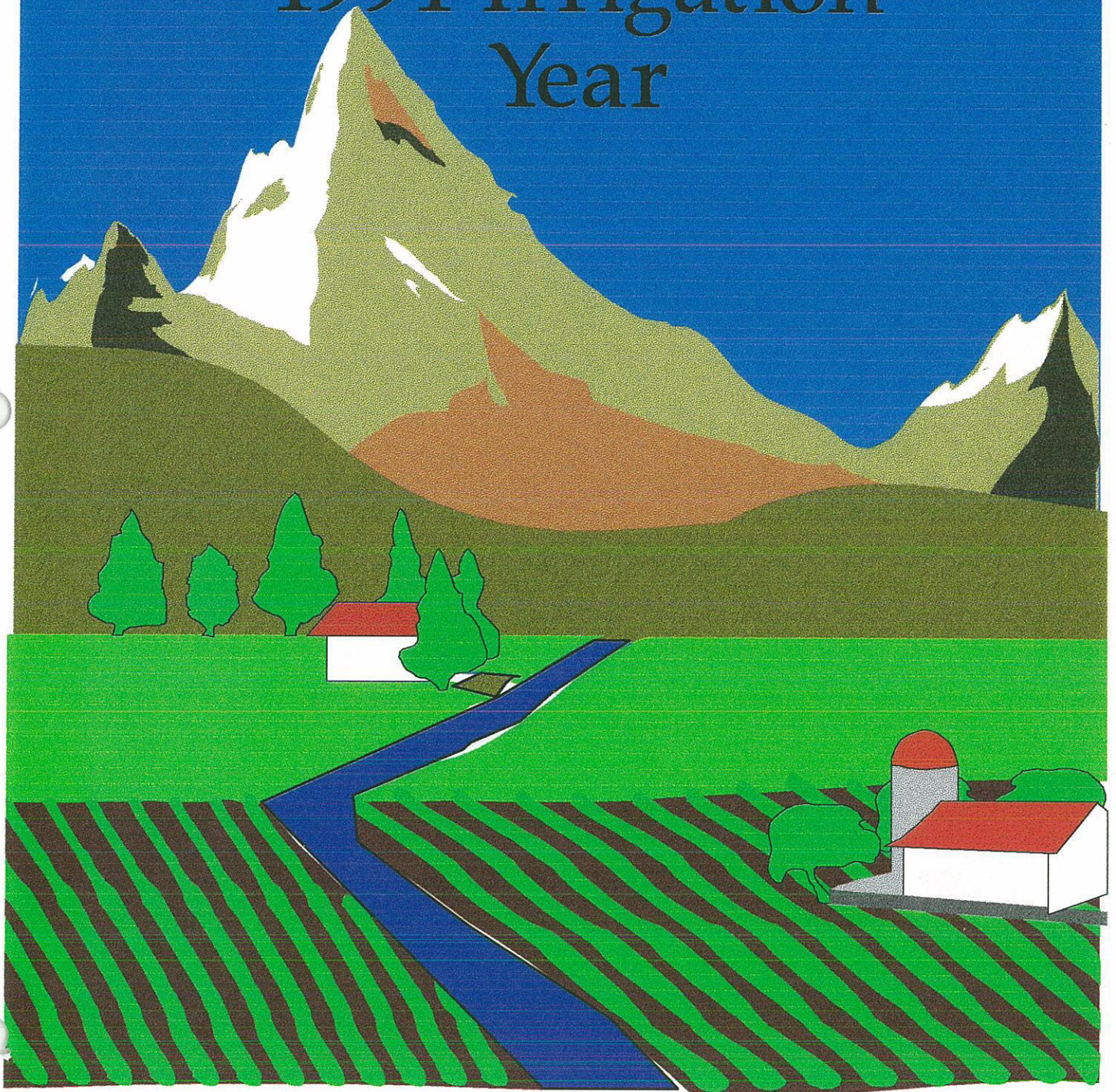


Division 1

Annual Report 1994 Irrigation Year



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WATER ADMINISTRATION

Current Water Year

Accomplishments

Water Administration

The 1994 irrigation year was drier and hotter than normal, creating concern that an extended drought could be in the making. There were no significant basinwide rainfall events in the spring that obviated the need to irrigate up crops. Instead, reservoir water was used in the spring for that purpose, in many instances reducing available storage for late season irrigation. Demands for direct flow water started earlier than normal in May, and the seniority of calls for the summer was similar to that experienced in 1977, the last significant drought year. Summertime rainfall brought little relief from dry conditions, and by the end of the irrigation season many irrigation reservoirs were completely empty for the first time in many years. The lack of appreciable precipitation since summer and the below normal snowpack currently existing in the mountains suggests that the upcoming year may prove to be even more severe in terms of water supply.

The number of water rights in Division One increased as 147 new decrees were awarded through the water court. Presently, there are 11,989 decreed surface rights, 113,507 permitted wells (of this amount 88,333 are exempt type), 473 plans for augmentation, 787 dams, and 114 active substitute supply plans (of which 52 are for gravel pits) existing in Division One.

Over the past year division one staff reviewed and refined administrative operations in several areas throughout the basin. In old water district 23, a method to pass developed water through Antero Reservoir was worked out with Aurora and Denver, including improved communication procedures. In old water district 8, the Cherry Creek Reservoir accounting spreadsheet was modified to account for available exchange waters that can be stored in the reservoir. This will allow the level of water in this popular recreation reservoir to be maintained using exchange water. Similar discussions are being held regarding Bear Creek reservoir to create a daily operation spreadsheet for that reservoir. Daily operations will be necessary with the water transfers of Bear Creek water rights presently being sought by Denver. Communications between the water commissioners,

division office, and water users was improved and will continue to improve with the implementation of the South Platte Water Rights Management System (SPWRMS).

