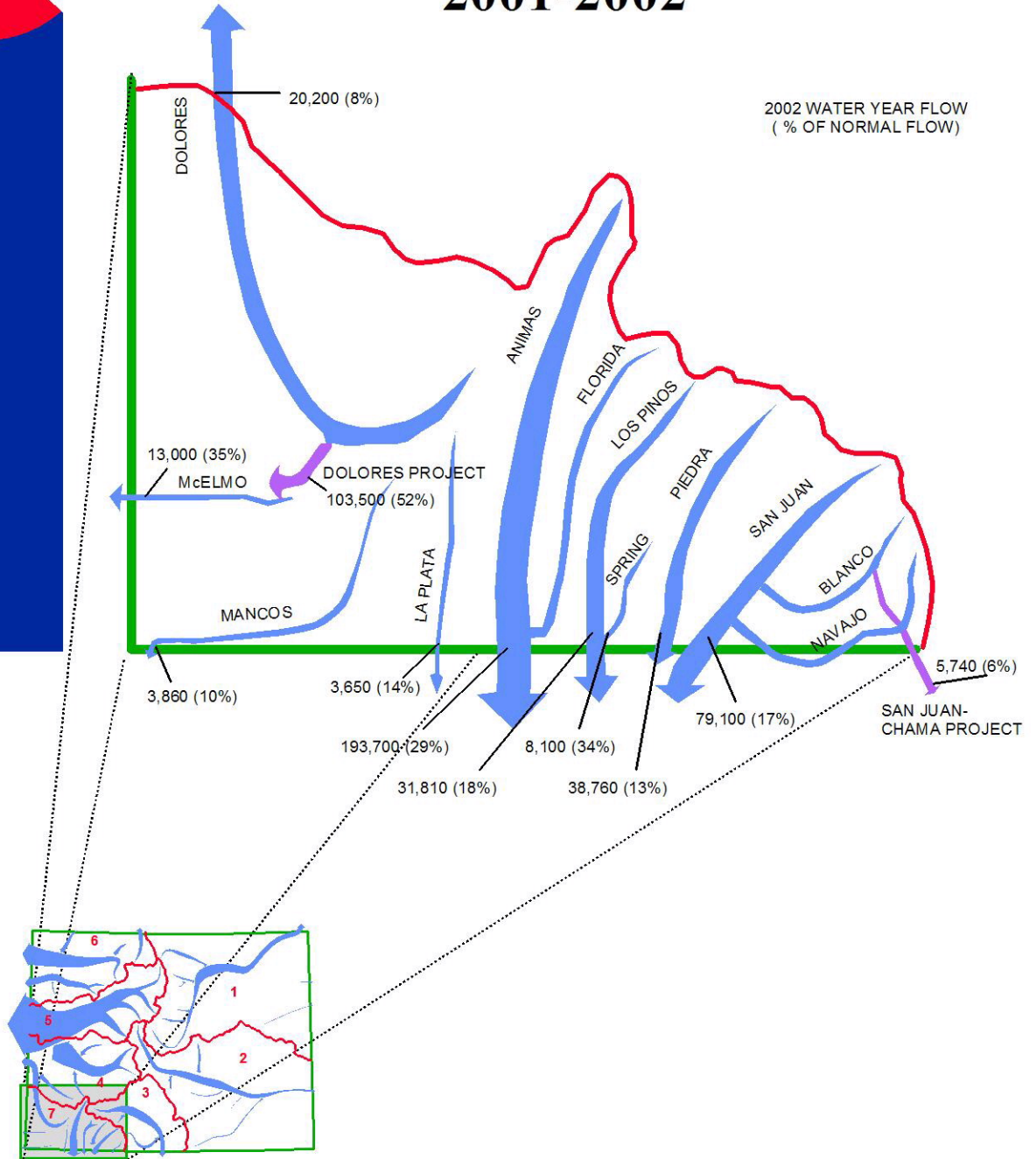


# DIVISION OF WATER RESOURCES

## DIVISION VII ANNUAL REPORT

### 2001-2002



Ken Beegles  
Division Engineer

# DIVISION 7 STAFF

Christmas 2001



Back Row: Jeff Titus, Val Valentine, Bob Formwalt, John Taylor (Retired), Marty Robbins, Bob Becker  
Middle Row: Scott Brinton, Mathew Schmitt, Wally Patcheck, Brett Nordby, Hal Pierce, Glen Humiston, Bruce Whitehead, Lawrence Shock (Retired)  
Front Row: Ken Beegles, Harold Baxstrom, Shari Titus, Robert Daniels  
Not Pictured: Sherry Schutz, Dave Nelson



Dave Nelson  
March 26, 1954 – January 30, 2002

## Glen Humiston Retirement January 2002

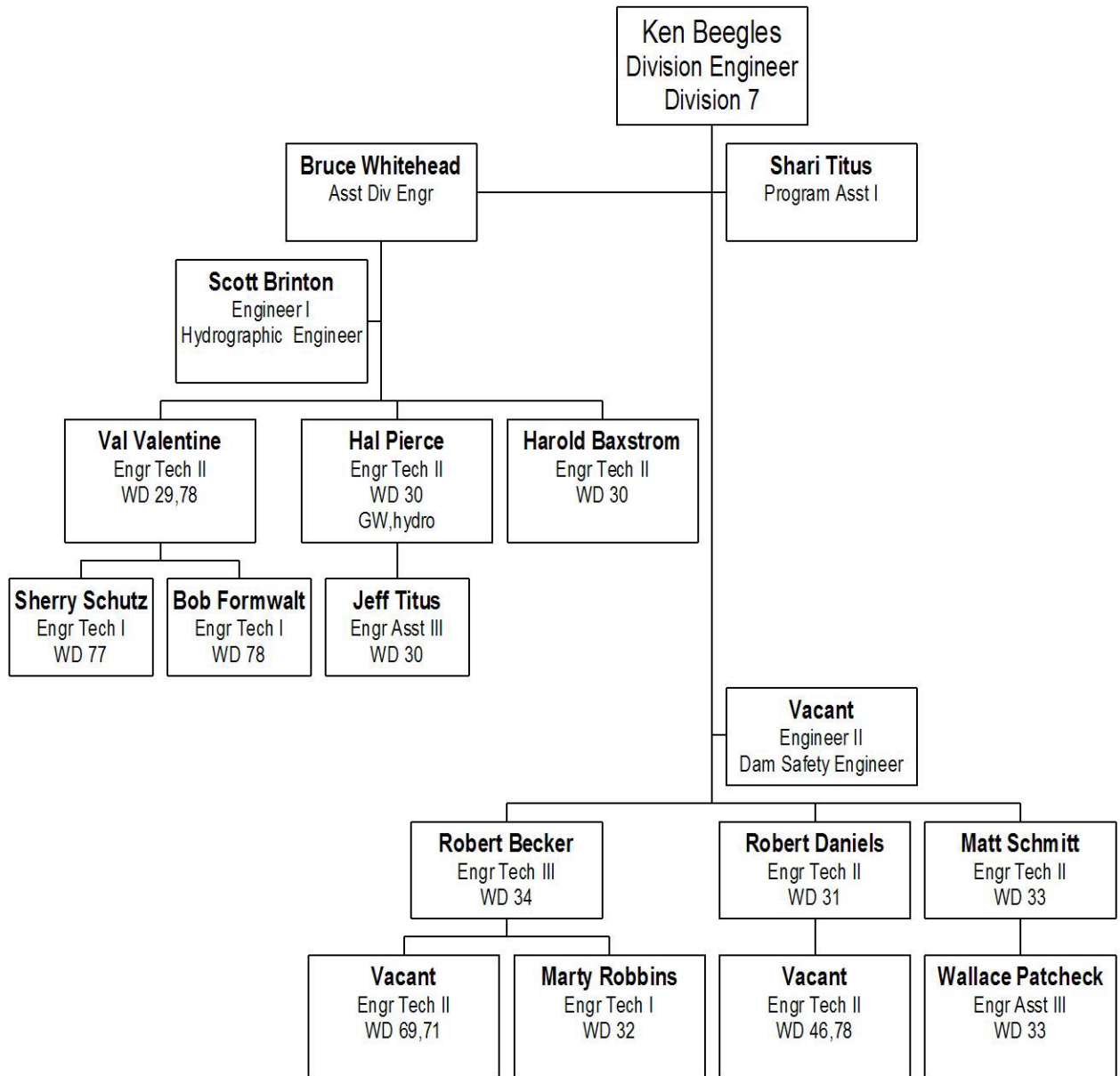
Division Engineers Past And Present  
Ken Beegles Div 7, Glen Humiston Div 13, Tom Kelly Div 4, Orlyn Bell Div 5



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**Division 7**  
**Organizational Chart**  
**January 2003**



## A. Current Year

**W**hile it was a year to remember, there were few people who wished to see a repeat of the 2002 Irrigation Year. The previous year ending October 31, 2001, in southwestern Colorado ended with a series of very dry months. There were optimistic signs for users after early snow at Thanksgiving 2001 and during the following month. However, with the beginning of 2002, the area began an eight-month dry spell, which really was not broken until the second week of September. Most stream flow peaks occurred on September 11, 2002. The spring runoff barely materialized at all. January precipitation in Durango broke a record low with only .06 inches. February was the fifth worst year and May had no recordable precipitation. The snowpack fell off drastically from about 80% of normal to 33% on April 1 and by early May all stations were essentially melted out. There remained some protected areas from the daily breezes and north facing slopes, which ran off by May 8 on many drainages. The gage at Hesperus on the La Plata peaked at 43 cfs and the high day from the Dolores River at Dolores was reported at 366 cfs. The Animas and higher drainages peaked on May 21. In Durango on that date, the flow was 781 cfs. After these spring highs, flows declined steadily until September. The flow quantities during May ranged from about 12% to 25% of normal. In June those flows fell off to 5% - 12% of normal. The inflow to Navajo Reservoir was rated at 6% of normal. Daily reservoir storage levels were the lowest of record for most of the summer at Lemon Reservoir, Jackson Gulch and McPhee Reservoirs. Many ponds or reservoirs that have always remained full ceased spilling and dried up. Lemon Reservoir was shut down at the end of June for irrigation purposes with only 10% of capacity remaining.

Moisture content in the trees was dropping seriously during May. A series of forest fires was the natural progression beginning with one near Ute Pass just outside of Durango, which was sparked from an electric saw.

Fires developed on the La Plata drainage, near Mesa Verde and in Falls Creek area. The largest one, Missionary Ridge fire, burned uncontrolled from June 9 through July 9 and covered over 75,000 acres.

## **Administration of Water**

In Montezuma County the Dolores Project users were restricted to a 15% supply. Fish flows releases below McPhee reservoir were also reduced because of supply. The pool was managed to last the entire season, but the reductions may have had a serious impact on the trout fishery. Montezuma Valley Irrigation was slightly better off with around a 50% supply, but had to operate on an intermittent basis. As a result, the McElmo Creek went on call early and stayed that way until the end of the year. Much effort was required to regulate the junior water rights and the ditches since the return flow amounts changed frequently. Neither the DWCD nor MVI placed a call on the Dolores River but both seriously considered that action. The Town of Rico was able to come to terms with a temporary replacement plan and this allowed continued use despite the shortages on the river. Groundhog Reservoir water supplemented the upper stream flow in the middle of the summer above Dolores.

Across both the San Juan and Dolores Basin water supplies were managed carefully as the supply diminished. The Mancos River ran early but did not raise much above typical base flows, Jackson Gulch was rationed strictly. Most users received stock water after the short spring run. Senior water right holders had one early irrigation run. The storage water was restricted to the municipal and domestic users by the middle of the summer.

The La Plata River dropped to record low levels, less than 3.9cfs in early April at Hesperus. The snow pack ran off fairly consistently and lasted three to four weeks longer than was originally anticipated. Farmers had lost much of the winter wheat and were unable to irrigate many areas on Fort Lewis Mesa. Stock water usage was essentially all that was available. No water was available to the Lake Durango Area from the Pine Ridge Ditch at any time. After the La Plata Compact was determined to be futile only two ditches operated until the September rainstorm. Many ditches did not run this year.

The Animas River did not experience a call. The fires did however create a runoff situation which made diversion difficult without siltation of the ditches in the upper

valley. By August, it was anticipated that the river might drop to a historic level of 94 cfs recorded in 1957. Fortunately, enough thunderstorm activity occurred in that month to keep the level above the 116 cfs flow reached earlier. Junction Creek went on call early. No water had flowed in the creek through Durango since late spring 2001. A test was made on the stream which proved futile in April. Thereafter low flows (1-2cfs) were split down Sites Ditch and return flow levels finally caused a rise at Animas City Ditch. The Animas City Ditch ran for a period of time until the runoff had diminished to what was believed to be historic lows. A call was placed on Lightner Creek, but was determined to be futile. Elbert Creek was administered carefully until the inflow to Cascade Reservoir (Electra Lake) dropped to under 0.30 cfs. The Division Engineer then determined that flow to be futile under natural conditions. Reservoir deliveries were continued to Tamarron, but they finally had to contract out for a significantly larger purchase of water from Xcel Energy, i.e. Cascade Reservoir.

Lake Durango Water Company instituted use restrictions and new pricing structures as the State Public Utilities Commission allowed them. Also, a recapture pump was established to reuse reservoir leakage as a conservation measure. It left about 200 acre feet of water available for carryover into 2003.

After the early reservoir releases to the ditches, the Florida River was under severe curtailment for irrigation use. In one case, Mountain Valley Ranch subdivision, did not secure enough early water to operate their Augmentation Plan. After an engineering report was submitted, orders were written to curtail use to in-house use only. These orders were rescinded later in the summer during an excess stream flow that was realized during the fire. Water was delivered only to the Florida River valley ditches. After the fire on Missionary Ridge, rainfall caused massive flows of mud into the streams. Most of the ditches did not desire to divert, or diversions were impeded by debris. The City of Durango took steps to filter out this material. However they generally resorted to increased pumping out of the Animas River. Although the stream flow levels dropped to the point where only the priority F-3 water would have been available, the amount of unused water added to that setting of priorities and yielded a minimum curtailment level

of F-15. At several points during the summer, junior priorities would have been allowed to divert, but most were off voluntarily. Daily administration of the priorities, independent of the normal spreadsheet calculations, was required. Although the reservoir might have used all of its supply, the rains in September allowed for storage. Some of this was carried over into the next year.

