



**Division 1
Annual Report**

2000 Irrigation Water Year

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CURRENT WATER YEAR

Water Administration



View Looking Upstream From Petersen Ditch in August

The 2000 water year turned out to be very dry. This contrasts with the far above average conditions we have experienced on the South Platte the previous 5 years. It also was not really expected as we had average snowpack and good reservoir storage conditions at the end of March, 2000.

The snowpack dropped dramatically the last few days of April due to the warm temperatures and dry conditions. Because of this drop, the overall average snowpack conditions were below average by the end of April. By the last week of the month, the call on the South Platte was for irrigation in District 2 above the confluence with the Saint Vrain. The priority date of the call was 11-20-1885. This is not an unusual call for this time of year though a departure from some of the previous wet years. A significant aid to the water supply conditions during the month of April was non-charge Colorado Big Thompson water made available to meet shortages on the tributaries to the South Platte. This kept a call off most of the tributaries within

the Northern Colorado Water Conservancy District boundaries.

The generally dry, warm conditions continued through May and June. Because of these conditions, runoff was both early and not as large as usual in the basins. Thus, the direct flow calls remained on, requiring many users to begin to use their storage supplies to meet needs during much of June. The call also kept junior reservoir owners on the mainstem from refilling. This was a significant departure from an average or wet year when reservoirs are topped off again during spring runoff.

As had been experienced all spring and summer, dry warm conditions continued throughout July. Based on these conditions, stream flow was significantly below average through the basin including the South Platte. For example, South Platte flow at Kersey averaged 388 cfs during July. This was much lower than the mean Kersey July flow for the period of record of 1085 cfs.

One significant rainstorm occurred in the Denver area in July that created high flows through much of the South Platte including over 2500 cfs of flow at Kersey. Even with this significant rainstorm event and other isolated events that helped supply conditions in local areas, flows at the state line never reached 60 cfs during the month. This was unusual when the mean flow for the period of record is 314 cfs.

The conditions in July created senior direct flow calls in the entire basin every day in July. The senior call on the South Platte above Kersey was 10-5-1871 and the senior call below Kersey was 10-14-1882. Both of these are senior calls in the respective reaches of river. Because of the senior calls and lack of supply, irrigators depended heavily on their reservoir and well supplies. Thus, reservoirs were lowered significantly.

Dry hot conditions continued through August. As a result, flow continued to be significantly below average in August throughout the month. Much of the irrigation demand on the mainstem and the tributaries continued to be met through wells and the release of reservoir storage significantly depleting reservoirs even forcing the removal of fish from several reservoirs. For example, the reduction in storage in North Sterling Reservoir was 20,790 acre-feet leaving 8120 acre-feet remaining at the end of the month of a full capacity of over 73,000 acre-feet. Similarly, the reduction in storage for Riverside was 14,910 acre-feet leaving only 10242 acre-feet remaining of a full capacity of over 63,000 acre-feet. Low storage levels caused the Division of Wildlife to remove fish from Julesburg and Jackson Reservoir.

Irrigation users began to curtail their use in the month of September as crops began reaching maturity. Helping was some minor precipitation the end of August and beginning of September that reduced irrigation demand. Except for some minor irrigation, especially for hay, irrigation was generally finished by the end of the month. As irrigation demand subsided, calls and diversions downstream of Denver were primarily to begin refilling several empty or near empty irrigation reservoirs. During most summers, diversions during the end of September and October would be for recharge. Because of the very dry conditions and storage levels of reservoirs, users this year forewent recharge in order to use their refill rights in an attempt to get a jump on next years supply. This potentially could cause shortages in recharge water next year. This storage was extremely important for the plains irrigation reservoirs. For example, Riverside Reservoir was down to only approximately 13,000 acre-feet of its over 63,000 acre-feet capacity at the beginning of the October. By the end of the month, enough water was diverted to storage to raise the level to approximately 30,000 acre-feet. In contrast, many of the reservoirs which

are used to supply the cities continue to be near full or at least at their seasonal average. These reservoirs tend to stay full as the cities reserve them for severe droughts.

The call for the whole month of November was for storage on the mainstem and many tributaries. This was the first storage call on the mainstem of the South Platte in November, for several years and is indicative of the concern of irrigators that they be able to fill their reservoirs. By the end of the month, three of the main irrigation reservoirs - Empire, Julesburg and Jackson were at or near their winter storage level. Riverside reservoir reached winter fill during December. North Sterling Reservoir still continues to fill and it is hoped will fill by the middle of March.

In Districts 80 & 23 there was a river call from below all year. In Districts 2,7,8 and 9 they experienced call for 228 day beginning April 26th and lasting until December 13th. District 1 experienced a call for 212 days. The increased dependence on wells because of the dry conditions during the summer of 2000 resulted in the Central and GASP organizations having to purchase additional replacement sources of water to offset their depletions. The need to acquire additional sources of water also resulted in both organizations looking at ways to maximize their existing resources. They did this in part by trading replacement sources between each of them as there were some reaches of the river where one had excess replacement sources and the other was in need of additional water. This sharing of resources and cooperation between each organization had not occurred in the past and opened channels of communication. Our office continually met with each organization to keep apprised of their activities and progress in finding replacement sources. We also met with the Bijou and Ft. Morgan Irrigation Companies to inform them of the operations of GASP and Central during the irrigation season.

Laramie Poudre River Tunnel

A setback in the Cache la Poudre basin was the collapse of the Laramie Poudre Tunnel on Memorial Day Weekend. The Tunnel runs from the Laramie River drainage and provides approximately 15-20% of the flow of the water for the Water Supply and Storage Company, one of the four major ditch systems in the Cache la Poudre basin. This exacerbated a short supply year for the Water Supply and Storage Company. Repair of the tunnel will occur in 2001 at an estimated cost of 3.5 million dollars. Money for tunnel reconstruction was obtained from the Colorado Water Conservation Board through an emergency loan.

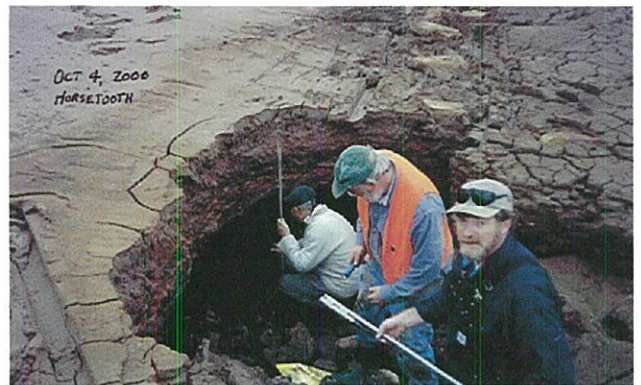
Dam Safety

The dam safety branch in Greeley is staffed with four engineers to perform periodic dam inspections. Under the current "1-2-6" program approximately 270 dams are to be inspected each year. All Class I dams are inspected annually, Class II dams inspected every other year, and Class III dams every six years. At the recommendation of a recent legislative audit, dams inspected by federal agencies have been removed from the periodic program. This has removed approximately 20 dams from the program. In calendar year 2000, 234 dams received periodic safety inspections. Another 64 site visits were conducted as part of follow-up activities either to assist the dam owner or to check on changing conditions or repairs. Construction oversight activities resulted in 20 construction inspections. Staff performed 9 outlet inspections, some using the SLED mounted camera device. The target date for having the outlets of all Class I and Class II dams inspected was December 1998, however continuing problems with camera equipment has hindered progress. All outlets accessible for visual inspection or with the SLED apparatus have been inspected to date, and an effort to coordinate for contracted inspections for non-accessible outlets has been considered.

With the completion of the hydrologic review of the spillways for Class 1 and Class 2 dams, staff is now in the process of working toward correcting spillway deficiencies. Due dates have arrived for completion of improvements for the more seriously inadequate dams. Plans to breach one Leyden dam (WD 7) were set aside in deference to a plan to modify the structure for flood control benefits. Designs have been submitted for review for several others. Staff continues to perform design review activities as time permits.

The Woodland Park Dam (WD 8) remains in a state of initial filling while an unexplained seepage concern is evaluated. Increased monitoring and evaluation of this condition has continued while the lake has been kept at a lowered elevation, and is slowly allowed to fill.

The US Bureau of Reclamation began a program to investigate seepage concerns at Horsetooth Dam (WD 3), and in the process of lowering the lake found sinkholes in the dam. Designs for repair are in progress.



Repairs to correct seepage concerns, and rebuild the spillway at Idaho Springs Dam (WD 7) began in the fall of last year. The onset of winter halted the placement of a membrane and embankment fill on the upstream slope. Over the winter the lake has been kept at a reduced level to protect material stockpiles for later use. Spillway designs are in progress, and the embankment work will be completed this year.

Hydrography

Stream flow data gathered at gaging stations is the basic information used by water administrators and water users to determine the available water supply within the division. Water Supply for the South Platte River and its tributaries for the 2000 water year was markedly diminished from previous years. A comparison of historic average and 2000 total flows for the South Platte at Kersey and South Platte at Julesburg gives a good indication of the kind of year we had in 2000.

South Platte at Kersey: Historic average flow (1976-1999)	928,100 AF.
2000 Water year flow	291,800 AF.

South Platte at Julesburg: Historic average flow (1902-1999)	408,900 AF.
2000 Water Year flow	216,900 AF.

Most of the supply at Kersey came during the winter as a residual from good flows in 1999. The April—September runoff period contributed only 30% of the total. During the irrigation season, flows at the Kersey gage dropped as low as 130 cfs, and at Julesburg the flow got down to 14 cfs.

The Satellite Monitoring System transition to an internet data base this year proved to be a very trying period for hydrographers. The system supplied only the last week of flow data for real-time water administration. Where monthly summary data was required, as with the CBT Skim calculations, the data had to be hand-pasted into spreadsheets. The new system also did not supply diagnostic information on satellite transmissions, and this hampered our maintenance of satellite equipment in the gages.

Published records could not be developed as the year progressed. An interim spreadsheet program for use with published records was not supplied until after the end of the water year. All of these factors undermined the efficiency of hydrographic operations in the 2000 water year.

Our maintenance program this year concentrated on upgrading equipment to assist water administration during low flow flows. Several manometers were replaced with more accurate and reliable instruments. Manometer lines and inlet pipes were modified to record lower stages. A new gage was temporarily installed near Fort Lupton and is being tested for its suitability to monitor water deliveries in district 2.

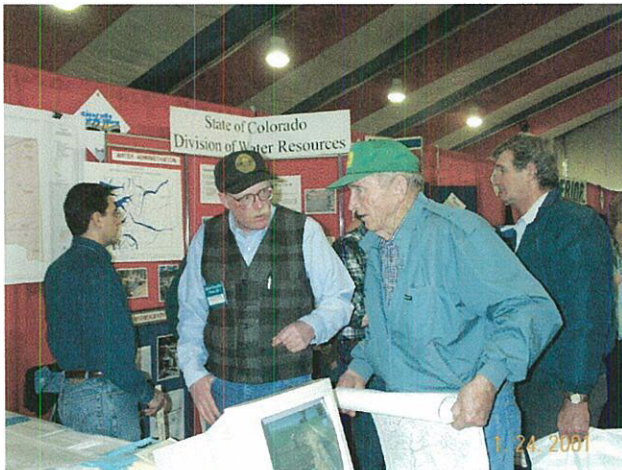
Our biggest maintenance effort was an extensive upgrade of our ability to interrogate DCP's via telephone. A total of twenty six older DCP's were replaced with newer units containing phone modems. These included our own equipment, USBR equipment maintained by us, and USACOE equipment cooperatively maintained with the USGS. Three new phone lines were run for our gages at Kersey, Balzac and Julesburg. Two additional telephone-access upgrades are planned at gages where there is potential for cooperative funding of phone lines.

Phone access gages provide our commissioners with real-time telephone data via a speech interface in the DCP, similar to our State Water Talk system. Also, modem access was programmed into the water commissioners' new computers by our I.T. staff. At the click of a mouse, many commissioners can to "log in" to their gage DCP and view the collected gage heights. This provides a valuable back up procedure for periods when the satellite monitoring system is undergoing maintenance. A list of our telephone access gages and phone numbers is included as an appendix to this report.

The hydrographic branch currently includes 2 engineers, 3 full time technicians, and 2 hydrographer/deputy water commissioners who operate the gages they use to administer water rights during the irrigation season. We are also currently planning to train and equip part-time/deputy water commissioners to make measurements in districts 5 and 65.

Involvement with the Community

Division One personnel continue to attend and make presentations at Conservancy District Meetings and Ditch Company meetings and meetings of realtors, homeowners groups, schools and universities. Specifically, staff this year were involved in providing a class that Colorado Water Congress Members presented to new legislators, gave presentations at one Board of Realtors seminar concerning water, provided a seminar to visitors from several countries that formerly were a part of the Soviet Union, provided several presentations at elementary schools, presented a speech for the Loveland Water Forum, taught a class for a course at UNC and provided a presentation to an Elder Hostel group. A presentation was also made to the Dividing The Waters Forum held by the Western State Judges in Vail. This year Greeley and Denver staff worked a booth at Greeleys' Farm Show. They updated the Display Boards that show the Division of Water Resources activities. Staff answered questions of the public that stopped at our booth. We had a very good response to the booth.