The decreed transfer of several irrigation, municipal and storage rights owned by the City of Boulder to instream flow purposes was administered for the first time under a court decree this year. The decree in this case allows the City to leave its water in the stream in lieu of using the water for municipal use. In times of drought, the City may use the water subject to this case for municipal use. Despite several minor difficulties in water measurement and accounting, the administration of this minimum streamflow was successful. Some issues remain regarding the disposition and possible uses of the water once it leaves the reach identified for instream purposes.

The City of Fort Collins encountered an emergency water supply situation this fall when construction at Horsetooth Reservoir temporarily eliminated this source of supply for the city at the same time that Ft. Collins' other source, the Poudre River, experienced extremely low flows due to the dry conditions and low temperatures. The water commissioner coordinated with Fort Collins, Greeley and other water users to avert an emergency shortage problem. At the same time, the Cities and Water Supply and Storage Company were still able to meet the provisions for streamflow enhancement of the Poudre River as required in the Joint Operation Plan (JOP) recently agreed to between the water users and the U.S. Forest Service.

Dam Safety

The dam safety branch in Division One has four engineers that carry out the dam safety program. The dam inspection program to evaluate the safety of dams was altered this year to a 1-2-6 frequency of inspection for Class 1, Class 2, and Class 3 dams, respectively. Accordingly, the annual goal was to inspect 177 dams. In actuality, 190 dams were inspected during the past year. The relaxed inspection frequency allowed additional time for hydrologic review of the 127 Class 1 dams in the division. Of these dams, 22 were temporarily exempted from review pending a review of extreme precipitation for elevations above 7500 feet. Of the remaining 105 dams, 51 have been identified as needing additional analysis. At the end of the year, 41 studies have been completed and work is progressing on the remaining 10. Also, two of the engineers have initiated evaluation of Class 2 dams. Outlet inspections continue and use of the SLED to inspect small diameter outlets has been helpful.

One emergency occurred last April at the Aurora-Rampart Dam when sinkholes and seepage were discovered in a ridge well downstream of the dam. The dam itself was never in danger, but the emergency plan was enacted to prevent a potential release from the reservoir.

A quarterly newsletter has been developed and distributed to dam owners to keep them apprised of requirements, problems and other information related to dam safety. We

hope this tool will increase the communication and awareness concerning dam safety issues.

