

# STATE OF COLORADO

**DIVISION OF WATER RESOURCES  
WATER DIVISION FIVE**

Office of the State Engineer  
Department of Natural Resources

50633 U.S. Hwy 6 & 24  
P.O. Box 396  
Glenwood Springs, CO 81602  
Phone (303) 945-5665  
FAX (303) 945-8741



Roy Romer  
Governor  
James S. Lochhead  
Executive Director  
Hal D. Simpson  
State Engineer  
Orlyn J. Bell  
Division Engineer

February 6, 1995

Hal D. Simpson  
State Engineer  
Division of Water Resources  
1313 Sherman Street, Room 818  
Denver, CO 80203

Dear Hal:

On behalf of the staff of Division 5, I submit the Annual Report for 1994.

I would like to express special thanks to the Division 5 personnel as well as you and your staff for the help and support in fulfilling the various responsibilities of water administration in Division 5.

Respectfully submitted,

Orlyn J. Bell  
Division Engineer

:nch

1994

ANNUAL REPORT

DIVISION 5

DIVISION OF WATER RESOURCES

## STATE OF COLORADO

OFFICE OF THE STATE ENGINEER  
Division of Water Resources  
Department of Natural Resources


1313 Sherman Street, Room 818  
Denver, Colorado 80203  
Phone (303) 866-3581  
FAX (303) 866-3589



Ray Kennes  
Governor  
Ken Salazar  
Executive Director  
Hal D. Simpson  
State Engineer

November 25, 1992

**MEMORANDUM**

**TO:** Division Engineers and Section Managers  
**FROM:** Will Burt   
**SUBJECT:** Annual Report - Draft Revised Outline and Definitions

Attached is the revised outline proposed for this year's annual report. This outline and definitions were developed at a work group meeting held in Denver on November 9th. Participants were Alan Berryman, Orlyn Bell, Ed Blank, Steve Lautenschlager, Ken Beegles, and Ken Knox.

I ask that participants at that meeting check this outline to ensure my interpretation and notes are correctly described.

If you object to the format or definitions of this revised outline, please let me know as soon as possible so that this can be settled in time such that annual reports are not delayed.

I expect to "tune up" the tables so that they are usable in each Division Office.

cc: Hal Simpson

# TABLE OF CONTENTS

PAGE

<b>I.</b>	<b>WATER ADMINISTRATION</b>	<b>1-17</b>
A.	1994 WATER YEAR	1
1.	Accomplishments	1
2.	Milestones in Water Issues	6
3.	Involvement in the Water User Community	8
4.	Water Issues Not Addressed	9
5.	Effects of Workload Changes and/or Administrative Limitations on Operations	11
B.	1995 WATER YEAR	14
1.	Key Objectives	14
2.	Changes That Will Impact The Division	17
<b>II.</b>	<b>WATER ADMINISTRATION DATA SUMMARIES</b>	<b>18-36</b>
A.	Transmountain Diversion	
1.	Inflows	18
2.	Outflows	19
B.	Storage Water	20
C.	Water Diversions	33
D.	Water Court Activities	35
E.	Colorado River Calls	36
<b>III.</b>	<b>OFFICE ADMINISTRATION AND WORKLOAD MEASURES</b>	<b>37-40</b>
A.	No. of Water Court Applications	37
B.	No. of Water Court Applications By District	37
C.	No. of Structures in New Water Court Applications By District	37
D.	No. of Protests to 1992 Abandonment List By District	37
E.	No. of Protests to 1984 Abandonment List By District	37
F.	Orders By Type and District	37
G.	Personal Reimbursable Mileage	38
H.	Mileage for Lease Vehicles	39
I.	Epilogue From Water Commissioner Robert Klenda	40

ANNUAL REPORT  
WATER DIVISION 5

I. WATER ADMINISTRATION

A. 1994 WATER YEAR

Overall, this was considered to be a poor water year with below average hay and grain crops. Fruit growers did fairly well, however. The better-than-average early snowpack became increasingly dismal as spring continued. Warm and dry was replaced by hot and dry. Many records fell for both within the basin. Fortunately, the excellent year before provided base flows that seemed to extend stream flows beyond what could be expected. The heavy late October snows brought the irrigation season to an abrupt close.

1. Accomplishments

a. Water Administration

For the second year an official call for Green Mountain power and storage water was placed by the U. S. Bureau of Reclamation (USBR). The priority system administration of the Blue River and all its exchanges, agreements, and augmentation plans is upon us. We will be years developing all the spreadsheets required to sort through and develop records of use. We are, however, soundly started in the process.

Public Service Company's Shoshone Power Plant called the upper river on June 29th which continued most of the year. Cameo (the Grand Junction area rights) called on July 15th. Division personnel continued total river administration with daily calculations and release adjustments until October 24th. Personnel continued refining the method for setting weekly numbers for the call and also refining consumptive use calculations for West Slope replacements. Spreadsheets were developed to account for water in several major systems. In collaboration with Division 6 personnel, we developed and implemented a spreadsheet to allocate replacement water.

It was business as usual on the side tributaries with their individual problems addressed as necessary. However, because of the limited snowpack, runoff was earlier than usual and calls came quick and deep. However, even with limited precipitation and hot weather, most held up very well which provided good total diversions for the senior priorities. The very steady low flows made for an easier-than-normal administration year.

**1994 Annual Report  
Water Division 5**

b. Dam Safety

Total number of inspections performed by all Division 5 personnel = 108, which consist of the following:

Ninety-one (91) inspections performed by Dam Safety Engineer:

- 2 Class 4 dam routine inspections
- 17 Class 3 dam routine inspections
- 26 Class 2 dam routine inspections
- 21 Class 1 dam routine inspections
- 7 construction inspections
- 3 outlet inspections
- 15 follow-up inspections

Seventeen (17) inspections performed by Water Commissioners:

- 15 Class 2 dam inspections
- 2 Class 3 dam inspections

Additionally, the controlled total breaching of Warren Lakes (District 38) and Rapid Creek No. 1 (WD 72) was engineered and viewed as was the partial breaching of Bolts Lake (WD 37). A toe drain was installed at Consolidated Reservoir (WD 38) and minor repairs made to several other dams.

Special problems included the failure of an illegally built dam (Frank Daly in WD 45) and a piping failure of Carpenter Reservoir (WD 38). Property damages occurred but no loss of life.

Fifteen (15) hazard re-evaluations were made including 9 on the north side of Grand Mesa in the Bull and Coon Creek drainages.

A "Heavy Snowmelt Hydrology Method" was developed that can be used for analyzing performance of dams during heavy spring runoff. This can be used in future situations, as well.

c. Hydrographic Program

This was a year when shifts at all gaging stations were critical. The struggle continued for getting timely measurements and shifts from the U.S. Geological Survey (USGS). The most critical gage for the river call, *Colorado River Near Cameo*, had drastic changes in shift when the discharge was dropping and approaching the call amount. Direct communication with the USGS in getting timely measurements either by phone or computer is continuing to improve.

**1994 Annual Report  
Water Division 5**

The new pressure transducers installed at Williams Fork and Rifle Gap Reservoirs have not worked very well this year. The one at Williams Fork has been returned for factory service repair twice; the one at Rifle Gap has not tracked very well during the rising and falling levels.

Forty-six (46) stream measurements and 74 canal and ditch measurements were made during the year; 12 gaging stations were maintained with records computed; and 22 DCP's were maintained.

d. Ground Water and Well Permitting

Colorado's strong economy during 1994 can be seen in ground water and well permitting activity. Research regarding well permits for proposed and existing wells created a high demand on resources in the Division 5 office. Additionally, the passage of H.B. 94-1289 requiring change in ownership for water wells created additional increased work load. This increased work load consisted of assisting in completion of "Change In Ownership" forms and the associated research.

During calendar year 1994 a total of 957 well permits were approved:

- 636 exempt
- 208 non-exempt (144 per Aug Plans, 64 per conservancy district contracts)
- 47 replacement (exempt)
- 0 replacement (non-exempt)
- 28 late registrations
- 38 monitoring wells.

Additionally, 217 monitoring and observation hole acknowledgements were approved.

Pre-processing well permit applications was a great success during 1994. The total number of pre-processed applications nearly doubled from 1993 to 1994 with a total of 266 applications reviewed and pre-processed during calendar year 1994. Average turnaround time on pre-processed applications improved, thus assisting in the reduction of permit application backlog.

Well inspections stayed constant during IY 1994 (not including water court cases) and are classified as follows:


- 12 = 600-ft. Spacing
- 13 = Statement of Beneficial Use (SBU)
- 28 = Late Registration
- 4 = Verbal
- 6 = Other (Complaints, SEO Requests, Expanded Use Not Approved, etc.)
- 63 Total



## 1994 Annual Report Water Division 5

Benefits of H.B. 92-1008 were still seen during 1994 eliminating numerous field inspection requests. Reduction of field inspections for 600-ft. spacing on non-exempt wells servicing a residential site and classifying monitoring wells as exempt--which eliminated SBU inspection requests--has improved resource allocations. It should be noted that a backlog of SBU field inspection requests still exists and has increased during 1994. Currently the SBU inspection requests get very low priority and are completed on an as-needed basis, often stimulated by real estate transactions or water court cases requiring accepted SBU's.

Increased workload occurred because of uptick in proposed county exemptions. Referrals from counties to the Division 5 office on general water supply information takes a lot of time with the public.



Suggestions for 1995 include tracking well locations with more accurate up-to-date information. Improved information must tie well permits and change in ownerships to county parcels, identifying parcel numbers or tax schedule numbers. This will be assisted by advancements in technology in the area of GIS mapping and computer databases. The trading and sharing information with counties need also occur.

The statement "The amount of water does not always reflect the worth of the water" can be made in regard to ground water and water wells.