Division personnel continue to be actively involved in the South Platte Lower River Group and the Platte River Project group along with several other groups associated with Endangered Species Recovery Plan efforts for the South Platte. Specifically, in addition to attending these meetings, staff this year were

involved in several public meetings on the lower end of the South Platte, and participated in public meetings for groups providing augmentation for wells. Individual water commissioners and other Division staff also continue to attend and participate in many water user organization annual meetings.

ON-GOING PROJECTS

DWR MOU with DOW and Water Quality

A statewide Memorandum of Understanding (MOU) was developed and signed in 1997. This MOU involves both exchanges and reservoir operations. An annual review of the MOU has occurred since the MOU was signed by all three agencies. It has worked well when we are given advance notice by reservoir owners of activities that may present a risk to the fishery or aquatic ecosystem. During the past year the following activities occurred which resulted in our notifying DOW and Water Quality.

The City of Idaho Springs drained their reservoir starting July 19, 2000 to allow some investigations for repairs to the dam. They planned to drain the lake over 9-10 days. This had occurred a few times in the recent past, so it did not materially affect the fish population. The City was also asked to contact DOW. Jim Hall left a message for Steve Puttmann of DOW and talked to Greg Parsons at Water Quality Control.

East Dam, WD 7, was lowered in August, 2000 and was eventually emptied. The owners are planning some construction this fall. Although this is not necessarily a situation that is outside of normal operations, Steve Puttmann of DOW, and Water Quality had been contacted by neighbors. Greg Hammer spoke to the owner, who inform him that the lake went dry earlier than was intended. They had been contacted by various health agencies and the local police as well. There were some dead fish in the lake,

and outfall channel, and an odor was developing. They moved some water down into the lake to provide a bit of a pool to prevent the really bad stink from the lake bottom, and maybe better allow collection of the dead fish. In the outlet channel. They also tried to flush the fish away from people, or collect what they could to reduce the odor.

August 14, 2000, Dale Henry, manager with North Poudre Irrigation Company, notified DWR to say the company will be drawing down Halligan Reservoir from current level at GH 44.8' to about GH 27'. The company is increasing the monitoring of the outflow to twice per day to observe water quality to avoid excessive sediment discharge. North Poudre also notified the Conservancy District.

Bob Carlson notified DWR that Denver would release 100 cfs from Gross Reservoir September 18, 2000 down S. Boulder Creek from 11pm to 5 am to try to wash down some of the fire retardant slurry that apparently has been dropped in the area of the Creek. Bob thought they were coordinating this with DOW. Nevertheless, Jim Hall left Steve Puttmann a message.

Strontia Reservoir continued operations to flush sediments that were the result of fires that occurred in past years with advance notice being given to DOW in such a way that no negative impacts occurred.

Tamarack Development

Colorado's *Tamarack Plan* utilizes numerous managed groundwater recharge projects in the lower South Platte River in Colorado to develop water contributions to a Platte Basin ESA Program. These groundwater recharge projects involve the diversion of excess river flows by wells next to the river or by ditches to groundwater recharge basins. The seepage from these recharge basins returns through the groundwater aquifer to the river at a later time to augment river flows.

The lower South Platte River in Colorado is a gaining river system. The alluvial groundwater aquifer drains into the river channel because water levels in the aquifer are higher in elevation than river water levels. The increase in river flows as a result of the return flows/accretions from the aquifer can be 5 to 10 c.f.s. per mile as one moves downstream. The aquifer is supplied mainly from the seepage and deep percolation from existing canals, reservoirs, irrigation, and groundwater recharge programs. The managed groundwater recharge projects of Colorado's *Tamarack Plan* will increase the accretions that are already occurring to the river.

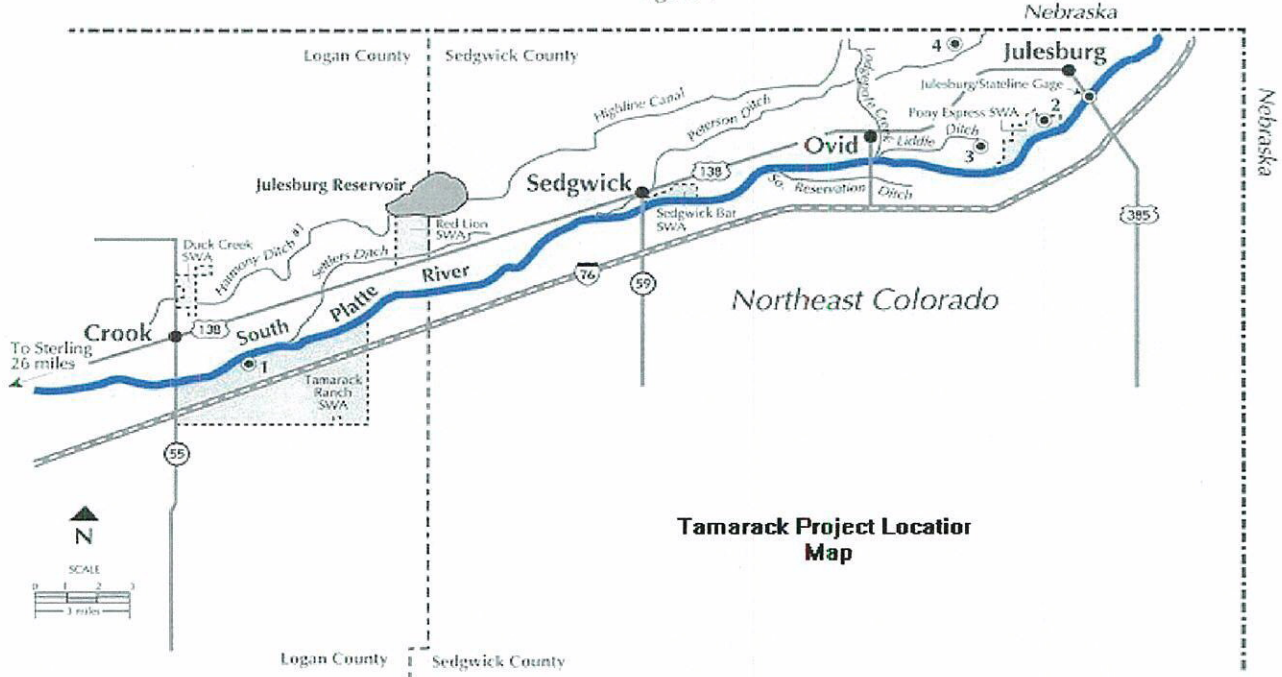
Colorado's *Tamarack Plan* has three phases. Phase 1 as described in Tab 3A of the Cooperative Agreement states; "the *Tamarack Plan* is estimated to increase flows at the Julesburg Gage during the period of April through September by an average of approximately 10,000 acre-feet over the flows that would otherwise occur during that period". Phase 2 is the use of *Tamarack Plan* facilities to re-regulate water to replace the future depletions of new water related activities as described in Colorado's Plan for Future Depletions (Tab 3B of the Cooperative Agreement). This re-regulation will shift net accretions to the stream resulting from future growth to periods of net depletions from future growth. Phase 3 is the expansion of the managed groundwater recharge operations and facilities to yield additional water at the Julesburg Gage during times of flow shortages in the critical habitat as part of the Water Conservation/Supply Action Plan. This analysis on the potential for expansion of Colorado's *Tamarack Plan* to provide a significant amount of water towards meeting the Water Conservation/Supply Action Plan goal of 60,000 to 80,000 acre-feet is ongoing.

Colorado's *Tamarack Plan* consists of multiple groundwater recharge projects located on both public and private lands. The public lands include Colorado Division of Wildlife's State Wildlife Areas (SWA). The Tamarack Ranch SWA, located 30 miles above the Colorado-

Nebraska state line, has been the location of a groundwater recharge demonstration project since 1997. The Pony Express SWA just above the state line and the Red Lion SWA between the Tamarack Ranch SWA and the Pony Express SWA will also be future locations of recharge efforts. The projects on these public lands use wells next to the river as the supply for the recharge basins.

The projects on private lands involve agreements with private landowners along the river and with private ditch companies. Numerous private landowners in the 30 miles of river from Tamarack Ranch SWA to the state line have expressed interest in developing wells next to the river to pump to recharge basins similar to the projects on the public lands. Private ditch companies on the South Platte

Figure 1



River in Colorado run their ditches before and after the irrigation season in order for the ditch seepage to recharge the aquifer. These ditches also supply water to recharge basins. The ditch recharge programs are used primarily to augment their shareholders' irrigation well depletions, but also to generate excess accretion credits that are not needed for well augmentation. This is especially true during February and March when additional water is needed in most years by a Platte Basin ESA Program because of water flow shortages in the critical habitat in central Nebraska. As part of Colorado's *Tamarack Plan*, Colorado will develop long-term agreements for excess credits with private ditch companies. Ditches for potential involvement in the *Tamarack Plan* include the Liddle, South Reservation, Peterson, North Sterling, South Platte, Lower Platte and Beaver, Upper Platte and Beaver, Bijou, Ft. Morgan, Pioneer, and Riverside. The locations of these ditches are from Greeley to Julesburg.

During the last year an additional 7 wells have been drilled, well pads set, and pumps put in place. Future work this winter and spring will include installation of underground pipe for the wells and completion of well electrical installation. These 7 wells will deliver water to old and new recharge sites with 60-80 SDF days. Extensive monitoring has also been installed to document the returns of water recharged at the site. Thus, ten wells should be operational by the spring of 2001. From April to October of 2000, 1220 acre-feet of accretions occurred to the South Platte from previous recharge. This water was leased by South Platte Lower Water Conservancy District and GASP. With the construction of the additional wells, the amount of water available for lease for augmentation and for ESA purposes should increase dramatically.

In addition to the wells being constructed at Tamarack for recharge purposes, a live stream section has been constructed between two of the Tamarack basins for raising and studying native South Platte minnow species of concern. This live stream will be fed by one of the wells at Tamarack pumped into three small supply

ponds. The supply ponds have already been constructed. The supply ponds were constructed to assure a supply of water even if electricity is cut off temporarily at the site.

The original term for the Cooperative Agreement was 3 years, or until June 30, 2000.

In view of a very complex set of issues, a number of the original milestones set out for program recommendations have not been completed, and several new tasks that require future milestones have been developed. Additional work is necessary to develop a "Preferred Alternative," which will satisfy ESA requirements. Therefore, the Governance Committee has accepted a 2 1/2-year extension of the Cooperative Agreement, which extends the Agreement to June 30, 2003.

Currently, the Department of the Interior is in the process of preparing an environmental impact study to evaluate the Proposed Program and alternatives, and to recommend a Preferred Alternative, as required under the National Environmental Policy Act (NEPA). A Draft EIS is expected to be completed in early 2002 and available for public comment at that time.

Colorado State University (South Platte Map)

Division One continued as a participant in the tools being developed by the Integrated Decision Support group (IDS) at Colorado State University. The Groundwater Appropriators of the South Platte (GASP), the Central Colorado Water Conservancy District (Central), the Lower South Platte Water Conservancy District (LSPWCD), the Northern Colorado Water Conservancy District (NCWCD), the South Platte Lower River group, the City of Greeley and Fort Collins and the Division of Water Resources (DWR) among others have contributed to and expect to be able to utilize these tools, and have access to data needed to better define depletions and replacements. The work has been financially supported by the participating organizations, the Colorado Water Resources Research Institute (CWRI), the CSU Cooperative Extension and the US Bureau of Reclamation.

Each participating organization, in addition to providing financial support for the project, has provided regular feedback through meetings held approximately every six weeks. The result of this close partnership is the development of a set of computer tools that are collectively called the South Platte Mapping and Analysis Program (SPMAP).

SPMAP includes a Geographic Information System Component – an ArcView based tool that allows the user to identify parcels of land, select wells that serve the parcels, identify the closest weather stations, and assign crop types to parcels. GIS themes include well locations, streamflow depletion factors, satellite images, USGS quad images and basic data such as county boundaries, roads and hydrography to assist in the mapping and the analysis. The satellite imagery as a part of this component has already been an invaluable tool in the well identification program being carried out by Division One.

A consumptive use (CU) model has also been developed as a part of the system. Input for the CU model can either be imported from the GIS component or independently. The CU model will allow the estimate of consumptive use for individual farms or whole ditch systems. Based on surface supplies, and assuming that a full water supply is provided, the amount of groundwater needed to meet potential CU can then be calculated. Alternatively, well pumping CU can be determined through pumping records or power records in combination with well energy/discharge coefficients. The tool will allow this data to be downloaded into either an SDF or Visual Modflow Model to determine stream depletions from well pumping. Additional work would be necessary to calibrate the results of the tools to a larger area..