The Pine River had a similar experience with the Missionary Ridge Fire. Since there were only a few drainages burned below Vallecito Dam, most of the debris flows were into Vallecito Reservoir. Reservoir usage accounts were carefully monitored and ditches had some choice as to the delivery schedule. Most of the ditches ran out of water early in August and the release was reduced. Officials from the Pine River Irrigation District, the Southern Ute Indian Tribe and the Colorado Division of Water Resources, met for planning purposes periodically during the runoff. All ditches below the reservoir received some water during the year. The transmountain diversions into the Rio Grande basin did not come into priority during the irrigation season and did not divert.

District 46, Siembritas Arroyo, relies heavily on source water from the Pine River. Local runoff was nonexistent except for brief rainy periods. No call was received there however.

The Piedra River dropped to well below the quantities needed to serve the priorities. No call was received, however, except in the upper basin where brief shortages required review of special conditions in the decrees on the East Fork and on Weminuche Creek. Diversions were held to priorities after the calls were made. On Stollsteimer Creek the first call in water official memory or according to the file, was honored. Dyke No. 1 Ditch diverted water for irrigation as flows declined. Enforcement actions were required in some areas. Beaver dams caused some of the obstructions in moving water in this area as well as others in the division.

The San Juan River dropped naturally to extremely low levels. Approximately 3-8 cfs was left running in the river at Pagosa Springs. Municipal water in town and out at the



Fairfield development was supplemented by the new pump station installed on the San Juan River Intake. Storage reservoirs within the development were used extensively. This additional supply enabled the development to continue service to their customers, but carryover storage was significantly reduced by the end of the year. Turkey Creek was curtailed, and Echo Canyon Ditch was carefully administered according to the Chambers Ditch decision from 1950.

The Navajo River Drainage experienced major shortages. The San Juan Chama Diversion took only a fraction of their average; that is 5,500 of 92,000 acre feet, and depleted many storage supplies in the Rio Grande Drainage. Endangered species issues and drought forced the San Juan Project reservoirs to drain. Shortages of stream flow caused shortened seasons for grazing and yielded poor growth in grass meadows. However most streams (except Spring Creek) were administered only in the terms of adjustments for beneficial use or brief disputes without a formal call.

### **Division Seven Staff Summaries**

#### Hydrographic Report / Scott Brinton

Streamflow was well below normal for the year. Streamflow records for the 2001 Water Year were completed and delivered to the chief hydrographer for publication. The Colorado office of the USGS published two records and the New Mexico office of the USGS published four. Twenty-three records were published in the Colorado Division of Water Resources yearly publication.

The Division 7 hydrographer made 184 river measurements and 33 ditch measurements this year. Other engineers in the Division 7 office made 4 ditch measurements and 3 river measurements. Water commissioners in Division 7 made 41 river measurements and 1 ditch measurement. A large number of the hydrographer's measurements were made to calibrate 4 ramp flumes constructed on the La Plata River last year. Good low

water definition of the rating curves was obtained but the high end must wait for another year.

Division Seven personnel assisted the Florida River Conservancy District in installation of a ramp flume at the existing State of Colorado gage, Florida River above Lemon Reservoir. It is hoped that this new flume, once calibrated, will provide a much more accurate accounting of the inflows into Lemon Reservoir. Ted Brooks of R & M Construction & Services, LLC of Montrose, Colorado did construction of this flume.

Dam Safety / Brett Nordby

(No report was done for this year due to staffing changes.)

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

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

A two-day storm over January 28 and 29 brought 23-inches to Wolf Creek Ski Area. But SNOTEL data, revealed the truth of the matter; snow/water equivalent (SWE) increased from 9.6 inches to only 10.1. Skiers may have loved it; ranchers turned their heads skyward.

On March 6, 2002, the Wolf Creek Summit SNOTEL Station and Upper San Juan SNOTEL Station were reporting 27 % and 31 %, respectively.

Every aspect of the community was affected and most suffered economic loss due to a severe and long term drought: Wildlife competed with livestock seeking out, more than usual, the few irrigated pastures that could be found. Ranchers were forced to ship cattle early after both livestock and the sun consumed the sparse grass. There was no rafting season. For most of the summer only tee boxes and greens at the local golf course were watered, and handicaps actually went lower as result of the dried-brown fairways. Residents were both conservation-conscious and restricted in the watering of lawns and gardens. There were no sprinklers for children to run through; the San Juan River got so low the water was too warm to enjoy.

Fortunately, this area was spared the major forest fires that occurred in other parts of the water division.

Necessity became the Mother of Invention. Both new and old-time proven methods were employed to deal with low snow pack, extremely low stream flows and the lack of precipitation. Long time ranchers accustomed to periods of shortage understood, others newer to Pagosa Country were educated and learned to adjust to shortage of an economic resource. In all, most accepted the situation and complied with our orders, directives and suggestions.

Stollsteimer Creek went on call for the first time in recent history. The Dyke No. 1 Ditch was only able to garner to  $\frac{1}{4}$  cfs and less as the irrigation season progressed (or regressed) of its No.1 priority right, becoming the only water right in water. More than a fifteen upstream junior appropriators, including ten small capacity pumps were curtailed and several non-exempt wells were brought into compliance.

Pagosa Area Water & Sanitation District, in effort to conserve water and maintain reservoirs levels for an un-seeable future initiated a three-pronged approach to coping with the drought. 1.) For the first time in water-recorded history the Dutton Ditch diverted water all winter. More than 600 acre-feet were delivered to G.S Hatcher Reservoir, more than  $\frac{1}{3}$  of the reservoir's capacity. Still it did not spill. 2.) The San Juan River Intake was initially bought on line delivering 2-million gallons per day to the new San Juan Treatment Plant located near the District's office. Water not diverted directly to the new treatment plant was delivered to storage in Lake Forest. Later that water was pumped to Town Center (Village) Lake for limited golf course irrigation. 3.) PAWSD announced and enforced strict watering restrictions. These began in May with voluntary restrictions and were further tightened and made mandatory on July 1<sup>st</sup> for the entire district.

Town of Pagosa Springs, PAWSD and the School District fast tracked a conditional water right to develop a pump site and began watering the grass at the Town Park with river water, a first. Other pump sites for watering the other town parks and school athletic fields are presently coming on line.

On the Rito Blanco, with additional senior water rights acquired by the 3-R Ranch, Judge Noland's July 17, 1950 ruling was strictly enforced to the point where the creek was "not

allowed to become futile” in two directions, and the last 1/10 cfs was equally spilt between the 3-R Ranch and the Echo Ditch Company, though it dried in the stream and ditch a hundred yards below the administrative (Echo) head gate.

In all, it was a learning experience, and a training period, for that time in the future when this area experiences a drought of perhaps less magnitude but with greater population demand for a limited resource.

District 30, Animas River / Hal Pierce

Drought, Fire and Mudslides! This has been the year that history will look back on. Over all it was not a bad year in the Animas drainage. It did create a few interesting problems on side tributaries. On Junction Creek the Animas City Ditch Priority J-2 attempted to make a call on the Stream on 4/11/2002. We made two or three tests to try and get water down the stream to the ditch to no avail. The stream was finally declared futile on 4/16/2002 to the Sites Ditch Priority J-5.

Elbert Creek and Little Cascade Creek on the upper end were on call by Excel Energy for the full year, 11/01/2001 through 10/31/2002. Elbert Creek on the lower end was placed on call 4/23/2002 by the Conley Ditch E-1 and remained on call till 10/31/2002. The lower end ended up being futile.

Hermosa Creek was placed on call 7/31/2002 by the Hermosa Company Ditch H-4. The call ended on 9/23/2002 due to rain.

Lightner Creek on the upper end was on call from 8/23/02 by the Covert Ditch L-5 the call was removed on 9/24/2002. The lower end was placed on call by the Taggart Ditch on 6/27/2002 and remained on call till 10/31/2002. This call was considered futile for most of that time.

District 30F Florida River / Harold Baxstrom

The 2002 water management year in the Florida River water district started November 1, 2001 with a Lemon Reservoir (capacity 40,000 acre feet) content of 13,428 AF. After gaining 21 AF by Nov 11 when stock run started. 772 AF were released by Nov 21. By May 1 (when irrigation releases started) the level had increased to 16187 AF. A gain of 2759 AF. After a 2864 AF inflow and a 14384 AF release the irrigation season in the major canals ended June 16 with a reservoir content of 4667 AF. River was placed on call May 1, with call levels dropping as low as F-3, but with flash flooding, dirty water from fire damaged areas and return flow from springs the call level fluctuated daily and differently at different parts of the river. Call was lifted September 20 (after 143 day call period) when Harris-Patterson stopped using water.

Major canals started irrigation flows on May 1 with Florida River flows at a “call” level. Missionary Ridge Forest Fire started: – 6/10

Evaporation offset releases were made from 9 ponds but 2 were allowed to refill for fire fighting use.

Canals shut off 6/17.

Lost 40 CFS at bypass for one day (decreasing for 3 days) due to canals being shut off before river drained.

Lemon release set at 20 cfs 6/19 (6 cfs over inflow to fill fire ponds). Decrease to 6 cfs (inflow) July 1.

Stock run 7/8 to 7/17 (45 cfs) Inflows averaging 6 cfs.

July 23 Rain at Sherer Creek and Aspen Trails – Flooding and debris slides 7/24. Bridge below Lemon cleared of debris blockage 7/25.

Structure orders were sent, or delivered, to 9 owners to repair well meters. All have responded and 8 have now complied.

Stock run 10/25 to 11/2 (2 days into 2003 water year)

Muddy water and low flows prevented several senior users from taking water to which they were entitled.

Water commissioner schedules were severely impacted by road closures due to construction and fire fighting restrictions.

District 31, Pine River / Robert Daniels

The 2002 irrigation year was marked by drought, flood and fire. Vallecito reservoir filled to elevation 7639.87 with total storage of 64,819 acre-feet, approximately 50% of total storage capacity. The Pine River irrigation District assigned this storage water to 46,184 acres after decreasing the amount by the one-sixth owned by the Southern Ute Indian Tribe and 2000 acre feet set aside for exchange purpose.

The Pine River Canal and Spring Creek Ditch shut down on June 29, 2002 after consuming all of their storage water. A decision was made by the Bureau of Indian Affairs and the Southern Ute Indian Tribe to also discontinue diverting 50 cfs of P-1 water at the same heading. This decision had the affect of bringing other senior priorities into priority. The Southern Ute Indian Tribe continued to divert into their other ditches. The tribe applied for and received a temporary exchange to divert 8 cfs of P-1 water at the Nannice heading. Historically water diverted at this point was charged to Indian storage when the system was on call.

On June 17, 2002 the Robert Morrison Ditch shut off having used almost all their allocated storage water. The King Ditch shut down to about 5 cfs on July 2, 2002 with several hundred-acre feet of storage water remaining.

In the afternoon of June 9, 2002, the Missionary Ridge Fire began from a spark that fell into a ditch southeast of the first switchback in Missionary Ridge Road. The fire would burn eastward up Missionary Ridge and then expand north and south. It would cross the Florida River and the Pine River. It would burn in three river valleys, the Animas, Florida and Pine on steep rugged terrain. On Monday June 17 the fire reached Vallecito Reservoir. Flames reached skyward west of Vallecito Dam. The flames were hundreds of feet above the trees. Sheets of flames broke off and appeared to roll like cylinders along the treetops in an effect called a rolling vortex. By June 28, Vallecito reservoir was burning on both the East and West side of the reservoir.

The electricity went off on June 13<sup>th</sup> and was placed back in service on June 25. During this period it was difficult to release water from the reservoir. Passing through roadblocks the employees of the Pine River Irrigation District kept releasing water manually through to irrigators below the dam at high personal risk.

The month of June saw no precipitation at Vallecito Reservoir and the fires continued on. With about 2 inches of rain in July the mudslides began. Whole sections of county road 501 were inundated with mud and rocks. The river turned to chocolate and the cities of Bayfield and the Ute Municipal Plant at Ignacio began having problems providing water to their respective communities.

As the drought continued, in spite of the floods, Ute Creek went on call for the first time in memory. As the main ditches shut down the return flows ceased and the whole agricultural basket on the Pine turned brown resulting in a 60-70% reduction in agricultural production. As the drought deepened the ranchers began to sell off their livestock or move them to locations in other states.

The upper Pine River from highways 160 to the base of the Vallecito Reservoir fared better than the southern reaches because six of the highest priorities on the Pine are in this reach, and they continued to receive some water for irrigation.

The early part of August saw some additional rain, which again caused flooding, a condition that is likely to remain with us for a number of years. An additional reallocation of water in August allowed the system to receive some much-needed water. It was released to the system between August 26<sup>th</sup> and August 30<sup>th</sup>. The last major release of water took place on October 16<sup>th</sup> through October 19<sup>th</sup>, allowing the farmers to fill their ponds and put as much water in the soil profile as they could.

May all the years to come be better than this one.

District 32, McElmo Creek / Marty Robbins

Last irrigation year was 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 cooperation, which will help them to be more responsible for their actions. Our biggest event that occurred was the move of the Cortez field office to the old fire station in Mancos.

District 33, La Plata River / Matthew Schmitt

The driest year on record started with very little snow in the mountains. We received very little in the way of spring storms.

Most of the pasture grass on the Mesa simply stayed dormant and didn't 'green up' at all.

The river was "on call" all year and "futile call" most of the year. Deliveries were made to New Mexico from April 4<sup>th</sup> to June 1<sup>st</sup> 2002. For the most part, the river was dry below the Hay Gulch Ditch to Long Hollow. The total flows of Long Hollow, from May 15<sup>th</sup> to the end of the year, were applied to compact deliveries. The lowest flow at Hesperus was 2.7 cfs on July 30<sup>th</sup>.

The Red Mesa Reservoir had less than 35% water service. Over half of the total storage was used to keep hay alive and not to raise a crop.

Priorities #1,2,5,8,9,and10 received some water. In addition, 4 ditches received some water under the "futile call".



To my knowledge, only 5 farmers produced some sort of a crop this year. 80% of the cattle in the area were sold.