### e. Water Records and Information

The quality of record collected continues to be refined, improving consistency from year to year. Additional record was collected on structures with previously "no information available" as well as on new structures. However, construction of new structures continues to outpace these additions to the record. As a result, the overall percentage of structures with record versus active structures has declined. The increasing number of small augmentation plans and small surface structures irrigating minor acreages present the biggest challenges and will require a (*paradigm*) shift in our methods if we are to keep up.



### f. Special Projects

The Division completed the QA/QC Program to correct the historic diversion records database for critical structures in Districts 38, 39, 45, 50, 52, 53, and 70.







## 1994 Annual Report Water Division 5

The corrected databases are a necessity for future modelling and data analysis under Colorado River Decision Support System (CRDSS). The Division also began corrections for District 72 diversion records for all structures in the district. Recent improvements in the way the data is coded have made this a monumental project. The corrected and signed records will become the "official record" for the water data bank.

A final decree was issued in Water Court Case No. 90CW111 on September 26, 1994. This decree awarded reserved rights for 181 BLM springs and water holes in Division 5. Prior to issuance of the final decree, the springs were all plotted on maps and a list of possible problems (i.e., duplicate entries, errors in legal descriptions, conflicts with existing water rights, etc.) was compiled and sent to BLM. After several conferences, all problems were resolved and a final decree issued. The water rights were then entered into the tabulation and a listing of the rights for each district was sent to the Water Commissioners for plotting on their maps and for future administration.



Members of the Division 5 staff continued to participate in the "SWAT" team discussions involving Colorado River administration. The team consists of city, county, state, and federal officials and was originally formed as a discussion group to resolve administration of Green Mountain but has also tackled accounting problems associated with the Dillon Reservoir and Green Mountain Reservoir refill cases, and the Clinton Gulch Reservoir agreement. It is hoped that this cooperative effort to reach a consensus in a technical forum will minimize opposition to a final decree on the refill cases and help to reach an early settlement in the courts. The group adopted mutually agreeable accounting principles for administration of the three reservoirs in 1994 and has now expanded the forum to other issues including Grand Valley Water Management Study, Homestake/Eagle Valley "Water Trading" Plans, Denver's PACSM Modelling Project, Vidler agreements with U.S. Bureau of Reclamation (USBR), and the Consolidated Reservoir Operations Study.



A total of 364 water right applications in Division 5 were filed during 1994. Of those applications, 52 were applications involving augmentation plans. Many of these applications require significant effort on the part of Division 5 employees to prevent decrees from being issued which cannot be administered properly or which injure existing water rights. Most of the applications must be field inspected by the Water Commissioners, who then file a written report and make recommendations to the Division Engineer. After a thorough review of the Water Commissioners' reports and the application, the Division Engineer consults with the Denver staff and makes his summary of consultation to the court.

**1994 Annual Report  
Water Division 5**

The irrigated acreage project of CRDSS is completed through the submittal of mapping and data to the USBR. All that remains is checking the USBR's work against our mapping and incorporating the final data into our structure lists. The project will be completed by March 31, 1995.

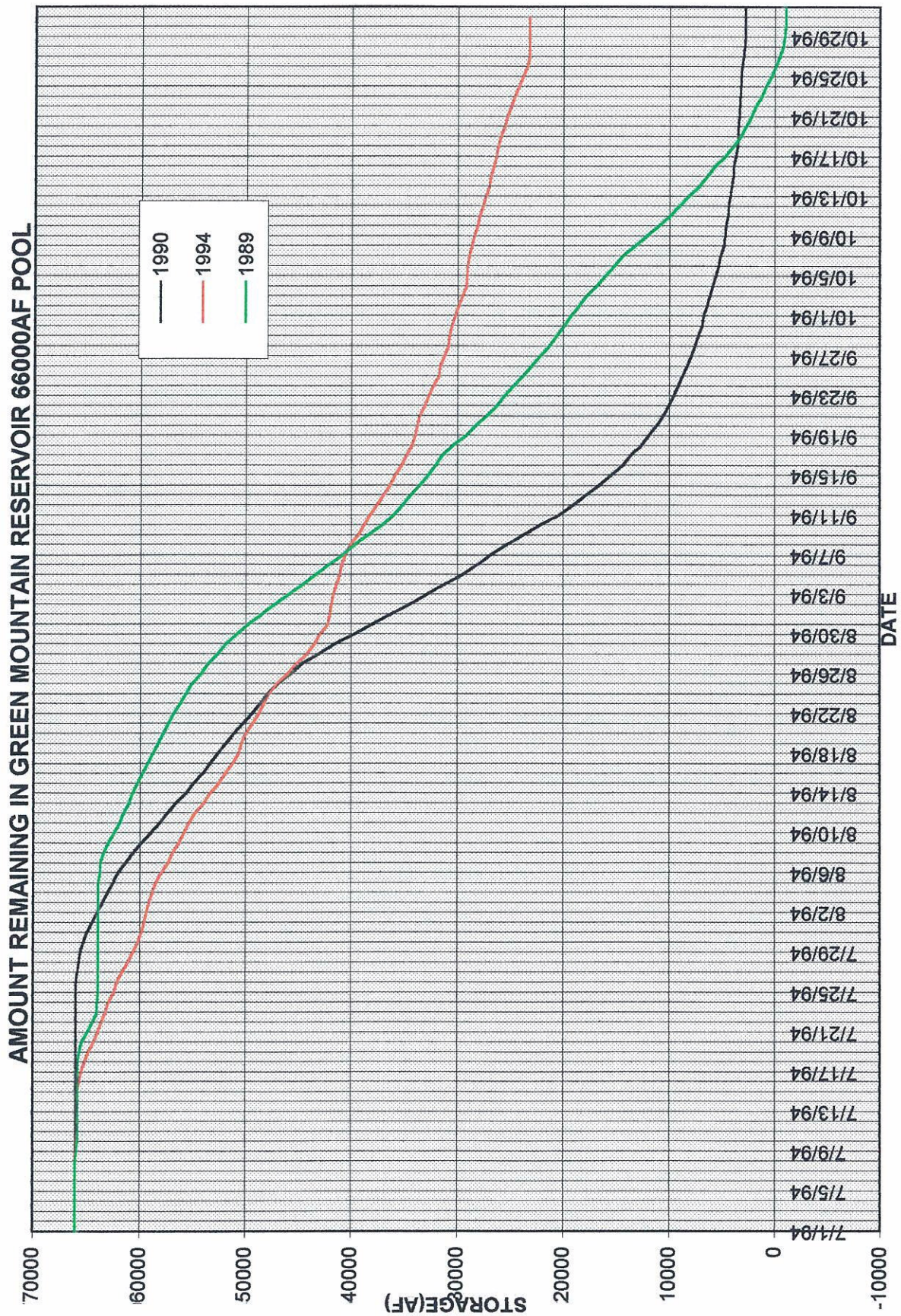
The 1994 Tabulation was published in July 1994. Tremendous progress was made since the 1992 publication but the tabulation continues to have the following deficiencies: In WD 36 nothing has been entered since 1988 and all augmentation decrees need to be re-tabulated to bring up to current standards. In WD 37 all augmentation plans in the Gore Valley need to be re-tabulated. In WD 38 nothing has been entered since 1990.

2. Milestones in Water Issues

- a. With the May snowpack at 85% and with the possibility of Green Mountain Reservoir not filling, the Division Engineer initiated bimonthly meetings with the managers of Grand Valley Irrigation Canal, Grand Valley Water Users Association, Orchard Mesa Irrigation District, U.S. Bureau of Reclamation, and U.S. Fish and Wildlife Service for the purpose of coordinating Green Mountain releases, including check structure operation and Ruedi releases. Thus a safety net was put in place designed to insure wise use of the resources available. This occurred throughout the summer and fall even with the very contentious check case 91CW247 in full litigation mode. The table on the next page graphically represents the Green Mountain historic users pool as against two other dry years.
  
- b. A complicated set of exchanges which included the storage of 5,729.98 AF of Colorado River water into Twin Lakes and then the later bypass of decreed transmountain diversion flows at Grizzly Dam effectively exchanging 708.3 AF back up to Green Mountain, was designed and coordinated by the Division office. The USBR, Southeastern Water Conservancy District, Twin Lakes Canal Company, Pueblo, Colorado Springs, Colorado River Water Conservation District, U.S. Fish and Wildlife Service, Pitkin County, and Grand Valley Water Users were all on board in this win/win/win endeavor. Fortunately, weather patterns changed in the late summer and the insurance storage was not needed.
  
- c. With the Clinton agreement in its infancy and functioning in Summit and Grand Counties, attention has been turned to Eagle County. The potential to managing water to benefit more parties is there. The Eagle County Forum is working on ways to utilize storage from Climax and Aurora-Colorado Springs to mitigate potential shortages in the Eagle River.

Revised page 3/15/95

Chart1



**1994 Annual Report**  
**Water Division 5**

- d. Legislation was drafted and passed coordinating language between the well permitting process and diligence for ground water rights. This was a mutual effort as a result of channels of communication opened through meeting with the local Bench-Bar Committee.
- e. Also following through with Bench-Bar discussion, many water right applications were negotiated to satisfactory decrees rather than litigated, as would have been done in years past.
- f. Water Commissioners and Division staff placed Four Mile Creek on notice that administration of out-of-priority domestic diversions would begin, kicking off a water range war of sorts between the Sunlight Water Company and the West Divide Water Conservancy District. Existing users need augmentation coverage and growth pressure is extreme. Several State Engineer Office-approved substitute supply plans are in place with Water Court applications in process.
- g. OMID-USBR - 91CW247 - The "Check" Case

The application to adjudicate the historic "check operation" has blossomed into a full-blown attempt to solve all future decisions regarding the operation of Green Mountain Reservoir, incorporating into it wet year/dry year differences with protections for late season municipal users from irrigators while providing water for transmountain diversions and endangered fish. Also included are specific attacks on some of the lower river decrees and the beneficial use-wastage-water salvage issues in the Grand Junction area. These are extremely important issues that need to be addressed but seem inappropriate in this case. However, at the present, it's the only forum that the attorneys have available to them!

