



Annual Report

1995 IRRIGATION YEAR

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Current Water Year

Accomplishments

Water Administration

The 1995 water year was very unusual. Going into the spring of the year, it looked like it would be a very dry year. During the beginning of April, the calls were very senior, 1866, on a part of the mainstem of the South Platte which indicates that conditions were very dry. In addition, reservoir levels, especially on the tributaries were very low. The two physical conditions concerned Division personnel that there would be drought conditions unless there was significantly above average precipitation the rest of April and May.

During April and May, significant precipitation for approximately a month both in the mountains and on the front range totally reversed the situation making it one of the wettest years. Unlike most years on the South Platte, 1995 was then marked not by shortage and river calls, but instead by very high flows and flooding in some areas. As an indicator, sand dams were never constructed in District 64 as is almost always the case during the summer. In fact, the call on the mainstem of the river downstream of Denver only occurred briefly in the spring and then not until August 8, 1995. This compares to most years when there are only a few days of free river in the spring and summer and to the dry year of 1994 when there was a call continuously through out the irrigation season. Likewise, the calls on tributaries occurred much later and were junior to those experienced during a normal year.

During the high flows, Division 1 staff served as an important clearinghouse of information. Staff from all the major northern cities including Boulder, Fort Collins, Greeley, Loveland, and Longmont, Sterling and Julesburg coordinated directly with the division commissioners and the Greeley office to obtain flow, snowpack, reservoir storage and other hydrologic information. In addition to flow information, staff experience and the South Platte Water Rights Management System allowed Division staff to provide information concerning expected flows at downstream locations.

In addition to providing cities information, Division staff provided information to other water users. As a specific example, the District 2 water commissioner provided flow information several times each day to the water users near Platteville. These water users were attempting to repair a major levee break that was flooding hundreds



of acres of farm land, a couple of homes, a County Road and a state highway. Division hydrographic staff made several measurements weekly during the flooding to help provide accurate flow information on the South Platte to the Corps of Engineers who were attempting to maintain safe releases from Bear Creek and Chatfield Reservoirs. These structures flooded their recreation areas and some of the later releases from these reservoirs resulted in complaints of too much water being released. The Corps of Engineers has stated that they will reevaluate the capacity of the channel downstream of these reservoirs in the future to determine what can be released without causing any damage whenever possible.

Division staff also provided information to users concerning sources of financial assistance to repair flood damage. Similarly, the District 64 commissioner, provided baseline information and flow projection information to try to assist in resolving a significant conflict between a major ditch company and the surrounding town concerning the proper course of action to make emergency ditch system repair decisions.

Staff on tributaries also assisted in providing guidance to users to prepare for flooding. In District 5 for example, the division water commissioner coordinated with the users to assure the release of water from Buttonrock reservoir prior to high flow conditions eliminating a large reservoir spill, which when combined with runoff and rainfall events would have created significant flooding in the Lyons area.

The wet conditions and high flows not only effected staff workload but had a major impact on agriculture during 1995. The wet conditions affected the plans of some farmers as they were unable to plant their corn. In contrast,



winter wheat yield was exceptional due to the wet conditions except in areas hit by hail or significant flooding. The wet cool conditions during the spring caused harvest of crops to generally be about two weeks later than usual. The early heavy snow in the spring, spring hails and early fall frosts in parts of the basin caused crop damage to corn, beans and sugar beets in some areas. In other areas of the Division, little damage was experienced on crops and production was normal. The high flows also significantly damaged many diversion structures within the basin. Staff provided information to users concerning sources of funding to fix structures.



Reservoir storage was not relied upon as heavily as in the past years so when Fall arrived the owners were able to bring many of the reservoirs back up to their winter storage levels earlier than normal. This winters snowpack would seem to indicate that Division One will experience higher than normal spring runoff. It is still to early to really know what will happen because weather patterns can change and the water content could thus change.

Dam Safety



Division dam safety staff were very busy in monitoring the safety of certain reservoirs within the Division during the 1995. Primary safety concerns were associated with the impact of extremely high runoff on reservoirs whose spillways were of questionable adequacy and reservoirs with restrictions already in place. Flow and snowpack information also provided

background for dam safety engineers concerned with monitoring reservoir safety. As a specific example, the division dam safety staff and water commissioner monitored one reservoir in South Park where inflows in excess of safe discharge capacity caused the reservoir to exceed safe storage level restrictions for several days. Despite higher than normal spring runoff, no emergencies developed. One Class III, or LOW hazard dam washed out near Holyoke. Frenchman Creek Dam failed as a result of piping under the spillway structure. Minor flooding occurred below the dam, and no significant damage was reported. The dam is owned by the Colorado Division of Wildlife, and the failure was not reported to DWR until several weeks after the event.

The dam safety branch in Greeley is staffed with four engineers who perform periodic inspections of dams. Under the current "1-2-6" program frequency approximately 270 dams are to be inspected each year. Last year 325 dams were inspected. The hydrologic review of spillways continued, with only two Class I dams remaining to be completed. The evaluation of the 140 Class II dams is well underway. Of this number, 23 are exempted by the deferment of high altitude structures, and 42 do not require evaluation under the current Rules. At the end of the year, 19 of the remaining 75 dams had been evaluated. The projected completion date for the Class II evaluations is 1998. Outlet inspections using the SLED continues as conditions permit.

The semi-annual newsletter continues to be popular among dam owners, and it was nominated for a national award. Circulation has expanded to include limited national distribution among professional agencies and publications.

Several new dams were constructed in the Division. These include the Chase Gulch Dam above Central City, Westminster Dam in Westminster, Woman Creek and Terminal Dam in Broomfield. Several major rehabilitation projects were also completed or under construction.

Hydrography



he flows on the South Platte were the highest since 1983. Some of the tributaries were at or near the highest flows on record. Knowing flows at these discharge levels was critical to aid in preparing for possible flooding this year and for having information for future years. To ascertain the flows, our hydrographic staff was kept busy in the field on a continuous basis. New peak flows were measured on the South Platte above Denver. Since the high flows did not necessarily follow a normal workday, division staff measured flows both at night and on weekends. Staff also a spent considerable amount of time protecting existing and new stations. Due to the workload, all of the division office staff and many of the division water commissioners also had to help out by flagging traffic or taking notes for the hydrographers. This allowed two or more hydrographic crews to be measuring at the same time.

In addition to measurement, the data from these flow measurements had to be incorporated into stage/flow rating tables and curves. Many of these curves and tables had to be expanded to cover high flow events. Staff also had to be very diligent that all equipment continued to operate with the extreme hydrologic conditions. After the flooding, additional measurements then were necessary to adjust stage/flow relationships where channels had shifted and/or scouring had occurred.

Hydrographers in Division One measured and kept records for 84 gauging stations located throughout the division this year. Streamflow data gathered at gauging stations are the basic information used by water administrators and water users to ascertain the available water supply within the division. Twenty eight of these stations are record stations for which a completed and verified record of water flow is turned in to the United States Geological Survey (USGS) for their publication. The remaining 56 stations are records kept solely by the Division of Water Resources (DWR) and are published separately by the DWR.

Funding was received from the Colorado Water Conservation Board's construction fund once again this year and has allowed the staff to repair and replace several additional stream gages. During the past year, a new concrete shelter was put in place for the Denver Gage located at 19th Street on the South Platte River and new stations were constructed at the Waterton gage located above Chatfield Reservoir near the mouth of the canyon for the South Platte River and the Poudre gage located near the mouth of the canyon for the Cache La Poudre River to replace the existing structures at those sites. New data collection platforms (DCP's) were installed at the Western Ditch located near Platteville, the New Cache La Poudre Ditch located near Windsor, one on the river and one for the ditch, and the last one was place on the Pawnee Ditch located near Merino. In addition, many of the stations in Division One have had satellite monitoring and water recording instruments checked, upgraded, and altered to operate reliably and These efforts should efficiently. improve streamflow data as well as make it easier to operate the stations.

Groundwater

enver basin groundwater continues to be a prevalent water supply for development in the southern metro area, including the Cherry Creek and Plum Creek drainages. Usage of Denver Basin water has created declines on the order of 200 to 300 feet of the piezometric head of the Arapahoe formation over the past 3 or 4 years at certain locations. The problem is most critical in the outcrop areas of the Arapahoe formation with some wells going dry or production rates have reduced to levels that requires the owners to construct additional wells to obtain the same amount of water that they could originally withdraw with only one well. Continued use of the Denver Basin aquifer could result in additional water supply problems for wells located in the outcrop areas of the aquifer, with the impact moving to the center of the aquifers over time.

Preliminary efforts have begun to make it possible to put diversion record information from wells in the official diversion database that has historically contained predominantly surface water diversion records. This will allow historical use to be tracked for the wells over time. This is the type of information that is needed as demand for the state's resources become increasingly competitive.

Division staff continue to focus on gravel pit administration in order to bring pit operators into compliance with 1989 Senate Bill 120 provisions. That statute requires that owners and operators of gravel pits must augment stream depletions caused by evaporation from the open water surfaces created by mining activities. There are presently 52 approved gravel pit substitute supply plans in Division One. Gravel pit administration has settled into part of the regular routine for Division One staff. Most of the existing pits have been field inspected, and field and division office personnel continue to

work with pit owners to bring them into compliance without having to initiate formal legal action.