A user-friendly modular SDF tool has also been developed to estimate stream depletions using well pumping CU or stream accretions due to recharge. This tool can be used in conjunction with the consumptive use model or as an independent program taking information from other sources.

Well Location Program

For the fourth year in a row, the Division was active in hiring college students on staff as interns to help with our well location program, both in collecting field information and in collecting background information on decrees, permits, etc... prior to and after going to the field. In 2000, we hired two college students using money available from the Ground Water Management Fund and reallocation of part time staffing authorities to work on the South Platte well location. In addition, two other students were hired to locate all wells in the Republican River Basin using Severance tax money provided by the Colorado Water Conservancy District. In addition, deputy commissioners were brought into the Greeley office during the past winter, to help with collecting background information and to input data collected during the previous summer. A significant manpower effort was made during the winter to replace all the diital photographs of wells that had been located during past years. This was needed because all the photographs were stored on our computers and we had a virus that destroyed all our copies. Fortunately we had some hard copies but we still have a significant number of pictures that have to be retaken.



This project began in former Water District No. 2 near the City of Brighton during the 1997

irrigation season. In addition to continued efforts in District 2, the program expanded to include former Water District 64 and District 65 during 1998. Currently 1,562 wells in District 2, 699 wells in District 64 and 37 wells have been located by GPS. In addition 117 alluvial wells have been located in Districts 49 and 65. And we have now located an additional 1168 Ogallala wells have been located by GPS. We expect to continue in an organized manner on a section by section basis until we have located all wells within the Division. It is currently projected that the completion of the entire project will take another thirteen years given that there are approximately 9,500 non-exempt wells in the Division in the South Platte Basin alone.

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Abandonment Procedures Underway

As required by statute, Division 1 developed abandonment list by July 1, 2000. The Denver office of Water Resources published this list in paper. Division also sent notices to owners of the various water rights in Division 1 as required by statute. To develop the list required extensive investigation by water commissioner to identify water right that had not been used for the last ten years for inclusion on

the abandonment list. This work resulted in the inclusion of 680 water rights on the abandonment list. Of this 680 water rights, 343 structures were wells. Many of these wells were discovered abandoned through the Division 1 well location program.

Since publishing and notifying water rights owners, the Division office has received protests concerning 91 of the water rights on the list and innumerable telephone calls concerning the list. To date, we have removed 33 of these water rights completely from the list and a portion of four of the other rights. We anticipate that we will remove several more rights from the list as we receive additional information concerning these rights. We also anticipate that we will receive a few additional protests to the existing list.

Division 1 will continue to respond to users who protest the list. The Division will then finalize the list and file the final list with the Water Court by December 31, 2001. The Water Court will then publish the final list in the resume. Deadlines for filing protest to the final list must be made by June 30, 2002. By statute, the Water Court will make final decisions concerning the abandonment of water rights.

Division One's abandonment timetable is attached for reference at the end of this document.

SDSS Underway

The Colorado Water Conservation Board (CWCB) and the Colorado Division of Water Resources (DWR) have identified a need for, and have funded, the South Platte Decision Support System (SPDSS) Feasibility Study. The purpose of this study is to determine the feasibility of developing and implementing a DSS with appropriate data and analytical tools for making informed decisions regarding management of the water resources of the

South Platte and North Platte basins in Colorado.

The results of the SPDSS Feasibility Study will be used by CWCB, DWR and the State Information Management Committee (IMC) to recommend development of the SPDSS to the Colorado General Assembly. The study area for this Feasibility Study encompasses the drainage areas in Colorado of the South Platte River basin and the North Platte River basin in Colorado. Funding for the SPDSS Feasibility Study has been provided by the CWCB from its Construction Fund under SB99-173.

The SPDSS is intended to support water management decision-making for those concerned with South Platte River basin and North Platte River basin water resource issues. The SPDSS must first and foremost provide State officials, water providers and water users an effective system with which to develop and manage the water resources of these basins. Consequently, the SPDSS Feasibility Study objectives are to:

- Determine the feasibility of developing a DSS for the study area with similar components to the other Colorado Decision Support Systems (CDSS), the Colorado River Decision Support System (CRDSS) and the Rio Grande Decision Support System (RGDSS);
- Identify the scope, data needs, functions and components of a DSS for the South Platte River basin and the North Platte River basin in Colorado;
- Identify the costs and schedule required to develop a DSS for the South Platte River basin and the North Platte River basin in Colorado.

The initial vision for the SPDSS is to create a data-centered system that can be incorporated into CDSS and that is capable of:

- Supporting, and integrating with, the existing DWR common database

(HydroBase) by providing both historic and real time data required by water users, water managers and State officials;

- Providing water budgets for the South Platte River and North Platte River basins in Colorado;
- Providing more useful and more efficient tools for the State Engineer's Office to administer water rights in the basin; and
- Providing more useful and more efficient water planning and accounting tools for water managers and water suppliers to effectively manage their water resources.

Accordingly, the SPDSS will need to accomplish the following:

- Provide data required to fulfill the direct data needs of water users, water suppliers, water managers and State officials, as well as provide the appropriate data needed for the required analytical tools. Required data for use in analytical tools will be collected through an initial data collection effort, expected to last 2 to 3 years, before any analytical tool development begins.
- Provide comprehensive, accurate and user-friendly databases of required data compatible with the HydroBase database.
- Provide data and analytic tools to evaluate proposed alternative water resources projects and management plans. These data and analytic tools should: (1) facilitate development of projects, plans and strategies that optimize the use of available resources for a range of hydrologic conditions and (2) provide for development of efficient and effective water projects and management strategies.
- Provide real time data and analytic tools to State officials for efficient and equitable administration of water rights.

- Provide real time data to water managers, suppliers and users for accounting purposes.
- Provide a functional, integrated system that can be efficiently maintained and upgraded by the State in the future.
- Have the capability to accurately represent current and future Federal and State administrative and operational policies and laws.
- Promote information sharing among government agencies and water users.
- Respond to the recommendations detailed in the April 1998 Senate Bill 96-74 study, *Denver Basin and South Platte River Basin Technical Study* (SB 96-74).
- Have the capacity to be an extension of, and compatible with, the existing CRDSS, and the nearly complete RGDSS.
- Respond to those situations and concerns in the study area which differ in some respects from the Rio Grande and Colorado River basins; e.g., multiple groundwater systems, increased urbanization of agricultural lands and the consequent transfer of irrigation water rights to municipalities, increased runoff from impervious areas in rapidly urbanizing portions and lawn irrigation return flows.

It became apparent early in the Feasibility Study process that 2 to 3 years of data collection prior to any model development will be required to address data gaps and SB96-74 recommendations. However, model analysis will ultimately be required to evaluate the success of the data collection, whether with existing models or new models. At this time, Division 1 does not know what involvement it will have in additional collection.

ON-GOING ISSUES OR OPERATIONS

Platte River Endangered Species Partnership

The whooping crane, piping plover, and interior least tern, which are listed as threatened or endangered under the federal ESA, use the Central Platte River Valley in Nebraska. The pallid sturgeon, which occurs in the Lower Platte River between its confluence with the Elkhorn and its confluence with the Missouri River, is also listed as endangered. Together, these four species are the "target species" for the conservation partnership.

A Governance Committee with members from the three states, water users, environmental groups, and two federal agencies continues to meet to implement the Cooperative Agreement.

An evaluation is being conducted of the impacts of the proposed Program and a range of water conservation and water supply alternatives, as required under the National Environmental Policy Act (NEPA). The parties intend that a final Program will be selected and they will enter into an agreement for its implementation.

The signatories to the Cooperative Agreement believe that the best approach to addressing the Endangered Species Act issues in the Central Platte region is a basinwide, cooperative effort to improve and maintain habitat for the target species. The alternative to a basinwide approach would be for each water project to undergo individual review and lengthy proceedings to develop separate measures to help listed species. The signatories believe that a basinwide, cooperative approach will be more effective, efficient, equitable, and provide greater certainty for water users regarding compliance with the ESA.

Proposed Plan

The first phase of the proposed Program 10-13 years) would:

1. Reduce shortages to the current target flows by an average of 130,000 to 150,000 acre-feet per year. The proposed Program would:

- Restore the original storage capacity of Pathfinder Reservoir in Wyoming.
- Establish an environmental water account in Lake McConaughy in Nebraska.
- Develop a groundwater recharge and river reregulation project near Tamarack State Wildlife Area in Colorado.

These three actions are expected to reduce shortages by approximately 70,000 acre-feet of water. A basinwide study will look for ways to provide an additional 60,000-acre-foot reduction in flow shortages through water conservation and water supply options.

2. Protect or restore (through acquisition, lease, or easement,) 10,000 acres of habitat in the Central Platte River area between Lexington and Chapman, Nebraska. The Nebraska Public Power District's Cottonwood Ranch between Overton and Elm Creek (2,650 acres) will contribute to that goal.

In later phases of the proposed Program, the holdings of the Platte River Whooping Crane Maintenance Trust, the Nebraska Game and Parks Commission, the Nature Conservancy, and the Audubon Society, totaling approximately 9,000 acres of habitat, will be included toward the long-term goal of 29,000 acres.

All water conservation, habitat management, leases, easements, or acquisition of lands to meet these goals will be undertaken only with willing sellers and participants.

Progress made under this initial phase of the proposed Program will be closely monitored.

The cooperating entities will evaluate the results of the first phase and define any subsequent approaches and actions needed to meet the overall goals.

Current Activities

Dick Stenzel continues to serve on the Water Management Committee which meets regularly. The committee has the responsibility to oversee and evaluate any Water Action Plan that is proposed or approved by the Governance Committee that will provide at least 60,000 acre feet needed to meet flow shortages at the habitat area. In addition the Water Management Committee has the responsibility to establish a tracking and accounting system that will determine the depletion/ accretion impacts for the three water projects proposed by each cooperating state, new water related activities, and the water conservation/ supply projects.

In addition to the activities in the Water Management Committee, we have also been attending meetings of the Three States which are held monthly without any Federal representatives being present. The purpose of these meetings is to attempt to get consensus on many issues that affect all the parties.

Republican River Compact

During the last two years, Kansas continued pursuing its Supreme Court case against Nebraska for violating the Compact. Special Master, Vincent L. McKusick, has been assigned to hear the case. The Special master has ruled on Motions to Dismiss the Case by Nebraska that "the Compact restricts groundwater consumption to whatever extent it depletes stream flow in the Republican River Basin." Colorado was not mentioned in the original litigation, however, we did submit briefs seeking a ruling that the Compact does not restrict the consumption of Table-land or Ogallala groundwater even if the

effect of that consumption is to deplete stream flow in the Basin. Colorado argued that "given the desire for certainty and the complexity of quantifying the hydraulic connection between Ogallala pumping and stream flow depletion, the drafters intended to exclude Ogallala groundwater pumping from the Compact's allocation restrictions." The Special Master responded by stating " If the drafters were in fact concerned about the difficulty of quantifying the effect of one form of depletion (i.e., table-land groundwater pumping) they could very easily have drafted an exception to the definition of virgin water supply. They did not do so. The absence of any exception shows that the drafter's true concern was to take into account any form of depletion – whether by alluvial or table-land pumping or otherwise." We will continue to participate in the case since it has significant impacts to Colorado.

Since this decision by the Special Master Nebraska filed a cross claim against Colorado that stated that Colorado was in violation of the Compact which resulted in damage to both Nebraska and Kansas. They seek to have all future waters of the Republican River be delivered by Colorado in accordance with the provisions of the Compact.

COURT DECISIONS

AURORA/SOUTH PARK (96CW014)

The saga of the City of Aurora/Park County Sportsmen's Ranch (PCSR) conjunctive use project in the South Park area (from Michigan Hill to southeast of the Town of Como) continues to move through the system. An eight-week trial was held in the Fairplay High School Cafatorium during July and August 2000. At the end of this time the applicants still had not completed their direct case. The applicants' direct case was completed after a week of trial in Greeley during February 2001. Trial will resume in April in Fairplay with a week set-aside for Motions to Dismiss the case from

the opposers. If the case is not dismissed, the trial is set to resume in Fairplay in June for most of the summer.

The 900 to 1,000 exempt type well water right applications filed by the local residents in response to the Aurora/PSCR filing continue to move slowly through Water Court. The Division 1 Court has issued decrees in between 10% and 20% of these cases. The decrees for exempt wells have included a specific paragraph indicating that the well is exempt from administration as long as the uses are within those specified in the decree and on the well permit. The decrees for exempt type wells included in plans for augmentation have specified the filing date of the augmentation plan as the appropriation date with a provision that the well rights are junior to all rights filed in years prior to the year of filing of the water right for each specific well.

