE	20
STOCKWATER	19
MUNICIPAL	32
DOMESTIC	4
INDUSTRIAL	32
RECREATION	0
FISH	0
OTHER: COMMERCIAL, FEDERAL RESERVE	8
TRANSMOUNTAIN-TRANSBASIN	0
TOTAL DIVERSIONS.....	48,727
DELIVERIES FROM STORAGE	
IRRIGATION	9,181
DOMESTIC	0
MUNICIPAL	0
STOCK	92
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER: COMMERCIAL, AUGMENTATION, EVAPORATION	2
TOTAL DIVERSIONS.....	9,275
DELIVERIES FROM TRANSBASIN	
IRRIGATION	215,855
STORAGE	12,434
MUNICIPAL	6,042
STOCK	309
POWER	50,915
OTHER: AUGMENTATION	2
TOTAL FROM TRANSBASIN.....	285,557
DUTY OF WATER:	
TOTAL TO IRRIGATION	273,648
ACRES IRRIGATED	77,599
ACRE-FEET DIVERTED PER ACRE	3.53
NUMBER OF STRUCTURES OBSERVED	546
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	9
ACTIVE DIVERSIONS-DAILY	227
-INFREQUENT STRUCTURES	110
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	12
-NOT USED (A,C,D, CODES)	186
-NO INFORMATION AVAILABLE (F CODE)	2
NUMBER OF DITCHES, SURFACE RIGHTS	524
NUMBER OF RESERVOIRS	20
NUMBER OF WELLS	44
NUMBER OF OBSERVATIONS	4,278

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 33**

	ACRE-FEET
DIRECT DIVERSIONS	
IRRIGATION	29,460
STORAGE	956
STOCKWATER	2,147
MUNICIPAL	5
DOMESTIC	455
INDUSTRIAL	0
RECREATION	1
FISH	0
OTHER:COMMERCIAL	14
TRANSMOUNTAIN-TRANSBASIN	349
INTERSTATE	1,035
TOTAL DIVERSIONS.....	33,387
DELIVERIES FROM STORAGE	
IRRIGATION	956
DOMESTIC	0
MUNICIPAL	0
STOCK	13
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER:RECHARGE,AUGMENTATION	7
TOTAL DIVERSIONS.....	976
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	30,416
ACRES IRRIGATED	10,867
ACRE-FEET DIVERTED PER ACRE	2.80
NUMBER OF STRUCTURES OBSERVED	242
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	2
ACTIVE DIVERSIONS-DAILY	48
-INFREQUENT STRUCTURES	101
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	31
-NOT USED (A,C,D, CODES)	59
-NO INFORMATION AVAILABLE (F CODE)	1
NUMBER OF DITCHES, SURFACE RIGHTS	252
NUMBER OF RESERVOIRS	22
NUMBER OF WELLS	52
NUMBER OF OBSERVATIONS	5,297

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 34**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	26,642
STORAGE	10,413
STOCKWATER	4,494
MUNICIPAL	890
DOMESTIC	15
RECREATION	0
FISH	730
POWER	4,879
OTHER:FEDERAL RESERVE	36
TOTAL DIVERSIONS.....	48,099
DELIVERIES FROM STORAGE	
IRRIGATION	8,174
DOMESTIC	0
MUNICIPAL	254
STOCK	0
INDUSTRIAL	0
RECREATION	0
POWER	6,009
OTHER:FISHERY,COMMERCIAL,EVAPORATION	8
TOTAL DIVERSIONS.....	14,445
DELIVERIES FROM TRANSBASIN	
IRRIGATION	475
STORAGE	125
MUNICIPAL	0
STOCK	16
TOTAL FROM TRANSBASIN.....	616
DUTY OF WATER:	
TOTAL TO IRRIGATION	35,291
ACRES IRRIGATED	10,424
ACRE-FEET DIVERTED PER ACRE	3.39
NUMBER OF STRUCTURES OBSERVED	316
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	4
ACTIVE DIVERSIONS-DAILY	69
-INFREQUENT STRUCTURES	179
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	14
-NOT USED (A,C,D, CODES)	48
-NO INFORMATION AVAILABLE (F CODE)	2
NUMBER OF DITCHES, SURFACE RIGHTS	417
NUMBER OF RESERVOIRS	27
NUMBER OF WELLS	35
NUMBER OF OBSERVATIONS	2,279



**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 46**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	2,853
STORAGE	0
STOCKWATER	22
MUNICIPAL	0
DOMESTIC	0
INDUSTRIAL	0
RECREATION	0
FISH	0
OTHER:	0
INTERSTATE	1,944
TOTAL DIVERSIONS.....	4,819
DELIVERIES FROM STORAGE	
IRRIGATION	0
DOMESTIC	0
MUNICIPAL	0
STOCK	0
OTHER:FISH	0
TOTAL DIVERSIONS.....	0
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	2,853
ACRES IRRIGATED	736
ACRE-FEET DIVERTED PER ACRE	3.88
NUMBER OF STRUCTURES OBSERVED	79
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	39
-INFREQUENT STRUCTURES	19
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	7
-NOT USED (A,C,D, CODES)	14
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	60
NUMBER OF RESERVOIRS	9
NUMBER OF WELLS	0
NUMBER OF OBSERVATIONS	959