Water Records and Information

The South Platte Water Rights Management System (SPWRMS) has been developed to increase access to water information, including water rights, diversions, exchanges, and other operations that occur on the river system. Full implementation of this system is currently underway and it is hoped that it will significantly enhance access to water information both by the water commissioners and the water users.

A new water information database called "Hydrobase" is still being developed in a UNIX language environment. This database will contain all existing information currently available through the Division of Water Resources in numerous existing databases.

Special On-going Projects

Long Range Plan

Division I staff provided input to the State Engineer as to how it will meet the objectives outlined in the Colorado Division of Water Resources Long Range Plan Goal 3, Objectives 2-4. Goal 3 describes how the State Engineers Office will continuously improve water rights administration and record keeping. The objectives referenced above are as follows:

<u>Objective 2</u>: By 1-1-96, each Division Engineer will develop and submit for approval of the State Engineer a specific plan which quantifies achievable targets and due dates for each of the following:

- Increasing the number of accurate water measuring devices on diversion structures.
- Increasing the number of recording devices on diversion structures.

- Improving and maintaining accurate records of real-time data.
- Administering decreed plans for augmentation, substitute water supply plans and gravel pits.
- Developing and making daily flow information sheets for water districts.
- Expanding records of water.

<u>Objective 3</u>: By 1-1-96, each Division Engineer will develop and implement a plan to expand the coverage and accuracy of water supply data by accomplishing the following:

 Reviewing the need for additional hydrographic records and adding additional stations to the satellite monitoring system.

<u>Objective 4</u>: By 1-1-96, each Division Engineer will evaluate the feasibility of determining the following:

- Irrigated Acreage and Cropping Patterns
- Consumptive Use
- Quantifying return flows
- Developing a runoff forecasting tool based on snow surveys

South Platte Water Rights Management System



his system has been developed for the South Platte River and its tributaries to provide a tool for water administration, and a tool for water users in making water supply decisions. The project is being developed in conjunction with Colorado University affiliate, CADSWES, with direction and funding from the Colorado Water Conservation Board and other South Platte water user sponsors.

The Division reached its goal and the Division Long Range Plan goal of assuring that the necessary data development, programming and support was available such that the SPWRMS system was fully operational. Testing was completed on the SPWRMS PC interface which allows two way water commissioner interaction with the application. Commissioners may obtain real time stream flow and can provide, diversion, release, exchange and call information.

Approximately one half of the Water Commissioners in Division 1 used the South Platte System regularly during the 1995 irrigation year. For these commissioners, use of the system became a part of their every day administration. In some areas, the system allowed for more timely changes of calls and availability of data. In a few districts. the system was not implemented however the water commissioners have been trained in its use. With more widespread use during 1995, minor glitches of the system were discovered and subsequently corrected. In addition, several minor enhancements to the system were implemented. The goal for water year 1996 is to add the remaining commissioners to the system. In addition to DWR use, the Division has an agreement with several of the sponsors to test the system. It is expected that this testing may provide the focus of additional enhancements which are to be developed.

DWR staff have also been contacted by other outside parties including the City of Loveland and Corps of Engineers concerning use of the system. It is anticipated that there will be continued outside interest in the application.

Division 1 staff have also spent time with the CWCB and DWR's staff working on developing the Colorado River Decision Support System. It appears that they plan to copy much of the functionality of the system in the development of the real time administration tools for the Colorado River. One of our staff will be assigned approximately 85 percent of his time in coordinating the design and implementation of the system. He will also be involved with coordinating what is desired by the West Slope Divisions and making certain that the design consultants develop a tool that will help in the administration of water rights in the west slope. It is felt that the experience of Division One to date in the development of SPWRMS will be of assistance in the design of the water rights management tool for CRDSS.

South Platte Well Study



he cooperative pilot program to evaluate the accuracy of various methods of measuring well pumping continued in 1995. The agencies cooperating with Division 1 are Ground Water Appropriators of the South Platte (GASP), Central Colorado Water Conservancy District (CCWCD) and Lower South Platte Water Conservancy District (LSPWCD). The field work portion of the study was completed with the last data gathered in November, 1995. Field well efficiency tests were performed on most of the 28 study wells in August, but we were unable to perform the June field efficiency tests because of the unusually wet spring. Either weekly or biweekly data on power consumption, hours of operation and, where available, flow meter readings were collected on each of the study wells for the irrigation season (July through mid-September in 1995). Preliminary results appear to be consistent with the 1993 and 1994 data with a general agreement in the estimated volume of water pumped using these three data sources for nonsurging wells. We had hoped to get the final report out sometime during the spring of 1986, but it now appears that it will not be out until early summer.

Lysimeter Study

he cooperative small lysimeterlawn grass return flow study being conducted at CSU is basically complete. The final report \ masters degree thesis has not yet been released, but the cooperating entities (DWR, City of Colorado Springs and Colorado Water Resources Research Institute) have completed their funding of the study. Since all of the equipment is in place, the principal investigators may collect data on varying the irrigation frequency through this (1996) summer, but this is not being funded by the cooperating entities. During the 1995 irrigation season, the study focused on how the frequency of irrigation effects return flow. To determine this, all of the small lysimeters were repacked with a single soil type and some were relocated to one of the four sprinkler zones available to allow the application frequency to be easily varied. Each zone received approximately 100% of potential CU. The frequency variations consisted water application five times per week, three times per week and once a week. The preliminary results indicate that irrigation frequency made some difference in both ET and deep percolation, but still may not explain the large amount of scatter we have seen in the previous "real world" data sets examined.

Metropolitan Water Supply Investigation

his study was initiated by the governor in 1993 to identify water supply projects that will increase the amount of water available to the growing metropolitan area using existing facilities and options if possible. The study involves a large number of water users from the front range and western slope of Colorado who have come together to investigate the possibilities of procuring water supplies in the metro area. The study examined five main conceptual areas related to the project. The five areas include conjunctive use. effluent management, system integration, metro storage, and interruptible supply options. The study's consultants have performed extensive engineering analyses of those particular projects that have been considered as being the most effective and likely to produce increased water availability. They will determine the benefits that they feel can actually be felt if a particular alternative is eventually implemented. The study is intended for completion in 1996. It is then hoped that the entities in the Metropolitan area will proceed with development of one or more of the alternatives considered during this study.

Important On-Going Water Issues

US Forest Service/Poudre Water Users Joint Operations Plan (JOP)

Several entities located in the front range of Colorado have facilities (structures) which are located on Forest Service property and are allowed to operate based upon special use permits issued and renewed periodically by the U.S. Forest Service. After much negotiation, the City of Greeley, City of Fort Collins, and the Water Supply and Storage company were able to obtain long term easements for their structures

in the forest needing permit renewal in 1994 by development of the joint operations plan utilizing the combined facilities of the three entities to enhance habitat along the Poudre River within the forest . The City of Fort Collins (Joe Wright Reservoir), Water Supply and Storage company (Long Draw Reservoir and Chamber Lake), and City of Greeley (Barnes Meadow and Peterson reservoir) agreed upon an operational scheme using the facilities mentioned to enhance the trout habitat on the mainstem of the Poudre River during critical winter months by releasing 10 cfs from the combined reservoir system which would not normally have been available in past years. Through coordination with water the commissioner, the JOP continued to work well during the winter of 1995, despite the dry conditions last winter and repairs at Horsetooth Reservoir which impacted the City of Fort Collins supply.

Flatiron Pumping Station Explosion

n explosion in the fall of 1995 of the Flatiron Pumping station near Carter Lake has temporarily impacted the Colorado Big Thompson (CBT) project's ability to divert water to a portion of its District. The CBT project is a transbasin diversion project which delivers supplemental supplies to farmers, municipalities and others in several of the tributaries and mainstem of the South Platte, all within the Northern Colorado Water Conservancy District (NCWCD). Since the explosion, the Flatiron facility has been unable to pump water up into Carter Lake. While the large amount of carryover of water from last year in Carter Lake helps the situation, the explosion still has forced the NCWCD Board recently to set a Colorado Big Thompson quota at 50% for the southern part of the District system served by Carter Lake. This includes the Little Thompson. Saint Vrain, and Boulder Creek basin and a short stretch of the South Platte downstream of Denver and upstream of the Saint Vrain Creek confluence. This

quota will not effect senior irrigation water rights unless 1996 has less than normal run runoff this year, which at the present time appears to be unlikely Unfortunately, some users on irrigation systems with junior water rights, which are dependent upon leasing CBT water, will probably be impacted at some level regardless of how wet a year there is, since they probably will not be able to lease necessary supplies from the northern CBT system. The Bureau of Reclamation, who is responsible for the pumping station, has estimated that it will be September before the pump station will be back in operation.

Diversion Structure Damage

arties continue to repair irrigation structures that were damaged during the high flows of 1995. Funding to fix all the structures may not be available which could delay the repair of some structures for next year. The Colorado Water Conservation Board has provided some low interest loans and the Natural Resources Conservation Service has provided grants for structure repair. While many of the damaged diversion structures have been repaired or will be repaired prior to next spring, there remains concern over some structures which have not been repaired. In addition, debris left in the river after the high runoff of 1995 is a concern in high flow situations in some places.

<u>Central Platte River Basin Endangered</u> Species Recovery Implementation Plan

The central Platte River in Nebraska provides habitat to three presently listed endangered species, i.e. the whooping crane, the piping plover, and the interior least tern.