DENVER V. THORNTON (96CW145)

This case has assumed a life of its own. The basis of the case is Denver's attempt to maintain diligence and make absolute several exchanges of water. Thornton's primary issue is whether the water quality of the substitute supply for the exchange from Bi-City wastewater treatment plant upstream to several Denver structures is adequate. Thornton diverts water through the Burlington ditch, a ditch diversion structure located downstream of the Bi-City outfall. Thus, any exchange from Bi-City impacts the quality of water available to Thornton.

In addition to the water quality issues, Thornton has also raised several issues concerning the administration of exchanges by Denver. The remaining non-water quality issues include whether the Division is appropriately accounting for and administering exchanges from Chatfield Reservoir and whether Denver Water is inappropriately reusing water from the William's Fork basin diverted to the South Platte River through the Roberts Tunnel via an exchange

Trial began in October 1999 and has continued to move at a snail's pace whenever the Judge has had more than one week available. The next installment of this trial is scheduled for four weeks in May and early June 2001. It is not clear when the trial will end or when a decision in this case will be issued. We expect that one or both of the parties will appeal whatever the Judge decides to the Supreme Court.

A ruling of special interest to water administrators is the Water Court's ruling that the water quality of a substitute supply from a waste treatment plant for an exchange is adequate if it meets Water Quality Control Commission permit requirements in situations where there is not a challenge to the quality by a user.

FRICO V. GOLDEN (95CW205)

The Supreme Court issued a decision for this case on March 29, 1999 very favorable to Golden with a remand to the Water Court to consider Golden's possible expanded use of previously changed rights by expanding the acreage of lawn irrigation by the changed rights. The Water Court issued a ruling in February 2001 finding that there was no expansion of use of these rights by expansion of lawn irrigation. This finding may well be appealed to the Supreme Court.

HAYSTACK RANCH V. FAZZIO (99SA120)

On April 10, 2000 the Supreme Court issued a decision for this case involving a private abandonment action brought by Fazzio against Haystack Ranch. The facts of the case are that Haystack purchased property with two fairly senior water rights on a small tributary of West Plum Creek in 1993. These rights had not been used since at least 1950. The rights had also been initially listed on the 1972 and 1984 Division Engineer Abandonment lists, but were subsequently removed. The

Water Commissioner allowed the senior rights to be diverted at un-decreed alternate points of diversion by Haystack while the original ditches were returned to a usable condition. Fazzio then sought to abandon the Haystack rights because his junior rights were being injured by the operation of Haystack's senior rights.

The Division 1 Water Court found that Haystack's reactivation of the senior rights was not sufficient to overcome the presumption of abandonment caused by the long period of nonuse. As Judge Hays said "you can't revive what was already dead". The Division 1 Water Court also found that removal from the Division Engineer's abandonment list was not sufficient to overcome the presumption of abandonment.

The Supreme Court affirmed the Division 1 Water Court's decision to abandon the senior water rights. **Of special note, the Supreme Court found that "The division engineer's decision to remove the water rights from the abandonment list alone does not establish that the water rights have not been abandoned."**

PERSONNEL/WORKLOAD ISSUES

Well Administration Activities

The Water Commissioners have continued to spot check water well construction. We continue to see the number of field inspections required for both registrations of pre-1972 exempt type wells and replacements for non-exempt wells increasing. This is the result of both growth along the front range and many of these wells reaching the end of the 20 to 30 year working life generally expected of water wells.

Well Location Program

In 2000, we hired six college students using money available from the Ground Water Management Fund and the states severance tax. In addition, deputy commissioners were brought into the Greeley office during the past winter, to help with collecting background information and to input data collected during the previous summer.

Personnel Changes

The 2000 Water Year included several major changes in personnel. The Water Commissioner for the Cache la Poudre River, Shawn Hoff, left this spring after 12 years as the lead commissioner to work for the Tri Districts, a group of three rural providers around the Fort Collins area. George Varra filled this critical position with Shawn's departure. George had previously been the deputy in the Cache la Poudre River basin and had some previous experience as the lead commissioner on Boulder Creek. Mark Simpson, previously Deputy Commissioner in District 8, took over George's job as deputy commissioner on the Cache la Poudre River.

Carolyn Vannorsdel retired this year after serving with the Division for over 24 years. Carolyn was the lead commissioner in the Laramie River and Sand Creek, District No. 48 and 76. We have yet to fill this position, but hope to by this spring runoff. Don Gabriel and Kent Swedlund also retired this year as deputy commissioners in District 1 and 64 respectively. Don had over 20 years of experience and Kent had over 24 years of experience with the state. Kent continues to work for our office as a temporary employee.

Arlene Stewart left our staff this spring to take a job with the Division in our Denver office. Arlene had served Division 1 as a Administrative Assistant responding to

telephone inquiries etc... We hired Dawn Ewing to replace Arlene this spring. Dawn had previous water experience working for several years for a water well drilling company.

Additions to our staff included David Ellington, an engineer for our Greeley office. Dave previously worked with CSU and will be helping Division 1 with various engineering projects, GIS projects, and as a computer IT person. Garver Brown was also hired as a permanent part time commissioner for District 23, South Park. Garver had previously worked as a temporary commissioner in South Park. Lastly, we hired Shera Sumerford and Scott Edgar as deputy commissioners. Both Shera and Scott also had spent time working as temporaries for the Division, primarily on the Division 1 well location program. At this writing, we have not determined for certain the final District assignments for Scott and Shera as other changes in Division 1 are still pending. We expect Shera and Scott will also work on the well location program as time allows.

Dam Safety

The dam safety engineers in Division One continue to inspect dams on a 1-2-6 year frequency. Outlet inspections are conducted every ten years, although equipment failure has continued to delay completion of the initial cycle.

Administration

The major impact stemming from growth in the South Platte Basin has had significant impacts on water resource administration. One area where administration continues to be most affected has been in the complexity of new decrees and plans for augmentation. These items have resulted in increased mileage and overtime hours for water commissioners and staff. Since most water commissioners are already overtaxed for time, Division One

assigned an additional 3/4 of an FTE as an assistant water commissioner to former Water District 7 (Clear Creek) and another 3/4 of an FTE was assigned to be an assistant water commissioner for the combined former Water Districts 2, 8 & 80 to assist the lead water commissioners in these districts. At a later date, work load will eventually have to be added to assist the northern region of the front range to aid in the administration of complex decrees, such as Thomson's change case, Ft Collins change case and other decrees of Greeley, Loveland, and Longmont. Another area where increased workload has occurred is in District 64 as a result of new recharge projects and compact administration. Division One has continued its intern program during the summer to assist the water commissioner in former Water Districts 3.

Innovative Administration Processes

Many steps Division 1 has undertaken during the last few years have been in an effort to take advantage of technological advances and other opportunities for innovative administration. These ideas also respond to DWR's vision as enunciated among other places in Long Range Goal 4.3.1. Division One has emphasized innovative administration throughout the text of this report. Specifically, we would refer you to the text concerning the South Platte Map, the well location program, Platte River Endangered Species Partnership, the Division One Training Program, and restructuring of personnel assignments. All of these projects revolve around using either improved technology, better communication or cooperation with the water users.

During 2000, we started developing a Water Commissioner notebook for District 2 and 4. The notebook will provide detailed information of the District's key structures. The type of information provided includes a map that shows the location of the diversion structure and measuring device and how to get to each of them. In addition, the map shows the GPS

location of the structures and also a photograph of each. We also plan to attach from hydrobase the water rights that are associated with the diversion structure and contact person. It is believed that this information would be invaluable to future Water Commissioners. This notebook will be the prototype for notebooks for other Water Commissioners.

A similar notebook is envisioned for each of our gaging stations. It would include a USGS type description for each gaging station and the description of the station measuring devices, a map showing the GPS location and how to get to the gage. During the past year a concerted effort was made to collect photographs at gaging sites which will be a part of the notebooks.

We would ultimately envision making this information available to our office staff, so that those unfamiliar with any of the structures would be able to locate them and have the information available to them when they are working on issues related to the structures.

During the past year it was recognized that in order to maximize augmentation supplies between GASP and Central that if either group had excess credits in an area it was to their advantage to trade any excesses between each other rather than buy additional replacement sources of water. This allowed them to then use the money saved to acquire additional supplies in other reaches of the river where they also needed replacement water. We worked with both groups to identify where these opportunities existed.

We also helped facilitate a way for augmentation supplies to be delivered downstream to where they were needed without the entities having to spend money to modify existing structures. We were able to arrange that another ditch deliver water through their ditch and release the augmentation water below the previous roadblock.

Employee Recognition

Water Commissioner of the Year

Bob Carlson was picked as the water commissioner of the year for Water Year 2000. As Bob Munson, one of Bob's user's stated, Bob is a straight shooter who makes a lot of effort to maximize beneficial use by eliminating waste whenever possible and make diversion structure adjustments often so that junior diverters get their water during those periods when there is water for their priorities.

For years, Bob has done a good job in administering the minimum streamflow that CWCB and Boulder have with senior irrigation rights donated by Boulder. He has given them their full allotted water without excess. This work has included dealing with Boulder concerning their attempts to use this water once it has passed through the minimum streamflow reach.

Bob has helped change the administration regime on South Boulder Creek to assure that all users are able to divert the water to which they are entitled. He has represented our agency well in historic and recent clashes between Boulder and Lafayette over the Anderson ditch and other structures. Bob diligently pursues illegal water users and is always responsive to requests from the Division office.

Abandonment List Timetable

- 3-15-00** Water Commissioners submit lists of water rights to be considered for list along with documentation (except for photographs and ownership information). The list should be in priority order.
- 4-1-00** Division completes review of proposed abandoned water rights making final decision as to those to put on the abandonment list.
- 6-1-00** Finish check on ownership by Water Commissioners.
- 6-1-00** Photographs due from Water Commissioners for structures to be put on abandonment list.
- 7-1-00** *Official Publication of Abandonment List by Denver office.*
- 7-1-00** Begin mailing of list to water right owners.
- 7-1-00** Publication of abandonment list and official notices in county newspapers for four weeks.
- 7-31-00** Mailing must be complete (Section 37-92-401 (2)(b) CRS).
- 7-1-01** Last day to protest abandonment list to DWR (Section 37-92-401 (3) CRS)
- 12-31-01** Division Engineer finalizes list and files with the water court (Section 37-92-401 (4)(c) CRS).
- 1-31-02** Water Court publishes the final list in the resume (Section 37-92-401 (4)(d) CRS).
- 6-30-02** Deadline for filing protests to the abandonment list with the court (Section 37-92-401 (5) CRS).

Runoff Forecast

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

RESERVOIR	USABLE CAPACITY	USABLE STORAGE		AVERAGE
		THIS YEAR	LAST YEAR	
ANTERO	20.0	20.0	20.0	15.0
BARR LAKE	32.0	23.8	23.4	22.6
BLACK HOLLOW	8.0	3.5	3.0	4.0
BOYD LAKE	49.0	43.0	37.1	33.7
CACHE LA POUFRE	10.0	7.0	7.0	7.2
CARTER	108.9	85.0	54.2	81.6
CHAMBERS LAKE	9.0	5.5	5.0	3.0
CHEESMAN	79.0	60.5	46.7	56.0
COBB LAKE	34.0	17.5	15.0	13.9
ELEVEN MILE	97.8	99.9	99.7	91.0
EMPIRE	38.0	24.5	22.3	22.8
FOSSIL CREEK	12.0	6.0	6.5	6.5
GROSS	41.8	36.5	27.0	26.4
HALLIGAN	6.4	6.4	6.0	3.8
HORSECREEK	16.0	12.5	12.5	12.1
HORSETOOTH	149.7	108.1	75.7	89.0
JACKSON	35.0	19.4	19.3	28.8
JULESBURG	28.0	15.0	16.4	19.9
LAKE LOVELAND	14.0	10.8	11.8	8.8
LONE TREE	9.0	7.8	8.8	6.0
MARIANO	6.0	4.6	5.3	4.5
MARSHALL	10.0	7.6	8.4	4.1
MARSTON	13.0	8.3	10.5	7.0
MILTON	24.0	18.7	15.7	13.8
POINT OF ROCKS	70.0	66.3	47.3	55.0
PREWITT	33.0	14.4	22.4	17.4
RIVERSIDE	63.1	45.0	36.2	40.1
SPINNEY MOUNTAIN	48.7	38.0	26.8	34.6
STANDLEY	42.0	40.0	37.7	25.4
TERRY LAKE	8.0	5.5	5.5	5.1
UNION	13.0	11.9	10.9	10.5
WINDSOR	19.0	12.0	12.5	10.3