3. Involvement in the Water User Community

Bench-Bar Committee involvement and water SWAT team meetings are water-user community efforts at solving water issues. Efforts to identify and address water conservation (salvage) in the Grand Junction area are under way with a Memorandum of Agreement (MOA) and frequent meetings with the USBR, Colorado Water Conservation Board, Colorado River Water Conservation District, and SEO personnel.

The Division Engineer has been carefully reviewing each new augmentation plan. It is imperative that he work with applicants' engineers and attorneys to make these plans acceptable for water administration. Establishment of accounting procedures for each is of utmost importance. Many, many problems and misconceptions have been resolved before decrees were signed.

Revised page 3/15/95

## 1994 Annual Report Water Division 5

The Division office continues to facilitate usage of our records and data by the public. The more accurate tabulation, decree books with indexes, updated structure lists, well permit information, organized diversion data, combined with a concerted effort to assist anyone with questions has brought this about. The office provides a convenient place for them to work.

Specific meetings were held with: Mesa and Spring Creek water users, Bull Creek water users, Mesa County Planning Association, Big Creek water users, Pitkin County and Aspen planners and attorneys, realtor groups, Well Drillers Association, Northwest Council of Governments, Colorado River Water Conservation District, U.S. Bureau of Reclamation, Denver Water Conservation Board, Northern Colorado Water Conservancy District, West Divide Water Conservancy District, Collbran Water Conservancy District, Basalt Water Conservancy District, and numerous ditch companies.

This year we participated in the Youth in Natural Resources Program with excellent results. A local high school student trained intensively both in the office and in the field. Several staff were involved with Youth Water Day programs. Staff participated actively as lecturers, panel moderators, or in any capacity as educators in water-related activities throughout the Division.

#### 4. Water Issues Not Addressed



New diversion demands on a limited water supply are creating additional pressure on the resource.

- a. Currently the cost/benefit ratio of agriculture is marginal. Therefore, there is little incentive to use water and maintain agriculture as historically practiced. As a result ranches are being divided up into smaller acreages. Growth pressures are driving this process even faster. This is our Number One issue.
- b. The rapid growth in the high country and associated ski industry demands, including water for snowmaking [many court cases as well as the Summit County, Clinton Reservoir, and Fraser River agreements are examples], has necessitated not only more augmentation plans but increasingly complex augmentation plans requiring more manpower and expertise in administration.
- c. East Slope demands such as Windy Gap, Northern Colorado's major transmountain water diversion, will eventually effectively deplete any excess water in the Upper Colorado River, requiring more stringent administrative practices. The exchange pool from Windy Gap for the Middle Park Water Conservancy District will create additional measurements and accounting to track water exchanged up



**1994 Annual Report  
Water Division 5**

the Blue River for snowmaking and municipal uses. We are even seeing pipelines heading south from the Colorado-Big Thompson and use changes occurring on the Eastern Slope with transmountain water.

- d. Previously, agreements were signed with Summit County enabling augmentation plans and growth to proceed in the Upper Blue River with a uniform approach and protection for Denver water rights. Those have run headlong into minimum streamflow filings by the Water Conservation Board. This will create need for careful winter administration of the exchanges involved. The concept is there but not the mechanism for accounting.
  - e. A major agreement was worked out which basically gives Western Colorado a number of storage reservoirs for their usage, gives Northern Colorado several storage reservoirs for their replacement usage, and gives the Denver Metro area use of the Blue River and Williams Fork River, including Green Mountain Reservoir. Fortunately, all of this will be developed very slowly which gives us time to work out the administrative details. Wolford Reservoir is currently under construction at Kremmling.
  - f. The entry and demise of the oil shale industry has affected Division 5. Conditional water rights have been left undeveloped; water rights that were transferred from agriculture to industrial uses have been left standing; and once farmed lands are turning to sagebrush. Oil prices will rise again and therefore the industry is protecting its rights but the population growth pressures from oil shale development have been replaced by pressures from the tourism/recreation industry.
  - g. Further downstream the Central Arizona Project is using more water and so far has taken it from California. Someday this will affect administration in Colorado also and we should be prepared for it.
  - h. San Diego, Las Vegas, and other cities are looking for water with interstate sales and transfers being actively contemplated. The latest of these proposals is combined with (f) above and is called The Roan Creek Project. "Las Vegas will build Chevron Oil's reservoir near DeBeque and use the water for 50 years until needed in Colorado." The governor's office and the Colorado Water Conservation Board are opposed to this proposal.
  - i. Finally, as economics and/or quality issues dictate water conservation efforts or as water conversion takes place, hard decisions will have to be made as to how to handle the windfall of freed water. Lacking legislative action, existing law will prevail with either a water transfer application or administrative action triggering court involvement.
- 
- 




**1994 Annual Report  
Water Division 5**

- The Grand Valley Salinity Project is freeing water historically returned to the river as runoff. What should or will happen to the water historically called that will not be needed for decreed use? The environmental, political, legal, and socioeconomic issues of this problem are major. The feds and Colorado Water Conservation Board assume the "conserved" water will automatically go to the endangered fish in the 15-mile reach.
- As each change of water right takes place, no matter what the size or location, the same windfalls are potentially available for salvaged and saved water.

5. Effects of Workload Changes and/or Administrative Limitations on Operations

The increased efforts in communications within and outside of the agency as well as expanded public interaction takes time but pays dividends in acceptance by the water-using public. In these times of funding shortages and personnel cuts, this will be harder to do.




Additional water rights add to the administrative and record keeping processes each year. They also require vast amounts of personnel time in their investigation and decretal process (245 decrees this year involving 984 structures).

The recent agreement to provide quality control for GIS irrigated acreage assessment with the USBR tied up a lot of water commissioner time. However, the CRDSS acreage and QA/QC data clean-up efforts will benefit us all.

The reassignment of reservoir inspections for Districts 50 and 51 was absorbed by other Division 5 personnel as reservoir/dam safety engineer was already functioning beyond a reasonable limit. This shortened the time for tabulation of rights.

Additional items not updated as needed are: (1) The structure lists are about three years outdated; (2) The tabulation is only complete to 1988; (3) Augmentation plans haven't been tabulated in several districts and need redone in all; (4) Accounting for augmentation usage is poor in some districts and non-existent in others.

We essentially lost a year in working on the items in the paragraph immediate above due to the SMQ and PDQ (System Maintenance Questionnaire and Personnel Description Questionnaire) time-consuming demoters that were required last year.



The Fair Labor Standards Act (FLSA) forced a real change in work patterns that we are still struggling with. Water runs by natural occurrences and, therefore, working with it doesn't fit a nice "8-to-5" pattern or a 5-day work week or even a 280-day evenly distributed work year. All kinds of prior efficiencies are disrupted.




**1994 Annual Report**  
**Water Division 5**

Impact of the Budgets on Operations

Perhaps our most immediate need is for additional clerical staff. We have covered for the last several years by arranging to use three months' vacancy savings from other areas. In 1991 three months were specifically set aside for this purpose but were lost to legislative cuts.

We do not have enough FTE's to put Water Commissioners in each water district. Additionally, 11 of the 17 water commissioners are part-time employees and the seasonal nature of their employment severely hampers the updating of structure lists, administrative lists, tabulations, maps or any other non-direct water administration activity. Another problem is that as the jobs are becoming more complex, adequate training is harder to achieve. The pressure for part-timers to seek full-time employment is a problem. Two-thirds of the Water Commissioner work force is in this situation.




Not only were we short in human resources but operating funds were precariously low. We had only enough to provide us with minimal supplies. High-tech machinery required to operate is costly. Inflationary replacement costs are the biggest budget busters with telephone, FAX, and copy machine taking an increasingly larger bite.

In travel, we curtailed on a percentage basis from previous years' expenditures. It is in this area that it's easiest to make up deficiencies. As we travel less, we will have to rely on other avenues for information. We received additional travel money but with FLSA and other must-do time users, such as time sheets and PDQ reports, travel workload cannot be maintained. We've opted to use more user-supplied data.

For the fifth year in a row expenditures matched the budget; however, mileage was adjusted to provide all the needed other operating items. This is a very undesirable situation. We have to be adding money for mileage so that the Water Commissioners can do their job but we also have to have the time for them to work.

Operational Concerns

In order of importance based on what happened last year, I believe that toeing the line on expenditures will be more difficult without decreasing service. Training needs of the new employees will be critical, or even more critical: how do we provide service without the employees?



Field inspections regarding abandonments, water right applications, and well replacements will also be costly, time consuming, and necessary.



**1994 Annual Report**  
**Water Division 5**

Quality control and data handling capability with systems designed for user-supplied data is becoming increasingly important and will receive attention.

The Fair Labor Standards Act (FLSA) was imposed last year with unknowns on how it would affect us. It was hoped that additional mileage and overtime funded would balance the impacts. I now believe that regular operating was also affected and that some of the travel and overtime money needs to be reallocated to regular operating.

**1994 Annual Report**  
**Water Division 5**

**B. 1995 WATER YEAR**

**1. Key Objectives**

Our objectives are quite broad, yet simply stated are as follows:

★ **Water Rights Management**

- Establish the capability to administer a total river call prompted by either in-state priorities or an interstate water compact requirement.
- Uphold all other statutory duties of the State Engineer's Office.

★ **Water Records and Information**

- Provide the public with service regarding water usage.
- Address the public's needs in water resources.

In order to fulfill these Objectives, the following Goals must be attained:

- It is imperative that we have a complete and reliable tabulation of water rights. (We should have a complete and reliable tabulation of permitted wells and, likewise, a complete and reliable dams database.)
- All water usage and consumption must be inventoried and we need to possess the ability to monitor the same on a real-time basis.
- We need to know where augmentation and exchanges are taking place and in what amounts.
- We must know the locations and amounts of the water supply at any given time.
- We have to fully develop our personnel and must have an educated public willing to cooperate with us. We must also work with the legislature and other governmental agencies in order to provide for our needs.