The states of Colorado, Nebraska, and Wyoming along with the U.S. Department of the Interior executed a The parties have been able to agree on the program's broad outlines; however, the most controversial is whether efforts to re-regulate flows will provide sufficient biological benefits for the USFWS to recognize the program as providing the "reasonable and prudent alternative that avoids jeopardy."



Memorandum of Agreement on June 10, 1994 that represents the initial step in an effort to develop a Recovery Implementation Program that will help conserve these federally listed species by protecting designated critical habitat in central Nebraska for the species. Negotiations continue between the three states and the USFWS however the parties still remain far apart.

The recovery and restoration program if agreement can be reached will consist of several major parts. The specifics are still unresolved but a few involve the following: 1)a multiyear commitment to protect and restore the habitat along the 89-mile Big Bend Reach; 2) reoperation of reservoirs and retiming of flows in both the North and South Platte Rivers to provide greater flows when the birds most need them; 3) adaptive management or design of environmental restoration experiments that will allow researchers to test assumptions about the interaction of complex human and natural systems.

Centennial Wildlife Refuge

n August of 1993, the U.S. Fish & Wildlife Service proposed the establishment of a 15,040 acre national wildlife refuge near Fort Morgan. The USFWS proposed refuge was to be located in the "triangle" between Jackson, Empire and Riverside Reservoirs due to the excellent wildlife habitat that exists in the area. The proposed refuge would be approximately four miles north of Interstate 76 and would cover both sides of the South Platte River including several recharge projects. Many groups expressed concern about the refuge's potential effect on upstream water rights and water quality. Specifically, some felt that the designation could lead to more stringent water quality standards which could effect upstream diverters and others felt it might effect upstream development. After much discussion, the USFWS withdrew its proposal and established a

task force to consider the habitat needs in the propose refuge area.

The task force met several times. This outcome of this effort was to create a local conservation land trust as an alternative to a national wildlife refuge. The members of the trust include local agricultural landowners and representatives from the school district, a ditch company, a water conservancy district, a wildlife group, the Division of Wildlife, an irrigation association and a farm organization. This Trust will use conservation easements to prevent future development that could harm wildlife habitat, or interfere with use of water for irrigation.

Lodgepole Creek Administration

The Division sent letters to several well users east of Lodgepole Creek who did not have augmentation. All but one of the users responded and are pursuing becoming a part of the Lower South Platte Water Conservancy District Substitute Water Supply Plan. Division staff are working to bring the last user into compliance.

Important Court Decisions

<u>City of Longmont - 87CW215, 87CW216,</u> 87CW218, 87CW219, 87CW220, 87CW221

The City of Longmont successfully transferred several of their ditch rights on Saint Vrain Creek. The transfer would allow the diversion of the water at several intake points and storage of the rights in Buttonrock Reservoir. The City is continuing to work toward the transfer of its Union Reservoir water, but conflicts remain between the City and the other stockholders in the reservoir.

Consolidate	ed	Home	Sup	ply	Ditch	&
Reservoir	Co.	V.	Town	of	Berthe	oud
(93SA307)						

The Supreme Court upheld that Berthoud has the first priority for all uses based upon the consistent treatment of Berthoud's water right by the Division Engineer as being the first priority as a result of a State Engineer's decision in 1944. The water court held that Berthoud had abandoned its 3.0 cfs right during the winter months and the Supreme Court remanded the case to the water court with directions to make factual findings and conclusions of law on the issue of abandonment.

Personnel/Workload Issues

Well Administration Activities

uring 1995 water commissioners were required to participate in the well construction observation program. The program had problems of timely notice both from the well drillers and internally between the Denver Office and the Greeley. The need for copies of the permits in the hands of the water commissioners further complicated the communication and timeliness of our field observation program. It was decided by the Colorado Water Well Contractors Association that the program was getting the desired results and thus it was decided to discontinue the program. I have asked my water Commissioners to make random stops at drill sites when they have time and to observe if the well permit is on the drill rig and to look for any other rules infractions that they may have a knowledge including drilling the well at the incorrect location shown on the well permit.

Lower	South	Platte	River	Group
Investig	ation			

ate in 1995, the Colorado Water Conservation Board approved a grant of \$75,000 to identify and evaluate water resources management and development opportunities in the lower South Platte River basin in Colorado, former Water District 64. In addition to Conservation Board money, the Lower South Platte River Water Conservancy District, the Northern Water Conservancy District, the Platte River Project, and the Ground Water Appropriators of the South Platte each contributed \$5000 toward the investigation. These monies will be supplemented by performance of significant in kind services by the participants in the Investigation. Division personnel have participated and will continue to participate in the The estimated original investigation. study length is anticipated to be 2 years. The investigations will include and hydrologic analysis database development, identification of potential management and development opportunities, on-site field work including pilot demonstration or projects, and establishment of a process for feasibility studies and long-term Most likely, the group will funding. focus specifically on recharge projects in District 64 to retime excess flows in the winter and spring so that they return at times of need in the summer.

South Platte Water Rights Management System

ontracts have or will be implemented with CADSWES to finish documentation and provide minor enhancements to the system. A principal enhancement will be to allow data from the system to be input into a PC point flow model which has been developed by the Northern Colorado Water Conservancy District. DWR staff and CADSWES have been coordinating with Northern to allow this interaction. As part of the new contract, CADSWES is also completing an enhancement to allow the application to read text files as a source of data for the Water Information Sheets. This will allow outside users to provide real time information which can be automatically imported into the system once verified.

A third area of improvement will be of the PC Communications package. Since the inception of the project, there have been many industry changes in communication, the primary being the expanded use of the INTERNET. The goal would be to modify communications to take advantage of these changes including allowing access to the system through the INTERNET. This will extend the useful life of the system by making it more flexible, and may decrease the cost of long distance telephone calls into the system.

Most important, the programmers documentation will be completed this year and updates to the users and data documentation will be completed. Finally, the contract provides for continued support and maintenance and several other minor enhancements to the system that have been identified during its use to increase the utility of the existing system.

DWR presently plans to hire a programmer whose responsibilities include maintenance of the developed system. DWR staff are working on other revision control and cost recovery issues in order to maintain this system long term.

Cherry Creek Basin Management Plan

The Division began participation late in 1995 and plans to continue participating in a Cherry Creek basin management plan. The potential participants in the plan include the City of Aurora, East Cherry Creek Water and Sanitation District, the Arapahoe Water and Sanitation District, the Cottonwood Water and Sanitation District, the Parker Water and Sanitation District,

the Colorado Department of Parks and Outdoor Recreation, and the Division of Water Resources. The goal of the participants is to maximize the legally and physically available water in the basin by increased communication and coordination between users in the upper Cherry Creek basin, collection of necessary data and development of computer tools and models to facilitate water management. The Division believes that the plan will allow for better administration in the basin and potentially will reduce conflict amount participants.

Workload Measure Study

ivision staff are participating in a workload measures project for water commissioners. Determination of workload measures will assist the State Engineer in providing information to the legislature concerning existing staff use and necessity of new staffs. The project will also better define what staff does within the various basins in the state. The group plans to focus on diversion records and other information which is available in trying to develop workable measures of historic and present workload.

Dam Safety

The dam safety engineers in Division One plan to continue to inspect dams on the 1-2-6 frequency and assist federal agencies. Inspection of outlets will continue at a rate to accomplish all inspections within the 10 year period. Emergency preparedness plans (EPP's) should also be completed for Class 2 dams. Division staff should complete hydrologic reviews for all Class 1 dams and continue efforts toward completing Class 2 dams.

<u>Personnel</u>

he major impacts stemming from growth in the South Platte Basin has had significant impacts on water resource administration. Onearea where administration has been most affected has been in the complexity of new decrees and plans for augmentation. These items have resulted in increased overtime hours for water commissioners and staff. Since most water commissioners are already overtaxed for time Division One has asked that 1 1/2 additional full time employees (FTE's) be funded by the legislature. It is envisioned that 1/2 FTE would be combined with a 1/2 FTE already existing as a part time deputy water commissioner in District 7 (Clear Creek). This person would be expected to provide accounting expertise and work in the field in the Denver metro area and the adjacent foothills. This same person would be expected to help in water rights accounting in the Denver Office of the Division Engineer. In the northern region of the front range a full time FTE would be utilized in administration complex decrees such Thornton, Ft Collins and other decrees of Greeley, Loveland, and Longmont.