Hydrography

Hydrographers in Division One measured and kept records for 81 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 53 stations are records kept solely by the Division of Water Resources (DWR) and are published separately by the DWR.

Funding received from the Colorado Water Conservation Board's construction fund has allowed the staff to repair and replace stream gages that have fallen into disrepair. During the past year, new stations were installed on Boulder Creek at Orodell, on the Middle Fork of the South Platte River at Garo, and on the South Platte River at the Jay Thomas headgate near Platteville. New data collection platforms (DCP's) were installed at the Greeley-Loveland headgate, on Buckhorn Creek near Loveland, on the Harmony Ditch near Crook, on the Laramie River near Glendevy, and on the Wilson Supply Ditch near Eaton (Wooster) reservoir. A new cableway was installed at the South Platte at South Platte station. 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 efficiently. These efforts should improve streamflow data as well as make it easier to operate the stations.

Groundwater

At the beginning of 1995, there were 113,507 valid well permits in Division One. This includes 25,174 permits that are non-exempt, of which 14,516 have irrigation identified as the beneficial use for the well. During the past year 5,213 new well permits were issued in the division. Throughout the state, well permit activity was up from previous years making it difficult for field staff to keep up with field inspections and requests for information. The drought conditions also increased water commissioner workload due to wells losing production or going completely dry.

Denver 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. 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 with 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. An injunctive action against one pit on the Big Thompson River was filed in October, but a consent decree appears to be close to being agreed upon so that litigation before Judge Hays will not be necessary.

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 should significantly enhance access to water information.

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

Special On-going Projects

Long Range Plan

Division 1 staff participated in a two day meeting to update the Colorado Division of Water Resources Long Range Plan. This work helped result in the October 6, 1994 revised Long Range Plan. The plan will allow the Division of Water Resources to address future demands on water resources resulting from growth, changing public values, federal regulations, and interstate issues. Revised goals are summarized as follows:

Goal 1. To Develop and Maintain Staff Professionalism.

Goal 2. To Acquire the Technology that Effectively Supports Public Information Needs, Water Administration Needs, and Provides High Quality Data.

Goal 3. To Continuously Improve Water Rights Administration and Record Keeping.

Goal 4. To Allocate Fiscal and Human Resources to Meet and Maintain Statutory and Mission Related Activities.

Goal 5. To Improve Services by Reducing Well Permitting and Subdivision Review Times.

Goal 6. To Improve Public Opinion of the Division of Water Resources.

Goal 7. To Improve Colorado's Ability to Protect Its Entitlements from Interstate Compacts.

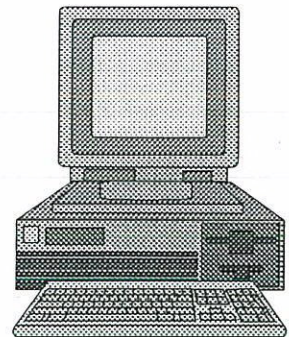
Goal 8. To Protect Public Safety Through Dam Safety Efforts.

In accordance with Goal 2, Objective 2 of the Water Resources Long Range Plan, Division One completed an investigation of the use of personal computers, including tool kits, by water commissioners. Specifically, the investigation attempted to address whether a lap top or a standard PC is better suited for use by a water commissioner, the type of hardware and software which a water commissioner needs, and the type of computer training and support necessary. The report for this investigation was submitted in November of 1994 with recommendations in each of the subject areas.

Initial efforts have also begun to add diversion records from wells to the official diversion database as required in Goal 3, Objective 2.

South Platte Water Rights Management Support System (SPWRMS)

Significant progress was made this irrigation year on the implementation of the SPWRMS project. This system is being developed for the South Platte River and its tributaries to provide a tool for water commissioners and Division office personnel 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 ultimate goal for the project is to allow for the water commissioners to enter daily information concerning flows, diversions and releases on water information sheets and transfer of this information via lap top computers to a wide area network which can be accessed by water users. Along with this, flow information collected by the satellite

monitoring network will also be available to the application. This information along with the graphic and map information available will allow real time diversion and flow information to be accessible to the Denver and Division staff and other water users in a very user friendly format. The application will have other "tools" including a curtailment analysis which may assist in water decision making in the future.