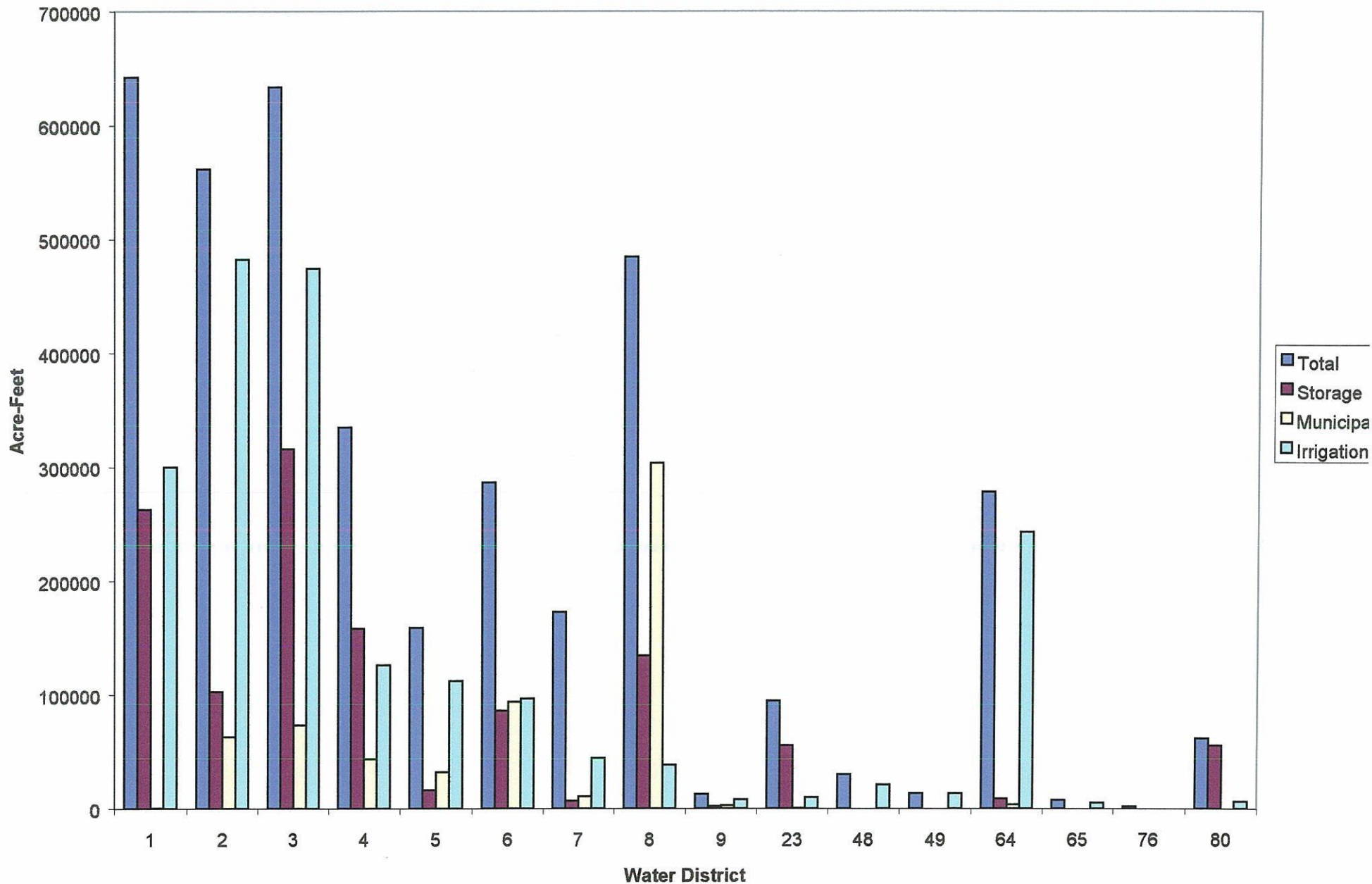
Information taken from Colorado Basin Outlook Report, February 1, 2001

SOUTH PLATTE RIVER BASIN WATER SNOWPACK

WATERSHED	NUMBER OF DATA SITES	THIS YEAR AS % OF	
		LAST YEAR	AVERAGE
BIG THOMPSON BASIN	6	80	80
BOULDER CREEK BASIN	5	119	89
CACHE LA POUFRE BASIN	8	81	81
CLEAR CREEK BASIN	4	102	82
SAINT VRAIN BASIN	3	98	91
UPPER SOUTH PLATTE BASIN	17	110	82

*Information taken from Colorado Basin Outlook Report, February 1, 2001.

**DIVISION 1
2000 Diversions**



**2000 TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS
(November 1999 - October 2000)**

RECIPIENT								SOURCE		
WD	ID	NAME	STREAM	10 YEAR AVG		CURRENT YEAR		WD	ID	STREAM
				AF	DAYS	AF	DAYS			
3	4604	WILSON SUPPLY DITCH	CACHE LA POUFRE RIVER	1653.4	43.1	996	55	48	4604	SAND & DEADMAN CR.
3	4608	DEADMAN DITCH	CACHE LA POUFRE RIVER	256.1	17.4	126	26	48	4608	DEADMAN CREEK
3	4606	BOB CREEK DITCH	CACHE LA POUFRE RIVER	12.4	12	12	34	48	4606	NUNN CREEK
3	4607	COLUMBINE DITCH	CACHE LA POUFRE RIVER	0	0	0	0	48	4607	DEADMAN CREEK
3	4600	LARAMIE-POUDRE TUNNEL	CACHE LA POUFRE RIVER	13524.9	86.2	2797	33	48	4600	LARAMIE RIVER
3	4605	SKYLINE DITCH	CACHE LA POUFRE RIVER	232.9	10.7	1940	93	48	4605	LARAMIE RIVER
3	4602	CAMERON PASS DITCH	CACHE LA POUFRE RIVER	18.5	7	42	21	47	4602	MICHIGAN RIVER
3	4603	MICHIGAN DITCH	CACHE LA POUFRE RIVER	4615.4	318.4	2317	321	47	4603	MICHIGAN RIVER
3	4601	GRAND RIVER DITCH	CACHE LA POUFRE RIVER	19368.4	128.6	9414	165	51	4601	COLORADO RIVER
4	4634	ADAMS TUNNEL	BIG THOMPSON RIVER	204374	354.1	123771	364	51	4634	COLORADO RIVER
6	4655	MOFFAT TUNNEL	SOUTH PLATTE RIVER	42125.4	340.5	28964	366	51	4655	FRASER RIVER
7	4625	BERTHOUD PASS DITCH	CLEAR CREEK	1026	84	0	0	51	4625	FRASER RIVER
7	4626	VIDLER TUNNEL	CLEAR CREEK	621.6	71.3	167	67	36	4626	MONTEZUMA CREEK
7	4682	STRAIGHT CREEK TUNNEL	CLEAR CREEK	57.8	73.1	189	366	36	4682	STRAIGHT CREEK
8	653	ROBERTS TUNNEL	SOUTH PLATTE RIVER	61400.6	242.4	47776	304	36	4684	BLUE RIVER
23	4611	BOREAS PASS DITCH	SOUTH PLATTE RIVER	160.1	57.8	62	43	36	4685	INDIANA CREEK
23	4612	HOOSIER PASS DITCH	ARKANSAS RIVER	9594.2	152.2	4672	114	36	4683	BLUE RIVER
23	4490	AURORA HOMESTAKE	SOUTH PLATTE RIVER	15104.3	160.6	9438	268	37	4644	HOMESTAKE CREEK

*First Year of Reporting

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

VATER DISTRICT 1

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MIN MUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
1	3570	BIJOU #2	SOUTH PLATTE	0	10/31/00	3,360	03/31/00	0
1	3816	EMPIRE	SOUTH PLATTE	3,439	08/31/00	34,930	03/31/00	17,253
1	3817	JACKSON	SOUTH PLATTE	0	09/30/00	26,450	05/31/00	7,514
1	3651	RIVERSIDE	SOUTH PLATTE	10,242	08/31/00	63,303	03/31/00	30,493
1	3400	VANCIL	SOUTH PLATTE	2,285	09/30/00	4,050	05/31/00	3,207
1	3592	HORSE CREEK	HORSE CREEK	1,820	08/31/00	15,041	05/31/00	9,084
1	3609	PROSPECT	PROSPECT CREEK	1,756	10/31/00	5,083	04/30/00	1,756
1		OTHERS		14		1,819		190
1		TOTALS		19,556		154,036		69,497

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 2

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
2	3837	OASIS RES/BARR	SOUTH PLATTE	14,743	10/31/00	30,723	06/30/00	14,743
2	3351	BULL CANAL #8	CLEAR CREEK	808	08/31/00	3,423	06/30/00	1,458
2	3890	COAL RIDGE	LITTLE DRY CREEK	0	10/31/00	816	08/31/00	0
2	3861	GREAT WESTERN	WALNUT CREEK	1,428	10/31/00	1,958	08/31/00	1,428
2	3592	HORSE CREEK	SOUTH PLATTE	1,820	08/31/00	15,041	05/31/00	9,084
2	3902	LORD	SOUTH PLATTE	0	11/30/99	628	05/31/00	0
2	3858	LOWER LATHAM	SOUTH PLATTE	477	10/31/00	6,212	11/30/99	477
2	3876	MILTON	SOUTH PLATTE	8,024	09/30/00	20,790	03/31/00	8,268
2	3609	PROSPECT	SOUTH PLATTE	1,756	10/31/00	5,083	04/30/00	1,756
2	3375	QUINCY	SOUTH PLATTE	1,551	08/31/00	2,812	05/31/00	1,981
2	3903	STANDLEY	WOMAN CREEK	30,898	10/31/00	41,444	04/30/00	30,898
2	3700	TANI LAKES COMBINED	SOUTH PLATTE	3,714	04/30/00	6,296	01/31/00	3,958
2	3699	WEST GRAVEL LAKES COMBINED	SOUTH PLATTE	2,082	02/29/00	2,718	06/30/00	2,231
2		OTHERS		1,661		2,580		2,220
2		TOTALS		68,962		140,524		78,502

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
3	3774	FOSSIL CREEK	FOSSIL CREEK	1,546	08/31/00	9,860	06/30/00	3,615
3	3712	HALLAGAN/NORTH POU DRE #16	N FK POU DRE RIVER	1,469	09/30/00	6,428	12/31/99	2,550
3	3707	INDIAN CREEK/MTN SUPPLY #16	INDIAN CREEK	684	10/31/00	1,906	05/31/00	684
3	3697	NORTH POU DRE #2/DEM MEL LAKE	N FK POU DRE RIVER	2,153	11/01/99	3,231	02/29/00	2,175
3	3702	NORTH POU DRE #3/HACKEL LAKE	N FK POU DRE RIVER	1,582	09/30/00	2,533	02/29/00	2,188
3	3704	NORTH POU DRE #4	N FK POU DRE RIVER	597	06/30/00	1,005	09/30/00	965
3	3698	NORTH POU DRE #5/BEE LAKE	N FK POU DRE RIVER	4,232	08/31/00	5,325	03/31/00	5,140
3	3716	NORTH POU DRE #15	N FK POU DRE RIVER	971	09/30/00	4,561	06/30/00	1,265
3	3715	PARK CREEK	PARK CREEK	280	10/31/00	6,555	04/30/00	280
3	3730	COBB LAKE	CACHE LA POU DRE RIVER	8,922	08/31/00	18,290	11/01/99	9,078
3	3713	SEAMAN/MILTON SEAMAN	N FK POU DRE RIVER	3,561	11/30/99	4,519	03/31/00	4,519
3	3780	CLAYMORE	CACHE LA POU DRE RIVER	90	08/31/00	835	05/31/00	306
3	3772	SEELEY	CACHE LA POU DRE RIVER	431	10/31/00	1,069	04/30/00	431
3	3804	WARREN	CACHE LA POU DRE RIVER	493	09/30/00	2,017	05/31/00	1,767
3	3786	WOOD	ROLLARD DRAW	806	11/01/99	2,404	03/31/00	1,634
3	3678	MOUNTAIN SUPPLY RESERVOIR #20	JOE WRIGHT RESERVOIR	3,281	11/01/99	7,176	07/31/00	4,666
3	3952	RAWHIDE	CACHE LA POU DRE RIVER	13,570	08/31/00	14,871	04/30/00	13,981
3	3732	HORSE TOOTH	DIXON CANYON CREEK	12,188	10/31/00	122,813	02/29/00	12,188
3	3725	DOUGLASS	CACHE LA POU DRE RIVER	3,686	09/30/00	6,772	03/31/00	4,362
3	3727	WINDSOR RESERVOIR #8	CACHE LA POU DRE RIVER	1,708	09/30/00	8,935	05/31/00	4,410
3	3728	NO. 8 ANNEX	CACHE LA POU DRE RIVER	173	09/30/00	3,157	06/30/00	989
3	3738	WINDSOR RESERVOIR	CACHE LA POU DRE RIVER	240	08/31/00	4,507	10/31/00	4,507
3	3679	CHAMBERS	JOE WRIGHT CREEK	0	09/30/00	8,267	05/31/00	0
3	3676	LONG DRAW/GRAND RIVER	LONG DRAW CREEK	1,805	08/31/00	9,997	05/31/00	2,651
3		SUBTOTALS		64,468		257,033		84,351