Runoff Forecast

	USABLE	T	USABLE STORAGE		
RESERVOIR	CAPACITY	THIS YEAR	LAST YEAR	AVERAGE	
ANTERO	20.0	6.0	14.0	15.0	
BARR LAKE	32.0	28.2	23.7	24.2	
BLACK HOLLOW	8.0	3.0	0.0	4.0	
BOYD LAKE	49.0	31.8	15.0	33.8	
CACHE LA POUDRE	10.0	8.5	5.0	7.6	
CARTER	108.9	79.5	90.0	90.8	
CHAMBERS LAKE	9.0	5.0	1.5	3.2	
CHEESMAN	79.0	73.0	49.0	55.5	
COBB LAKE	34.0	15.5	7.0	13.9	
ELEVEN MILE	97.8	99.0	99.0	91.0	
EMPIRE	38.0	26.0	27.9	26.3	
FOSSIL CREEK	12.0	9.0	10.0	7.2	
GROSS	43.0	24.0	15.0	25.7	
HALLIGAN	6.4	6.0	3.5	4.5	
HORSECREEK	16.0	12.6	13.4	13.2	
HORSETOOTH	149.7	140.6	129.6	100.7	
JACKSON	35.0	19.3	25.4	30.5	
JULESBURG	28.0	17.1	15.5	20.1	
LAKE LOVELAND	14.0	9.5	9.8	8.8	
LONE TREE	9.0	6.7	7.1	6.2	
MARIANO	6.0	4.3	3.9	4.6	
MARSHALL	10.0	6.2	4.1	4.5	1
MARSTON	20.0	17.0	14.0	13.9	
MILTON	24.0	17.8	16.7	14.8	
POINT OF ROCKS	70.0	66.3	60.3	62.5	
PREWITT	33.0	22.3	11.5	19.5	
RIVERSIDE	63.1	45.7	52.6	47.6	
SPINNEY MOUNTAIN	48.7	32.7	28.9		
STANDLEY	42.0	39.0	26.8	26.6	
TERRY LAKE	8.0	5.0	5.0	5.2	
UNION	13.0	11.4	4.4	10.6	
WINDSOR	19.0	12.5	11.0	11.0	

SOUTH PLATTE RIVER BASIN Reservoir Storage (1000 AF) - End of February

Information taken from Colorado Basin Outlook Report, March 1, 1996.

SOUTH PLATTE RIVER BASIN

WATER SNOWPACK

		THIS YEAI	R AS % OF	MOST PROBABLE STREAMFLOW FORECAST
WATERSHED	NUMBER OF DATA SITES	LAST YEAR	AVERAGE	APRIL-JULY (%OF AVERAGE)
BIG THOMPSON BASIN	6	203	155	160
BOULDER CREEK BASIN	5	263	184	
CACHE LA POUDRE BASIN	8	221	141	145
CLEAR CREEK BASIN	4	187	160*	
SAINT VRAIN BASIN	3	334	200	171
UPPER SOUTH PLATTE BASIN	11	138	126*	

*Information taken from Colorado Basin Outlook Report, March 1, 1996



TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS

SOURCE		STREAM	SAND & DEADMAN CR	DEADMAN CREEK	NUNN CREEK	DEADMAN CREEK	LARAMIE RIVER	LARAMIE RIVER	MICHIGAN RIVER	MICHIGAN RIVER	COLORADO RIVER	COLORADO RIVER	COLORADO RIVER	FRASER RIVER	FRASER RIVER	MONTEZUMA CREEK	BLUE RIVER	INDIANA CREEK	BLUE RIVER	HOMESTAKE CREEK
		□	4604	4608	4606	4607	4600	4605	4602	4603	4601	4602	4634	4655	4625	4626	4684	4685	4683	4644
		۵M	48	48	48	48	84	48	47	47	51	51	51	51	51	36	36	36	36	37
	r year	DAYS	22	0	0	0	63	0	0	363	103	0	365	327	71	57	225	0	152	
	CURRENT	AF	978	0	0	0	10260	0	0	5900	20080	0	225000	24670	815	760	52530	0	5120	
	AVG	DAYS	39	22	0	0	106	ε	18	223	134	30	359	345	100	96	186	30	149	
	10 YEAR	AF	1510	411	0	0	18001	2205	67	3224	20369	40	245640	60456	770	724	55282	69	10570	
RECIPIENT		STREAM	CACHE LA POUDRE RIVER	BIG THOMPSON RIVER	BIG THOMPSON RIVER	SOUTH PLATTE RIVER	CLEAR CREEK	CLEAR CREEK	SOUTH PLATTE RIVER	SOUTH PLATTE RIVER	ARKANSAS RIVER	SOUTH PLATTE RIVER								
		NAME	WILSON SUPPLY DITCH	DEADMAN DITCH	BOB CREEK DITCH	COLUMBINE DITCH	LARAMIE-POUDRE TUNNEL	SKYLINE DITCH	CAMERON PASS DITCH	MICHIGAN DITCH	GRAND RIVER DITCH	EUREKA DITCH	ADAMS TUNNEL	MOFFAT TUNNEL	BERTHOUD PASS DITCH	VIDLER TUNNEL	ROBERTS TUNNEL	BOREAS PASS DITCH	HOOSIER PASS DITCH	AURORA HOMESTAKE
		٩	4604	4608	46D6	4607	4600	4605	4602	4603	4601	911	4634	4655	4625	4626	653	4611	4612	4490
		MD	ю	e	ю	e	e	ю	е	e	3	4	4	9	7	7	8	23	23	23

ARIES BY DISTRICT	
RESERVOIR STORAGE SUMM	
	WATER DISTRICT 1

						AMOUNT IN STC	DRAGE (AF)	
۵ M	<u>0</u>	RESERVOIR NAME	SOURCE STREAM	MIM	MUM	(AM	KIMUM	END OF YEAR
				AF	DATE	AF	DATE	
-	3570	BIJOU #2	SOUTH PLATTE	0	03/31/95	5020	09/30/95	UUDE
-	3816	EMPIRE	SOUTH PLATTE	6953	11/30/94	37292	03/31/95	17450
٢	3817	JACKSON	SOUTH PLATTE	7132	11/30/94	27257	04/30/05	18787
٠	3651	RIVERSIDE	SOUTH PLATTE	12529	09/30/95	63113	03/31/05	10201 2601 B
۲	3400	VANCIL	SOUTH PLATTE	1627	09/30/95	4934	06/30/05	2010
1	3592	HORSE CREEK	HORSE CREEK	1404	11/30/94	15222	06/30/95	7681
1	3609	PROSPECT	PROSPECT CREEK	0	10/31/95	5103	06/30/95	1001
-		OTHERS		3		2436	0000	919
-		TOTALS		29648		160377		77785

RESERVOIR STORAGE SUMMARIES BY DISTRICT

END OF YEAR 80729.35 1475.03 923.19 2840.13 10800 40790 3062 7681 6212 4500 2335 111 0 0 06/01/95 05/01/95 04/30/95 06/01/95 05/31/95 01/31/95 08/01/95 06/01/95 05/01/95 08/01/95 08/01/95 05/01/95 08/01/95 DATE AMOUNT IN STORAGE (AF) MAXIMUM 142835.61 2878.55 3485.18 3927.32 2736.56 31000 22674 15222 42268 6212 5370 2723 3157 696 486 AF 11/01/94 04/01/95 12/01/94 09/01/95 09/01/95 03/31/95 10/31/95 03/31/95 11/01/94 10/01/95 04/30/95 10/31/95 10/31/95 DATE MUMINIM 1575.52 1475.03 53402.55 665.99 2463.01 26833 4750 6212 2174 1404 4500 1261 AF 0 89 0 SOURCE STREAM LITTLE DRY CREEK WALNUT CREEK SOUTH PLATTE WOMAN CREEK SOUTH PLATTE SOUTH PLATTE CLEAR CREEK WEST GRAVEL LAKES COMBINED RESERVOIR NAME TANI LAKES COMBINED **GREAT WESTERN** OASIS RES/BARR LOWER LATHAM BULL CANAL #8 HORSE CREEK COAL RIDGE PROSPECT STANDLEY OTHERS TOTALS MILTON QUINCY LORD 3876 3837 3878 3858 3375 3903 3700 3699 3351 3890 3861 3902 3877 ≙ MD 2 2 3 2 2 2 2 3 2 2 2 2 2 2 2

					ΔA	ACTA IN STOR	AGE (AE)	
۵N	۵	RESERVOIR NAME	SOURCE STREAM	ĨW	MIMUM	/M	MUMIXA	END OF YEAR
				AF	DATE	AF	DATE	
Э	3774	FOSSIL CREEK	FOSSIL CREEK	4361	11/01/94	10857	04/30/95	6419
3	3712	HALLAGAN	N FK POUDRE RIVER	525	10/31/95	6428	05/31/95	525
в	3707	INDIAN CREEK/MTN SUPPLY	INDIAN CREEK	811	03/31/95	1906	06/30/95	1887
ю	3697	NORTH POUDRE #2/DEMMEL LAKE	N FK POUDRE RIVER	2355	09/30/95	3470	07/31/95	2539
e	3702	NORTH POUDRE #3/HACKEL LAKE	N FK POUDRE RIVER	1377	11/01/94	2739	06/30/95	2356
е	3704	NORTH POUDRE #4	N FK POUDRE RIVER	395	07/31/95	622	11/01/94	573
ю	3698	NORTH POUDRE #5/BEE LAKE	N FK POUDRE RIVER	0	02/28/95	5622	06/30/95	5325
ю	3716	NORTH POUDRE #15	N FK POUDRE RIVER	1265	11/01/94	5362	06/30/95	4532
e	3715	PARK CREEK	PARK CREEK	2231	11/01/94	7090	07/31/95	3986
ю	3730	COBB LAKE	CACHE LA POUDRE RIVER	6932	04/30/95	21100	07/31/95	15700
e	3713	SEAMAN/MILTON SEAMAN	N FK POUDRE RIVER	2424	04/30/95	4519	05/31/95	2663
е	3780	CLAYMORE	CACHE LA POUDRE RIVER	300	09/30/95	954	05/31/95	367
ю	3772	SEELEY	CACHE LA POUDRE RIVER	865	10/31/95	1133	04/30/95	865
9	3804	WARREN	CACHE LA POUDRE RIVER	933	10/31/95	2228	07/31/95	933
ю	3786	WOOD	ROLLARD DRAW	1754	11/01/94	2166	10/31/95	2166
9	3678	JOE WRIGHT/CAMERON	CACHE LA POUDRE RIVER	1186	11/01/94	7094	07/31/95	2324
в	3952	RAWHIDE	CACHE LA POUDRE RIVER	12131	11/30/94	13255	06/30/95	12385
6	3732	HORSETOOTH	DIXON CANYON CREEK	69247	11/01/94	155218	06/30/95	107982
ю	3725	DOUGLASS	CACHE LA POUDRE RIVER	4107	11/01/94	8220	07/31/95	5255
т	3727	WINDSOR RESERVOIR #8	CACHE LA POUDRE RIVER	3700	10/31/95	9364	07/31/95	3700
ы	3728	NO. 8 ANNEX	CACHE LA POUDRE RIVER	1198	04/03/95	3430	07/31/95	1096
ю	3738	WINDSOR RESERVOIR	CACHE LA POUDRE RIVER	6851	11/01/94	17598	06/30/95	11123
3	3679	CHAMBERS	JOE WRIGHT CREEK	1246	11/30/94	8184	07/31/95	4671
З	3676	LONG DRAW/GRAND RIVER	LONG DRAW CREEK	832	11/01/94	10519	06/30/95	3014
3		SUBTOTALS		127026		309078		207386