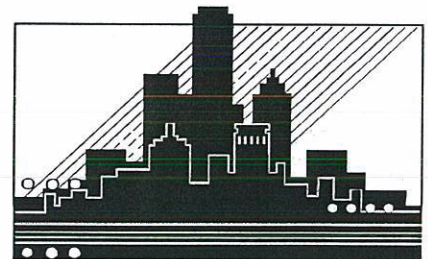
Communication problems between the application and the data base and UNIX system temporarily created a major obstacle to completion of the project. These problems have now been resolved. Water Commissioner testing of the application is in progress and it is anticipated that full scale implementation will begin in early 1995. The Division's goal is to fully implement the SPWRMS project during the 1995 irrigation season.

South Platte Well Study

The cooperative pilot program to evaluate the accuracy of various methods of measuring well pumping continued in 1994. The agencies cooperating with DWR are Ground Water Appropriators of the South Platte (GASP), Central Colorado Water Conservancy District (CCWCD) and Lower South Platte Water Conservancy District (LSPWCD). In June and August, field well efficiency tests were performed on all but two of the 28 study wells. Either weekly or biweekly data on power consumption, hours of operation and flow meter readings (where available) were collected on each of the study wells for the irrigation season. Preliminary results appear to be consistent with the 1993 data with a general agreement in the estimated volume of water pumped using these three data sources. Discrepancies exist where the wells surge. In 1995 staff will collect another season of data on the same wells and perform another set of efficiency tests in both June and August to further examine seasonal well efficiency changes. Field work is expected to be concluded on this study in 1995, with the final report being completed sometime next winter.

Metropolitan Water Supply Investigation

This on-going study was initiated by the governor 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. A technical advisory committee (TAC) has been formed to develop a plan of study and scope of work for the investigation. The study participants have been divided into subgroups that will examine five main conceptual areas related to the project. The five areas include conjunctive use, effluent management, system integration, metro storage, and interruptible supply options. Each subgroup is evaluating issues and information in those particular areas for presentation to the TAC. The TAC will then narrow the study to several specific projects that are chosen as being



the most effective and likely to produce increased water availability. The study's consultants will then perform extensive engineering analyses of those particular projects to demonstrate the benefits so that they can actually be implemented in the future. The study is intended for completion by the end of 1995.

Lysimeter Study

The small lysimeter-lawn grass return flow study being conducted at CSU continued through last year. The cooperating entities are DWR, City of Colorado Springs (CCS) and Colorado Water Resources Research Institute (CWRRI). The monitoring of the small and large lysimeters continued through the 1994 season. A new sprinkler system was installed in late April/early May to provide a uniform application. The monitoring results from the 1994 season indicate that both the small weighing and drainage lysimeter designs accurately predict ET when compared with the Penman method (both types were within 4% of the predicted ET). This answers the first of the two main questions at the start of the study in the affirmative, small lysimeters are accurate.

In the 1995 irrigation season, the study will focus on the second main question, how does the frequency of irrigation effect return flow? To determine this, all of the small lysimeters will be repacked with a single soil type and some will be relocated to one of the four sprinkler zones available to allow the application frequency to be easily varied. It is anticipated that each zone will receive the same amount of water, probably between 100% and 130% of potential CU. The frequency will be varied to evaluate the differences in response to daily, every two days, twice a week and once a week patterns of application. It is hoped that this will help explain the large amount of scatter we have seen in all of the "real world" data sets.

Hydrobase

Division staff continued to provide expertise and input to the development of the new water data base of water associated information. The new database will run in a UNIX language environment and will provide access to all water related data presently kept by the Colorado Division of Water Resources. This database will integrate into the SPWRMS system and become the official database for the Division of Water Resources.