High water in the La Plata River was due to a rain event in the mountains on Sept. 10<sup>th</sup> and 11<sup>th</sup>. The peak flow was 85 cfs at Hesperus. An attempt was made to run water to New Mexico.

The Marvel Spring was heavily impacted this year due to dry wells and no stock water. A new system and tank went into service Sept. 25<sup>th</sup>.

Pond issues were addressed this year with a mailing, several meetings, and plans to bring administratable ponds into compliance. This project will be ongoing for at least 2 years.

We have experienced several big fires on the Mesa, no water, civil disobedience to which the sheriff was called out, irate pond owners, dog bites, and a good friend and colleague died in a car accident. All in all it has been a very poor year!

#### District 34, Mancos River / Robert Becker

Jackson Gulch Reservoir only had 2386 acre feet (23.7%) in storage on April 1 and the directors set allotments at 18% of normal. This would allow a reserve pool for municipal and stock water use later in the season, if drought conditions continued. Although fields were bone dry all the valley water users agreed not to place a call during the month of April. The reservoir continued diverting flows to storage resulting in an additional 1157 acre feet of storage.

On May 1<sup>st</sup> a call was placed by M-2 users in the Ratliff and Root Ditch and the river was adjusted with priority M-7 running. The river remained on call until September 11<sup>th</sup> (134 days) with 50% of M-2 available on June 21<sup>st</sup>. During this time frame there were small

flows available and everyone agreed not to place a call and would allow the water commissioner to evenly distribute available water for stock use.

The three municipal suppliers were asking to curtail their use to 70% of the previous years use and all outside watering was curtailed. Their users responded by conserving inside uses and exceeded set goals by 10-40%.

The cooperation exhibited between agricultural and municipal users personified the “Golden Rule” to the highest. This example of neighbors helping each other through the worst drought in recorded history was truly uplifting. Even the worst “water hogs” were concerned that water was available to supply stock water to their neighbors. Many others did not call for their reservoir storage water as they felt it would be more beneficial to others during these adverse conditions.

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

Due to budget limitations the water commissioner position was left vacant, resulting in fewer observations than normal.

The Dolores Water Conservancy District set project allocations at 18% and formed a “drought committee” to address problems associated with minimal water supplies.

Summit Reservoir only filled to 16% of capacity and the directors decided to cancel irrigation releases and only made one stock release from May 15<sup>th</sup> through the 19<sup>th</sup>.

Although calls were contemplated by the Dolores Water Conservancy District and MVIC, none were actually invoked. With augmentation releases supplementing natural flows the Dolores River irrigators actually survived the worst drought in recorded history, better than anticipated.

Disappointment Creek also went without experiencing any calls. The irrigators also opted to share the minimal flows in hopes the summer rains would provide some relief. That didn't occur until the last of August and then for only 10-14 days.

The stockman that hadn't sold or shipped cattle to pasture in the Midwest had to haul stock water all summer. Everyone is praying for conditions to improve for the up coming season.

District 77, Navajo River & Little Navajo River &  
District 29, McCabe Creek & Mill Creek / Sherry Schutz

District 77 proved this summer to have many more new water users needing on going water education.

A call was put on Spring Gulch Creek again May 7, 2002 and ran through August 15, 2002.

The Navajo River got lower than ever before. There were multiple meetings that I attended to explain and talk about water issues, priorities and just for educating the people on water.

The San Juan Chama Project diverted:

3967 A. F. from Blanco River

36 A. F. from Little Navajo River

1740 A. F. from Big Navajo River

With a total diverted of 5,743 A. F. this year versus 105,350 A. F. diverted in 2001.

Alpine Lakes Ranch Subdivision was still real short of water due to the fact that someone left the Harris Reservoir valve open again during winter and drained the Reservoir. Spence Reservoir is still restricted for no storage until the outlet pipe is repaired. Their engineer has submitted plans, but has not gotten the approval from the State Engineers Office.

Most ranches in the area shipped cattle in July because of lack of irrigation or stock water.

District 78, Upper Piedra & District 29, Upper San Juan / Bob Formwalt

Wow! What a year for a rookie water commissioner.

Winter of 2001-2002 produced no run off to fill ponds or small lakes and reservoirs. Consequently, ranchers in Districts 29 & 78 cut back 30% or more on their livestock numbers for the summer. Hay sold as high as \$8.00 per 50lb bale for horse feed. Cattle were shipped early.

Stream flows were so light that many small streams, which normally run through the summer, did not flow at all or ceased to flow by the middle of June.

Water disputes between water users on the Piedra's East Fork and Weminuche Creek brought back memories of tales told by Old Timers. One dispute in particular set out in

clarity the differences people have in their minds about water ownership versus water rights ownership. One Hinsdale County prominent landowner believed he actually owned the water and therefore could do as he please with it without regards to any down stream junior rights holder. I do believe this prominent water rights holder now understands the State of Colorado is the owner of water and he is only a holder of a right-to-use as long as he uses according to his decree.

After June ended, water issues settled down to routine date collection and administration.

Municipal and larger central water systems managers worried about water shortages but actually did not run out of water due to the drought but from the lack of planning for additional storage and transmission.

Several acts of vandalism occurred against agricultural water users by criminal types but no arrests were made.

Many wells went dry and many owners were led to believe they could solve their problem with a new or deeper well. Most discovered the truth of living close to headwaters and the fact there is very little underground water close to the mountains even though there is surface water. Well drillers were booked two to five months out getting to request for wells.

The 2002 water year ended with a good storm in September but I fear that year 2003 may be worse then the record breaking dry 2002.

### **Activities & Key Achievements of the Division Seven Office**

Following are descriptions of specific areas where the office staff spent extra time or achieved specific results during the past year. Many individual accomplishments were made which are not enumerated. The results of the listed projects also omit the full

details of the difficulties of the accomplishment. However, we provide a brief summary here.

La Plata Compact:

The call went on beginning February 23, 2002. At first ice-affected days reported much more water was available at Hesperus. The Compact was made with some difficulty through May. The users agreed that over deliveries should be minimized to every extent possible. Cherry Creek ran only for a short period of time and it appeared that the La Plata River would lose flow at the end of April. However, cooler weather and sustained flows at Hesperus allowed the stream to continue running until the end of May when the connection was broken. After June 1, and continuing until the end of the year, no water from the upper reach flowed through the dry section. Lower ditches were curtailed and water at Long Hollow was run to New Mexico. The base flow reduced and there were significant losses to the state line. However, the delivery amount was greater than zero throughout the year, unlike previous years when flows were reduced to zero. In September water was run down the river at Hesperus in attempt to meet the Compact obligation. Rain caused runoff helped the river reach a 98 cfs flow rate. About 200 acre feet was run, as water flowed through to the CR 122 Bridge, but it did not reach the mouth at Hay Gulch. After it became apparent that no water would reach the stateline, it was picked up in the ditches again. Many complaints were received from users and the New Mexico Interstate Stream Commission wrote several objections.

This year, records were finally compiled on ponds on the Fort Lewis Mesa and in Water District 33. About fifty letters were written to owners requesting explanation for their ponds being in a river channel or otherwise filling them with undecreed water. This created much consternation and resistance. However, many of the ponds were addressed. We will need to take follow-up action in order to prevent injury to the stream in several cases. Especially of concern are the ponds on live tributaries of the Long Hollow drainage that capture return flows needed for Compact delivery.

### Forest Service Negotiations:

The discussions with the US Forest Service continued yet another year. Agreements as to the claim point locations were established provisionally on 790 of the 900 stream segments. However, much remained to be accomplished in negotiating approaching upstream areas on the Piedra River and Animas River as well as a downstream section of the Dolores River. Division Two negotiations had broken down, so this was the only remaining Division still actively pursuing a settlement.

### Navajo Reservoir Operations:

While all the reservoirs in Division Seven were restricting flows or shutting down, the Navajo Reservoir operations continued to attempt to meet the endangered species targets established for the Recovery Implementation Program. During the summer 830 cfs was released to achieve 500 cfs delivery to the Shiprock gage. At this time the inflow to the reservoir had dropped to about 20 cfs from the Piedra / San Juan tributaries. The reservoir was made almost inaccessible for use by boaters in Colorado as levels reached 42 feet below maximum. Throughout the summer, reports of flow at the Four Corners gage were made that implied the drought was not apparent. This flow was higher than all the stream flows in Southwest Colorado combined at times. Issues arose as to what impact this release would have on future storage use. Losses due to unregulated diversions below the reservoir need to be addressed in New Mexico to avoid future waste of supplies.

### Abandonment List:

The 2000 Abandonment List was filed with the court at the end of 2001. There were 17 protests filed out of 297 water rights on the revised list. With excellent help from the Attorney General's office many of these were resolved before the end of the year with stipulated decrees. These decrees required further actions by deadlines agreed to by all parties. Failure to act pursuant to the stipulations leads to abandonment with no further

proceeding required. It has allowed us to impose deadlines for use of dormant water rights and led to much improved awareness of the water user public.

#### Data Bank Improvements:

With implementation of Hydrobase this year, commissioners first used the centralized procedure. It appeared that the new system was well received and served to facilitate entry of records with little drawback. A key to success was the flexibility in the system to adapt to existing spreadsheet administration on the streams.

Continued improvements were made to the Division Seven GIS capabilities through the acquisition and inclusion of county databases around Division Seven. Well locations have been mapped to corrected coverage for use by officials to research locations. Parcel ownership information provides user contact information when needed.

GPS data collection was limited. However a new plan for integration of the data was developed and plans made for a data collection program as required by the Long Range Plan. After the person organizing this project left, there was little continued direction. However, the spatial database integration of the wells has provided a welcomed improvement in office functionality.

#### La Plata Gaging Stations:

This was the first year of use for the new La Plata River gages, which were established in 2001 to assist in administration of the river. Accessible by phone line only, these gages served as a check for deliveries of compact water downstream.

#### Carr Ditch Case Reopened:

In November 2001, the Southern Ute Indian Tribe moved to reopen a general adjudication on the San Juan River in order to comply with the terms of the Tribal



Settlement agreement. This was the 308 case from 1962. The Tribe proposed to abandon a portion of the State adjudication and confirm the amount of reserved rights granted in W-1603. The current owners of the ditch rights however objected to this motion and threatened legal action or at least a major delay because of the conflict. State adjudicated water rights had been granted in excessive amounts on this ditch. However, some of that water had historically been applied to tribal lands by one of the owners who had leased those lands for farming. Through a series of meetings we were able to ascertain the current off-reservation use and come to agreement as to the amount of water rights needed. The remaining amount was abandoned and the motion was approved. This was one of the last pending actions from the Tribal reserved rights case other than the development of the ALP.

## **Office Report**

### Personnel Changes:

After January 2002, the office was short two of its highest qualified technicians. Glen Humiston retired in December after 32 years of state service and David Nelson was killed January 30 in a car accident.

Losing Dave had major impacts on our office service levels. It was difficult to continue the level of hydrographic measuring, the frequency of diversion monitoring and the general public contact that we had counted on in the past.

The replacement of these positions was hampered by the budget cutbacks and a hiring freeze. Being a high priority, the positions were filled by Hal Pierce on the Animas River and Bob Becker on the Mancos River. A new deputy appointment was made on the Animas River. Jeff Titus qualified and was permanently appointed to the job he held as a temporary the year earlier.

The changes in full time appointments left vacancies in previous positions. Bob Daniels was appointed into the full time Pine River Commissioner. A deputy was appointed temporarily on the Pine Siembritas Arroyo. No relief was available on the Dolores River, so Districts 69 & 71 were only monitored based on a little spare time afforded from surrounding areas. In Water District 69, ditch use was checked only a few times.

The drought did not alleviate workloads in all districts. In some areas job requirements reduced, such as the La Plata River. While areas like McElmo Creek and Stollsteimer Creek required much more effort from the initial administration demand. Wally Patcheck was spared some of his duties on the La Plata River to help in District 32. Pumps were regulated and / or removed. An operational plan was required on a large pond north of Cortez. Daily changes in return flows required constant attention to the status of the ditches. An attorney's opinion was sought for a complaint on the Hamblton Ditch regarding changing a place of use for a new grape field under the ditch.

The Division Seven Dam Inspector left early in October to take another job. Insecurities with the other positions and the budget situation left the office somewhat discouraged and overextended in many area. However, the majority of the majority of the work requirements were accomplished with quality results.

Budget:

The operating budget was used and operations continued. Reductions in travel were made but gains were made by holdover vehicle utilization. Upgrades were made on most computer stations to Windows 2000 and Office 2000. Some of the regular computer problems seemed to be alleviated by these upgrades. The Division Seven Office assumed the responsibility for maintaining the systems, as there was two capable individuals found in Scott Brinton and Brett Nordby fortunately to act as computer liaisons. Though Scott Brinton had to manage his time carefully and some hydrographic services were lost, he was able to keep the systems running adequately.

In general, the office staff adapted well to the challenges presented and pressures of the extreme drought combined with personnel and budget shortages.

## **B. UPCOMING YEAR**

The main goals for the upcoming season will be filling and training new people into the vacancies. We will be working to completely fill all vacant water commissioner positions and get everyone established in their job.

One retirement is expected and it will be very important to fill that position quickly if the budget allows.

It appears that the water supply will be little better than the previous year. In anticipation of another drought year we will work with all the municipal supplies to conserve the small amount available to them. It is important that problems are headed off before they become major.

Continuation with improvements in the current operations will be made where possible.

The Animas – La Plata Project is moving forward at a rapid pace. We anticipate significant progress in the dam building phase.

The Pine River will be subject to review. A possible instream flow filing will have impacts on the stream. Continued development of a rural water system is anticipated.

The La Plata River studies conducted for the La Plata Water Conservancy District will hopefully lead to real project development on new reservoirs or other system improvements. We will work closely with the conservancy district and users to plan for these developments.

Interstate Issues:

1. Navajo Reservoir Operating Procedures
2. Gallup-Winslow Pipeline Construction
3. Colorado River / California use issues under the Colorado River Compact
4. Federal preemption in project reservoirs to take water for endangered species issues.
5. Definition and application of “Waters of the US” to in-state development.
6. Water quality designations on various streams especially the Dolores River and McPhee Reservoir.
7. La Plata River Compact / New Governor and State Engineer in New Mexico

Intrastate Issues:

1. Water Banking proposals
2. Means of Obtaining a Substitute Supply Plan
3. Instream Flow Calls
4. Special Use Permit processing on US Forest Lands
5. Possible instream recreational flows
6. Speculation on water rights
7. Unauthorized pond construction and storage
8. Futile Call issues
9. Groundwater Recharge modeling evaluation
10. Challenges to Diligence proceedings

The above issues are not detailed at this time but each is some way will have impacts on future water administration in Water Division Seven.