RESERVOIR STORAGE SUMMARIES BY DISTRICT

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3 (CONTINUED)

END OF YEAR 202386 234830 4089 2433 3303 3306 4805 1925 2405 6525 640 370 513 640 650 840 0 0 0 C 07/31/95 07/31/95 06/30/95 07/31/95 06/30/95 06/30/95 09/30/95 06/30/95 06/30/95 02/28/95 06/30/95 06/30/95 08/31/95 07/31/95 06/30/95 06/30/95 07/31/95 06/30/95 DATE AMOUNT IN STORAGE (AF) MAXIMUM 370072.92 309078 5356.92 10070 2999 3565 7530 3750 1203 2436 4673 793 4241 775 6525 2616 1326 651 948 734 AF 803 04/30/95 11/30/94 10/31/95 09/30/95 08/31/95 11/01/94 04/30/95 04/30/95 11/01/94 11/01/94 04/30/95 12/31/94 03/31/95 11/01/94 11/01/94 08/31/95 08/31/95 11/1/94 DATE MINIMUM 127026 143825.4 2193.4 389 2093 2805 3234 370 2470 1300 571 477 330 567 AF 0 0 0 0 0 0 0 BARNES MEADOWS CREEK CACHE LA POUDRE RIVER SOURCE STREAM LONG POND RESERVOIR LONG POND RESERVOIR N FK POUDRE RIVER SOUTH PINE CREEK BOX ELDER CREEK **BIG BEAVER CREEK BIG BEAVER CREEK BOX ELDER CREEK** DUCK SLOUGH SHEEP CREEK **MOUNTAIN SUPPLY RESERVOIR #18** LONG POND/WATER SUPPLY #5,6,7 BALANCE FROM PREVIOUS PAGE ROCKY RIDGE/WATER SUPPLY #1 **NORTH POUDRE RESERVOIR #6** RESERVOIR NAME DOWDY LAKE RESERVOIR SOUTH GRAY RESERVOIR **BIG BEAVER RESERVOIR** COMANCHE RESERVOIR TERRY/LARIMER WELD WATER SUPPLY #3 WATER SUPPLY #4 **BLACK HOLLOW** WINDSOR LAKE WORSTER TIMNATH OTHERS CURTIS KLUVER BARNES TOTALS 3744 3735 3742 3736 3739 3805 3726 3775 3699 3708 3745 3686 3740 3683 3720 3737 3770 3751 ₽ **ND** 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 e 3 3 3

					AN	IOUNT IN STORA	(GE (AF)	
۵M	Q	RESERVOIR NAME	SOURCE STREAM	2	INIMUM	ΨW	XXIMUM	END OF YEAR
				AF	DATE	AF	DATE	
4	4156	BOULDER & LARIMER/ISH	LITTLE THOMPSON	465	03/31/95	7061	05/31/05	1765
4	4110	BOYD LAKE	BIG THOMPSON	27281	09/30/95	15149	04/30/95	7640
4	4513	CARTER	BIG THOMPSON	74467	09/30/95	111189	06/30/95	70756
4	4116	DONATH	BIG THOMPSON	553	03/31/95	1153	04/30/95	615
4	4166	HERTHA RESERVOIR	DRY CREEK HERTHA	365	10/31/95	1703	04/30/95	365
4	4123	HORSETOOTH RESERVOIR	BIG THOMPSON	2848	11/30/94	7859	07/31/95	4185
4	4487	LAKE LOVELAND	BIG THOMPSON	9101	10/31/95	12541	04/31/95	4105
4	4136	LON HAGLER	BIG THOMPSON	2807	11/30/94	5108	05/31/05	1010
4	4137	LONE TREE	BIG THOMPSON	3351	09/30/95	9068	05/31/05	94.44
4	4133	LOVELAND LAKE	BIG THOMPSON	695	11/30/94	1719	02/31/33	1400
4	4134	BOEDECKER LAKE/MARINO	BIG THOMPSON	2465	08/31/95	5851	05/31/05	9695
4	4146	WELCH LAKE	BIG THOMPSON	3222	03/31/95	6747	02/31/33	2020
4		OTHERS		1355	001000	2552	001010	0000
4		TOTALS		128975		187700		147706

RESERVOIR STORAGE SUMMARIES BY DISTRICT

RESERVOIR STORAGE SUMMARIES BY DISTRICT

					AN	IOUNT IN STOR	AGE (AF)	
D M	۵	RESERVOIR NAME	SOURCE STREAM	MIM	IIMUM	۹W	MUMIX	END OF YEAR
				AF	DATE	AF	DATE	
5	4020	BEAVER POND	BEAVER CREEK	402	01/31/95	2150	06/30/95	520
5	4071	FOOTHILLS	ST. VRAIN	960	11/30/94	3573	05/31/95	020
5	4037	HIGHLAND #1	ST. VRAIN	341	08/31/95	978	05/31/95	75.4
2	4032	HIGHLAND #2	ST. VRAIN	2150	12/31/94	3712	07/31/95	7316
5	4038	HIGHLAND #3	ST. VRAIN	448	08/31/95	1669	05/31/95	1308
5	4073	MCINTOSH	ST. VRAIN	920	10/31/95	2408	06/30/95	000
2	4063	PLEASANT VALLEY	ST. VRAIN	1483	09/30/95	3076	05/31/95	250 2460
5	4067	OLIGARCHY RESERVOIR #1	ST. VRAIN	1025	10/31/95	1737	05/31/95	1461
5	3905	UNION	ST. VRAIN	4018	10/31/94	12768	06/30/05	7580
5	4076	LEFT HAND PARK	LEFT HAND CREEK	1093.75	10/31/94	1548 7	06/30/95	1101 5
5	4488	LEFT HAND VALLEY	LEFT HAND CREEK	460.5	10/31/94	1626	06/30/95	1408
5	4010	BUTTON ROCK	ST. VRAIN	11259.7	04/30/95	16197.2	06/30/95	15801
5	4379	NEW THOMAS	ST. VRAIN	1701.6	10/31/94	2263.9	06/30/95	2130 3
5	4081	LAGERMANN	LEFT HAND CREEK	876.7	10/31/94	1016.8	05/31/05	010.6
5	4065	MCCALL RESERVOIR	ST. VRAIN	254	10/31/94	494	05/31/95	459
5		TOTALS		27393.25		55217.6		40205.4

RESERVOIR STORAGE SUMMARIES BY DISTRICT

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				AN	IOUNT IN STOR	RAGE (AF)	
	RESERVOIR NAME	SOURCE STREAM	NIW	IMUM	ΨW	XIMUM	END OF YEAR
			AF	DATE	AF	DATE	
1	ALBION	ALBION CREEK	1111	11/30/94	1111	11/30/94	1111
- 1	BARKER	BOULDER CREEK	1909	06/30/95	11468	07/31/95	9136
1	BASELINE	BOULDER CREEK	1494	02/28/95	5326	06/30/95	3882
3	BOULDER	BOULDER CREEK	4390	01/31/95	12089	06/30/95	6657
1	GOOSE	NORTH BOULDER CREEK	200	05/31/95	1036	07/31/95	684
	GROSS	SOUTH BOULDER CREEK	19875	11/30/94	15660	04/30/95	37529
1	HILLCREST	BOULDER CREEK	1884	11/30/94	2207	06/30/95	1985
	LEGGETT	BOULDER CREEK	1360	11/30/94	1600	06/30/95	1435
- 1	MARSHALL	SOUTH BOULDER CREEK	3474	11/30/94	9750	06/30/95	4820
	PANAMA	BOULDER CREEK	500	09/30/95	4000	05/31/95	1200
	SILVER	NORTH BOULDER CREEK	1028	05/31/95	4000	07/31/95	3986
	SIX MILE	BOULDER CREEK	800	11/30/94	1300	05/31/95	800
	VALMONT	SOUTH BOULDER CREEK	6686	11/30/94	7426	06/30/95	6919
	TOTALS		44711		76973		80144
					~		FIN