Important Court Decisions

Central et.al. vs. State of Colorado et.al. (92SA499)

The Supreme Court rendered its decision concerning the constitutionality of the guiding legislation (Senate Bill 120, 1989) which requires augmentation for the evaporation resulting from exposed gravel pit lake surfaces. Specifically, the Central Water Conservancy District had filed an appeal from the Water Court's decision that this statute was constitutional. Central claimed that the statute was unconstitutional because it

excluded pre 1981 pits from augmentation requirements and provided for the acceptance of existing Water Conservancy District or Water User Plans for the replacement of evaporation. The Supreme Court affirmed the water court decision that the legislature could exempt pre 1981 pits from augmentation requirements and that Conservancy District and Water User Plans were also acceptable. The Supreme Court did allow for individual users to file lawsuits in cases where injury is claimed.

Forest Service (93SA227)

The United States of America voluntarily requested dismissal of its appeal of the Water Courts ruling on the United States Reserved Water Rights applications for the Pike, Roosevelt, San Isabel, and Arapaho National Forests. The Judge granted this motion. The United States had requested reserved water rights to maintain favorable flows within the forest and also for limited administrative and fire fighting purposes. The water court had denied the Forest Service's application except for the limited administrative and fire fighting purposes. In lieu of these reserved rights, the Forest Service has actively pursued the maintenance of flows by considering similar flow requirements as a condition of approval of special use permits which govern the operation of reservoirs and other water structures located within the National Forests.

City of Louisville (92CW79)

Division staff spent considerable time in negotiating and preparing for trial in the proposed change of Community Ditch shares to municipal use. While this case has not been resolved, discussions have been fruitful in requiring that irrigation returns be made to affected basins, including the Big Dry Creek basin. Progress has also been made in refining the historic use, and thus future diversions and consumptive use limitations of shares of the Community Ditch

Important On-Going Water Issues

Central Platte River Basin Endangered 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 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. It is also hoped that such efforts will prevent additional listings of other species within the Platte River basin.

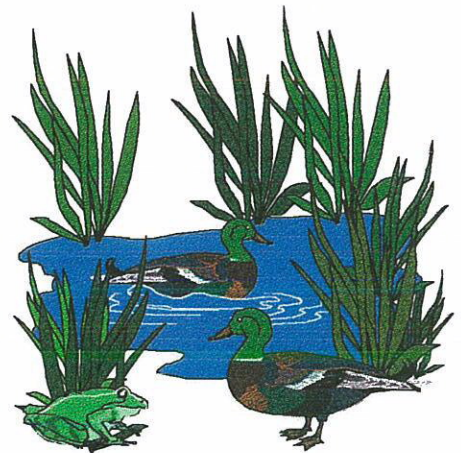


The proposed program acknowledges that two basic components, water and land, are both instrumental in providing the habitat necessary for recovery of the species. The terrestrial needs for a potential recovery program have been identified through previous research and are generally defined and agreed upon. The water component is much more controversial and may have significant impacts upon existing uses of water within the Platte basin. The U.S. Fish and Wildlife Service has identified target flows for the critical habitat reach which represent an additional requirement of approximately 415,000 acre feet of water over post development historic flows each year.

Presently, there seems to be some agreement that a phased plan be adopted that allows the recovery effort to begin with achievable and reasonable resource inputs, then allow for periodic adjustments to the program based upon the response of the system to the changes that are made. There are many issues related to this recovery plan, but none more controversial than the unknown impact it could have on water rights and water supplies.

Centennial Wildlife Refuge

Division Staff have participated on the Centennial Task Force which is working towards identifying and recommending strategies that will provide long term protection of approximately 15,000 acres of wildlife habitat and agricultural land in the vicinity of Orchard, Colorado. Originally, the United States Fish and Wildlife Service had proposed that the area near Orchard be designated as a Federal Wildlife Preserve. There had been a strong negative local response to this proposal. As a result, the Centennial Task Force was formed. The Task Force created a technical support committee to provide direction for a detailed study of the natural resources of the area. The goal of the Task Force is to identify an alternative or alternatives that will meet environmental goals while still protecting water rights, the local economy and property rights of those who live in the area. Division staff have provided background information and monitored progress of this process.