Community Involvement:

Office Staff remained committed to participation in community activities to promote the understanding of water issues. Key groups that we participated in meetings or projects with included the following:

Southwestern Water Conservation District  
San Juan Conservancy District  
Rio Blanco River Restoration Group  
Pine River Irrigation District  
Southern Ute Indian Tribe  
Animas – La Plata Water Conservancy District  
Florida Water Conservancy District  
Durango City Water Board  
Water Information Program  
Children’s Water Festival – Montezuma County  
La Plata Water Conservancy District  
Dolores Water Conservancy District  
Mancos Water Conservancy District  
SW Wetlands Initiative Group  
Council for Oil and Gas Drilling Solutions (CoGS)  
San Juan Users Group  
WIP (Water Information Program)

Due to key absences and staffing problems the Division Seven office was unable to support the Children’s Water Festival in La Plata County this year. However, office staff engineers spoke at resource groups and real estate groups at various times. The office attended the celebration marking 100 years with the USBR at Vallecito Dam in June. The press contacted the office often this year as the drought and subsequent fires made

local, state and national news. Articles and stories appeared in regional newspapers as well as AP Wire Services, NPR, Time Magazine and National Native News.

Members of the office were also involved in activities beyond the Division as time allowed. These groups are as follows:

DWR Leadership Team  
Colorado Water Officials Association  
San Juan River Citizens Advisory Group  
Navajo Reservoir Operation Committee  
Animas – La Plata Operations Committee  
State IT Group  
Forest Service Reserved Right Negotiations Team

Reductions in travel and demands on staff time have made it difficult for effective participation in all these groups. However it has been found very beneficial to keep our local contacts and communication lines open for dealing with issues that arise.

### **Issues**

Many issues came up with a new twist this year in that the lack of water made these more important to deal with.

### Domestic Preference

In many areas there was significant pressure to deliver to the “domestic preference” or allow hauling of water to domestic uses. Although this office held firm on administration according to the law, there are a significant number of people who wish to have more capabilities in the government to declare emergencies or allow special conditions for domestic and municipal suppliers.

## Fire Use

Fire use for water has always raised some questions. During the fire, there were significant uses of water for fire fighting. On the Florida River this use was for slurry batch plants set up on streams which were under call. When the fire was over, individuals wished to refill undecreed ponds out of the river supplies. Communications to this office by the fire teams were poor and we did not always receive final reports from the fire users. The Fire Marshal has made recommendations for fire storage in certain areas where the supplies are not decreed for such use and subdivision supplies have not anticipated a large storage holdover. Certainly water administration must accommodate the need for emergency use of water to a reasonable degree. However, when water is so scarce that it cannot be replaced, it does have an impact on the system. We should consider how best to respond to the need for use of water for fire protection.

Beaver ponds are impacting streams in many areas. These are now beginning to impact users and downstream ditches. Ordering the owner to remove the dam alone does not provide a long term solution in most cases.

## Futile Call

The futile call implementation caused much concern this year. In the Junction Creek case, implementing a futile call actually resulted in water being realized in the stream by groundwater returns to the downstream ditch. However, there are other small users, which are constantly demanding a river test and insist on flow down the creek. This is also a major difficulty in La Plata Compact administration. Every circumstance has its own unique factors to consider. Certainly without Electra Lake reservoir storage releases, no water would have made it through the Elbert Creek Drainage this year after that determination was made. Under natural conditions, no water could have reached the senior right, Conley Ditch. But the exact time of this decision is not clear.

### Changes in Rights

The point when a place of use must be filed in water court has become an issue in several areas. This is especially demonstrated in Montezuma Valley where landowners are now selling shares to people outside the original boundaries of the service area. Using water that historically returned to McElmo Creek in another drainage may have a significant impact on those ditches. Issuing shares in outside areas appears to be an expansion against the water right. This will need to be addressed in reference to Thornton and Storage Supply Supreme Court cases for special consideration of the transbasin nature of the water. Other major ditch companies are seeing similar sales and removal of water from historic lands.

### Coal Bed Methane Water

By the end of 2002 there were two pending cases for application of Coal Bed Methane (CBM) Water to beneficial use on the Florida River. Both of these envisioned collection of wastewater from the disposal pipeline. Water Resources' authority over these uses is limited, but there is a concern about the effort by landowners to redirect the discharge as a nontributary source. In water court we are recommending conditions that will require cessation of diversion if there is a call on that drainage. Discharge permits will be the responsibility of the pipeline operator or the users. There was much interest and controversy generated when Huber obtained a discharge permit to the Florida River and the Pioneer Ditch. Subsequently however, these permits were revoked and the gas company looked for alternatives. Nobody has attempted to file for groundwater use at this time on any of the gas well sites. The quantity of water that could be obtained is not large and diminishes as time passes. This issue may become less important in future years as people realize the limited value of the water produced.





April 1, 2002

La Plata Snow Course (left)  
2.04 inches H2O 17% Avg.

Mancos Snotel (below)  
3.40 inches H2O 19% Avg.



Early Irrigation/Late  
Freeze Florida Project  
(left)

## Administration Issues

Mountain Valley Aug Pond May 13 (right)  
Efficient Diversion Florida River (below)

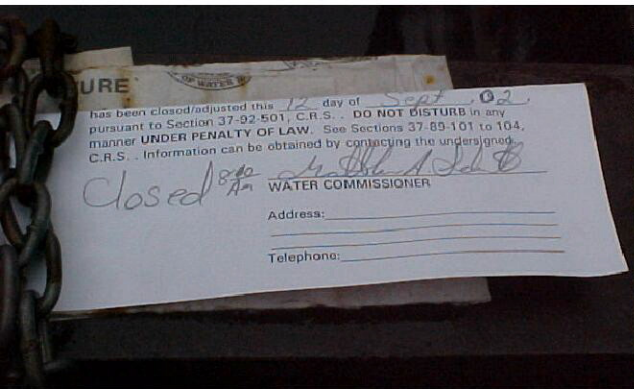




## La Plata Compact

Rain Event September 11<sup>th</sup>  
Hesperus Peak 98 cfs, Avg 57 cfs

Big Stick Ditch Administration



## McElmo Creek Administration

Curtailment Loretta Booth Pumpsite

## Low Flow Construction

Ramp Flume Florida River above Lemon Reservoir (March 22, 2002 Flow 6.3 cfs)



## Low Reservoir Levels



Groundhog Creek trib Dolores River (3,811 af 17 % of capacity)



Vallecito Reservoir July 10<sup>th</sup> (ab right)  
Pine River (18,848 af 15% of capacity)

Groundhog Reservoir September 5<sup>th</sup> (left)



Lemon Reservoir July 24th  
Florida River  
(3,388 af 8.5% capacity)



## Missionary Ridge Fire 2002

70,000 acres burned Animas, Florida, and Pine River Watersheds



Helicopter Dip  
Pond near Florida River





Bennett Myers Headgate  
Pine River July 10th

Vallecito Reservoir July 10th

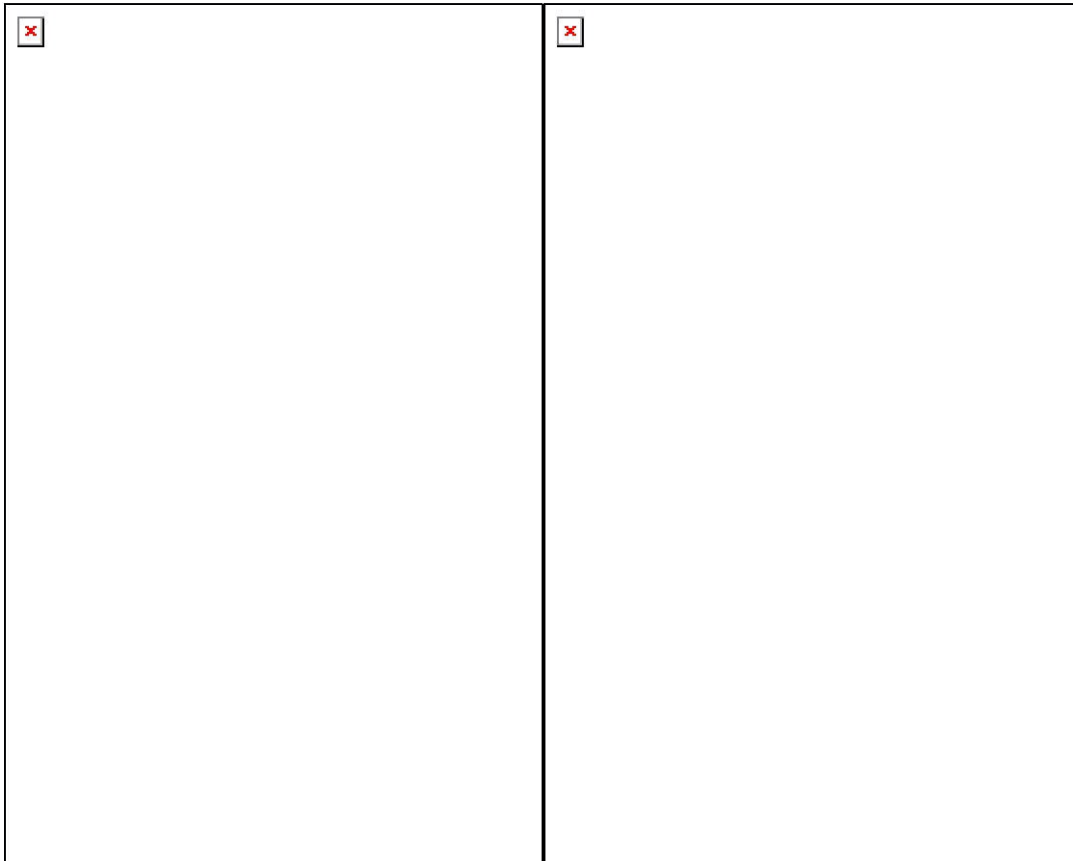
## Fire and Rain





## San Miguel, Dolores, Animas, and San Juan River Basins as of June 1, 2002

Out of the 16 SNOTEL snow measuring sites in these basins, none of them has any measurable snow remaining at them on June 1. By mid-May, the warm temperatures and dry conditions had melted out what was left of the record low snowpack leaving extremely dry slopes nearly two months before the average melt out date. Precipitation during April was only 10% of the average for the month. The water year total is only 45% of average, which is only 46% of the amount of precipitation last year by June 1. Reservoir storage has been diminished much further since last month to only 57% of average volume. There is only 57% of the amount stored that there was last year at this time. Given that most of the snow has melted away long ago, combined with the warm, dry conditions, the streamflow forecasts have been reduced below last month's already dismal forecast. Forecast range from only 9% of average at the Inflow to Navajo Reservoir, to 24% of average on the San Miguel River near Placerville.



**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	124.7	33.9	0	0	20	921	RIO GRANDE RIVER
30	4660	CARBON LAKE DITCH	ANIMAS RIVER	279.7	83.1	20.8	21	68	692	UNCOMPAHGRE RIVER
30	4661	MINERAL POINT DITCH	ANIMAS RIVER	103.0	49.4	3	1	68	609	UNCOMPAHGRE RIVER
30	4662	RED MOUNTAIN DITCH	ANIMAS RIVER	50.1	43.5	34.1	21	68,41	604,549	UNCOMPAHGRE RIVER
31	4638	PINE RIVER-WEMINUCHE PASS D.	PINE RIVER	485.1	68.1	0	0	20	919	RIO GRANDE RIVER
31	4637	WEMINUCHE PASS DITCH	PINE RIVER	758.7	27.6	0	0	20	922	RIO GRANDE RIVER
78	4672	WILLIAMS CREEK-SQUAW PASS D.	PIEDRA RIVER	376.6	82.8	91.1	60	20	923	RIO GRANDE RIVER
78	4670	DON LA FONT #1 (S RIVER PEAK)	PIEDRA RIVER	9.2	8.7	0	0	20	917	RIO GRANDE RIVER
78	4671	DON LA FONT #2 (PIEDRA PASS D.)	PIEDRA RIVER	98.7	34.4	0.0	0	20	918	RIO GRANDE RIVER



### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
29	3507	Harris Bros Boone Res 2	Blanco River	0.0	05/20/02	175.0	11/01/01	0.0
29	3644	Borns Lake Reservoir	West Fk. San Juan R.	65.0	09/23/02	67.9	11/01/01	67.8
29	3654	Echo Canyon Reservoir	Echo Creek	1,557.6	08/28/02	2,052.5	11/01/01	1,655.9
29	3682	Thomas Reservoir	San Juan R.	36.0	11/01/01	58.0	06/13/02	58.0
29	3848	Mountain View Reservoir	Four Mile Creek	951.6	06/04/02	1,009.8	11/01/01	1,000.0
		Total of all < 50 AF		173.1		284.8		229.1
		Total for District 29		2,783.3		3,648.0		3,010.8

### 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	118.0	09/03/02	131.0	11/01/01	131.0
30	3536	Cascade	Elbert Creek	10,655.0	04/01/02	20,413.0	11/01/01	18,185.0
30	3540	Haviland Lake	Elbert Creek	343.0	09/26/02	526.0	12/18/01	343.0
30	3546	Ice Lake	Elbert Creek	376.0	09/26/02	416.0	11/01/01	376.0
30	3547	Keeler Lake	Elbert Creek	420.0	09/26/02	488.0	12/18/01	420.0
30	3548	Lake of the Pines	Little Cascade Creek	102.0	08/23/02	114.0	05/30/02	114.0
30	3560	Turner Ponds	Animas River	0.0	02/21/02	84.0	11/01/01	42.0
30	3561	Turner Reservoir	Waterfall Creek	289.0	09/24/02	375.0	04/02/02	289.0
30	3576	Florida Canal and Res	Florida River	301.0	10/01/02	406.0	05/20/02	399.0
30	3581	Lemon Reservoir	Florida River	3,615.0	09/06/02	16,493.0	05/02/02	5,651.0
30	3622	Henderson Lake	Animas River	43.0	05/28/02	58.0	11/01/01	43.0
30	3625	Naegelin Lake	Junction Creek	150.0	09/24/02	255.0	04/02/02	150.0
30	3630	Twilight Lake	Purgatory Creek	55.0	08/23/02	60.0	11/01/01	60.0
30	3707	Johnson Reservoir	Coal Creek	286.0	10/31/02	838.0	11/01/01	286.0
30	3724	Johnson Lake #2	Wildcat Canyon	30.0	10/25/02	105.0	11/01/01	30.0
30	3817	Dry Lake	Animas River	27.5	08/20/02	55.0	11/01/01	27.5
		Total of all < 50 AF		225.9		304.1		237.7
		Total for District 30		17,036.4		41,121.1		26,784.2

### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
31	3517	Wommer Reservoir	Little Bear Creek	162.0	10/31/02	209.0	04/01/02	162.0
31	3518	Vallecito Reservoir	Pine River	15,763.1	09/06/02	64,819.3	04/29/02	24,908.9
31	3805	Gosney Gravel Pit	Pine River	65.4	08/29/02	118.0	04/29/02	118.0
		Total of all < 50 AF		0.0		0.0		0.0
		Total for District 31		15,990.5		65,146.3		25,188.9

### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
32	3601	Totten Reservoir	Transbasin Water	1,556.0	09/23/02	2,064.0	04/08/02	1,556.0
32	3602	Narraguinnep Reservoir	Transbasin Water	2,112.0	09/09/02	18,155.8	11/01/01	5,298.2
32	3603	A M Puett Reservoir	Transbasin Water	309.0	10/21/02	552.5	11/01/01	309.0
		Total of all < 50 AF		86.7		90.7		86.7
		Total for District 32		4,063.7		20,863.0		7,249.9

### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
33	3522	Red Mesa Ward Reservoir	Hay Gulch	0.0	08/29/02	565.0	04/05/02	0.0
33	3523	Taylor Reservoir	La Plata River	85.6	11/01/01	85.6	10/31/02	85.6
		Total of all < 50 AF		0.0		0.0		0.0
		Total for District 33		85.6		650.6		85.6

### 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	4.0	10/07/02	180.0	05/13/02	4.0
34	3586	Bauer Reservoir No 2	Chicken Creek	335.4	10/07/02	742.7	04/22/02	335.4
34	3589	Jackson Gulch Reservoir	West Fork Mancos R	2,009.0	08/31/02	3,498.0	04/30/02	2,465.0
34	3590	L A Bar Reservoir	Chicken Creek	26.8	11/01/01	73.3	02/01/02	44.3
34	3592	Sellers & McClane Res	Mud Creek	9.5	05/10/02	32.0	11/01/01	24.0
34	3594	Weber	Middle Fork Mancos R	10.9	10/08/02	287.4	05/01/02	10.9
		Total of all < 50 AF		23.0		29.2		23.0
		Total for District 34		2,418.6		4,842.6		2,906.6

### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
69	3529	Belmar Lake Reservoir	Rincones Creek	188.0	11/01/01	273.8	05/16/02	209.0
69	3530	Dunham Reservoir	Disappointment Creek	37.5	10/10/02	61.0	04/03/02	37.5
69	3532	Morrison Reservoir	Morrison Creek	81.1	10/10/02	116.3	04/03/02	81.1
		Total of all < 50 AF		16.0		31.5		16.8
		Total for District 69		322.6		482.6		344.4

### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
71	3606	Big Pine Reservoir	Lost Canyon	51.8	11/01/01	246.5	05/10/02	181.5
71	3607	Buck Pasture Reservoir	Beaver Creek	6.7	08/08/02	48.1	11/01/01	6.7
71	3610	Ethel Belmear Reservoir	Beaver Creek	41.2	10/10/02	87.3	04/03/02	41.2
71	3612	Groundhog Reservoir	Groundhog Creek	3,650.0	08/08/02	11,220.0	05/16/02	3,811.0
71	3613	Lost Canyon Lake	Lost Canyon	93.0	11/01/01	93.0	10/31/02	93.0
71	3614	McPhee Reservoir	Dolores River	156,567.0	10/31/02	214,373.0	04/30/02	156,567.0
71	3619	Summit Reservoir	Lost Canyon	304.0	01/10/02	742.0	05/10/02	425.0
		Total of all < 50 AF		4.2		13.2		4.2
		Total for District 71		160,717.9		226,823.1		161,129.6



### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
77	3512	Spence Reservoir*	Coyote Creek	0.0	05/20/02	1.8	11/01/01	0.0
77	3696	Sappington Reservoir	Coyote Creek	133.0	10/18/02	171.0	05/20/02	133.0
		Total of all < 50 AF		15.4		15.4		15.4
		Total for District 77		148.4		188.2		148.4

\*Spence Reservoir restricted to zero storage due to collapsed outlet.

### RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				Minimum		Maximum		End of
				AF	Date	AF	Date	Year
78	3624	Dunagan Reservoir	Stollsteimer Creek	0.2	09/24/02	7.0	04/15/02	0.5
78	3626	G S Hatcher	Stollsteimer Creek	1,087.7	10/31/02	1,413.2	12/28/01	1,087.2
78	3629	Linn and Clark Reservoir	Dutton Creek	682.5	10/31/02	1,120.0	02/27/02	682.5
78	3636	Pinõn Lake	Dutton Creek	11.6	10/01/02	89.2	11/01/01	18.0
78	3642	Williams Creek Reservoir	Williams Creek	10,084.0	11/01/01	10,084.0	10/31/02	10,084.0
78	3644	Lake Forest	Dutton Creek	379.1	11/01/01	465.0	05/31/02	453.2
78	3645	Stevens Reservoir	Dutton Creek	246.4	10/01/02	381.1	11/01/01	246.4
78	3646	Town Center Lake	Dutton Creek	129.6	10/01/02	310.0	03/27/02	272.5
78	3650	Palisade Lake	Middle Fork Piedra R	45.0	07/19/02	50.0	11/01/01	50.0
		Total of all < 50 AF		72.9		99.1		72.9
		Total for District 78		12,739.0		14,018.6		12,967.2

## 2002 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	279	83	185	4	0	3,826	47,263	124	30,904	8,240	3.75
30	812	208	445	0	0	9,007	193,395	15,174	116,641	16,230	7.19
31	154	201	203	4	0	9,924	216,899	24,200	98,471	39,809	2.47
32 *	159	93	209	140	0	4,616	169,982	8,301	126,582	52,955	2.39
33	52	178	43	10	0	4,965	9,312	744	5,730	1,465	3.91
34 **	158	83	39	196	0	1,873	16,325	1,986	8,862	3,965	2.24
46	34	24	11	0	0	411	1,632	0	1,152	747	1.54
69	29	6	5	1	0	167	1,904	125	1,693	1,186	1.43
71	139	8	71	4	0	3,143	154,353	18,612	15,548	1,854	8.39
77***	85	35	48	0	0	1,611	14,069	26	11,663	1,588	7.34
78	134	75	53	1	0	2,407	20,122	2,183	16,039	3,940	4.07
TOTAL	2,035	994	1,312	360	0	41,950	845,256	71,475	433,285	131,979	3.28

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, 120,513 A.F. of which 90,116 A.F. were for irrigation.

\*\* Total Deliveries from Dolores River Basin, Dist. 71, 54 A.F. of which 11 A.F. were for irrigation.

\*\*\* Total Deliveries from Dist. 29, 0 A.F. (No deliveries from transbasin diversions IY 2002)

## 2002 WATER DIVERSION SUMMARIES TO VARIOUS USES

WD	TRANSMOUNTAIN OUTFLOW	TRANSBASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
29***	0	5,321	342	991	0	0	2,821	47	1,152
30	58	0	6,594	2,016	548	327	4,974	307	21,788
31	0	0	1,325	136	0	0	675	10	129
32 *	0	0	5,042	1	29	0	0	15	785
33	0	0	1	8	0	0	0	40	2,329
34	0	0	523	1	0	0	730	7	4,131
46	0	0	0	0	0	0	0	0	14
69	0	0	0	0	0	0	0	0	0
71 **	103,504	32	351	2	0	2	6,630	11	540
77	0	0	0	0	0	0	377	84	42
78	91	0	2,317	40	0	0	210	15	66
TOTAL	103,653	5,353	16,495	3,195	577	329	16,417	536	30,976

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

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

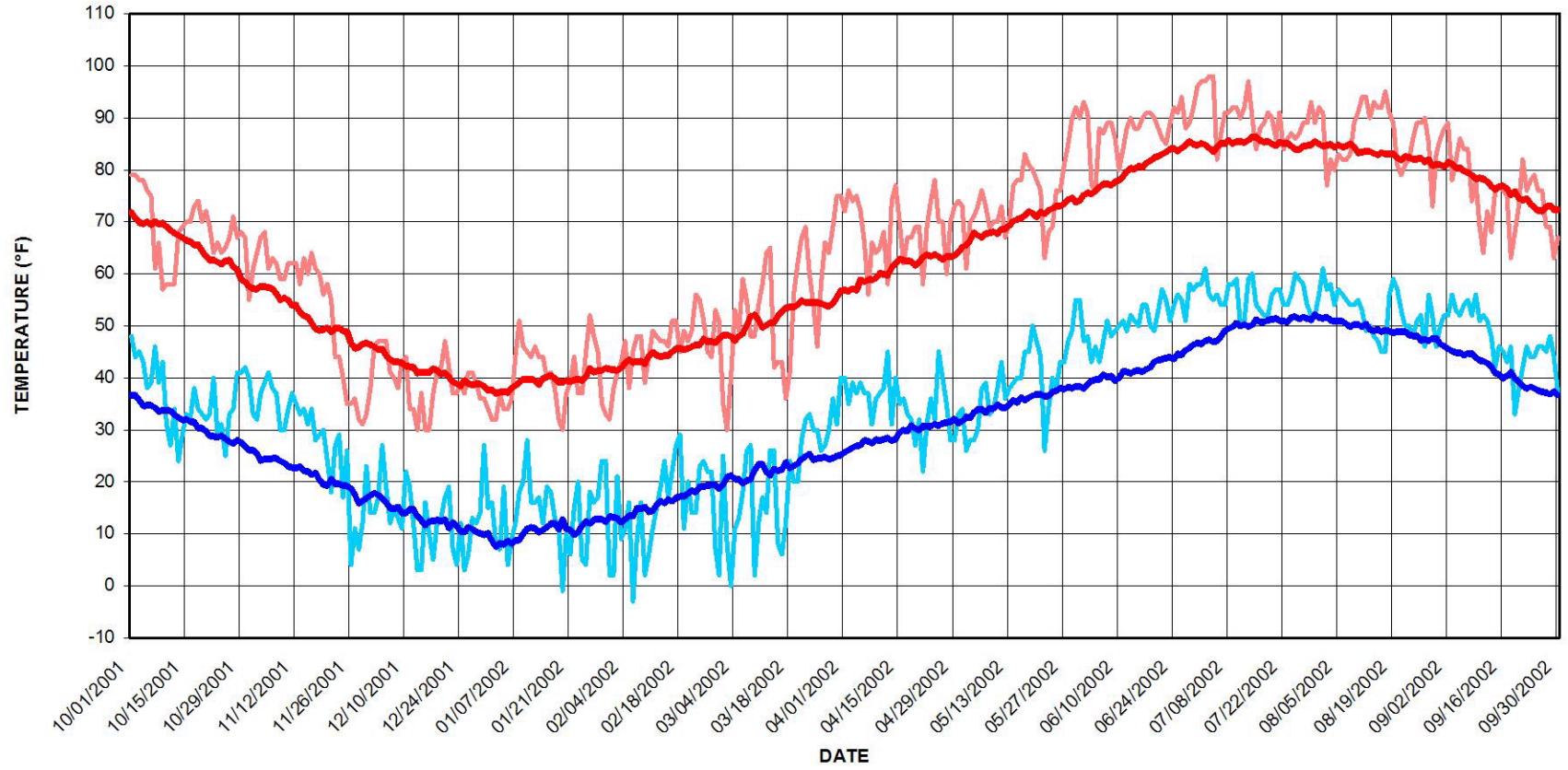
\*\*\* Transbasin outflow in Dist 29 includes 0 af to Dist. 77 (No deliveries from transbasin IY 2002).  
Remainder is Trans Sub-basin diversion in Snowball Ditch System.