We can begin to reach these goals as more of the Work Projects below are completed.

**1994 Annual Report  
Water Division 5**

a. Projected Work Items for 1995

The usual business of:

Administration of water rights,  
Collecting and recording diversion data,  
Reservoir inspections,  
Well inspections,  
Reviewing water rights applications.

The following are specialized **Work Items for 1995 and beyond:**

- (1) Train Water Commissioners in:
  - Standardization of municipal record keeping.
  - Field inspecting augmentation plans.
  - Creating schematics and coding for augmentation plans.
  
- (2) Inventory all fee wells and generate records. (Proposal to spend SB-200 funds to accomplish was not funded)
  - Determine locations and establish mapping accordingly.
  - Determine usage.
  - Determine compliance with permit and decree.
  - Prepare ownership directory.
  - Send orders.
  - Sort WELLBROW database for fee wells and cross reference for ID's.
  - Establish GIS subdivision layer.
  
- (3) Lower the "NUC - No Information Available" level by 30 in each Water District.
  
- (4) For Augmentation Plans:
  - Finish tabulation of augmentation plans (all districts complete but WD 36 & WD 38).
  - Establish an augmentation plan database that can be used for administration.
  - Establish an accounting system for each active augmentation plan (for one major and five minor augmentation plans per district each year).
  - Install control structures and measuring devices as necessary.
  - Obtain field data.
  - Administer.





**1994 Annual Report**  
**Water Division 5**

- (5) Develop computer accounting spreadsheets for:
  - Vidler Tunnel Project
- (6) Design system to solicit user-supplied information on wells and ground water diversions. (Proposal to spend SB-200 funds to accomplish)
- (7) Complete backlog of hydrographic records.
- (8) Verification of historic data QA/QC (need 8 man-months)

b. Problems, Concerns, Limitations to Overcome

The main concern is the reduced ability of the staff to accomplish all that needs to be done in almost any area. The continuing areas of concern are:

- 
- Staff to handle the river accounting along with aug plan accounting and data user-supplied disks for some.
  - Number and complexity of Augmentation Plans are prohibitive to administer with existing staff until software and databases are developed along with appropriate accounting sheets.
  - Some work is still needed on the tabulation. We need to include augmentation entries for Districts 36 and 38 and revise for all others.
  - Fifteen percent of diversion structures have no record at all, while others are very minimal with a smattering of user-supplied data.
  - Active administration of springs, wells, and gravel pits will be difficult as well as counterproductive if water volume were the main criteria.
  - Staff gages and capacity tables are still needed for many reservoirs.
  - Well inspections need to be increased as inconsistencies are increasingly evident.
  - Budget constraints are deepening for ordinary operating monies.
  - Judicial decisions (while much better) continue to be made with immediate caseload efficiency in mind rather than astute sensitivity to water laws wherein stipulated settlements are reached.
- 



**1994 Annual Report  
Water Division 5**

- New referee is training on the job; is willing to get rulings correct but does little investigating of facts. Our field investigations are increasingly important.

2. Changes That Will Impact The Division

The #1 issue in Colorado this year seems to be population growth. That coupled with continued pressure to shift water uses to environmental protection mandate better efficiencies with less wasteful consumption. Water administration will have to become more of an exact science with better equipped and trained administrators. The CRDSS program is heading us in that direction and will be a great tool when fully developed.

TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS

1994

RECIPIENT 1983-1992										SOURCE		
WD	ID	Name	Stream	10-Year Average		Current Year		WD	ID	Stream		
				AF	Days	AF	Days					
36	4677	ARKANSAS WELL	TENMILE CREEK	69.8	130	150.0	365	11		ARKANSAS RIVER		
37	4677	ARKANSAS WELL	EAST FK EAGLE RIVER	0.0	0	28.0	31	11		ARKANSAS RIVER		
38	4682	ROARING FORK BYPASS FLOW	ROARING FORK RIVER	1609.6	282	1,360.0	304	11		TWIN LAKES		
45	577	DIVIDE-HIGHLINE FEEDER	DIVIDE CREEK	1,312.8	59	1,013.5	41	40		CLEAR FORK MUDDY CREEK		
50	4600	SARVIS CREEK DITCH	RED DIRT CREEK	1,336.4	199	1,067.0	175	58		SARVIS CREEK		
53	4716	DOME CREEK DITCH	EGERIA CREEK	251.1	48	399.7	56	58		BEAR CREEK		
53	4715	STILLWATER DITCH	EGERIA CREEK	1,929.1	102	1,593.7	107	58		BEAR CREEK		
72	4713	REDLANDS POWER CANAL	COLORADO RIVER	531,730.9	355	518,318.0	356	42		GUNNISON RIVER		
72	4711	GRAND JUNCTION MUNICIPAL	COLORADO RIVER	7,053.1	365	7,682.0	365	42		KANNAH CREEK		
72	4712	FRUITA WATER WORKS	COLORADO RIVER	84.5	73	0.0	0	73		LITTLE DOLORES RIVER		
				TOTAL:		531,611.9						

TRANSMOUNTAIN DIVERSION SUMMARY - OUTFLOWS

1994

RECIPIENT										SOURCE		
WD	ID	Name	Stream	10-Year Average		Current Year		WD	ID	Stream		
				AF	Days	AF	Days					
7	4658	STRAIGHT CREEK TUNNEL	CLEAR CREEK	417.5	292	327.0	365	36		STRAIGHT CREEK		
7	4626	VIDLER TUNNEL	CLEAR CREEK	731.2	95	465.0	31	36		SNAKE RIVER		
23	4685	BOREAS PASS DITCH	TARRYALL CREEK	74.9	30	90.0	42	36		BLUE RIVER		
23	4699	HOOSIER TUNNEL	MAIN FORK OF SO. PLATTE RIVER	10,577.4	148	8,277.0	131	36		BLUE RIVER		
80	4684	ROBERTS TUNNEL	MAIN FORK OF SO. PLATTE RIVER	51,642.3	221	71,709.0	306	36		BLUE RIVER		
11	4641	COLUMBINE DITCH	TENNESSEE CREEK	1,653.7	111	1,469.0	91	37		SO. FORK OF EAGLE RIVER		
11	4642	EWING DITCH	TENNESSEE CREEK	1,011.8	139	796.0	165	37		SO. FORK OF EAGLE RIVER		
11	4614	HOMESTAKE TUNNEL	SO. PLATTE VIA ARKANSAS RIVER	24,275.0	231	35,646.0	79	37		HOMESTAKE CREEK		
11	4648	WURTZ DITCH	TENNESSEE CREEK	2,228.2	113	2,074.0	106	37		SO. FORK OF EAGLE RIVER		
11	4625	BOUSTEAD TUNNEL	LAKE FORK CREEK	46,691.2	204	55,104.0	365	38		FRYINGPAN RIVER		
11	4613	BUSK-IVANHOE TUNNEL	LAKE FORK CREEK	4,775.2	174	4,101.4	197	38		FRYINGPAN RIVER		
11	4617	TWIN LAKES TUNNEL	LAKE FORK CREEK	40,718.2	355	42,592.5	362	38		ROARING FORK RIVER		
3	4601	GRAND RIVER DITCH	CACHE LA POUFRE RIVER	20,451.0	138	17,869.0	135	51		NO. FORK COLORADO RIVER		
3	4602	EUREKA DITCH	CACHE LA POUFRE RIVER	42.1	27	0.0	0	51		NO. FORK COLORADO RIVER		
4	4634	ALVA B ADAMS TUNNEL	BIG THOMPSON RIVER	241,891.5	358	243,824.0	365	51		NO. FORK COLORADO RIVER		
6	4655	MOFFAT TUNNEL	BOULDER CREEK	60,787.8	346	43,674.0	365	51		FRASER RIVER		
7	4625	BERTHOUD PASS DITCH	CLEAR CREEK	680.8	90	855.0	101	51		FRASER RIVER		
6	505	AUGUST P GUMBLICK TUNNEL	BOULDER CREEK VIA FRASER RIVER	INCLUSIVE IN MOFFAT TUNNEL					51		WILLIAMS FORK RIVER	
6	4603	VASQUEZ PIPELINE	BOULDER CREEK VIA FRASER RIVER	INCLUSIVE IN MOFFAT TUNNEL					51		WILLIAMS FORK RIVER	
40	758	LEON TUNNEL CANAL	SURFACE CREEK	1,744.8	87	1,640.0	88	72		LEON CREEK		
				TOTAL:				530,512.9				