					AN	10UNT IN STORA	VGE (AF)	
Ø	0	RESERVOIR NAME	SOURCE STREAM	NIW	IMUM	MAX	IMUM	END OF YEAR
				AF	DATE	AF	DATE	
7	3324	RALSTON	RALSTON CREEK	6029	03/31/05	10350	Celanine Delanine	1770
7	4459	TUCKER	RALSTON CREEK	150	11/30/04	500	00/20/30	1041/
7	3406	COORS B #3	CLEAR CREEK	1194	05/31/05	200	00/01/30	190
7	3407	COORS B #4	CI FAR CREEK	3350	10,001	0007	05/00/00	24/6
1	0000			0000	+p://	4000	CR/12//0	4000
-	0000	BLUNN	CLEAR CREEK	2451	09/30/95	5462	05/31/95	2729
2	3702	FAIRMOUNT	CLEAR CREEK	768	04/30/95	956	11/30/95	785
7	4411	MAPLE GROVE	SOUTH CLEAR CREEK	827	02/28/95	1141	04/30/05	1076
7		OTHERS		1254		2933	0000	2003
7		TOTALS		16033		01020		0007
				07001		21042		19666

RESERVOIR STORAGE SUMMARIES BY DISTRICT

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 8

					A	MOUNT IN STOP	(AGE (AF)	
Ø	₽	RESERVOIR NAME	SOURCE STREAM	MIN	MUM	W	AXIMUM	END OF YEAR
				AF	DATE	AF	DATE	
8	3514	CHATFIELD	SOUTH PLATTE	20272	09/01/95	48478	07/01/05	20765
80	3532	CHERRY CREEK	CHERRY CREEK	11797	11/01/94	13474	07/01/95	60/07
80	3832	MCLELLAN	DAD CLARK DITCH	4377.22	11/01/94	5866 27	06/01/05	5003 EG
80	3983	STRONTIA SPRINGS DVR DAM	SOUTH PLATTE	5807	08/01/95	7451	05/01/95	5003.30
8		TOTALS		42253.22		75210.27		JEGED EE
						17.01701		4008.00

WAT	ER DIST	RICT 9						
					AN	JOUNT IN STOR	AGE (AF)	
Ø	₽	RESERVOIR NAME	SOURCE STREAM	MIM	MUM	AM	XIMUM	END OF YEAR
				AF	DATE	AF	DATE	
6	3815	SODA #1, #2	BEAR CREEK	1036	08/31/05	1667	101105	1101
ი	4281	BOWLES	BEAR CREEK	1284	01/31/95	2006	04/30/05	CC01
6	4314	PATRICK	BEAR CREEK	1061	11/30/94	1165	10106/10	2011
6	3999	BEAR CREEK RESERVOIR	BEAR CREEK	1959	03/31/05	2601	04/30/33	1141
ი	4310	MARSTON	SOUTH PLATTE	13543	03/31/95	10428	00/30/33	2032
6		OTHERS		1762	0000	3140	08/10/00	804CI
ი		TOTALS		20645		30187		81000
						10100		

RESERVOIR STORAGE SUMMARIES BY DISTRICT

RESERVOIR STORAGE SUMMARIES BY DISTRICT

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					AM	OUNT IN STOP	RAGE (AF)	
QN N	<u>0</u>	RESERVOIR NAME	SOURCE STREAM	WIW	IMUM		MAXIMUM	END OF YFAR
				AF	DATE	AF	DATE	
23	3904	ANTERO	S FK SOUTH PI ATTE	10078	00124105	01010	1.00	
2				07661	CR/10/00	91907	06/30/95	20059
23	3962	MONTGOMERY	MID FK SOUTH PLATTE	202	05/31/95	5851	10124105	1100
50	3065				001000	1000	00/10/00	4103
24	0000		MID FK SOUTH PLATTE	96630	11/30/94	102918	06/30/95	OORSR
23	4013	SPINNEY MOUNTAIN	MID FK SOLITH PLATTE	32005	20100100	1001		00000
				00000	CE/07/70	10000	06/30/95	41746
23		TOTALS		1 EDEAE		10000		
				0000		00030		165632

RESERVOIR STORAGE SUMMARIES BY DISTRICT

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WATER DISTRICT 64

						MOUNT IN STO	RAGE (AF)	
QN	٩	RESERVOIR NAME	SOURCE STREAM	MIN	IIMUM	Ž	AXIMUM	END OF YEAR
				AF	DATE	ÅF	DATE	
64	3552	PREWITT	SOUTH PLATTE	7456	11/20/04	00000		
64	3551	NORTH STERLING		oot i	10001	70000	CR/15/CD	18252
				3820	09/30/95	74876	04/30/95	18922
64	3906	JULESBURG	SOUTH PLATTE	5372	08/31/95	22521	04/30/05	10370
					000000	4404	CODO-FO	130/0
64		TOTALS		2764R		1 75007		
				00077		166071		26696

RESERVOIR STORAGE SUMMARIES BY DISTRICT

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WATER DISTRICT 80

WD ID RESERVOIR NAME SOURCE STREAM MINIMUM MAX 80 3550 CHEESMAN S FK SOUTH PLATTE 48971 02/28/95 80514 1 80 3829 VELLINGTON N FK SOUTH PLATTE 2427 11/01/94 4399 80 3828 ALTURA RESERVOIR N FK SOUTH PLATTE 2427 11/01/94 4399 80 3828 ALTURA RESERVOIR R ENEVACREEK 90 11/30/94 610 80 TOTAL TOTAL 51488 51488 85523 85523						AMG	OUNT IN STOR	AGE (AF)	
80 3550 CHEESMAN S FK SOUTH PLATTE 48971 D ATE AF AF 80 3550 CHEESMAN S FK SOUTH PLATTE 48971 02/28/95 80514 1 80 3829 WELLINGTON N FK SOUTH PLATTE 2427 11/01/94 4399 80 3828 ALTURA RESERVOIR GENEVA CREEK 90 11/30/94 610 80 TOTAL TOTAL 51488 51488 510	۵ ۸	<u>0</u>	RESERVOIR NAME	SOURCE STREAM	NIW	IMUM	1M	MIMIM	END OF YEAR
80 3550 CHEESMAN S FK SOUTH PLATTE 48971 02/28/95 80514 80 3829 WELLINGTON N FK SOUTH PLATTE 2427 11/01/94 4399 80 3828 ALTURA RESERVOIR R FK SOUTH PLATTE 2427 11/01/94 4399 80 3828 ALTURA RESERVOIR GENEVA CREEK 90 11/30/94 610 80 TOTAL TOTAL 51488 51488 85523					AF	DATE	AF	DATE	
80 3829 WELLINGTON N FK SOUTH PLATTE 2427 11/01/94 4399 80 3828 ALTURA RESERVOIR GENEVA CREEK 90 11/30/94 610 80 TOTAL TOTAL S1488 51488 85523 11/30/94 85523	80	3550	CHEESMAN	S FK SOUTH PLATTE	48971	02/28/95	R051.4	DE/20/0E	20077
80 3828 ALTURA RESERVOIR GENEVA CREEK 90 11/30/94 610 80 TOTAL 51488 51488 85523	80	3829	WELLINGTON	N FK SOUTH PLATTE	7047	11/01/04	0000	00/00/20	1/030
80 3828 ALTURA RESERVOIR GENEVA CREEK 90 11/30/94 610 80 TOTAL 51488 51488 85523	00				- 171	toingin	0004	CRINCICN	4399
80 TOTAL 51488 85523	ßÜ	3828	ALTURA RESERVOIR	GENEVA CREEK	6	11/30/94	610	06/30/95	790
	80		TOTAL		51.488		00000		
					00110		07000		68/18