**2002 WATER DIVERSION SUMMARIES TO VARIOUS USES (CONTINUED)**

WD	AUGMENTATION	EVAPORATION	FEDERAL RESERVE	GEOHERMAL *	SNOWMAKING	MINIMUM STREAMFLOW	POWER GENERATION	WILDLIFE	RECHARGE	OTHER
29	19	0	0	0	0	0	0	0	0	0
30	215	728	0	0	150	0	13,308	2	1	0
31	310	2,890	0	0	0	0	89,008	0	0	0
32	3	0	8	0	0	0	16,390	0	0	0
33	1	0	0	0	0	0	0	0	0	0
34	0	0	84	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0
69	0	0	0	0	0	0	0	0	0	0
71	125	34	0	0	0	0	8,172	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>673</b>	<b>3,652</b>	<b>92</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>126,878</b>	<b>2</b>	<b>1</b>	<b>0</b>

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

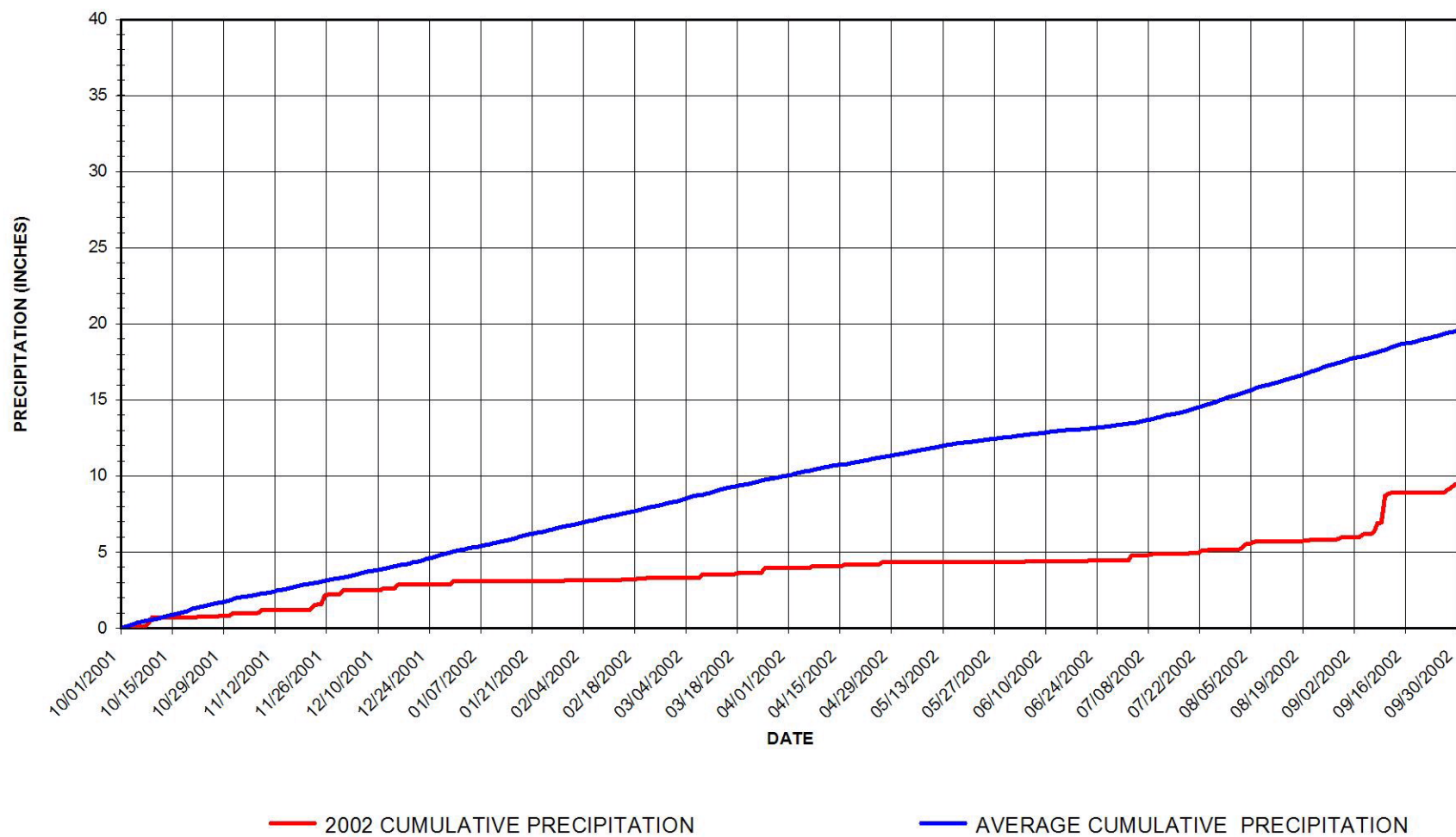
### DURANGO TEMPERATURES



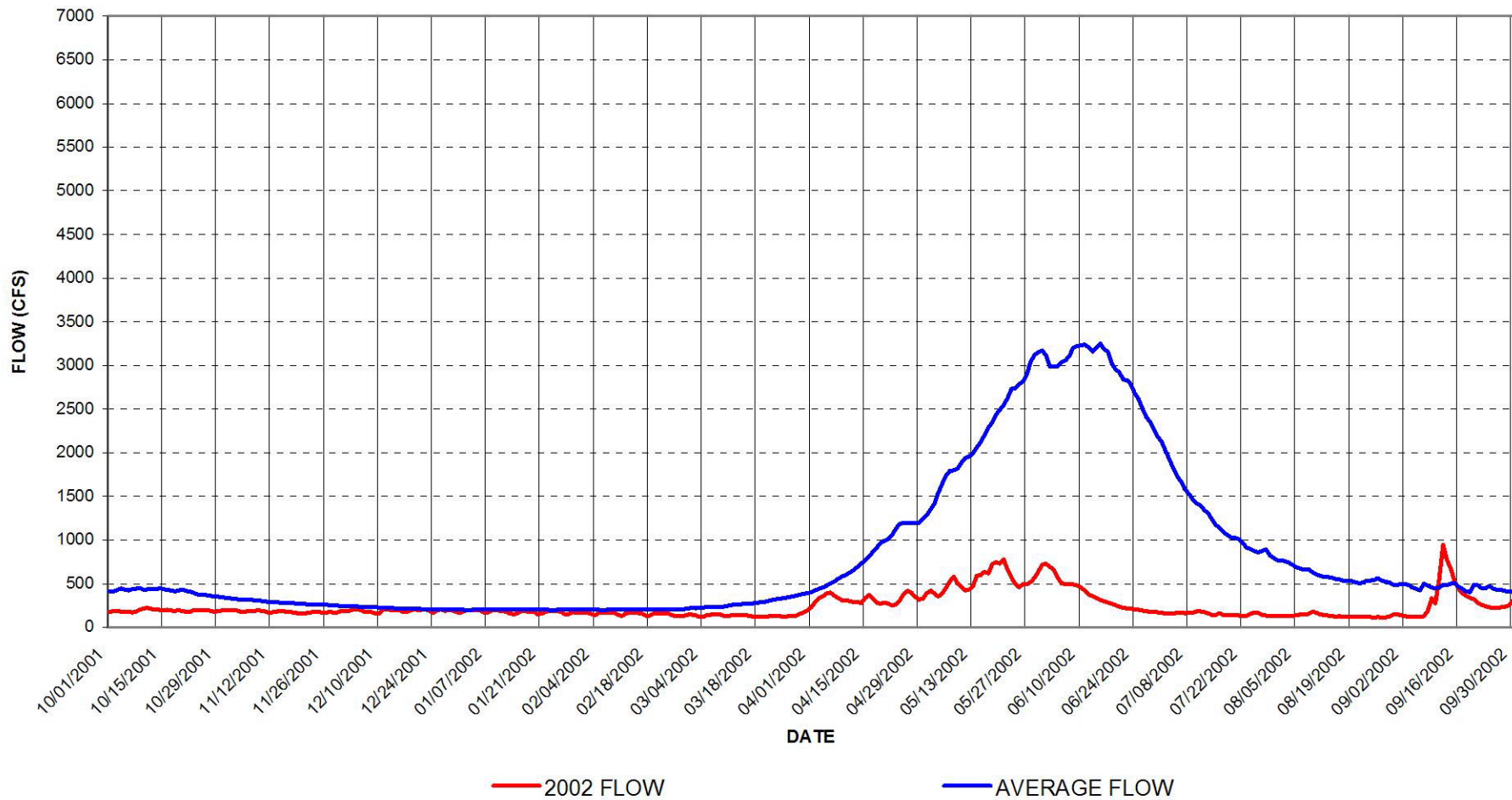
— 2002 HIGH TEMPERATURE  
— AVERAGE HIGH TEMPERATURE

— 2002 LOW TEMPERATURE  
— AVERAGE LOW TEMPERATURE

### DURANGO CUMULATIVE PRECIPITATION

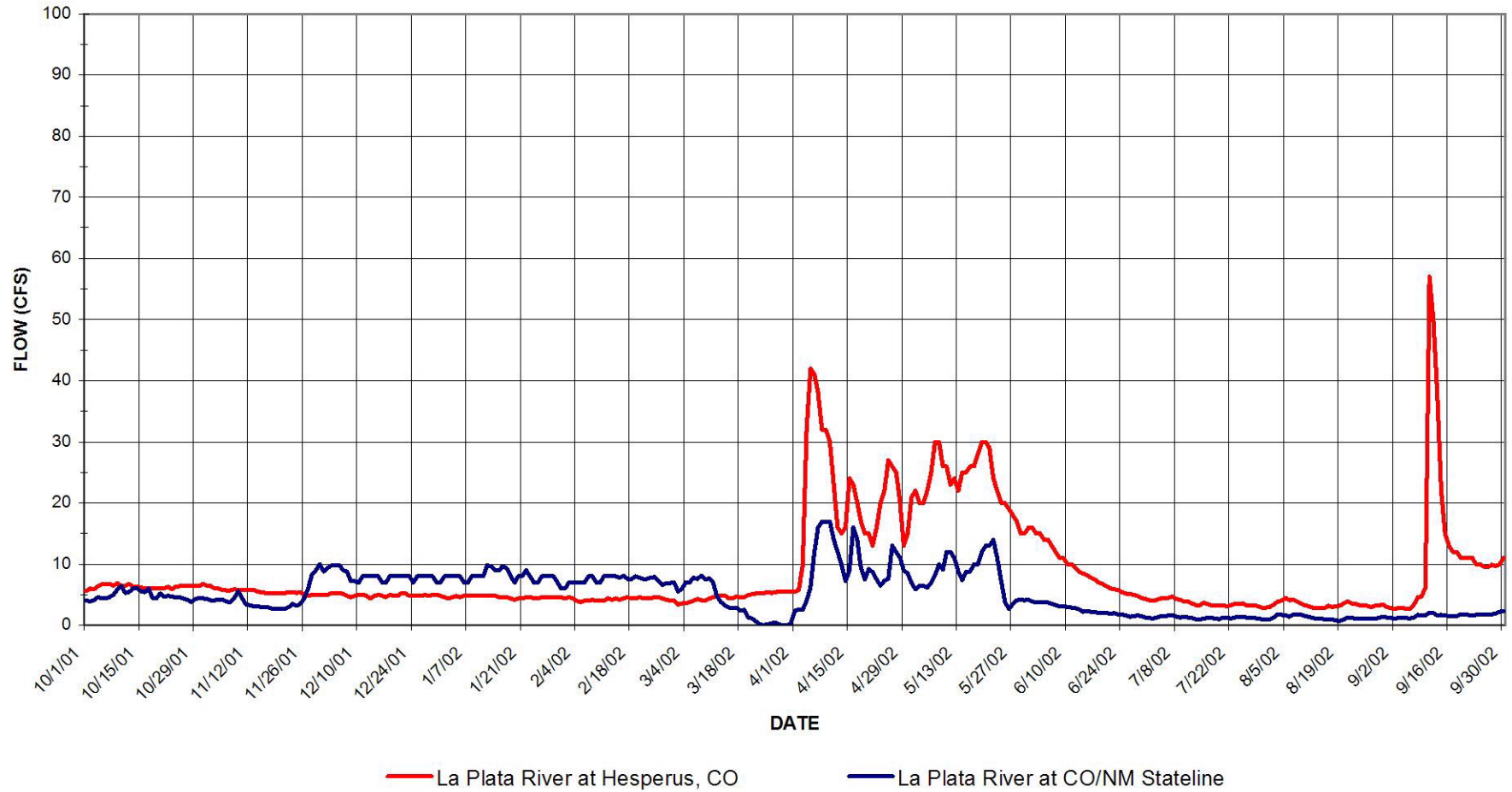


### ANIMAS RIVER AT DURANGO, CO





### LA PLATA RIVER COMPACT - 2002 WATER YEAR



**LA PLATA RIVER COMPACT MONTHLY ADMINISTRATIVE SUMMARY (ACRE-FEET)  
2002 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	302	0.0	0.0	0.0	302.0	495	0.0	0.0	495.0	---
JANUARY	284	0.0	0.0	0.0	284.0	495	0.0	0.0	495.0	---
FEBRUARY	238	0.0	0.0	0.0	238.0	413	0.0	0.0	413.0	24.8*
MARCH	320	0.0	0.0	0.0	319.6	242	0.0	107.0	349.2	159.0
APRIL	1304	177.6	0	0.0	1481.8	603	62	93.1	758.7	726.3
MAY	1426	0	0	0.0	1426.1	515	78	105	698.0	717.3
JUNE	530	0	0.0	0.0	529.8	158	0	1	158.9	276.5
JULY	218	0	0.0	0.0	218.3	76	0.0	0.0	76.4	110.6
AUGUST	213	0.0	0.0	0.0	213.4	77	0.0	0.0	76.7	106.4
SEPTEMBER	762	61.3	0.0	1.7	824.8	102	0.0	0.0	102.1	404.4
OCTOBER	708	0.0	0.0	0.0	707.9	173	0.0	0.0	172.8	356.3
NOVEMBER	516	0.0	0.0	0.0	515.7	205	4.0	0.0	209.2	256.3
TOTALS *	6055.7	238.9	0.0	1.7	6296.3	2211.1	144.3	306.3	2661.7	3137.9

On Feb. 23rd, Colorado began requested deliveries up to 25 cfs or 1/2 upper index flow, whichever is less.  
 La Plata River at Hesperus flow for April 13 estimated due to tampering at control section  
 Flows for the entire month of June were considered undeliverable to Stateline from Hesperus  
 Estimated discharges for La Plata River at CO/NM Stateline June 16-17 due to tampering at control section  
 Estimated discharges for La Plata River at Hesperus July 2-3 due to tampering at control section  
 Split River for the entire month of August

\* 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	23,510	1,340	24,980	49,830	59,980		-20.4%
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	110,600	923,920	-5.0%
2002	3,967	36	1,740	5,743			
AVG.	39,836	4,255	46,378	90,469	93,806	874,535	-3.7%