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						End Of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
36	3533	BLACK LAKE	BLACK CREEK	1,997.2	11/01/93	1,997.2	10/31/94	1,997.2	10/31/94	1,997.2
	3535	BUFFEHR ENLG RESERVOIR	TENMILE CREEK	68.5	3/31/94	79.0	6/30/94	79.0	6/30/94	70.0
	3538	CATARACT LAKE	CATARACT CREEK	1,652.8	11/01/93	1,652.8	10/31/94	1,652.8	10/31/94	1,652.8
	3575	CLINTON GULCH RESERVOIR	TENMILE CREEK	3,970.0	6/12/94	4,410.0	6/30/94	4,362.3	6/30/94	4,362.3
	4512	DILLON RESERVOIR BRDP	BLUE RIVER	202,910.0	4/19/94	257,351.0	6/13/94	234,432.0	6/13/94	234,432.0
	3542	GOOSE PASTURE TARN	BLUE RIVER	922.0	11/01/93	922.0	10/31/94	922.0	10/31/94	922.0
	3543	GREEN MOUNTAIN RES	BLUE RIVER	68,326.0	5/01/94	135,150.0	7/01/94	80,201.0	7/01/94	80,201.0
	3548	HOAGLAND RESERVOIR NO 1	ELLIOTT CREEK	50.0	11/01/93	100.0	6/15/94	50.0	6/15/94	50.0
	3643	KEYSTONE POND	SNAKE RIVER	100.0	11/01/93	100.0	10/31/94	100.0	10/31/94	100.0
	3606	OFFICER GULCH POND	TENMILE CREEK	100.0	11/01/93	100.0	10/31/94	100.0	10/31/94	100.0
	3565	REYNOLDS RESERVOIR	SODA CREEK	20.7	10/31/94	157.0	6/13/94	20.7	6/13/94	20.7
	3569	UPPER BLACK CREEK RES	BLACK CREEK	273.0	11/01/93	273.0	10/31/94	273.0	10/31/94	273.0
	3570	UPPER BLUE LAKE RES	BLUE RIVER	479.5	5/31/94	2,119.3	8/31/94	0.0	8/31/94	0.0
	3571	WAY RESERVOIR	BEAVER CREEK	55.0	8/15/94	94.0	6/07/94	60.0	6/07/94	60.0
36		Total of All Others < 50 AF		181.0		249.5		188.0		188.0
36		Total For District 36		281,105.7		404,754.8		324,429.0		324,429.0



RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)							
				Minimum		Maximum		Date	End Of Year		
				AF	Date	AF	Date				
37	3600	BENCHMARK LAKE	EAGLE RIVER	125.0	5/03/94	130.0	11/01/93			125.0	
	3608	BLACK LAKE	GORE CREEK	326.0	11/01/93	326.0	10/31/94			326.0	
	3510	BLACK LAKE NO 2	GORE CREEK	90.0	11/01/93	90.0	7/08/94			90.0	
	3698	BOLTS LAKE	CROSS CREEK	38.0	11/01/93	42.0	5/03/94			38.0	
	3513	CHALK MOUNTAIN RESERVOIR	EAGLE RIVER	215.7	4/01/94	246.4	6/01/94			228.3	
	3699	CLIMAX MOLY NO 4 RES	EAGLE RIVER	0.0	7/11/94	15.0	11/01/93			0.0	
	4516	HOMESTAKE RESERVOIR	HOMESTAKE CREEK	23,534.0	5/01/94	42,731.0	8/01/94			28,875.0	
	3520	L E D E RESERVOIR	GYPSUM CREEK	100.0	10/31/94	324.0	11/01/93			100.0	
	3522	NOECKER RESERVOIR	EBY CREEK	25.0	10/31/94	159.0	6/15/94			25.0	
	3524	O Z LAKE (aka Sylvan Lake)	BRUSH CREEK	452.0	11/01/93	452.0	10/31/94			452.0	
	3527	ROBINSON RESERVOIR	EAGLE RIVER	1,800.0	7/11/94	2,100.0	11/01/93			1,800.0	
	3530	WELSH RESERVOIR	ALKALI CREEK	0.0	7/27/94	75.0	11/01/93			0.0	
37		Total of All Others < 50 AF		93.5		148.8				155.3	
37		Total for District 37		26,799.2		46,839.2				32,214.6	

1994

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						End Of Year
				Minimum			Maximum			
				AF	Date	Date	AF	Date	Date	
38	3711	ALICIA LAKE RESERVOIR	LIME CREEK	673.0	11/01/93	11/01/93	673.0	11/01/93	673.0	673.0
	4000	BEAVER LAKE	CRYSTAL RIVER	73.0	11/01/93	11/01/93	73.0	11/01/93	73.0	73.0
	3722	CONSOLIDATED RESERVOIR	WEST COULTER CREEK	0.0	8/12/94	3/15/94	866.0	3/15/94	6.0	6.0
	3774	CRAWFORD DAM NO 1	BLUE CREEK	160.0	11/01/93	11/01/93	160.0	11/01/93	160.0	160.0
	3773	CRAWFORD DAM NO 2	BLUE CREEK	56.0	11/01/93	11/01/93	56.0	11/01/93	56.0	56.0
	3721	CROOKED CREEK RES	LIME CREEK	40.0	11/01/93	11/01/93	40.0	11/01/93	40.0	40.0
	4095	FLANNERY RESERVOIR	THREE MILE CREEK	20.0	10/01/94	11/01/93	52.1	11/01/93	20.2	20.2
	3727	HIMMELAND RESERVOIR	FRYINGPAN RIVER	92.0	11/01/93	11/01/93	92.0	11/01/93	92.0	92.0
	3729	HUGHES RESERVOIR	THREE MILE CREEK	62.1	10/01/94	11/01/93	89.5	11/01/93	85.0	85.0
	3732	IVANHOE RESERVOIR	FRYINGPAN RIVER	587.0	7/05/94	6/01/94	1,087.0	6/01/94	0.0	0.0
	3832	JACOBSEN LAKES & PONDS	ROARING FORK RIVER	225.0	11/01/93	11/01/93	225.0	11/01/93	225.0	225.0
	3740	RALSTON RESERVOIR	COULTER CREEK	0.0	11/01/93	5/15/94	79.0	5/15/94	0.0	0.0
	3736	LAKE ANN RESERVOIR	SOPRIS CREEK	0.0	10/10/94	6/09/94	331.0	6/09/94	0.0	0.0
	3713	RUEDI RESERVOIR	FRYINGPAN RIVER	62,400.0	4/18/94	7/21/94	98,569.0	7/21/94	73,053.0	73,053.0
	3744	SPRING PARK RESERVOIR	CATTLE CREEK	148.8	10/31/94	6/01/94	1,673.0	6/01/94	148.8	148.8
	3747	THOMAS RESERVOIR	THOMAS CREEK	160.0	11/01/93	11/01/93	160.0	11/01/93	160.0	160.0
	3753	UPPER CHAPMAN RES	FRYINGPAN RIVER	119.0	11/01/93	11/01/93	119.0	11/01/93	119.0	119.0
	3750	VAN-CLEVE FISHER RES	MESA CREEK	0.0	11/01/93	5/05/94	260.0	5/05/94	0.0	0.0
	3759	WILDCAT RESERVOIR	SNOWMASS CREEK	1,100.0	11/01/93	11/01/93	1,100.0	11/01/93	1,100.0	1,100.0
	3760	WOODS LAKE RESERVOIR	LIME CREEK	300.0	11/01/93	11/01/93	300.0	11/01/93	300.0	300.0
38		Total of All Others < 50 AF		253.8			432.0		1,519.0	1,519.0
38		Total for District 38		64,949.9			104,578.6		76,311.0	76,311.0

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				Minimum		Maximum		End Of Year	
				AF	Date	AF	Date		
39	3927	CITY OF RIFLE POND NO 1	COLORADO RIVER	100.0	10/31/94	112.0	6/01/94	100.0	
	3505	GRASS VALLEY RESERVOIR	RIFLE CREEK	658.0	10/20/94	5,700.0	1/03/94	658.0	
	3506	HARRIS RESERVOIR	RIFLE CREEK	100.0	11/01/93	200.0	6/01/94	180.0	
	3940	MEADOW CREEK RESERVOIR	ELK CREEK	885.6	10/31/94	984.0	6/01/94	885.6	
	3941	MIDDLE FORK RESERVOIR	PARACHUTE CREEK	65.0	11/01/93	100.0	6/01/94	85.0	
	3507	PARK RESERVOIR	ELK CREEK	0.6	10/31/94	124.0	4/28/94	0.6	
	3508	RIFLE GAP RESERVOIR	RIFLE CREEK	2,516.0	9/30/94	12,312.0	2/25/94	4,141.0	
39		Total of All Others < 50 AF		35.0		56.9		37.0	
39		Total For District 39		4,360.2		19,588.9		6,087.2	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						End Of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
45	3524	ANDERSON POND NO 1	COLORADO RIVER	--	--	--	--	--	--	--
	3642	CENTENIAL LAKE	COLORADO RIVER	--	--	--	--	--	--	--
	3603	PORTER RESERVOIR	THREE MILE CREEK	20.6	9/10/94	206	5/06/94	19.60		
45		Total of All Others < 50 AF		26.16		73.89				29.44
45		Total For District 45		46.76		279.89				49.04

RESERVOIR STORAGE SUMMARIES BY DISTRICT

1994

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				Minimum		Maximum		Date	End Of Year
				AF	Date	AF	Date		
50	3644	ALBERT RESERVOIR	ALBERT CREEK	0.0	11/01/93	120.0	6/02/94	0.0	0.0
	3606	ANTELOPE RESERVOIR	ANTELOPE CREEK	5.0	7/20/94	346.0	5/19/94	25.0	25.0
	3651	BASIN RESERVOIR	MUDDY CREEK	5.0	9/12/94	90.0	7/01/94	5.0	5.0
	3645	BINCO RESERVOIR	TROUBLESOME CREEK	0.0	7/27/94	500.0	5/28/94	0.0	0.0
	3618	HINMAN RESERVOIR	PASS CREEK	325.0	8/17/94	611.0	6/01/94	350.0	350.0
	3623	LAKE AGNES	MUDDY CREEK	400.0	8/17/94	432.0	6/02/94	400.0	400.0
	3646	MARTIN RESERVOIR	MUDDY CREEK	0.0	8/03/94	180.0	5/22/94	25.0	25.0
	3625	MATHESON RESERVOIR	TROUBLESOME CREEK	0.0	7/22/94	1,073.0	5/24/94	0.0	0.0
	3627	MC ELROY RESERVOIR	PASS CREEK	0.0	11/01/93	240.0	5/17/94	0.0	0.0
	3629	MC MAHON RESERVOIR NO 2	RED DIRT CREEK	300.0	8/15/94	3,500.0	5/21/94	300.0	300.0
	3655	MILK CREEK RESERVOIR	MUDDY CREEK	30.0	11/01/93	100.0	5/15/94	30.0	30.0
	3656	NORTH MEADOW RESERVOIR (aka Martin Lily Pond)	MUDDY CREEK	0.0	11/01/93	153.0	5/30/94	0.0	0.0
	3631	OAKS RESERVOIR	MUDDY CREEK	7.0	9/12/94	45.0	6/03/94	8.0	8.0
	3632	PARSONS RESERVOIR	MUDDY CREEK	0.0	7/13/94	107.0	6/02/94	0.0	0.0
	3642	WHITELEY PEAK RESERVOIR	MUDDY CREEK	250.0	7/25/94	773.0	5/26/94	250.0	250.0
	3643	WOODS RESERVOIR	MUDDY CREEK	15.0	10/01/94	50.0	5/20/94	15.0	15.0
50		Total of All Others < 50 AF		77.9		319.0		99.9	99.9
50		Total For District 50		1,414.9		8,639.0		1,507.9	1,507.9