MITH DITCHES REPORTING OTHERS ESTIMATED TOTAL TOTAL TOTAL TOTAL NO. OF WITH NO WATER NO. OF NO. OF WITH NO WATER NO WATER NO WATER NO WATER NO WATER NO WATER NO. OF NO. OF RECORD AVAL. TAKIN NO WATER NO WATER NO WATER NO. OF NO. OF 1 (1) (2) (3) (4) NO STORAGE NO. OF NO. OF 2 282 30 130 479 13556 45970 23231 19825 2 228 14 1177 1487 23046 349479 113656 7334 1 177 0 57316 135931 35067 35700 23053 2 134 1283 2152 129331 35365 65413 42234 1	ATE	ER DIVER	SION SUMM	ARIES								
D WITH NOWATER NO WITE NO WATER NO WATER NO WATER NO WATER NO WATER NO WATER TOTAL TOTAL NO O (1) (2) (3) (4) XAIL. RECORD DITCH DIVERSIONS TOTAL NO. O (1) (2) (3) (4) XD VISITS (AF) STORAGE (AF) RICALED 2282 330 87 130 4731 2315 855.41 373260 233218 1882.5 2283 134 0 57 137 2633 1497 23343 350677 35343 35343 35343 35343 134 0 277 148 239331 35583 49748 23343 73343 134 0 134 0 277 1487 203443 36773 36773 36773 36773 36773 36773 36773 36773 36773 36773 367733 36773 367373			DITCHES REPOR	TING	011	IERS	ESTIMATED		TOTAL	1	O IRRIGATION	
RECORD AVAIL TAKEN AVAIL RECORDS DIVERSIONS TO DIVERSIONS ACRES (1) (2) (3) (4) X	Δ	WITH	NO WATER	NO WATER	NO INFO	NO	NUMBER OF	TOTAL	DIVERSIONS	TOTAL	NO. OF	AVG
(1) (2) (3) (4) NISITS (AF) STORAGE (AF) RIRGATE 1 282 30 87 130 4791 2315 825641 372500 29218 19825 2 238 2 137 8 4197 1288 54302 125653 439748 230531 2 177 0 50 17 2693 1993 57319 330677 365790 230536 1 149 127 148 2152 12933 330677 36730 230536 1 139 35 14 1177 1487 20346 34739 113965 7334 1 136 13 35 1487 20346 36479 113965 7334 1 136 65 1487 20346 36479 113965 72363 1 117 1487 239702 84154 80756 100331		RECORD	AVAIL.	TAKEN	AVAIL.	RECORDS	DITCH	DIVERSIONS	ТО	DIVERSIONS	ACRES	AF PER
1 282 30 87 130 4791 2315 82541 373260 233216 180228 2 238 2 137 8 4187 1286 546302 173560 23051 23031 8 177 0 50 17 2683 1933 579319 330677 395790 230538 8 177 0 55 14 1177 1487 20346 34973 11395 7334 8 134 0 57 15 1188 2152 12931 3365 86413 7234 8 173 0 61 65 1642 1444 239702 84154 80756 10031 9 173 0 0 127 165 1444 239702 84154 8756 10031 9 1010 17 165 1442 239702 84154 8756 1205 1010 1		(1)	(2)	(2)	(4)		VISITS	(AF)	STORAGE	(AF)	IRRIGATED	ACRE
2 238 2 137 8 4187 1288 54302 12853 439748 23333 8 177 0 50 17 2633 1933 579319 33677 355790 23338 1 99 13 35 14 1177 1487 203445 34979 113955 73384 1 99 13 0 27 155 1933 55355 85413 20538 1 136 0 27 16 1462 2152 12931 35355 85413 74305 7334 1 100 0 127 16 1445 5165 10031 7406 5150 7334 1 100 0 127 16 1442 5146 5166 5166 5166 5166 5150 5150 1 100 0 156 113696 5166 5740 57405 5166 5156		282	30	87	130	4791	2315	825541	373250	293218	198225	1.48
0 177 0 50 17 2663 1933 57319 336770 336790 230533 1 99 13 35 14 1177 1487 20346 34979 113955 7334 1 134 0 27 15 1188 2152 12931 35355 85413 42231 1 134 0 27 15 1487 20346 3479 13856 10031 1 134 0 17 16 1462 144 239702 84154 80756 10031 1 100 0 11 16 1462 144 239702 84154 80756 10031 1 1010 1 165 1442 314 13636 57406 5150 5766 5766 5766 5766 5766 5756 5657 5005 5656 5657 5006 5657 5056 5657 5000 <		238	2	137	8	4187	1288	546302	125853	439748	232831	1.89
(1) (39) (13) (35) (14) (147) (1487) (203446) (34947) (113955) (73344) (5) (134 (0) (27) (15 (1188) (2152) (129331) (33358) (85413) (42231) (6) (134) (15) (16) (145) (1584) (20563) (10016) (57408) (5150) (7) (10) (1) (185) (44) (5037) (2153) (2150) (3731) (3730) (3730) (3730) (7) (10) (1) (15) (145) (1584) (20563) (10016) (57408) (5150) (5150) (7) (10) (1) (16) (1442) (2153) (2130) (5160) (5176) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) (5160) </td <td></td> <td>177</td> <td>0</td> <td>50</td> <td>17</td> <td>2693</td> <td>1993</td> <td>579319</td> <td>330677</td> <td>395790</td> <td>230538</td> <td>1.72</td>		177	0	50	17	2693	1993	579319	330677	395790	230538	1.72
134 0 27 15 1188 2152 12931 35365 85413 42231 1 173 0 61 65 1642 1444 239702 84154 80756 10031 1 100 0 127 16 1405 1584 200563 10016 57408 51200 1 437 1 185 44 5037 2125 409720 87311 74300 9780 1 437 1 185 44 5037 2125 409720 87311 74300 9780 1 94 0 7 16 1442 314 13636 5066 3245 9565 2 235 235 31636 6456 3245 9565 9566 2 2 2 13699 1624 18349 6456 32455 9565 9566 2 136 2 2 2 <t< td=""><td>_</td><td>66</td><td>13</td><td>35</td><td>14</td><td>1177</td><td>1487</td><td>203446</td><td>349479</td><td>113995</td><td>73384</td><td>1.55</td></t<>	_	66	13	35	14	1177	1487	203446	349479	113995	73384	1.55
173 0 61 65 1642 1444 239702 84154 80756 10031 100 0 127 16 1405 1584 200563 10016 57408 51250 100 0 127 16 1442 5037 2125 409720 87311 74300 9780 1 94 0 7 16 1442 314 13636 5006 5875 2000 2 94 0 7 16 1442 314 13636 5006 5875 2000 3 235 2 128 6 1189 1040 11369 64656 32465 3665 3 235 235 3333 1622 3345 3465 3665 4 136 2 2033 0 18349 0 16656 32465 3665 1 136 2 2325 33337 3452 <t< td=""><td></td><td>134</td><td>0</td><td>27</td><td>15</td><td>1188</td><td>2152</td><td>129331</td><td>35385</td><td>85413</td><td>42231</td><td>2.02</td></t<>		134	0	27	15	1188	2152	129331	35385	85413	42231	2.02
100 0 127 16 145 145 145 145 146 533 516 5120 5136		173	0	61	65	1642	4144	239702	84154	80756	100331	80
437 1 185 44 5037 2125 409720 87311 74300 9780 94 0 7 16 1442 314 13636 5006 5875 2000 3 235 2 128 6 142 314 13636 5076 5875 2000 3 235 2 128 6 178 113069 64656 32465 9565 9565 5 5 0 27 0 77 1624 113069 64656 32465 9565 9565 6 16 0 77 0 16 0 376 1676 1656 7 0 164 172 16804 27347 3452 2465 15694 6 136 27347 18349 6 0 1833 1455 14554 14564 7 10 1712 1686 273347 3452		100	0	127	16	1405	1584	200563	10016	57408	51250	1.12
94 0 7 16 1442 314 13636 5006 5875 2000 8 235 2 128 6 1189 1040 113069 64656 32465 9565 8 56 0 27 0 7 0 18349 9655 9565 9 7 0 16 70 1624 18349 0 18349 4676 9 7 0 16 70 7347 18349 6455 1556 1 136 27 1686 273347 3452 242812 15594 1 136 2 27347 16333 0 3633 1555 1 136 2 27347 18345 3452 242812 13694 1 1 0 1712 1686 27347 34452 242812 13694 1 1 0 1 1 1		437	-	185	44	5037	2125	409720	87311	74300	9780	7.60
3 235 2 128 6 1189 1040 113069 64656 32465 9565 8 56 0 27 0 70 1624 18349 0 16349 4676 9 7 0 16 0 37 2052 3933 0 3333 1555 1 136 2 22 21 1712 1686 273347 34452 242812 13694 1 136 2 22 21 1712 1686 273347 34452 242812 13694 1 136 2 22 21 1712 1686 273347 34452 74812 13694 1 136 2 22 21 1029 3452 7041 4720 1 164 0 8 0 0 385 0 385 350 1 164 19 8 0		94	0	7	16	1442	314	13636	5006	5875	2000	2.94
56 0 27 0 70 1624 18349 0 18349 4676 7 7 0 16 0 37 2052 3933 0 3933 1555 4 136 2 22 21 1712 1686 273347 34452 242812 13694 1 136 2 22 21 1712 1686 273347 34452 242812 13694 1 136 2 22 21 1712 1686 273347 34452 242812 13694 1 10 0 17 0 81 0 952 376 7041 4720 1 164 0 84 0 385 0 385 350 1 164 19 84 0 8431 51909 12364 1914 1 2350 50 530596 155054 13614 1914 <td>_</td> <td>235</td> <td>2</td> <td>128</td> <td>9</td> <td>1189</td> <td>1040</td> <td>113069</td> <td>64656</td> <td>32465</td> <td>9565</td> <td>3.39</td>	_	235	2	128	9	1189	1040	113069	64656	32465	9565	3.39
7 0 16 0 37 2052 3933 0 3933 1555 1 136 2 22 21 1712 1686 273347 34452 242812 136904 1 15 0 17 0 81 0 9522 3765 7041 4720 1 10 0 17 0 81 0 9522 376 7041 4720 1 10 0 17 0 81 0 9522 376 7041 4720 1 16 0 17 0 846 0 385 0 385 350 350 1 164 0 846 0 64431 51909 12364 1914 1 2350 50 155254 1863852 13034 1314	_	56	0	27	0	70	1624	18349	0	18349	4676	3.92
1 136 2 22 21 1712 1686 273347 34452 242812 13694 5 17 0 17 0 81 0 9522 376 7041 4720 5 1 0 0 81 0 9522 376 7041 4720 5 1 0 0 9 9 0 385 0 385 350 1 164 0 41 19 846 0 64431 51909 12364 1914 1 2350 50 53804 3630596 155254 1863852 1100344		2	0	16	0	37	2052	3933	0	3933	1555	2.53
0 17 0 17 0 81 0 9522 376 7041 4720 0 1 0 0 0 9 0 952 376 7041 4720 1 1 0 0 9 9 0 385 0 385 350 1 164 0 41 19 846 0 64431 51909 12364 1914 1 2350 50 967 371 27506 23804 3630596 155254 1863852 1100344	-	136	2	22	21	1712	1686	273347	34452	242812	136994	1.77
0 0 0 0 0 9 0 385 0 385 350 350 0 164 0 41 19 846 0 64431 51909 12364 1914 T 2350 50 967 371 27506 23804 3630596 1552524 1863852 1100344		17	0	17	0	81	0	9522	376	7041	4720	1.49
0 164 0 41 19 846 0 64431 51909 12364 1914 T 2350 50 967 371 27506 23804 3630596 1552524 1863852 1100344		-	0	0	0	6	0	385	0	385	350	1.10
T 2350 50 967 371 27506 23804 3630596 1552524 1863852 1100344		164	0	41	19	846	0	64431	51909	12364	1914	6.46
	F	2350	50	967	371	27506	23804	3630596	1552524	1863852	1100344	41.78