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

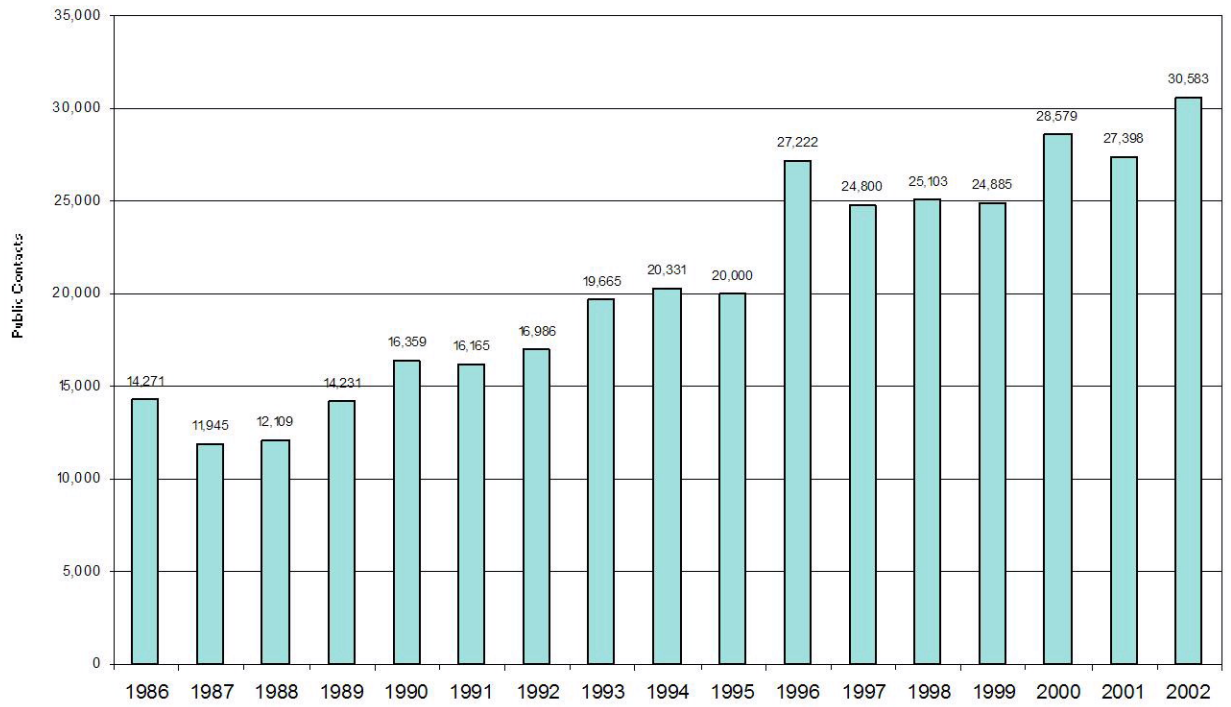
**WATER DIVISION SEVEN**

**ACTIVITY SUMMARY**

**FISCAL YEAR 2002**

<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)	110
NUMBER OF SURFACE RIGHTS ADMINISTERED	26,638
NUMBER OF WELLS ADMINISTERED	1,011
NUMBER OF DAMS & PONDS VISITED	1,412
NUMBER OF PLANS FOR AUGMENTATION (FOR THE CURRENT YEAR)	4
NUMBER OF CONSULTATIONS WITH REFEREE	183
NUMBER OF WATER COURT APPEARANCES	59
NUMBER OF MEETINGS WITH WATER USERS	181
NUMBER OF MEETINGS TO RESOLVE WATER RELATED DISPUTES	198
NUMBER OF PUBLIC ASSISTANCE CONTACTS ON WATER MATTERS	30,583

## 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
2002	30,583

**WATER COURT ACTIVITIES**  
**CALENDAR YEAR 2002**

NUMBER OF APPLICATIONS FOR DECREES	136
NUMBER OF CONSULTATIONS WITH REFEREE	183
NUMBER OF DECREES ISSUED BY WATER COURT	110

TYPE OF DECREE:

SURFACE WATER	80
GROUND WATER	1
RESERVOIRS	10
TRANSFER	0
ALTERNATE POINT	1
CHANGE IN USE	21
PLANS FOR AUGMENTATION	3
IN-STREAM FLOW	0
OTHER	0
PROTEST TO ABANDONMENT LIST	<u>3</u>

NUMBER OF WATER RIGHTS IN DECREES: 119

TYPE OF STRUCTURES:

DITCHES	57
RESERVOIRS, PONDS	49
WELLS	20
SPRINGS	9
OTHER (PIPELINES, PUMPS, ETC.)	<u>38</u>

TOTAL STRUCTURES: 173

**OFFICE ADMINISTRATION FY 2002**

<b><u>NAME</u></b>	<b><u>POSITION</u></b>	<b>FY MONTHS</b>		
		<b><u>BUDGETED</u></b>	<b><u>WORKED</u></b>	<b><u>FY MILEAGE</u></b>
Kenneth A. Beegles	Division Engineer	12	12	2,579
Bruce T. Whitehead	Asst. Div. Engineer	12	12	1,586
Scott D. Brinton	Hydrographer	12	12	13,960
Brett Nordby	Dam Safety Engineer	12	12	14,138
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	11,378
Robert Becker	Eng Tech II	69, 71	12	12	14,327
Glen Humiston	Eng Tech III	32,34,69,71	12	6*	5,670
*Glen retired in Jan. / 6 months of vacancy savings					
Matthew Schmitt	Eng Tech II	33	12	12	12,246
David Nelson	Eng Tech II	30/Animas	8	7*	3,086
*Dave killed in Jan. / 1 month of vacancy savings					
Hal Pierce	Eng Tech II	31, 46	8	8*	9,494
*Hal moved to Dist.30/Animas in Mar.					
Hal Pierce	Eng Tech II	30/Animas	4	4	4,474
Erika Berglund	Eng Tech II	31, 46	4	1.5*	1,314
*Erika started mid May / 2.5 months of vacancy savings					
John (Val) Valentine	Eng Tech II	29,77,78	12	12	14,837

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

Robert Daniels	Eng Tech II	31,46	9.5	9.5	13,474
Marty Robbins	Eng Tech I	32	9	9	12,947
Wallace Patcheck	EPS Asst. III	33	4	4	5,869
Sherry Schutz	Eng Tech I	77	7.5	7.5	10,677
Bob Formwalt	Eng Tech I	78	5	5	4,521
Jeff Titus	EPS Asst. III	30/Animas	3	4*	8,292

**SPECIAL NOTE:**

\* 1 Month Overtime Converted

<b>TOTAL MAN-MONTHS:</b>	182	174	
<b>TOTAL FTE:</b>	15.16	15.25	
<b>TOTAL MILES DRIVEN:</b>			164,869

**DIVISION 7  
2002 RIVER CALLS**

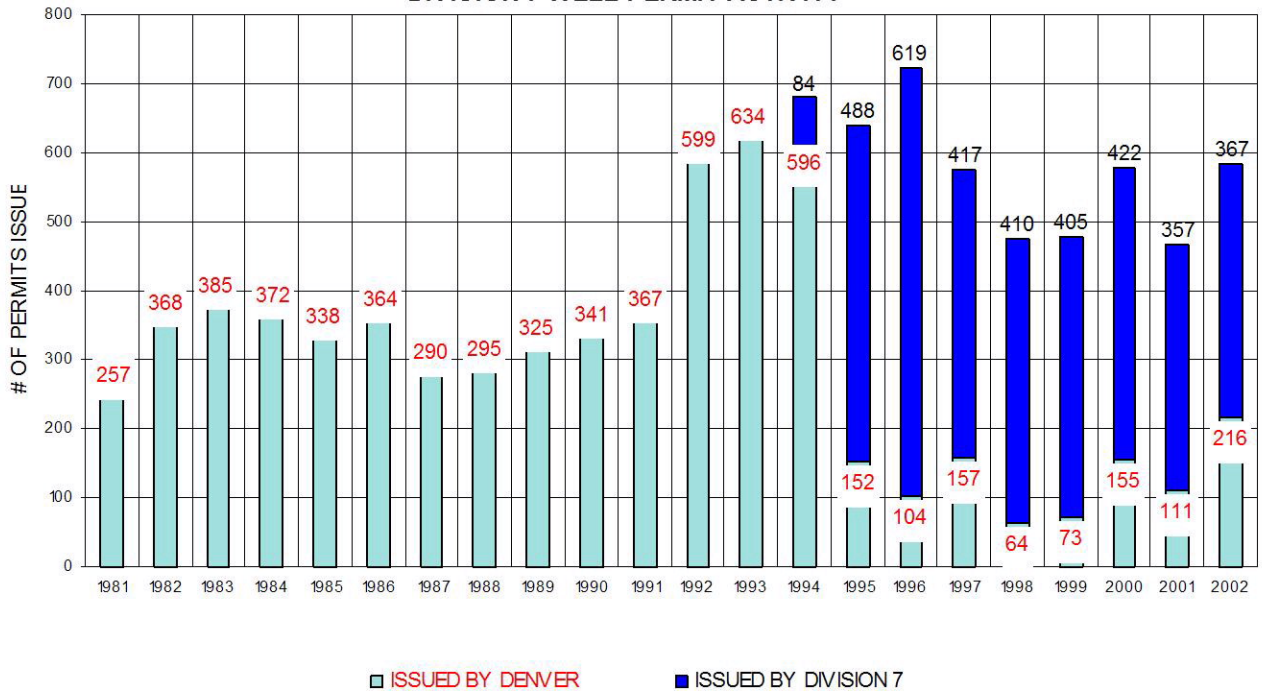
WD	RIVER	INITIAL CALLING STRUCTURE	PRIORITY No.	DATE ON CALL	MOST SENIOR CURTAILED STRUCTURE	PRIORITY No.	DATE OFF CALL	DAYS
29	COAL CREEK	J M Ross and Sturgill D	139	04/27/02	J M Ross and Sturgill D	139	10/31/02	186
29	FOUR MILE CREEK	Mesa Ditch	58	04/21/02	Fourmile Ditch	56	10/15/02	193
29	RITO BLANCO	M. O. Brown Ditch	25	04/18/02	Echo Ditch	6	09/16/02	152
29	TURKEY CREEK	Strawn Ditch	23	05/22/02	Snowball Ditch	98	10/15/02	164
30	FLORIDA RIVER	Durango City Pipeline	F-18	04/22/02	Harris Patterson Ditch	F-15	09/20/02	151
30	ELBERT CREEK (Upper)	Power Canal No 1	65-9A	11/01/01	Power Canal No1	65-9A	10/31/02	365
30	ELBERT CREEK (Lower)	Conley Ditch	E-1	04/23/02	Conley Ditch	E-1	10/31/02	192
30	HERMOSA CREEK DITCH	Hermosa Company Ditch	H-4	07/31/02	Hermosa Company Ditch	H-4	09/23/02	55
30	JUNCTION CREEK	Animas City Ditch	J-2	04/11/02	Animas City Ditch	J-2	10/31/02	204
30	LIGHTNER CREEK (Upper)	Covert Ditch	L-5	08/23/02	Covert Ditch	L-5	09/24/02	33
30	LIGHTNER CREEK (Lower)	Taggart Ditch	L-4	06/27/02	Taggart Ditch	L-4	10/31/02	127
30	LITTLE CASCADE CREEK	Little Cascade Creek Canal	65-9	11/01/01	Little Cascade Creek Canal	65-9	10/31/02	365
31	PINE RIVER	Spring Creek Ditch	P-26	04/30/02	Dr Morrison Ditch, Ceanaboo Ditch, Nanice Ditch	P-1	10/20/02	172
31	UTE CREEK	Clara Wolf Ditch	65-1a	07/13/02	Clara Wolf Ditch	65-1a	09/4/02	52
32	McELMO CREEK	Rock Creek Ditch	62-1	04/10/02	Rock Creek Ditch	62-1	09/10/02	153



**DIVISION 7  
2002 RIVER CALLS (Continued)**

WD	RIVER	INITIAL CALLING STRUCTURE	PRIORITY No.	DATE ON CALL	MOST SENIOR CURTAILED STRUCTURE	PRIORITY No.	DATE OFF CALL	DAYS
33	LA PLATA RIVER (Hesperus to Breen)	Big Stick Ditch	10	03/11/02	Hay Gulch Ditch	5	04/04/02	24
33	LA PLATA RIVER (Breen to Cherry Creek)	Red Mesa Res Supply	65-2	03/11/02	H C Strobel Ditch	27	04/04/02	24
33	LA PLATA RIVER (Cherry Creek to Stateline)	Morgan and Stambaugh D	55	03/11/02	Sooner Valley Ditch	41	04/04/02	24
33	LA PLATA RIVER (Hesperus to Stateline)	La Plata R & Cherry Cr D	10	04/04/02	Hay Gulch Ditch	5	06/01/02	57
33	LA PLATA RIVER (Hesperus to Breen)	Big Stick Ditch	10	06/01/02	Hay Gulch Ditch	5	10/31/02*	153
33	Hay Gulch	Old Indian Ditch	36	06/01/02	Spring Ditch (Hotter)	28	10/31/02*	153
33	LA PLATA RIVER (Long Hollow to Stateline)	Sooner Valley Ditch	41	06/01/02	Sooner Valley Ditch	41	10/31/02*	153
34	MANCOS RIVER	Ratliff and Root Ditch	M-2	05/01/02	Ratliff and Root Ditch	M-2	09/11/02	134
34	CHICKEN CREEK	Carpenter and Mitchell D	M-13	10/08/02	Rush Reservoir Ditch	M-50	10/15/02	7
77	SPRING GULCH (NAVAJO)	Bramwell Spring Cr Ditch	68-102	05/7/02	Log Canyon Ditch	12/31/1999	08/15/02	100
78	EAST FORK PIEDRA RIVER	Piedra Falls Ditch	302	06/18/02	Abraham Davis Ditch	Non-decreed use	06/20/02	2
78	PLUMTEAU CREEK	Lynd-Plumteau Ck Ditch	35	05/01/02	Burkhard Ditch	12/31/1970	10/31/02	183
78	WEMINUCHE CREEK	Barnes-Mueser and Shaw D	250	07/05/02	C R Martin Ditch	289	07/10/02	6
78	STOLLSTEIMER CREEK	Dyke No 1 Ditch	13	04/21/02	Dyke No 1 Ditch	13	10/15/02	164

### DIVISION 7 WELL PERMIT ACTIVITY



### SUMMARY OF WELL PERMITS ISSUED FOR DIVISION 7 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
2002	216	367

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 29**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	28,657
STORAGE	104
STOCKWATER	1,152
MUNICIPAL	342
DOMESTIC	47
INDUSTRIAL	0
RECREATION	0
FISH	2,821
OTHER:COMMERCIAL,AUGMENTATION	991
TRANSMOUNTAIN-TRANSBASIN	5,244
INTERSTATE	3,967
TOTAL DIVERSIONS.....	43,325
DELIVERIES FROM STORAGE	
IRRIGATION	8
DOMESTIC	0
MUNICIPAL	0
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	77
OTHER:AUGMENTATION,ETC.	19
TOTAL DIVERSIONS.....	104
DELIVERIES FROM TRANS SUB-BASIN	
IRRIGATION	2,239
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	2,239
DUTY OF WATER:	
TOTAL TO IRRIGATION	30,904
ACRES IRRIGATED	8,240
ACRE-FEET DIVERTED PER ACRE	3.75
NUMBER OF STRUCTURES OBSERVED	577
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	4
ACTIVE DIVERSIONS-DAILY	183
-INFREQUENT STRUCTURES	117
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	85
-NOT USED (A,C,D, CODES)	185
-NO INFORMATION AVAILABLE (F CODE)	3
NUMBER OF DITCHES, SURFACE RIGHTS	374
NUMBER OF RESERVOIRS	99
NUMBER OF WELLS	79
NUMBER OF OBSERVATIONS	3,826