RESERVOIR STORAGE SUMMARIES BY DISTRICT

1994

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				Minimum		Maximum		End Of Year	
				AF	Date	AF	Date		
51	4006	BULL RUN RESERVOIR	WILLIAMS FORK RIVER	75.0	11/01/93	125.0	6/01/94	80.0	
	4012	COTTONWOOD RESERVOIR	GARDINER CREEK	60.0	10/31/94	129.4	6/14/94	60.0	
	3715	EAST BRANCH RESERVOIR	WILLIAMS FORK RIVER	1,450.0	11/01/93	2,000.0	6/01/94	1,500.0	
	3660	F W LINKE NO 2 RESERVOIR	TEN MILE CREEK	0.0	11/01/93	61.2	6/01/94	0.0	
	3665	HANKINSON RESERVOIR	FRASER RIVER	116.7	11/01/93	116.7	6/01/94	116.7	
	4009	JACK ORR RESERVOIR	COLORADO RIVER	245.0	11/01/93	245.0	6/01/94	245.0	
	3752	KINGS RESERVOIR	BUFFALO CREEK	256.0	10/31/94	352.0	6/01/94	256.0	
	4055	LAKE GRANBY	COLORADO RIVER	351,575.0	3/27/94	496,000.0	6/29/94	391,034.0	
	3679	LANGHOLEN RESERVOIR	BATTLE CREEK	8.0	8/10/94	64.0	6/01/94	9.0	
	3686	MEADOW CREEK RES	RANCH CREEK	1,197.0	10/31/94	5,603.0	5/31/94	1,197.0	
	3687	MOORE RESERVOIR	WILLIAMS FORK RIVER	45.0	10/31/94	120.0	6/01/94	45.0	
	3688	MUSGRAVE RESERVOIR	CORRAL CREEK	5.0	11/01/93	350.0	6/01/94	5.0	
	3693	ROCK CREEK RESERVOIR	ROCK CREEK	0.0	11/01/93	0.0	6/01/94	0.0	
	3694	SCHOLL RESERVOIR	CORRAL CREEK	0.0	11/01/93	285.0	6/15/94	0.0	
	3695	SHADOW MOUNTAIN RES	COLORADO RIVER	17,415.0	5/22/94	18,075.0	8/18/94	17,928.0	
	4051	SUN VALLEY RESERVOIR	NO. FORK OF COLO RIVER	72.5	11/01/93	72.5	6/01/94	72.5	
	3701	SYLVAN RESERVOIR	LITTLE MUDDY CREEK	0.0	11/01/93	850.0	6/04/94	0.0	
	3738	UTE CREEK RESERVIOR	WILLIAMS FORK RIVER	60.0	9/25/94	100.0	6/01/94	60.0	
	3709	WILLIAMS FORK RES	WILLIAMS FORK RIVER	63,991.0	4/19/94	91,143.0	7/04/94	66,063.0	
	3710	WILLOW CREEK RESERVOIR	WILLIAMS FORK RIVER	7,167.0	11/16/93	9,575.0	11/09/93	9,208.0	
51		Total of All Others < 50 AF		148.9		362.4		155.4	
51		Total for District 51		443,887.1		625,629.2		488,034.6	



1994

**RESERVOIR STORAGE SUMMARIES BY DISTRICT**

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						End Of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
53	3959	CLYDE RESERVOIR	EGERIA CREEK	0.0	11/01/93	66.0	6/01/94	0.0	0.0	
	3960	CRESENT LAKE RESERVOIR	DERBY CREEK	39.0	10/31/94	237.0	7/01/94	39.0	39.0	
	3961	ED W HARPER RESERVOIR	EGERIA CREEK	57.0	10/31/94	194.0	5/01/94	57.0	57.0	
	3962	EGERIA RESERVOIR	EGERIA CREEK	0.0	10/31/94	154.0	6/21/94	0.0	0.0	
	3966	GRIMES BROOKS RESERVOIR	RED DITCH CREEK	103.0	10/31/94	377.0	6/14/94	103.0	103.0	
	3968	HADLEY RESERVOIR	EGERIA CREEK	0.0	10/31/94	126.0	6/01/94	0.0	0.0	
	3971	HEART LAKE RESERVOIR	DEEP CREEK	2,585.0	10/31/94	3,060.0	5/01/94	2,585.0	2,585.0	
	3972	HIDDEN SPRINGS RESERVOIR	HORSE CREEK	50.0	10/31/94	50.0	6/01/94	50.0	50.0	
	3974	JONES NO 1 RESERVOIR	SHEEP CREEK NO 2	0.0	10/31/94	0.0	6/01/94	0.0	0.0	
	3975	JONES NO 2 RESERVOIR	SHEEP CREEK NO 2	49.0	10/31/94	300.0	5/28/94	49.0	49.0	
	3978	KELLY RESERVOIR	EGERIA CREEK	71.0	11/01/93	159.0	10/31/94	159.0	159.0	
	3982	LUARK RESERVOIR	SPRING CREEK	0.0	10/31/94	43.0	6/14/94	0.0	0.0	
	4020	MACKINAW LAKE RES NO 2	DERBY CREEK	6.0	10/31/94	138.0	7/01/94	6.0	6.0	
	3986	MORRIS RESERVOIR	TOPONAS CREEK	0.0	11/01/93	0.0	10/31/94	0.0	0.0	
	3988	NEWTON GULCH RES	KING CREEK	0.0	11/01/93	114.0	6/01/94	0.0	0.0	
	3992	REID NO 3 RESERVOIR	EGERIA CREEK	93.0	11/01/93	93.0	6/14/94	0.0	0.0	
	3995	STERNER RESERVOIR	EGERIA CREEK	0.0	11/01/93	195.0	6/14/94	0.0	0.0	
	3997	SWEETWATER RESERVOIR	SWEETWATER CREEK	490.0	11/01/93	490.0	5/05/94	490.0	490.0	
	3999	TONIER GULCH RES	TOPONAS CREEK	10.0	10/31/94	60.0	6/01/94	10.0	10.0	
	4001	TOPONAS ROCK NO 2 RES	TOPONAS CREEK	0.0	11/01/93	197.0	6/01/94	128.0	128.0	
	4004	WOHLER RESERVOIR	ELK CREEK	24.0	10/31/94	68.0	11/01/93	24.0	24.0	
53		Total of All Others < 50 AF		119.0		323.0		130.0	130.0	
53		Total for District 53		3,696.0		6,444.0		3,830.0	3,830.0	





RESERVOIR STORAGE SUMMARIES BY DISTRICT

1994

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						End Of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
72	3833	ANDERSON BROS RES NO 1	LEON CREEK	0.0	11/01/93	168.1	7/11/94	0.0	0.0	
	3887	BIG BEAVER RESERVOIR	BULL CREEK	0.0	7/26/94	126.7	4/26/94	0.0	0.0	
	3904	BIG CREEK NO 1 RESERVOIR	BIG CREEK	NOT USABLE UNDER RECONSTRUCTION						
	3905	BIG CREEK NO 3 RESERVOIR	BIG CREEK	731.1	4/18/94	1,549.4	11/01/93	1,545.4		
	3906	BIG CREEK NO 4 RESERVOIR	BIG CREEK	0.0	3/02/94	159.9	10/11/94	159.9		
	3907	BIG CREEK NO 5 RESERVOIR	BIG CREEK	0.0	10/28/94	104.6	2/28/94	104.6		
	3909	BIG CREEK NO 7 RESERVOIR	BIG CREEK	667.5	12/02/93	1,222.6	5/31/94	962.9		
	3841	BOB MC KELVIE RESERVOIR	PLATEAU CREEK	166.0	7/31/94	291.0	11/01/93	166.0		
	3888	BULL BASIN NO 1 RES	BULL CREEK	1.1	9/27/94	124.2	11/11/93	34.2		
	3889	BULL BASIN NO 2 RES	BULL CREEK	0.0	7/12/94	68.2	5/25/94	0.0		
	3890	BULL CREEK NO 1 RES	BULL CREEK	0.0	11/11/93	83.2	4/02/94	0.0		
	3891	BULL CREEK NO 2 RES	BULL CREEK	0.0	11/11/93	69.8	4/02/94	0.0		
	3892	BULL CREEK NO 3 RES	BULL CREEK	0.0	8/12/94	59.2	4/28/94	0.0		
	3893	BULL CREEK NO 4 RES	BULL CREEK	0.0	8/12/94	202.5	4/28/94	0.0		
	3894	BULL CREEK NO 5 RES	BULL CREEK	13.5	9/29/94	260.0	4/02/94	58.2		
	3834	COLBY HORSE PARK RES	LEON CREEK	137.7	11/01/93	490.1	5/31/94	145.2		
	3883	COON CREEK NO 1 RES	COON CREEK	139.0	11/01/93	386.4	6/23/94	183.0		
	3884	COON CREEK NO 2 RES	COON CREEK	0.0	8/02/94	105.3	6/06/94	0.0		
	3885	COON CREEK NO 3 RES	COON CREEK	17.0	8/05/94	158.3	11/11/93	46.0		
			Subtotal this page	1,872.9		5,629.5		3,405.4		