Use of Denver Basin Water Supplies for Development in Southern Metro Area

The Cherry Creek and Plum Creek areas to the south of Denver have experienced extremely rapid growth in recent years. Douglas County is the fastest growing county in the United States. This growth is occurring using the nontributary Denver Basin as a major source of water supply. To this point in time, growth has not caused too many problems. However, the Denver Basin is a finite water supply, and limited renewable water supplies are available from Cherry Creek and Plum Creek. At some time in the not too distant future, Denver Basin groundwater will have been exhausted and serious water

shortages will occur unless renewable water supplies are brought into the basin to replace the Denver Basin sources. The costs of finding renewable supplies will certainly continue to rise with time.

Already specific areas in the Denver Basin are already experiencing problems after 10 years of operation under Senate Bill 5 provisions. Reductions in piezometric head on the order of 200 to 300 feet have been documented in the Arapahoe aquifer in localized areas. Wells completed in the outcrop areas of the Arapahoe aquifer have felt these reductions in head, as reports of dry wells have occurred. The problem areas will move to the more central parts of the Denver Basin aquifers with time. At risk is the water



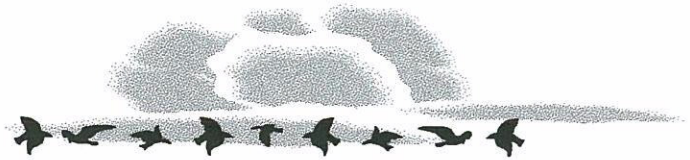
supply of numerous houses and businesses. The combined events of reduced groundwater availability and increased difficulty and expense to bring in renewable supplies suggests that a large "water availability wreck" could occur in the not too distant future.

US Forest Service/Poudre Water Users Joint Operations Plan

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. The City of Greeley, the City of Ft. Collins, and the Water Supply and Storage Company are three entities in the Poudre River drainage which had facilities (reservoirs) go through the permit renewal process last year. The USFS permitting process evaluates how a particular project/structure impacts the forest plan for the forest in question, and recommends conditions under which the structure must operate in order to preserve the viability of that forest. In the cases on the Poudre River there was an issue regarding whether or not a continual by-pass flow should be required below each of the reservoirs. The water users were extremely worried that wintertime by-pass flow operations would compromise the integrity of the structures. The largest concern was that the structures were not designed to operate under wintertime freezing conditions and that a high potential existed to incur damage from ice and freezing water. Since the dams are located in relatively remote areas, repairs would be difficult, if not impossible. After much negotiation the water users proposed the formation of a joint operations plan utilizing the combined facilities of the three entities to enhance habitat along the Poudre River within the forest. The City of Ft. Collins (Joe Wright Reservoir), Water Supply and Storage Company (Long Draw Reservoir and Chambers Lake), and the City of Greeley (Barnes Meadow Reservoir) agreed upon an operational scheme using the facilities mentioned to enhance the trout habitat on the main stem 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. This release was a tradeoff for not having to release wintertime by-pass flows directly below the subject reservoirs, excluding Joe Wright reservoir. Waters released from storage will be rediverted and utilized by the cities over the winter.

South Platte Environmental Issues in Colorado

Concern with environmental issues continues to grow in Colorado's South Platte River basin. Threatened



and endangered species issues reach into Colorado on any project that requires a federal permit. For example, the area around Central City and Black Hawk has been rapidly growing due to the introduction of limited stakes gambling. Water supply is very limited in the area, and the most practical option to secure needed water supplies is to construct reservoirs to store or exchange water. Section 7 consultations to evaluate impacts on threatened and endangered species were needed to proceed toward construction. Negative impacts were determined to result from the proposed projects and replacement water will be required to mitigate the depletive impacts caused by the projects. Similar findings and requirements have occurred in the past and many more projects will be evaluated for such impacts in the future.

The U.S. Geological Survey has conducted a water quality assessment in the South Platte River in Colorado to obtain baseline data on water quality within the basin. Preliminary results are just becoming available. One of the issues for which data was gathered was the level of nitrates within the river system. Several critical areas have been identified as having nitrate levels over the acceptable standard for domestic uses. The study has isolated manure applications on cropland as being a significant contributor to the situation. These results could lead to changes in feedlot operations, specifically manure management and application rates.