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 69**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	2,322
STORAGE	292
STOCKWATER	2
MUNICIPAL	0
DOMESTIC	0
INDUSTRIAL	0
RECREATION	0
FISH	0
OTHER:	0
TOTAL DIVERSIONS.....	2,616
DELIVERIES FROM STORAGE	
IRRIGATION	253
DOMESTIC	0
MUNICIPAL	0
STOCK	1
OTHER:	0
TOTAL DIVERSIONS.....	254
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	2,575
ACRES IRRIGATED	1,350
ACRE-FEET DIVERTED PER ACRE	1.91
NUMBER OF STRUCTURES OBSERVED	48
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	1
ACTIVE DIVERSIONS-DAILY	21
-INFREQUENT STRUCTURES	17
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	0
-NOT USED (A,C,D, CODES)	9
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	33
NUMBER OF RESERVOIRS	7
NUMBER OF WELLS	1
NUMBER OF OBSERVATIONS	223

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 71**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	14,919
STORAGE	139,917
STOCKWATER	476
MUNICIPAL	382
DOMESTIC	12
INDUSTRIAL	0
RECREATION	3
FISH	6,782
POWER (Multiple Sources)	22,948
OTHER: COMMERCIAL	1
TRANSMOUNTAIN-TRANSBASIN	117,453
TOTAL DIVERSIONS.....	302,893
<b>DELIVERIES FROM STORAGE</b>	
IRRIGATION	11
DOMESTIC	0
MUNICIPAL	0
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	117,510
POWER (See Direct Diversions)	0
OTHER: AUGMENTATION, EVAPORATION	114
TOTAL DIVERSIONS.....	117,635
<b>DELIVERIES FROM TRANSBASIN</b>	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
<b>DUTY OF WATER:</b>	
TOTAL TO IRRIGATION	14,930
ACRES IRRIGATED	1,963
ACRE-FEET DIVERTED PER ACRE	7.61
<b>NUMBER OF STRUCTURES OBSERVED</b>	232
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	2
ACTIVE DIVERSIONS-DAILY	67
-INFREQUENT STRUCTURES	82
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	2
-NOT USED (A,C,D, CODES)	78
-NO INFORMATION AVAILABLE (F CODE)	1
NUMBER OF DITCHES, SURFACE RIGHTS	161
NUMBER OF RESERVOIRS	19
NUMBER OF WELLS	47
NUMBER OF OBSERVATIONS	4,054

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 77**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	11,284
STORAGE	219
STOCKWATER	1
MUNICIPAL	0
DOMESTIC	45
INDUSTRIAL	0
RECREATION	0
FISH	361
OTHER:COMMERCIAL	0
INTERSTATE	57,639
TOTAL DIVERSIONS.....	69,549
DELIVERIES FROM STORAGE	
IRRIGATION	191
DOMESTIC	0
STOCK	0
INDUSTRIAL	0
RECREATION	0
OTHER:FISH	0
TOTAL DIVERSIONS.....	191
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	11,475
ACRES IRRIGATED	2,160
ACRE-FEET DIVERTED PER ACRE	5.31
NUMBER OF STRUCTURES OBSERVED	152
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	78
-INFREQUENT STRUCTURES	27
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	0
-NOT USED (A,C,D, CODES)	47
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	119
NUMBER OF RESERVOIRS	22
NUMBER OF WELLS	29
NUMBER OF OBSERVATIONS	1,649

**2001 IRRIGATION YEAR SUMMARY  
DISTRICT 78**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	23,071
STORAGE	989
STOCKWATER	687
MUNICIPAL	1
DOMESTIC	39
INDUSTRIAL	0
RECREATION	0
FISH	984
OTHER:COMMERCIAL	42
TRANSMOUNTAIN-TRANSBASIN	387
TOTAL DIVERSIONS.....	26,200
DELIVERIES FROM STORAGE	
IRRIGATION	614
DOMESTIC	0
MUNICIPAL	1,355
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER:COMMERCIAL	0
TOTAL DIVERSIONS.....	1,969
DELIVERIES FROM TRANSBASIN	
IRRIGATION	209
STORAGE	1,178
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	1,387
DUTY OF WATER:	
TOTAL TO IRRIGATION	23,894
ACRES IRRIGATED	5,797
ACRE-FEET DIVERTED PER ACRE	4.12
NUMBER OF STRUCTURES OBSERVED	258
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	1
ACTIVE DIVERSIONS-DAILY	91
-INFREQUENT STRUCTURES	85
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	4
-NOT USED (A,C,D, CODES)	76
-NO INFORMATION AVAILABLE (F CODE)	1
NUMBER OF DITCHES, SURFACE RIGHTS	175
NUMBER OF RESERVOIRS	65
NUMBER OF WELLS	28
NUMBER OF OBSERVATIONS	1,656