RESERVOIR STORAGE SUMMARIES BY DISTRICT, continued

1994

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				Minimum		Maximum		End Of Year	
				AF	Date	AF	Date		
72	3923	COTTONWOOD LAKE RES NO 1	COTTONWOOD CREEK	497.8	5/12/94	1,799.4	8/11/94	1,660.1	
	3924	COTTONWOOD LAKE RES NO 2	COTTONWOOD CREEK	0.0	11/01/93	144.3	6/06/94	0.0	
	3925	COTTONWOOD LAKE RES NO 4	COTTONWOOD CREEK	0.0	2/02/94	303.0	6/13/94	285.9	
	3926	COTTONWOOD LAKE RES NO 5	COTTONWOOD CREEK	20.9	5/09/94	342.3	11/01/93	240.1	
	4065	CURRIER RES NO 2	BUZZARD CREEK	44.0	8/19/94	222.5	6/15/94	94.0	
	3910	DAWSON RESERVOIR	BIG CREEK	0.0	10/19/94	213.4	5/31/94	0.0	
	3914	GROVE CREEK RES NO 1	GROVE CREEK	0.0	11/01/93	251.7	6/03/94	0.0	
	3915	GROVE CREEK RES NO 2	GROVE CREEK	0.0	11/01/93	75.5	6/03/94	0.0	
	3849	HAWXHURST RESERVOIR	HAWXHURST CREEK	0.0	11/01/93	206.8	6/01/94	0.0	
	3957	HIGHLINE RESERVOIR	MACK WASH	2,640.0	11/01/93	2,840.0	4/31/94	2,640.0	
	3929	JENSEN RESERVOIR	COTTONWOOD CREEK	0.0	8/02/94	83.5	11/01/93	0.0	
	3961	JERRY CREEK RES NO 1	PLATEAU CREEK	1,049.0	4/09/94	1,148.0	5/13/94	1,095.0	
	3962	JERRY CREEK RES NO 2	PLATEAU CREEK	5,668.0	9/11/94	6,179.0	1/01/94	6,009.0	
	3837	KENDALL RESERVOIR	LEON CREEK	0.0	8/05/94	87.0	5/10/94	0.0	
	3838	KIRKENDALL RESERVOIR	LEON CREEK	0.0	9/03/94	108.0	11/01/93	0.0	
	3839	LEON LAKE RESERVOIR	LEON CREEK	73.2	9/30/94	1,660.3	6/30/94	73.2	
	3895	LOST LAKE RESERVOIR	BULL CREEK	0.0	9/09/94	113.3	6/23/94	0.0	
	4077	MACK MESA RESERVOIR	MACK WASH	130.9	11/01/93	130.9	4/31/94	130.9	
			Subtotals this page:	10,123.8		15,908.9		12,228.2	

RESERVOIR STORAGE SUMMARIES BY DISTRICT, continued

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				Minimum		Maximum		End Of Year	
				AF	Date	AF	Date	AF	Date
72	3871	MESA CREEK NO 1 RES	MESA CREEK	63.1	10/18/94	280.2	11/01/93	63.1	11/01/93
	3872	MESA CREEK NO 2 RES	MESA CREEK	48.0	11/01/93	48.0	11/01/93	48.0	11/01/93
	3873	MESA CREEK NO 3 RES	MESA CREEK	79.1	10/18/94	169.4	6/27/94	79.1	6/27/94
	3874	MESA CREEK NO 4 RES	MESA CREEK	10.6	11/01/93	229.2	6/07/94	15.3	6/07/94
	3842	MONUMENT NO 1 RES	LEON CREEK	0.0	11/01/93	572.0	7/11/94	36.0	7/11/94
	3843	MONUMENT NO 2 RES	LEON CREEK	0.0	11/01/93	168.0	7/11/94	0.0	7/11/94
	3854	PALISADE CABIN RES	RAPID CREEK	640.4	10/31/94	1,022.0	11/01/93	640.4	11/01/93
	3855	PALISADE STORAGE RES 1	RAPID CREEK	0.0	11/01/93	15.0	5/31/94	0.0	5/31/94
	3856	PALISADE STORAGE RES 3	RAPID CREEK	0.0	11/01/93	45.0	5/31/94	0.0	5/31/94
	3932	PARKER BASIN RES NO 1	COTTONWOOD CREEK	0.0	4/18/94	271.6	11/01/93	178.1	11/01/93
	3933	PARKER BASIN RES NO 2	COTTONWOOD CREEK	0.0	9/15/94	57.0	6/02/94	5.9	6/02/94
	3934	PARKER BASIN RES NO 3	COTTONWOOD CREEK	0.0	11/01/93	80.7	9/15/94	70.4	9/15/94
	3858	RAPID CREEK NO 1 RES	RAPID CREEK	0.0	8/01/94	301.0	6/02/94	0.0	6/02/94
	3859	RAPID CREEK NO 2 RES	RAPID CREEK	0.0	9/28/94	442.0	6/02/94	0.0	6/02/94
	3901	STUBBS MCKINNEY CLARK RES	SPRING CREEK	20.7	9/06/94	197.8	6/06/94	20.7	6/06/94
	3931	T E KITSON RESERVOIR	COTTONWOOD CREEK	0.0	2/02/94	184.3	7/25/94	184.3	7/25/94
	3902	TWIN BASIN RESERVOIR	BULL CREEK	0.0	10/07/94	82.0	6/06/94	0.0	6/06/94
	3844	VEGA RESERVOIR	PLATEAU CREEK	4,281.0	10/03/94	34,481.0	6/01/94	4,837.0	6/01/94
	3919	Y T RESERVOIR	GROVE CREEK	0.0	10/31/94	131.0	11/01/93	0.0	11/01/93
			Subtotals this page:	5,142.9		38,777.2		6,178.3	
			Subtotals Other WD 72 Pages:	11,996.7		21,538.4		15,633.6	
72			Total of All Others < 50 AF:	15.8		217.6		18.8	
72			Total for District 72	17,155.4		60,533.2		21,830.7	

WATER DIVERSION SUMMARIES

1994

WD	Structures Reporting			All Other Structures		Estimated Number of Visits to Structure	Total Diversions - AF -	Total Diversions to Storage - AF -	To Irrigation		
	With Record (1)	No Water Avail (2)	No Water Taken (3)	No Info Avail (4)	No Record (5)				Total Diversions - AF -	Number of Acres Irrigated	Average AF per Acre
36	340	5	127	106	175	4,410	630,939	134,156	77,887	12,503	6.23
37	345	0	244	188	344	2,190	155,798	20,404	84,666	14,167	5.98
38	1,108	11	157	844	741	2,691	676,762	42,618	316,236	40,460	7.82
39	483	12	144	115	196	556	169,745	9,619	121,982	21,822	5.59
45	589	41	110	8	114	2,677	124,326	322	104,919	25,602	4.10
50	228	2	19	16	23	1,149	84,849	6,079	75,911	21,866	3.47
51	657	17	130	208	230	20,057	1,049,868	197,749	148,110	27,003	5.48
52	160	1	73	23	63	239	18,189	101	17,087	5,021	3.40
53	451	5	176	13	84	794	859,819	2,831	62,189	17,431	3.57
70	201	33	50	2	93	689	27,993	39	26,584	6,319	4.21
72	529	25	107	326	340	5,560	2,572,363	36,412	886,105	129,475	6.84
TOTAL	5,091	152	1,337	1,849	2,403	41,012	6,370,651	450,330	1,921,676	321,669	5.15

**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

NOTE: Total Amount Diverted includes Use=Other, which consists of water previously accounted for under specific uses.

## WATER DIVERSION SUMMARIES TO VARIOUS USES

WD	TRANSMOUNTAIN OUTFLOW	TRANSBASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
36	80,868	0	6,470	38	0	5,215	232	246	24
37	39,984	0	8,933	0	229	0	0	63	1
38	101,798	1,497	8,072	27	475	72	77,553	3,890	4,028
39	0	1,899	2,267	4	134	0	29,743	3,203	552
45	0	0	1,626	2	48	0	0	627	16,578
50	0	0	379	0	62	0	42	16	590
51	306,223	0	2,266	59	2,797	837	145	271	3,258
52	0	0	0	1	4	0	0	83	851
53	0	0	3,322	0	0	7	1	370	1,738
70	0	0	60	0	0	0	0	15	1256
72	1,641	1,453	22,872	0	0	0	977	266	7,980
<b>TOTAL</b>	<b>530,514</b>	<b>4,849</b>	<b>56,267</b>	<b>131</b>	<b>3,749</b>	<b>6,131</b>	<b>108,693</b>	<b>9,050</b>	<b>36,856</b>
WD	AUGMENTATION	EVAPORATION	GEOTHERMAL	SNOWMAKING	MIN FLOW*	POWER	WILDLIFE	RECHARGES	OTHER
36	0	11,013	0	1,121	0	311,150	0	1	2,518
37	0	1,196	0	322	0	0	0	0	23,083
38	280	3,095	0	330	0	117,071	0	0	5,596
39	0	187	0	0	0	141	14	0	1,692
45	0	164	0	0	0	40	0	0	467
50	0	68	0	0	0	0	0	0	1,703
51	0	26,321	0	292	0	84,733	0	0	276,807
52	0	62	0	0	0	0	0	0	0
53	0	984	1,060	0	0	787,317	0	0	602
70	0	39	0	0	0	0	0	0	0
72	0	1,783	0	0	18,001	906,875	0	0	687,998
<b>TOTAL</b>	<b>280</b>	<b>44,912</b>	<b>1,060</b>	<b>2,065</b>	<b>18,001</b>	<b>2,207,327</b>	<b>14</b>	<b>1</b>	<b>1,000,466</b>

NOTE: Total Amount Diverted includes Use=Other, which consists of water previously accounted for under specific uses.