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3 (CONTINUED)

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
		BALANCE FROM PREVIOUS PAGE		64,468		257,033		84,351
3	3744	BLACK HOLLOW	CACHE LA POUFRE RIVER	3,587	06/30/00	4,630	05/31/00	3,626
3	3735	CURTIS	CACHE LA POUFRE RIVER	426	07/31/00	618	11/01/99	504
3	3740	KLUVER	CACHE LA POUFRE RIVER	318	10/31/00	719	06/30/00	318
3	3742	LONG POND/WATER SUPPLY #5	CACHE LA POUFRE RIVER	1,884	08/31/00	3,029	05/31/00	2,036
3	3736	ROCKY RIDGE/WATER SUPPLY #1	CACHE LA POUFRE RIVER	3,203	10/31/00	3,503	04/30/00	3,203
3	3737	WATER SUPPLY #2 & #3	CACHE LA POUFRE RIVER	1,959	08/31/00	4,343	05/31/00	3,381
3	3739	WATER SUPPLY #4	WATER SUPPLY RES #2 & #3	365	10/31/00	610	11/01/99	365
3	3805	TERRY/LARIMER WELD	CACHE LA POUFRE RIVER	1,827	08/31/00	7,978	05/31/00	4,721
3	3726	WORSTER	SHEEP CREEK	63	08/31/00	3,484	06/30/00	194
3	3775	TIMNATH	DUCK SLOUGH	0	08/31/00	10,385	04/30/00	1,949
3	3770	WINDSOR LAKE	CACHE LA POUFRE RIVER	141	10/31/00	1,086	03/31/00	141
3	3683	BARNES MEADOW RESERVOIR	BARNES MEADOWS CREEK	684	04/30/00	2,345	09/30/00	2,307
3	3699	NORTH POUFRE RESERVOIR #6	N FK POUFRE RIVER	4,453	10/31/00	8,325	03/31/00	4,453
3	3708	MOUNTAIN SUPPLY RESERVOIR #18	BOX ELDER CREEK	256	11/01/00	810	05/31/00	690
3	3745	DOWDY LAKE RESERVOIR	SOUTH PINE CREEK	624	10/31/00	843	11/30/99	624
3	3751	SOUTH GRAY RESERVOIR	BOX ELDER CREEK	0	07/31/00	734	03/31/00	450
3	3686	COMANCHE RESERVOIR	BIG BEAVER CREEK	0	11/01/99	1,523	06/30/00	0
3	3814	PANHANDLE RESERVOIR	PANHANDLE CREEK	1,017	11/01/99	1,017	11/01/99	1,017
3		OTHERS		3,442		7,005		4,050
3		TOTALS		88,717		320,020		118,380

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 4

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
4	4156	BOULDER & LARIMER/ISH	LITTLE THOMPSON	605	09/30/00	6,693	04/30/00	872
4	4110	BOYD LAKE	BIG THOMPSON	20,542	08/31/00	43,470	05/31/00	21,696
4	4513	CARTER	BIG THOMPSON	44,171	10/31/00	106,516	03/31/00	44,171
4	4116	DONATH	BIG THOMPSON	211	03/31/00	1,134	05/31/00	467
4	4166	HERTHA RESERVOIR	DRY CREEK HERTHA	352	06/30/00	1,611	11/30/99	636
4	4123	HORSETOOTH RESERVOIR	BIG THOMPSON	1,764	08/31/00	6,863	05/31/00	1,848
4	4487	LAKE LOVELAND	BIG THOMPSON	6,632	09/30/00	12,201	11/30/99	9,224
4	4136	LON HAGLER	BIG THOMPSON	1,383	08/31/00	4,971	03/31/00	3,627
4	4137	LONE TREE	BIG THOMPSON	3,601	09/30/00	8,769	04/30/00	4,790
4	4133	LOVELAND LAKE	BIG THOMPSON	820	07/31/00	1,415	05/31/00	934
4	4134	BOEDECKER LAKE/MARINO	BIG THOMPSON	1,048	09/30/00	5,571	04/30/00	3,332
4	4146	WELCH LAKE	BIG THOMPSON	8,226	07/31/00	5,835	05/31/00	4,676
4		OTHERS		1,316		2,531		1,760
4		TOTALS		90,671		207,580		98,033

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 5

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
5	4020	BEAVER POND	BEAVER CREEK	225	09/30/00	2,161	05/31/00	225
5	4071	FOOTHILLS	ST. VRAIN	676	09/30/00	3,413	04/30/00	676
5	4037	HIGHLAND #1	ST. VRAIN	490	07/31/00	979	05/31/00	669
5	4032	HIGHLAND #2	ST. VRAIN	1,171	07/31/00	3,713	05/31/00	2,810
5	4038	HIGHLAND #3	ST. VRAIN	647	08/31/00	1,616	05/31/00	1,098
5	4073	MCINTOSH	ST. VRAIN	1,410	09/30/00	2,408	04/30/00	1,432
5	4063	PLEASANT VALLEY	ST. VRAIN	1,433	09/30/00	3,076	05/31/00	1,899
5	4067	OLIGARCHY RESERVOIR #1	ST. VRAIN	316	12/31/99	1,536	06/30/00	1,452
5	3905	UNION	ST. VRAIN	6,310	08/31/00	12,693	05/31/00	6,851
5	4076	LEFT HAND PARK	LEFT HAND CREEK	1,469	11/30/99	1,549	03/31/00	1,549
5	4488	LEFT HAND VALLEY	LEFT HAND CREEK	627	08/31/00	1,626	05/31/00	852
5	4010	BUTTON ROCK	ST. VRAIN	11,704	03/31/00	16,242	06/30/00	15,932
5	4379	NEW THOMAS	ST. VRAIN	2,029	03/31/00	2,300	11/01/00	2,290
5	4072	CLOVER BASIN RESERVOIR	ST. VRAIN	516	08/31/00	635	03/31/00	574
5	4081	LAGERMANN	LEFT HAND CREEK	864	09/30/00	978	01/31/00	864
5	4065	MCCALL RESERVOIR	ST. VRAIN	280	11/01/99	479	06/30/00	343
5		TOTALS		30,167		55,404		39,516

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 6

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				END OF YEAR
				MINIMUM		MAXIMUM		
				AF	DATE	AF	DATE	
6	4269	ALBION	ALBION CREEK	1,111	11/30/99	1,111	11/30/99	1,111
6	4172	BARKER	BOULDER CREEK	3,756	04/30/00	11,277	06/30/00	5,502
6	4173	BASELINE	BOULDER CREEK	3,404	09/30/00	5,266	05/31/00	3,806
6	4515	BOULDER	BOULDER CREEK	6,125	05/31/00	11,368	06/30/00	8,273
6	4489	GOOSE	NORTH BOULDER CREEK	258	04/30/00	1,036	05/31/00	1,036
6	4199	GROSS	SOUTH BOULDER CREEK	27,571	04/30/00	41,161	06/30/00	36,084
6	4178	HILLCREST	BOULDER CREEK	1,835	08/31/00	2,207	05/31/00	1,872
6	4180	LEGGETT	BOULDER CREEK	1,322	08/31/00	1,601	05/31/00	1,350
6	4212	MARSHALL	SOUTH BOULDER CREEK	5,065	10/31/00	9,655	04/30/00	5,065
6	4185	PANAMA	BOULDER CREEK	750	08/31/00	4,000	04/30/00	800
6	4238	SILVER	NORTH BOULDER CREEK	1,020	04/30/00	3,996	06/30/00	3,960
6	4187	SIX MILE	BOULDER CREEK	200	08/31/00	1,200	03/31/00	1,000
6	4214	MCKAY LAKE	SOUTH BOULDER CREEK	408	08/31/00	593	06/30/00	408
6	4230	VALMONT	SOUTH BOULDER CREEK	6,569	08/31/00	7,426	05/31/00	6,656
6		OTHERS		407		572		572
6		TOTALS		59,801		102,469		77,495

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 7

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				END OF YEAR
				MINIMUM		MAXIMUM		
				AF	DATE	AF	DATE	
7	3324	RALSTON	RALSTON CREEK	3,324	11/30/99	10,011	06/30/00	3,324
7	4415	LONG LAKE RESERVOIR UPPER	RALSTON CREEK	752	10/31/00	1,473	04/30/00	752
7	3406	COORS B #3	CLEAR CREEK	2,257	10/31/00	2,509	11/30/99	2,257
7	3407	COORS B #4	CLEAR CREEK	4,000	11/30/99	4,000	11/30/99	4,000
7	3308	BLUNN	CLEAR CREEK	4,123	10/31/00	5,462	04/30/00	4,123
7	3702	FAIRMOUNT	CLEAR CREEK	632	03/31/00	972	04/30/00	789
7	4411	MAPLE GROVE	SOUTH CLEAR CREEK	971	03/31/00	1,145	11/30/99	1,116
7		OTHERS		1,388		2,386		1,461
7		TOTALS		17,447		27,958		17,822

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 8

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
8	3514	CHATFIELD	SOUTH PLATTE	23,010	08/31/00	27,075	03/31/00	23,747
8	3532	CHERRY CREEK	CHERRY CREEK	11,894	10/31/00	13,466	01/31/00	11,894
8	3832	MCLELLAN	DAD CLARK DITCH	4,489	07/31/00	5,829	11/30/99	5,032
8	3983	STRONTIA SPRINGS DVR DAM	SOUTH PLATTE	6,465	06/30/00	7,643	05/31/00	6,824
8		TOTALS		45,858		54,013		47,497

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 9

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
9	3815	SODA #1, #2	BEAR CREEK	1,059	10/31/00	1,487	01/31/00	1,059
9	4281	BOWLES	BEAR CREEK	1,387	10/31/00	2,062	05/31/00	1,387
9	4314	PATRICK	BEAR CREEK	869	01/31/00	1,165	04/30/00	1,161
9	3999	BEAR CREEK RESERVOIR	BEAR CREEK	1,840	09/30/00	1,973	04/30/00	1,868
9	3501	MARSTON	SOUTH PLATTE	6,968	10/31/00	18,150	11/30/99	6,968
9		OTHERS		2,224		3,316		2,416
9		TOTALS		14,347		28,133		14,859

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 23

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
23	3904	ANTERO	S FK SOUTH PLATTE	19,433	10/31/00	20,059	06/30/00	19,433
23	3981	JEFFERSON LAKE RESERVOIR	JEFFERSON LAKE	676	03/31/00	1,546	06/30/00	905
23	3965	ELEVEN MILE	MID FK SOUTH PLATTE	99,143	02/29/00	101,385	05/31/00	100,312
23	3962	MONTGOMERY	MID FK SOUTH PLATTE	847	05/31/00	4,885	08/31/00	4,883
23	4013	SPINNEY MOUNTAIN	MID FK SOUTH PLATTE	25,311	10/31/00	49,545	11/30/99	25,311
23		TOTALS		145,410		177,420		150,844

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 64

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				
				MINIMUM		MAXIMUM		END OF YEAR
				AF	DATE	AF	DATE	
64	3552	PREWITT	SOUTH PLATTE	7,000	08/31/00	27,900	05/31/00	15,020
64	3551	NORTH STERLING	SOUTH PLATTE	3,470	09/30/00	71,870	03/31/00	17,570
64	3906	JULESBURG	SOUTH PLATTE	2,660	08/31/00	20,080	04/30/00	5,290
64		TOTALS		13,130		119,850		37,880

1999-2000 RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 80

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				END OF YEAR
				MINIMUM		MAXIMUM		
				AF	DATE	AF	DATE	
80	3550	CHEESMAN	S FK SOUTH PLATTE	49,753	10/31/00	78,558	06/30/00	49,753
80	3829	WELLINGTON	N FK SOUTH PLATTE	2,878	10/31/00	4,399	11/30/99	2,878
80	3828	ALTURA RESERVOIR	GENEVA CREEK	0	07/31/00	567	06/30/00	0
80		TOTAL		52,631		83,524		52,631