DISTRICT 9 DITCH VISITS COMBINED WITH DISTRICT 80 DISTRICT 48 DITCH VISITS COMBINED WITH DISTRICT 76 DISTRICT 49 DITCH VISITS COMBINED WITH DISTRICT 65

WD	TRANS-MOUNTAIN OUTFLOW	TRANS-BASIN OUTFLOW	MUNICIAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
1	0	0	0	0	7791	0	0	0	37
2	0	0	48083	10284	2701	0	0	0	1
3	0	0	32042	0	2184	0	0	24	0
4	0	0	11100	0	0	0	0	0	0
5	0	0	17513	57	0	0	0	22	0
6	0	0	62602	43	786	0	0	0	0
7	0	0	20774	11	44623	0	0	0	0
8	0	0	225506	705	5806	0	4556	10577	949
9	0	0	2100	21	52	0	0	00	0
23	0	0	297	0	737	3624	163	0	236
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
64	0	0	335	1184	0	0	0	0	20
65	0	0	0	0	0	0	2105	0	0
76	0	0	0	0	0	0	0	0	0
80	0	0	145	13	0	0	0	0	0
то	0	0	420497	12318	64680	3624	6824	10623	1243

ATER DIVERSION SUMMARIES TO VARIOUS USE

WD	AUGMENTATION	EVAPORATION	GEOTHERMAL	SNOWMAKING	MINIMUM	POWER GENERATION	WILDLIFE	RECHARGE	OTHER
1	32981	0	0	0	0	0	0	69780	0
2	7055	0	0	0	0	0	0	8358	0
3	1635	202	О	0	0	0	0	0	0
4	2814	0	0	0	0	131863	0	0	0
5	6654	0	о	0	601	0	0	0	0
6	0	0	0	0	11203	0	0	0	0
7	23765	0	0	114	0	0	0	0	0
8	4800	1416	0	0	0	0	0	0	0
9	868	0	0	0	0	0	0	0	0
23	2490	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
64	1965	0	0	0	0	0	0	12003	0
65	0	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0
80	208	0	0	0	0	0	0	0	0
то	85235	1618	0	114	11804	131863	0	90141	0



WATER COURT ACTIVITIES Calendar Year 1995

Applications made to water court this year	291
Consultations with Referee this year	325
Decrees Issued by Court this year	202
Dismissals	17
Complaints	1

TYPES OF RULINGS

TYPE OF RULING	NUMBER OF CASES	NUMBER OF STRUCTURES
Findings of Diligence on Conditional Rights	50	97
Cancellations of Conditional Rights	1	1
Conditional Rights Made Absolute	14	17
Surface Water Rights Adjudicated	12	15
Underground Water Rights Adjudicated	64	355
Water Storage Rights Adjudicated	18	19
Plans for Augmentation Adjudicated	24	151
Changes of Water Rights Adjudicated	40	220
Instream Flow Rights Adjudicated	4	4

CALLING PRIORITY 1994-1995

	cts	ted	3.80	200								23,80	9,23,80	9.23.80	9.23.80			567		5.6.7.8.9.80		1.80		4.5.6.7.8.9.80	4,5,6,7,9,8,80				
	Distri	Affec	80.7	800	5	8.9.8(2.8	2.8	2.8	23	2.7.8	2,8,9,	2,7,8,	2.7.8	27.8	2.8	23	234	8.9.80	23.4	2.8	8,9,23	53	1.2.3.	123	8,9,80	2.8	8.9.80	
	Person	Placing Call	0		DENVER	DENVER	KEN TIMMERMAN	KEN TIMMERMAN	KEN TIMMERMAN	DENVER	BOB STAHL	KEN TIMMERMAN	BOB STAHL	BOB STAHL	BOB STAHL	BOB STAHL	DENVER	MAE CUNNING	DENVER	MAE CUNNING	KEN TIMMERMAN	DENVER	DENVER	MAE CUNNING	MAE CUNNING	KEN TIMMERMAN	BOB STAHL	DENVER	
	District		2	2	80	8	2	2	2	80	2	2	2	2	2	2	80	1	8	1	2	œ	80	-	-	æ	2	œ	
	Administration	Number	13108.00000	22239.00000	15973.00000	18018.00000	22355.00000	21562.00000	22355.00000	14423.00000	22355.00000	13108.00000	11338.00000	7948.00000	5969.00000	22355.00000	15975.00000	44723.00000	14519.00000	49841.00000	13108.00000	12924.00000	15975.00000	50466.00000	31423.29219	22254.00000	21562.00000	18018.00000	
	Appropriation	Date	11/20/1885	11/21/1910	09/24/1893	05/01/1899	03/17/1911	01/13/1909	03/17/1911	06/27/1889	03/17/1911	11/20/1885	11/15/1881	10/01/1871	05/05/1866	03/17/1911	06/27/1889	06/12/1972	10/01/1889	06/17/1986	11/20/1885	05/20/1885	06/27/1889	03/03/1988	12/31/1929	12/06/1910	01/13/1909	05/01/1899	
	Structure Name		BARR LAKE	PROSPECT	CHEESMAN	DENVER INTAKE	HORSECREEK	BARR LAKE	HORSE CREEK	CHEESMAN	HORSECREEK BYPASS TO DIST 2	BURLINGTON DIRECT	BRANTNER	EVANS #2	WESTERN	HORSECREEK	CHEESMAN	DIST 1 RECHARGE	DENVER INTAKE	VANCIL RESERVOIR	BURLINGTON DIRECT BYPASS	DENVER INTAKE	CHEESMAN	RIVERSIDE RECHARGE	DISTRICT 1 RESERVOIR	DENVER INTAKE	BARR LAKE	DENVER INTAKE	
Date Call	Released	1994-1995	12/08/1994	01/09/1995	03/01/1995	03/04/1995	01/23/1995	02/14/1995	03/14/1995	04/04/1995	04/04/1995	04/05/1995	04/06/1995	04/07/1995	04/10/1995	04/25/1995	04/25/1995	04/12/1995	04/25/1995	04/27/1995	04/26/1995	04/26/1995	05/23/1995	04/28/1995	05/02/1995	05/02/1995	05/04/1995	05/04/1995	
Date Call	Initiated	1994-1995	11/01/1994	12/08/1994	12/08/1994	12/08/1994	01/09/1995	01/23/1995	02/14/1995	03/01/1995	04/04/1995	04/04/1995	04/05/1995	04/06/1995	04/07/1995	04/10/1995	04/10/1995	04/10/1995	04/12/1995	04/12/1995	04/25/1995	04/25/1995	04/26/1995	04/27/1995	04/28/1995	04/28/1995	05/02/1995	05/02/1995	-

ate Call titated 194-1995 (23/1995 (09/1995 (09/1995 (11/1995 (11/1995 (125/1995 (127/1995	Date Call Released 1994-1995 06/15/1995 08/09/1995 09/11/1995 08/15/1995 09/11/1995 08/12/1995 09/11/1995 09/11/1995 09/11/1995 09/11/1995 09/11/1995 09/11/1995 09/11/1995	Structure Name Spinney Mountain FREE RIVER PERE RIVER DENVER BYPASS TO BURLINGTON BIJOU BURLINGTON BYPASS TO DIST 2 BURLINGTON BYPASS TO DIST 2 FARMERS FARMERS FOOTHILLS CONDULT 36	Appropriation Date 03/20/1973 03/21/1962 03/21/1962 10/01/1888 11/20/1885 07/11/1895 07/11/1895	Administration Number 45010.00000 45010.00000 14154.00000 14154.00000 13108.00000 13108.00000 16628.00000	District 23 23 23 64 64	Person Placing Call AURORA DENVER MAE CUNNING BOB STAHL BOB STAHL BOB STAHL JT HANRAHAN MAE CUNNING	Districts Affected 23 8,9,23,80 8,9,23,80 2,3,4,5,6,7,8,9,23,80 2,7,8,9,80,23 2,7,8,9,80,23 1,2,3,4,5,6,7,8,9,23,80
/1995	09/22/1995	DENVER INTAKE	12/06/1910	4/481.4098/ 22254.00000	80 80	DENVER	8,80,23 8,9 80 23
3/1995 2/1995	09/22/1995 11/01/1995	DENVER INTAKE CHEESMAN REFILL	12/06/1910 12/31/1929	22254.00000 22219.00000	80 89	DENVER	8,80,23 8,9,80,23 80 23
2/1995	11/01/1995	CHATFIELD	12/28/1977	46748.00000	8	DENVER	8,9

CALL RECORD 1994-1995 (CONTINUED)