**1994 Annual Report  
Water Division 5**

**D. WATER COURT ACTIVITIES**

Calendar Year 1994

Applications Made to Water Court (94CW) . . . . .	389
Amended Applications From Prior Years . . . . .	13
Dismissals . . . . .	3
Withdrawn Cases . . . . .	2

TYPE OF DECREE	NUMBER OF CASES	NUMBER OF STRUCTURES
Findings of Diligence on Conditional Rights	61	196
Cancellations of Conditional Rights	7	46
Conditional Rights Made Absolute	23	355
Surface Water Rights Adjudicated	49	82
Underground Water Rights Adjudicated	16	28
Water Storage Rights Adjudicated	21	38
Plans for Augmentation Adjudicated	27	102
Changes of Water Rights Adjudicated	35	96
Changes of Use	2	2
Instream Flow Rights Adjudicated	1	1
Amend Augmentation Plans	3	38
<b>TOTAL:</b>	<b>245</b>	<b>984</b>

**1994 Annual Report  
Water Division 5**

E. COLORADO RIVER CALLS

1994 WATER YEAR

COLORADO RIVER MAINSTEM  
GOVERNING CALL ABOVE  
SHOSHONE POWER PLANT  
(Districts 36, 37, 50, 51, 52, 53)

<u>DATE ON</u>	<u>DATE OFF</u>	<u>CALLING WATER RIGHT</u>	<u>DECREED AMOUNT</u>	<u>ADMIN NO.</u>
11/05/93	12/31/93	Shoshone Power Plant	1250.0 cfs	20427.18999
04/01/94	04/18/94	Shoshone Power Plant	1250.0 cfs	20427.18999
06/29/94	07/15/94	Shoshone Power Plant	1250.0 cfs	20427.18999
07/15/94	07/29/94	Grand Valley Canal	119.47 cfs	30895.23491
07/29/94	08/05/94	Grand Valley Project	400.00 cfs	30895.21241
08/05/94	09/07/94	Grand Valley Project	730.00 cfs	22729.21241
09/07/94	10/31/94	Shoshone Power Plant	1250.0 cfs	20427.18999

COLORADO RIVER MAINSTEM  
GOVERNING CALL ABOVE CAMEO  
AND BELOW SHOSHONE POWER PLANT  
(Districts 38, 39, 45, 70, 72)

<u>DATE ON</u>	<u>DATE OFF</u>	<u>CALLING WATER RIGHT</u>	<u>DECREED AMOUNT</u>	<u>ADMIN NO.</u>
07/15/94	07/29/94	Grand Valley Canal	119.47 cfs	30895.23491
07/29/94	08/05/94	Grand Valley Project	400.00 cfs	30895.21241
08/05/94	09/30/94	Grand Valley Project	730.00 cfs	22729.21241



**1994 Annual Report  
Water Division 5**

III. OFFICE ADMINISTRATION AND WORKLOAD MEASURES

A. NUMBER OF WATER COURT APPLICATIONS: 94CW001 through 94CW389

Division 5 = 364                  Division 6 = 24                  Division 4 = 1

B. NUMBER OF WATER COURT APPLICATIONS BY DISTRICT:

District 36 = 24	District 45 = 29	District 53 = 14
District 37 = 56	District 50 = 6	District 70 = 7
District 38 = 124	District 51 = 31	District 72 = 46
District 39 = 21	District 52 = 7	

C. NUMBER OF STRUCTURES IN NEW WATER COURT APPLICATIONS BY DISTRICT:

District 36 = 80	District 45 = 75	District 53 = 34
District 37 = 203	District 50 = 15	District 70 = 38
District 38 = 391	District 51 = 183	District 72 = 87
District 39 = 81	District 52 = 30	

D. NUMBER OF PROTESTS TO THE 1992 ABANDONMENT LIST BY DISTRICT:

District 38 = 1                  District 52 = 1                  District 72 = 1

E. NUMBER OF PROTESTS TO THE 1984 ABANDONMENT LIST BY DISTRICT:

District 39 = 1                  District 72 = 1

F. ORDERS:

(a) For Installation and/or Repair of Headgates by District:

District 36 = 9	District 45 = 1	District 53 = 1
District 37 = 0	District 50 = 0	District 70 = 0
District 38 = 3	District 51 = 1	District 72 = 8
District 39 = 0	District 52 = 0	

(b) For User-Supplied Diversion Records: . . . . . Dist 36 = 4

(c) To Cease & Desist Illegal Use of Tributary Ground Water: . . . . . Dist 38 = 1

(d) To Remove Obstruction From Water Way: . . . . . Dist 45 = 1, Dist 72 = 2

(e) To Install Gage Rod: . . . . . Dist 72 = 1

**1994 Annual Report  
Water Division 5**

G. PERSONAL REIMBURSABLE MILEAGE (2-WHEEL AND 4-WHEEL) (P):

CALENDAR YEAR 1994:

OFFICE STAFF:

<u>NAME</u>	<u>POSITION</u>	<u>MILEAGE</u>
Bell, Orlyn	Division Engineer	825 P
Martellaro, Alan	Assistant Division Engineer	269 P
McCabe, Robert	Water Resource Engineer	1,039 P
Schildt, Wayne	Hydrographer (transferred to Div 4 10/94)	0 P
Blair, John	Dam Safety Engineer	0 P
Whitehead, Dwight	Water Commissioner-Wells	0 P
Hitchcock, Nancy	Secretary	0 P

FULL-TIME EMPLOYEES IN FIELD:

<u>NAME</u>	<u>POSITION</u>	<u>DISTRICT</u>	<u>MILEAGE</u>
Hummer, Scott	Water Commissioner	36	1,771 P
Bergquist, Joe	Water Commissioner (supervisor)	38	7,925 P
Klenda, Robert	Water Commissioner (supervisor)	45	1,064 P
Thompson, William	Water Commissioner (supervisor)	50	11,109 P
Wells, L. Wayne	Water Commissioner (supervisor)	72	0 P

PERMANENT PART-TIME EMPLOYEES IN THE FIELD:

<u>NAME</u>	<u>POSITION</u>	<u>DISTRICT</u>	<u>MILEAGE</u>
McEwen, William	Water Commissioner (supervisor)	37	0 P
Gepfert, Lawrence	Water Commissioner	38/45	8,664 P
Lemon, James	Water Commissioner	39	3,963 P
Nelson, Glen	Water Commissioner	45	854 P
Daxton, James	Water Commissioner	51	8,145 P
Schaffner, Frank	Water Commissioner	52/53	7,096 P
Comerer, Alan *	Water Commissioner	70/72	6,171 P
Cox, Tom	Water Commissioner	72	7,128 P
Greene, Ronald	Water Commissioner	72	6,726 P
Brigham, Tom	Water Commissioner	72	9,880 P

\* Comerer Transferred to Dist 72 4/94;

TOTAL OFFICE STAFF AND FIELD PERSONAL MILES DRIVEN: **98,678 P**

**1994 Annual Report  
Water Division 5**

H. MILEAGE FOR LEASE VEHICLES ASSIGNED TO DIVISION 5 (L):

CALENDAR YEAR 1994:

<u>VEHICLE</u>	<u>PRINCIPAL DRIVER</u>	<u>COMMENT</u>	<u>MILEAGE</u>
01-8416	McEwen, William		11,674 L
01-8730	Hummer, Scott	Div 5 received 3/94	15,093 L
01-8795	Whitehead, Dwight		14,319 L
01-8796	Schildt, Wayne	Hydro Truck	11,954 L
01-9145	Blair, John		10,088 L
01-9153	Wells, L. Wayne		16,197 L
01-9243	Bell, Orlyn		19,230 L
TOTAL LEASE VEHICLE MILES DRIVEN:			<u>98,555</u> L
TOTAL MILES DRIVEN (PERSONAL + LEASE) 1994			<u>186,773</u> T

February 1, 1995

MEMORANDUM:

TO: Orlyn J. Bell  
FROM: Robert C. Klenda *RCK*  
SUBJECT: Summary of 1994

If 1994 can be called "an average year," it certainly means that life along the Colorado River west of Glenwood Springs is busy and interesting. The area has come to be known as "down valley"; in 1994 most of the "up valley" style demands occurred down valley also. Districts 39, 45, and 70 are experiencing the effects of the down valley growth. Several ranches are being split into parcels while others are being offered in whole. Several small parcels sold causing an old augmentation plan to become active, water hauling for gas well drilling, road construction, and dust control, increased as did the requests for information concerning well permits, water rights pertaining to specific structures, and the requests concerning the locations of ditches and the lands they serve. Part of the inquiries occurred because it was a short water year but most can be attributed to growth. Several ditch bank confrontations occurred because of the shortage of water: some were rather heated, each has been resolved in whole or in part.

Two new water commissioners started their careers in this area in 1994; each have learned fast and both did a fine job of serving the water users. A ditch that has stirred considerable unrest amongst the area's residents was built and will deliver water for its first time in 1995. Much of the dialogue connected with this ditch's construction was handled very capably by a new commissioner.

West Divide Water Conservancy District (WDWCD) started serving the area's augmentation needs in 1983 and has experienced a steady increase in demand of its services. In 1994 WDWCD found the need for their services mushrooming and have expanded their services into two additional drainages. They have accepted the responsibility of being in the water augmentation business and are now gathering records of usage and reporting to the water commissioner on a timely basis, saving much water commissioner time.

WDWCD's long dreamed of project, the construction of Alsbury Reservoir, received final authorization and may finally be built in 1995.

Many things occurred throughout the year which impacted the work schedule. Three of the big items were PDQ's, hiring and training of the new Water Commissioners, and the dissatisfaction of the administration of Cache Creek by a particular water user. Much effort was put into providing data to several parties in the Rulison area as these neighbors try to settle longstanding problems.