WATER DIVERSION SUMMARIES 1999-2000

WD	DITCHES REPORTING			OTHERS		ESTIMATED NUMBER OF STRUCTURE VISITS	TOTAL DIVERSIONS (AF)	TOTAL DIVERSIONS TO STORAGE	TO IRRIGATION		
	WITH RECORD	NO WATER AVAIL.	NO WATER TAKEN	NO INFO AVAIL.	NO RECORDS				TOTAL DIVERSIONS (AF)	NO. OF ACRES IRRIGATED	AVG AF PER ACRE
1	305	14	119	108	5,045	2,868	642,182	262,604	300,010	210,000	1.43
2	288	11	162	7	4,348	1,339	561,602	102,566	482,096	180,000	2.68
3	205	2	47	19	2,794	1,252	633,461	315,574	474,164	180,000	2.63
4	120	2	51	9	1,225	1,446	334,892	158,096	125,928	100,000	1.26
5	139	0	23	15	1,199	1,490	158,832	16,048	111,909	40,000	2.80
6	166	2	60	37	1,676	3,065	286,340	85,928	96,465	35,000	2.76
7	125	0	117	6	1,708	1,770	172,746	6,745	44,096	14,000	3.15
8	704	14	229	172	6,092	728	484,531	134,287	38,176	18,000	2.12
9	125	2	11	3	1,509	1,007	12,673	1,997	7,708	1,700	4.53
23	226	10	155	12	1,400	634	94,554	55,446	9,725	9,565	1.02
48	57	0	17	0	69	1,847	30,206	0	20,811	5,000	4.16
49	7	0	16	4	34		13,373	0	13,373	1,500	8.92
64	171	1	35	19	1,770	2,662	278,337	8,616	242,821	190,000	1.28
65	14	0	21	2	84		7,336	0	5,215	4,700	1.11
76	2	1	1	0	10		1,955	0	0	350	0.00
80	167	28	37	3	875		61,596	55,194	6,240	4,000	1.56
TOT	2821	87	1101	416	29,838	34,263	3,774,616	1,203,101	1,978,737	993,815	1.99

DISTRICT 9 DITCH VISITS COMBINED WITH DISTRICT 80

DISTRICT 48 DITCH VISITS COMBINED WITH DISTRICT 76

DISTRICTS 49 AND 65 DITCH VISITS COMBINED WITH DISTRICT 64

WATER DIVERSION SUMMARIES TO VARIOUS USE 1999-2000

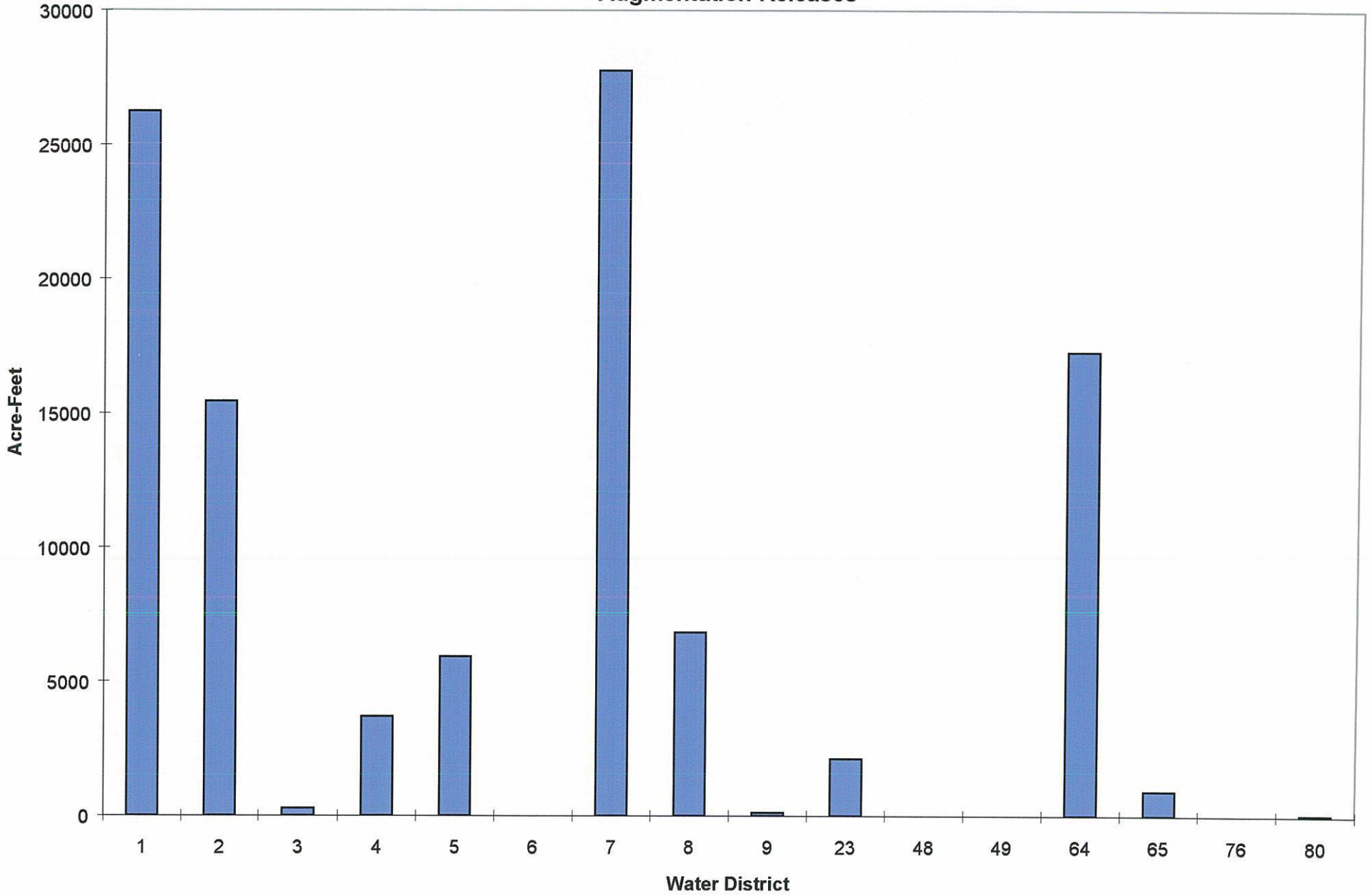
WD	TRANS-MOUNTAIN OUTFLOW	TRANS-BASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
1	0	0	416	0	7,865	0	0	3	91
2	0	0	62,759	481	7,138	0	0	0	7
3	0	0	73,074	0	3,874	0	0	32	0
4	0	0	43,555	44	0	0	0	0	0
5	0	1,293	31,892	10	0	0	0	28	0
6	0	6,884	93,635	22	747	0	0	0	0
7	0	47,275	10,710	0	45,962	0	0	0	0
8	0	2,465	303,343	789	5,778	0	4,120	2	0
9	0	0	2,532	31	148	0	0	7	0
23	10,051	0	379	0	4,303	3,630	0	2	194
48	9,395	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
64	0	0	3,460	48	0	0	0	8	37
65	6,082	0	0	0	0	0	2,121	0	0
76	1,955	0	0	0	0	0	0	0	0
80	0	0	90	19	0	0	0	19	33
TO	27,483	57,917	625,845	1444	75,815	3,630	6,241	101	362

WD	AUGMENTATION	EVAPORATION	GEOHERMAL	SNOWMAKING	MINIMUM STREAMFLOW	POWER GENERATION	WILDLIFE	RECHARGE	OTHER
1	26,234	0	0	0	0	0	0	51,829	0
2	15,434	32	0	0	0	0	0	6,313	0
3	276	4,098	0	0	0	0	0	0	0
4	3,701	0	0	0	0	1,129,631	0	0	0
5	5,929	0	0	0	893	0	0	0	0
6	0	0	0	0	13,524	15,983	0	0	0
7	27,753	449	0	0	0	0	0	1,383	0
8	6,822	3,226	0	0	0	0	0	0	0
9	118	13	0	0	0	0	0	0	0
23	2,139	0	0	0	0	0	0	4	0
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
64	17,275	0	0	0	0	0	0	20,812	0
65	908	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0
80	44	1	0	0	0	0	0	0	0
TOT	106,633	7,819	0	0	14,417	1,145,614	0	80,341	0

DIVISION 1

2000

Augmentation Releases



WATER COURT ACTIVITIES
Calendar Year 2000

New Applications made to water court this year.....	264
Consultations with Referee this year.....	293
Decrees Issued by Court this year.....	288
Dismissals.....	10
Vacating.....	5
Withdrawn.....	3

TYPES OF RULINGS

TYPE OF RULING	NUMBER OF CASES	NUMBER OF STRUCTURES
Findings of Diligence on Conditional Rights	36	237
Cancellations of Conditional Rights	4	5
Conditional Rights Made Absolute	14	18
Surface Water Rights Adjudicated	12	25
Underground Water Rights Adjudicated	178	1147
Water Storage Rights Adjudicated	27	52
Plans for Augmentation Adjudicated	31	724
Changes of Water Rights Adjudicated	40	155
Instream Flow Rights Adjudicated	3	3

CALLING PRIORITY 1999-2000

Date Call	Date Call						
Initiated	Released	Structure Name	Appropriation	Administration	District	Person	Districts
1999-2000	1999-2000		Date	Number		Placing Call	Affected
11-09-99	12-06-99	Denver Intake	03-21-1962	47481.40987	8	Denver	8,23,80
12-06-99	12-10-99	Denver Intake	12-06-1910	22254.00000	8	Denver	8,23,80
12-10-99	12-29-99	Denver, Intake	03-21-1962	47481.40987	8	Denver	8,23,80
12-29-99	01-05-00	Cheesman bypass to Denver Intake	12-31-1929	29219.00000	8	Denver	8,23,80
01-05-00	01-18-00	Denver Intake	12-06-1910	22254.00000	8	Denver	8,23,80
01-18-00	01-21-00	Denver Intake	03-21-1962	47481.40987	8	Denver	8,23,80
01-21-00	01-28-00	Denver Intake	12-06-1910	22254.00000	8	Denver	8,23,80
01-28-00	03-20-00	Cheesman bypass to Denver intake	12-31-1929	29219.00000	8	Denver	8,23,80
03-20-00	04-03-00	Marston Res	04-21-1911	22370.00000	8	Denver	8,23,80
04-03-00	04-26-00	Cheesman Res	06-27-1889	14423.00000	8	Denver	8,23,80
04-19-00	04-26-00	Denver Intake	12-06-1910	22254.00000	8	Denver	8,80
04-26-00	05-01-00	Burlington Direct bypass to Jay Thomas	11-20-1885	13108.00000	2	Bob Stahl	2,7,8,9,23,80
05-01-00	05-02-00	Barr Lake refill	01-13-1909	21562.00000	2	Bob Stahl	2,8,9,23,80
05-02-00	05-03-00	Cheesman Res	06-27-1889	14423.00000	8	Denver	80,23
05-03-00	05-05-00	Burlington direct bypass to Jay Thomas	11-20-1885	13108.00000	8	Bob Stahl	2,7,8,9,23,80
05-05-00	05-07-00	Cheesman bypass to Jay Thomas	06-27-1889	14423.00000	8	Bob Stahl	2,729,80,23
05-07-00	05-09-00	Upper Platte & Beaver	04-15-1888	13985.00000	1	Mae Cunning	1,2,3,4,5,6,7,8,9,80,23
05-09-00	05-09-00	Barr Lake refill	01-13-1904	21562.00000	2	Bob Stahl	2,8,9,80,23
05-09-00	05-11-00	Cheesman Res	06-27-1889	14423.00000	8	Denver	80,23
05-11-00	05-17-00	Cheesman bypass to Burlington Direct	06-27-1889	14423.00000	8	Denver	2,8,9,23,80
05-12-00	05-18-00	Riverside Direct	05-31-1907	20969.00000	1	Mae Cunning	1,2,3,4,5,6,7,8,9,80
05-17-00	05-20-00	Cheesman Res	06-27-1889	14423.00000	8	Denver	80,23
05-18-00	05-22-00	Dist 1 Res refill (Prewitt Res)	12-31-1929	31423.29219	1	Mae Cunning	1,2,3,4,5,6,7,8,9,80
05-20-00	05-26-00	Cheesman bypass to Burlington Direct	06-27-1889	14423.00000	8	Denver	2,8,9,23,80
05-22-00	06-02-00	North Sterling Res	08-01-1915	23953.00000	1	Mae Cunning	1,2,3,4,5,6,7
05-26-00	05-27-00	Denver intake bypass to Burlington	05-01-1899	18018.00000	8	Denver	2,8,80
05-26-00	05-27-00	Cheesman Res	06-27-1889	14423.00000	8	Denver	80,23
05-27-00	06-09-00	Cheesman bypass to Burlington Direct	06-27-1889	14423.00000	8	Denver	80,23
06-02-00	06-05-00	Dist. 1 Reservoirs	12-30-1929	31423.29218	1	Mae Cunning	1,2,3,4,5,6,7

CALL RECORD 1999-2000 (CONTINUED)