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 30**

	ACRE-FEET
DIRECT DIVERSIONS	
IRRIGATION	106,117
STORAGE	14,974
STOCKWATER	20,421
MUNICIPAL	6,594
DOMESTIC	306
INDUSTRIAL,POWER	3,392
RECREATION	327
FISH	5,722
OTHER:COMMERCIAL,RECHARGE,AUGMENTATION,etc..	815
SNOWMAKING	53
TRANSMOUNTAIN-TRANSBASIN	58
INTERSTATE	8,682
TOTAL DIVERSIONS.....	167,461
DELIVERIES FROM STORAGE	
IRRIGATION	10,524
DOMESTIC	1
MUNICIPAL	0
STOCK	1,367
INDUSTRIAL,POWER	10,464
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER:COMMERCIAL,RECHARGE,EVAP,AUGMENTATION	2,145
SNOWMAKING	97
TOTAL DIVERSIONS.....	24,598
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
OTHER:COMMERCIAL,etc.	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	116,641
ACRES IRRIGATED	16,230
ACRE-FEET DIVERTED PER ACRE	7.19
NUMBER OF STRUCTURES OBSERVED	1,541
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	266
-INFREQUENT STRUCTURES*	622
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	208
-NOT USED (A,C,D, CODES)	445
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES	839
NUMBER OF RESERVOIRS	182
NUMBER OF WELLS	483
NUMBER OF OBSERVATIONS	9,007

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 31**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	50,901
STORAGE	24,200
STOCKWATER	129
MUNICIPAL	912
DOMESTIC	10
POWER,INDUSTRIAL	89,008
RECREATION	0
FISH	675
OTHER:COMMERCIAL	136
TRANSMOUNTAIN-TRANSBASIN	0
TOTAL DIVERSIONS.....	165,971
DELIVERIES FROM STORAGE	
IRRIGATION	47,570
DOMESTIC	0
MUNICIPAL	413
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	0
OTHER:EVAPORATION,AUGMENTATION	3,200
TOTAL DIVERSIONS.....	51,183
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	98,471
ACRES IRRIGATED	39,809
ACRE-FEET DIVERTED PER ACRE	2.47
NUMBER OF STRUCTURES OBSERVED	901
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	1
ACTIVE DIVERSIONS-DAILY	123
-INFREQUENT STRUCTURES	369
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	201
-NOT USED (A,C,D, CODES)	203
-NO INFORMATION AVAILABLE (F CODE)	4
NUMBER OF DITCHES, OTHER	468
SURFACE RIGHTS	
NUMBER OF RESERVOIRS	68
NUMBER OF WELLS	350
NUMBER OF OBSERVATIONS	9,924

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 32**

	ACRE-FEET
<b>DIRECT DIVERSIONS</b>	
IRRIGATION	20,724
STORAGE	5
STOCKWATER	12
MUNICIPAL	29
DOMESTIC	15
INDUSTRIAL	29
RECREATION	0
FISH	0
OTHER:COMMERCIAL,FEDERAL RESERVE	9
TRANSMOUNTAIN-TRANSBASIN	0
TOTAL DIVERSIONS.....	20,823
<b>DELIVERIES FROM STORAGE</b>	
IRRIGATION	15,742
DOMESTIC	0
MUNICIPAL	0
STOCK	77
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-	0
TRANSMOUNTAIN	0
OTHER:COMMERCIAL,AUGMENTATION,EVAPORATION	1
TOTAL DIVERSIONS.....	15,820
<b>DELIVERIES FROM TRANSBASIN</b>	
IRRIGATION	90,116
STORAGE	8,296
MUNICIPAL	5,013
STOCK	696
POWER	16,390
OTHER:AUGMENTATION	2
TOTAL FROM TRANSBASIN.....	120,513
<b>DUTY OF WATER:</b>	
TOTAL TO IRRIGATION	126,582
ACRES IRRIGATED	52,955
ACRE-FEET DIVERTED PER ACRE	2.39
<b>NUMBER OF STRUCTURES OBSERVED</b>	
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	9
ACTIVE DIVERSIONS-DAILY	224
-INFREQUENT STRUCTURES	76
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	94
-NOT USED (A,C,D, CODES)	209
-NO INFORMATION AVAILABLE (F CODE)	131
NUMBER OF DITCHES, SURFACE RIGHTS	532
NUMBER OF RESERVOIRS	21
NUMBER OF WELLS	44
NUMBER OF OBSERVATIONS	4,616

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 33**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	5,310
STORAGE	744
STOCKWATER	2,325
MUNICIPAL	1
DOMESTIC	40
INDUSTRIAL	0
RECREATION	0
FISH	0
OTHER:COMMERCIAL	8
TRANSMOUNTAIN-TRANSBASIN	0
INTERSTATE	446
TOTAL DIVERSIONS.....	8,428
DELIVERIES FROM STORAGE	
IRRIGATION	420
DOMESTIC	0
MUNICIPAL	0
STOCK	4
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-	0
TRANSMOUNTAIN	
OTHER:RECHARGE,AUGMENTATION	10
TOTAL DIVERSIONS.....	434
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	5,730
ACRES IRRIGATED	1,465
ACRE-FEET DIVERTED PER ACRE	3.91
NUMBER OF STRUCTURES OBSERVED	375
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	46
-INFREQUENT STRUCTURES	94
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	182
-NOT USED (A,C,D, CODES)	43
-NO INFORMATION AVAILABLE (F CODE)	10
NUMBER OF DITCHES, SURFACE RIGHTS	252
NUMBER OF RESERVOIRS	22
NUMBER OF WELLS	53
NUMBER OF OBSERVATIONS	4,965

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 34**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	7,458
STORAGE	1,971
STOCKWATER	3,696
MUNICIPAL	408
DOMESTIC	7
RECREATION	0
FISH	730
POWER	0
OTHER:FEDERAL RESERVE	79
TOTAL DIVERSIONS.....	14,349
DELIVERIES FROM STORAGE	
IRRIGATION	1,393
DOMESTIC	0
MUNICIPAL	115
STOCK	407
INDUSTRIAL	0
RECREATION	0
POWER	0
OTHER:FISHERY,COMMERCIAL,EVAPORATION	1
TOTAL DIVERSIONS.....	1,916
DELIVERIES FROM TRANSBASIN	
IRRIGATION	11
STORAGE	15
MUNICIPAL	0
STOCK	28
TOTAL FROM TRANSBASIN.....	54
DUTY OF WATER:	
TOTAL TO IRRIGATION	8,862
ACRES IRRIGATED	3,965
ACRE-FEET DIVERTED PER ACRE	2.24
NUMBER OF STRUCTURES OBSERVED	488
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	52
-INFREQUENT STRUCTURES	117
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	84
-NOT USED (A,C,D, CODES)	39
-NO INFORMATION AVAILABLE (F CODE)	196
NUMBER OF DITCHES, SURFACE RIGHTS	418
NUMBER OF RESERVOIRS	27
NUMBER OF WELLS	35
NUMBER OF OBSERVATIONS	1,873



**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 46**

	ACRE-FEET
<b>DIRECT DIVERSIONS</b>	
IRRIGATION	1,152
STORAGE	0
STOCKWATER	14
MUNICIPAL	0
DOMESTIC	0
INDUSTRIAL	0
RECREATION	0
FISH	0
OTHER:	0
INTERSTATE	466
TOTAL DIVERSIONS.....	1,632
 <b>DELIVERIES FROM STORAGE</b>	
IRRIGATION	0
DOMESTIC	0
MUNICIPAL	0
STOCK	0
OTHER:FISH	0
TOTAL DIVERSIONS.....	0
 <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	1,152
ACRES IRRIGATED	747
ACRE-FEET DIVERTED PER ACRE	1.54
 <b>NUMBER OF STRUCTURES OBSERVED</b>	
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	38
-INFREQUENT STRUCTURES	6
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	24
-NOT USED (A,C,D, CODES)	11
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	61
NUMBER OF RESERVOIRS	9
NUMBER OF WELLS	0
NUMBER OF OBSERVATIONS	411

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 69**

	ACRE-FEET
<b>DIRECT DIVERSIONS</b>	
IRRIGATION	1,518
STORAGE	93
STOCKWATER	0
MUNICIPAL	0
DOMESTIC	0
INDUSTRIAL	0
RECREATION	0
FISH	0
OTHER:	0
TOTAL DIVERSIONS.....	1,611
 <b>DELIVERIES FROM STORAGE</b>	
IRRIGATION	175
DOMESTIC	0
MUNICIPAL	0
STOCK	0
OTHER:	0
TOTAL DIVERSIONS.....	175
 <b>DELIVERIES FROM TRANSBASIN</b>	
IRRIGATION	0
STORAGE	32
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	32
 <b>DUTY OF WATER:</b>	
TOTAL TO IRRIGATION	1,693
ACRES IRRIGATED	1,186
ACRE-FEET DIVERTED PER ACRE	1.43
 <b>NUMBER OF STRUCTURES OBSERVED</b>	
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	1
ACTIVE DIVERSIONS-DAILY	23
-INFREQUENT STRUCTURES	16
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	6
-NOT USED (A,C,D, CODES)	5
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	33
NUMBER OF RESERVOIRS	7
NUMBER OF WELLS	1
NUMBER OF OBSERVATIONS	167

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 71**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	15,452
STORAGE	18,054
STOCKWATER	531
MUNICIPAL	351
DOMESTIC	11
INDUSTRIAL	0
RECREATION	2
FISH	6,630
POWER (Multiple Sources)	8,172
OTHER:COMMERCIAL	2
TRANSMOUNTAIN-TRANSBASIN	43,520
TOTAL DIVERSIONS.....	92,725
DELIVERIES FROM STORAGE	
IRRIGATION	87
DOMESTIC	0
MUNICIPAL	0
STOCK	9
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-TRANSMOUNTAIN	60,016
POWER (See Direct Diversions)	0
OTHER:AUGMENTATION, EVAPORATION	159
TOTAL DIVERSIONS.....	60,271
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	15,539
ACRES IRRIGATED	1,854
ACRE-FEET DIVERTED PER ACRE	8.38
NUMBER OF STRUCTURES OBSERVED	
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	2
ACTIVE DIVERSIONS-DAILY	65
-INFREQUENT STRUCTURES	80
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	8
-NOT USED (A,C,D, CODES)	71
-NO INFORMATION AVAILABLE (F CODE)	2
NUMBER OF DITCHES, SURFACE RIGHTS	161
NUMBER OF RESERVOIRS	19
NUMBER OF WELLS	47
NUMBER OF OBSERVATIONS	3,143

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 77**

DIRECT DIVERSIONS	ACRE-FEET
IRRIGATION	11,648
STORAGE	26
STOCKWATER	40
MUNICIPAL	0
DOMESTIC	84
INDUSTRIAL	0
RECREATION	0
FISH	377
OTHER:COMMERCIAL	0
INTERSTATE	1,777
TOTAL DIVERSIONS.....	13,952
DELIVERIES FROM STORAGE	
IRRIGATION	15
DOMESTIC	0
STOCK	0
INDUSTRIAL	0
RECREATION	0
OTHER:FISH	0
TOTAL DIVERSIONS.....	15
DELIVERIES FROM TRANSBASIN	
IRRIGATION	0
STORAGE	0
MUNICIPAL	0
STOCK	0
TOTAL FROM TRANSBASIN.....	0
DUTY OF WATER:	
TOTAL TO IRRIGATION	11,663
ACRES IRRIGATED	1,588
ACRE-FEET DIVERTED PER ACRE	7.34
NUMBER OF STRUCTURES OBSERVED	183
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	78
-INFREQUENT STRUCTURES	22
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	35
-NOT USED (A,C,D, CODES)	48
-NO INFORMATION AVAILABLE (F CODE)	0
NUMBER OF DITCHES, SURFACE RIGHTS	119
NUMBER OF RESERVOIRS	22
NUMBER OF WELLS	29
NUMBER OF OBSERVATIONS	1,611

**2002 IRRIGATION YEAR SUMMARY  
DISTRICT 78**

	ACRE-FEET
DIRECT DIVERSIONS	
IRRIGATION	14,863
STORAGE	11
STOCKWATER	63
MUNICIPAL	2
DOMESTIC	15
INDUSTRIAL	0
RECREATION	0
FISH	210
OTHER:COMMERCIAL	39
TRANSMOUNTAIN-TRANSBASIN	91
TOTAL DIVERSIONS.....	15,294
DELIVERIES FROM STORAGE	
IRRIGATION	210
DOMESTIC	0
MUNICIPAL	849
STOCK	0
INDUSTRIAL	0
RECREATION	0
TRANSBASIN-	0
TRANSMOUNTAIN	0
OTHER:COMMERCIAL	0
TOTAL DIVERSIONS.....	1,059
DELIVERIES FROM TRANSBASIN	
IRRIGATION	54
STORAGE	750
MUNICIPAL	1,466
STOCK	0
TOTAL FROM TRANSBASIN.....	2,270
DUTY OF WATER:	
TOTAL TO IRRIGATION	15,127
ACRES IRRIGATED	3,940
ACRE-FEET DIVERTED PER ACRE	3.84
NUMBER OF STRUCTURES OBSERVED	288
WATER RUN-NO INFORMATION AVAILABLE (E CODE)	0
ACTIVE DIVERSIONS-DAILY	94
-INFREQUENT STRUCTURES	65
INACTIVE DIVERSIONS-NO WATER AVAILABLE (B CODE)	75
-NOT USED (A,C,D, CODES)	53
-NO INFORMATION AVAILABLE (F CODE)	1
NUMBER OF DITCHES, SURFACE RIGHTS	175
NUMBER OF RESERVOIRS	65
NUMBER OF WELLS	28
NUMBER OF OBSERVATIONS	2,407