Date Call	Date Call						
Initiated	Released	Structure Name	Appropriation	Administration	District	Person	Districts
1999-2000	1999-2000		Date	Number		Placing Call	Affected
06-05-00	06-08-00	North Sterling Res	08-01-1915	23953.00000	1	Mae Cunning	1,2,3,4,5,6,7
06-08-00	06-09-00	Riverside direct bypass to Bijou	05-31-1907	20969.00000	1	Mae Cunning	1,2,3,4,5,6,7
06-09-00	06-12-00	Bijou Canal bypass to LowerPlatte&Beave	10-01-1888	14154.00000	1	Mae Cunning	1,2,3,4,5,6,7,8,9,23,80
06-12-00	06-15-00	Springdale Ditch	07-19-1886	13349.00000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
06-13-00	06-14-00	Burlington bypass to Jay Thomas	11-20-1885	13108.00000	2	Bob Stahl	2,8,9,23,80
06-15-00	06-16-00	Fulton bypass to Jay Thomas	07-08-1876	09686.00000	2	Bob Stahl	2,7,8,9,23,80
06-15-00	06-19-00	Iliff to Platte Valley Ditch	10-01-1883	12327.00000	64	Jim Hanrahan	1,2,3,4,5,6
06-16-00	06-17-00	Lower Latham Ditch	11-14-1877	10180.00000	2	Bob Stahl	2,4,5,6
06-16-00	06-17-00	Platteville bypass to Jay Thomas	10-05-1873	08689.00000	2	Bob Stahl	2,7,8,9,23,80
06-18-00	06-19-00	Fulton bypass to Jay Thomas	07-08-1876	09686.00000	2	Bob Stahl	2,7,8,9,23,80
06-19-00	06-21-00	Harmony No 1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	64,1
06-19-00	06-21-00	Bijou bypass to Lower Platte & Beaver	10-01-1888	14154.00000	1	Mae Cunning	1,2,3,4,5,6
06-19-00	06-20-00	Brighton bypass to Jay Thomas	11-01-1871	07975.00000	2	Bob Stahl	2,7,8,9,23,80
06-20-00	06-22-00	Platteville bypass to Jay Thomas	10-15-1873	08689.00000	2	Bob Stahl	2,7,8,9,23,80
06-21-00	06-26-00	Springdale bypass to Iliff & Platte Valley	07-19-1886	13349.00000	64	Jim Hanrahan	2,3,4,5,6
06-22-00	06-23-00	Fulton bypass to Jay Thomas	07-08-1876	09686.00000	2	Bob Stahl	2,7,8,9,23,80
06-23-00	06-26-00	Farmers HL bypass to Jay Thomas	04-01-1872	08127.00000	2	Bob Stahl	2,7,8,9,23,80
06-25-00	06-27-00	Lower Latham Ditch	11-14-1877	10180.00000	2	Bob Stahl	2,4,5,6,7,8,9,80,23
06-26-00	06-28-00	Low Line Ditch	10-14-1882	11975.00000	64	Jim Hanrahan	64,1,2,3,4,5,6,7,8,980,23
06-28-00	06-30-00	Harmony No 1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	64,1,2,3,4,5,6
06-28-00	06-29-00	Burlington bypass to Jay Thomas	11-20-1885	13108.00000	2	Bob Stahl	2,7,8,9,80,23
06-29-00	06-30-00	Fulton bypass to Jay Thomas	07-08-1876	09686.00000	2	Bob Stahl	2,7,8,9,23,80
06-30-00	07-03-00	Springdale bypass to Iliff & Platte Valley	07-19-1886	13349.00000	64	Jim Hanrahan	1,2,3,4,5,6,64
06-30-00	07-05-00	Brighton bypass to Jay Thomas	11-01-1871	07975.00000	2	Bob Stahl	2,7,8,9,23,80
07-03-00	07-13-00	Low Line Ditch	10-14-1882	11975.00000	64	Jim Hanrahan	1,2,3,4,5,6,64
07-05-00	07-06-00	Farmers HL bypass to Jay Thomas	04-01-1872	08127.00000	2	Bob Stahl	2,7,8,9,23,80
07-06-00	07-06-00	Brighton bypass to Jay Thomas	11-01-1871	07975.00000	2	Bob Stahl	2,7,8,9,23,80

CALL RECORD 1999-2000 (CONTINUED)

Date Call	Date Call						
Initiated	Released	Structure Name	Appropriation	Administration	District	Person	Districts
1999-2000	1999-2000		Date	Number		Placing Call	Affected
07-06-00	07-17-00	Lower Latham Ditch	11-14-1877	10180.00000	1	Bob Stahl	2,4,5,6
07-06-00	07-17-00	Evans No 2 bypass to Jay Thomas	10-05-1871	07948.00000	2	Bob Stahl	2,7,8,9,23,80
07-13-00	17-17-00	Bijou Ditch	10-01-1888	14154.00000	1	Mae Cunning	1,2,3
07-13-00	07-18-00	Harmony No 1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	64,1,2,3,4,5,6,7,8,80
07-17-00	17-19-00	Cheesman Res	06-27-1889	14423.00000	80	Denver	80,23
07-18-00	07-20-00	Dist 1 Res refill Prewitt Res.	12-31-1929	31423.29219	1	Mae Cunning	1,2,3,4,5,6,7,8,9,80
07-19-00	07-20-00	Evans No 2 bypass to Jay Thomas	10-05-1871	07948.00000	2	Bob Stahl	2,7,8,9,23,80
07-20-00	07-24-00	Bijou bypass to Lower Platte & Beaver	10-01-1888	14154.00000	1	Mae Cunning	1,2,3,4,5,6
07-20-00	07-21-00	Lupton Bottom by pass to Jay Thomas	09-15-1873	08659.00000	2	Bob Stahl	2,7,8,9,23,80
07-21-00	07-24-00	Harmony No 1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	64,1
07-21-00	07-22-00	Fulton bypass to Jay Thomas	07-08-1876	09686.00000	2	Bob Stahl	2,7,8,9,23,80
07-22-00	07-24-00	Platteville bypass to Jay Thomas	10-15-1873	08689.00000	2	Bob Stahl	2,7,8,9,23,80
07-24-00	07-25-00	Springdale Ditch	07-19-1886	13349.00000	64	Jim Hanrahan	64,1
07-24-00	07-26-00	Ft. Morgan bypass to Upr Platte & Beaver	10-18-1882	11979.00000	1	Mae Cunning	1,2,3,4,5,6
07-24-00	07-26-00	Lupton Bottom bypass to Jay Thomas	09-15-1873	08659.00000	2	Bob Stahl	2,7,8,9,80,23
07-25-00	07-26-00	Illiff & Platte Valley Canal	10-01-1883	12327.00000	64	Jim Hanrahan	1,64
07-26-00	07-31-00	Low Line Ditch	10-14-1882	11975.00000	64	Jim Hanrahan	64,1,2,3,4,5,6
07-26-00	08-18-00	Evans No 2 bypass to Jay Thomas	10-05-1871	07948.00000	2	Bob Stahl	2,7,8,9,23,80
07-31-00	08-02-00	Ft. Morgan bypass to Lowline Ditch	10-18-1882	11979.00000	1	Mae Cunning	64,1,2,3,4,5,6
08-02-00	08-05-00	Low Line Ditch	10-14-1882	10975.00000	64	Jim Hanrahan	64,1,2,3
08-02-00	08-17-00	Lower Latham Ditch	11-14-1877	10180.00000	2	Bob Stahl	2,4,5,6
08-05-00	08-07-00	Harmony No 1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	64,1
08-05-00	08-09-00	Ft. Morgan Ditch	10-18-1882	11979.00000	1	Mae Cunning	1,2,3
08-07-00	08-09-00	Illiff & Platte Valley Ditch	10-01-1883	12327.00000	64	Jim Hanrahan	1,64
08-09-00	08-16-00	Low Line Ditch	10-14-1882	11975.00000	64	Jim Hanrahan	64,1,2,3

CALL RECORD 1999-2000 (CONTINUED)

Date Call	Date Call						
Initiated	Released	Structure Name	Appropriation	Administration	District	Person	Districts
1999-2000	1999-2000		Date	Number		Placing Call	Affected
08-16-00	08-18-00	Pawnee bypass to Sterling No 1	06-22-1882	11861.00000	64	Jim Hanrahan	64,1,2,3,2,4,5,6
08-18-00	08-18-00	Low Line Ditch	10-14-1882	11975.00000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,80,23
08-18-00	08-19-00	Ft. Morgan bypass to Low Line Ditch	10-18-1882	11979.00000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,80,23
08-19-00	08-22-00	Harmony No1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	1,2,3,4,5,6
08-19-00	08-21-00	Burlington Ditch	11-20-1885	13108.00000	2	Bob Stahl	7,9,8,80,23
08-21-00	08-22-00	Burlington bypass to Jay Thomas	11-20-1885	13108.00000	2	Bob Stahl	7,9,8,80,23
08-22-00	08-25-00	Springdale Ditch	07-19-1886	13349.00000	64	Jim Hanrahan	1,2,3,4,5,6,64
08-22-00	08-28-00	Evans No 2bypass to Jay Thomas	10-05-1871	07948.00000	2	Bob Stahl	2,7,8,9,23,80
08-25-00	08-25-00	Ft. Morgan Canal	10-18-1882	11979.00000	1	Mae Cunning	2,3,4,5,6
08-25-00	08-26-00	Low Line Ditch	10-14-1882	11975.00000	64	Jim Hanrahan	1,2,3,4,5,6
08-26-00	08-27-00	Pawnee Ditch	06-22-1882	11861.00000	64	Jim Hanrahan	1,2,3,4,5,6
08-27-00	08-28-00	Ft. Morgan bypass to Low Line Ditch	10-18-1882	11975.00000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,80,23
08-28-00	08-29-00	Lupton Bottom bypass to Jay Thomas	09-15-1873	08659.00000	2	Bob Stahl	2,7,8,9,23,80
08-28-00	08-29-00	Springdale Ditch	07-19-1886	13349.00000	64	Jim Hanrahan	1,2,3,4,5,6
08-29-00	09-02-00	Harmony No 1 Ditch	04-28-1895	16554.00000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
09-02-00	09-06-00	Peterson Ditch	03-01-1895	17846.16496	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
09-06-00	09-18-00	Dist. 1 Res refill (Prewitt Res)	12-31-1929	31423.29219	1	Mae Cunning	1,2,3,4,5,6,7
09-06-00	09-18-00	Barr Lake Refill	01-13-1909	21562.00000	2	Bob Stahl	2,8,9
09-06-00	09-18-00	Denver Intake	05-01-1899	18018.00000	8	Denver	23,80
09-07-00	09-19-00	Cheesman Res	09-24-1893	15973.00000	80	Denver	23,80
09-18-00	09-21-00	Peterson Ditch	03-01-1895	17846.16496	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9
09-19-00	09-22-00	Denver Intake	10-01-1889	14519.00000	8	Denver	8,23,80
09-21-00	11-01-00	Dist 1 Res refill (Prewitt res)	12-31-1929	31423.29219	1	Mae	1,2,3,4,5,6,7
09-21-00	11-01-00	Barr Lake refill	01-13-1909	21562.00000	2	Bob Stahl	2,8,9
09-22-00	10-25-00	Denver Intake	09-01-1892	15585.00000	8	Denver	8,23,80
10-25-00	11-01-00	Denver Intake	05-01-1899	18018.00000	8	Denver	8,23,80

Staffing

Dam Safety Engineers	4
Water Resource Engineers	7
Engineering/Physical Science Techs (Includes 4 Hydrographers)	5
Program/Administrative Assistants	2
Full-Time Water Commissioners	16
Permanent Part-Time Water Commissioners	7
Temporary Water Commissioners	<u>2</u>
TOTAL STAFF	43

Statistics

Decreed Surface Rights	12,288
Number of Well Permits	131,916
Number of Plans for Augmentation	622
Number of Dams	778
Number of Active Substitute Supply Plans	111
Number of Contacts to give Public Assistance	44,700+

DIVISION ONE TELEPHONE-ACCESS GAGES

CHATFIELD LAKE	303-979-1879
CHERRY CREEK LAKE	303-755-4325
BEAR CREEK LAKE	303-986-7304
BEAR CREEK--MORRISON	303-697-8341
BEAR CREEK--SHERIDAN	303-781-1602
CLEAR CREEK--GOLDEN	303-279-9781
CLEAR CREEK--DERBY	303-287-3664
SO. BOUDER DWD DIVERSION	303-494-5123
MOFFAT TUNNEL	303-258-7855
ST. VRAIN--LYONS (Param. 2)	303-823-9535
BIG THOMPSON ABOVE ESTES	970-962-4471
BIG THOMPSON BELOW ESTES	970-962-4472
ADAMS TUNNEL	970-962-4277
OLYMPUS TUNNEL	970-962-4473
OLYMPUS DAM (LAKE ESTES)	970-962-4474
MARY'S LAKE	970-962-4275
BIG THOMPSON--CANYON	970-962-4256
HANSEN FEEDER CANAL	970-593-8082
CACHE LA POUUDRE-CANYON	970-498-9158
SO. PLATTE--WATERTON	303-979-4004
SO. PLATTE--ENGLEWOOD	303-781-6009
SO. PLATTE--DENVER	303-297-9505
SO. PLATTE--HENDERSON	303-659-2160
SO. PLATTE--KERSEY	970-346-6173
SO. PLATTE--BALZAC	970-847-9962
SO. PLATTE--JULESBURG #1	970-474-0948

Division 1