The Denver Metropolitan Wastewater District has spent considerable money in evaluating alternative methods to denitrify effluent leaving the metro sewer plant, other than the standard tertiary treatment techniques where costs are in the millions of dollars. The current effluent releases to the South Platte River result in periods of insufficient oxygen levels during low flow periods, which is not in compliance with stream standards. Alternatives to direct treatment at the metro sewer include construction of rapid infiltration basins to filter the water, direct delivery to ditches or other areas where the water can be used for irrigation via pipeline, and construction of drop structures that increase oxygen in the water. Final decisions on how to deal with the problem should occur in 1995.

The City of Fort Morgan was cited and initially fined over 40 million dollars for violating stream discharge standards for effluent last year. The charges have been greatly reduced since then and the city is dealing with the problem. The city has participated in the southern water supply pipeline in conjunction with the Northern Colorado Water Conservancy District which will, if finished, bring high quality water to Ft. Morgan to replace the groundwater presently used by the city.

Water quality continues to be a growing problem in the metropolitan area. The City of Thornton has obtained decrees for water from the Poudre River to replace the increasingly lower quality of water from their present sources, Clear Creek and the South Platte River. In the wintertime, the City of Englewood experiences high treatment costs when flows in the Platte River get low and are made up of mostly return flows below Chatfield Reservoir. Summertime exchanges from the metro sewer to Denver's intake can also create similar low flow conditions through Denver in the summer months.

Personnel/Workload Issues

Fair Labor Standards Act (FLSA)

The provisions of the Fair Labor Standards Act were implemented by the Division of Water Resources this past year. Employees not exempted from the Act are required to be compensated at a rate of time and one-half for hours worked over 40 in a weekly time period. This is done either in the form of payments or compensatory time. To address part of this situation, an additional \$206,931 was appropriated to the Division of Water Resources to allow for the paying for overtime work of water commissioners and hydrographers. Payments were made without significant burden to Division One staff, though some difficulties existed in working out the rules associated with overtime and with developing proper accounting to keep track of overtime. Compensatory time was given to commissioners during the winter months wherever possible to reduce the need for dollars to pay overtime. It would be impossible to provide water commissioners solely with compensatory time without resulting in a severe reduction of services.

Position Description Questionnaires (PDQ's)

The personnel department completed its effort to reclassify and place all Division jobs in updated job classifications by the use of position description questionnaires (job descriptions) that were filled out by all employees. The questionnaires were designed to provide the information necessary to define each particular job. Job classifications are evaluated by considering the job factors of complexity, decision making, line/staff authority, and purpose of contact. Each position description questionnaire developed by the Division staff was evaluated by a panel to determine the proper assignment of that position into the new classification system. Division 1 staff were participants on both the Water Commissioner panel and Professional Engineer II through IV panels as one person was appointed to each of the panels. The participants were able to provide the panel with valuable information and background to aid in the proper placement of positions in the various class descriptions.

Well Administration Activities

The past year required more time from water commissioners along the front range in dealing with the various responsibilities surrounding the well permitting and enforcement processes. Notices were sent out asking well owners to update ownership information, and this precipitated numerous phone calls with questions and concerns. With about 90,000 exempt type well permits in existence, the number of inquiries can be large, especially along the front range where well density is high.

The dry conditions over the year also contributed to well related problems as low water tables reduced pumping rates and caused some equipment failures. Field inspections for beneficial use statements and for water use reports also continued at high levels. Finally, the administrative complexities associated with wells covered by augmentation plans add another component of administrative responsibility. The combination of the above tasks have forced some water commissioners to work longer hours to keep up with their workload.

Coming Water Year

Goals and Objectives

South Platte Water Rights Management System

Full implementation of the system is the goal this year. The application is currently being tested, and all commissioners are expected to begin use of it this spring. We expect to expend significant time working out bugs and adjusting to new problems so that the application will be useful to water users and administrators.

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.

Personnel

Now that PDQ's are completed and implemented, the division plans to improve efforts on the personnel evaluation process. Customized PACE plans will be created, and more attention will be put into the review process. Division staff plan to utilize the overtime funds earmarked to pay for overtime to maximize services to the public and water users. Two positions need to be filled and the goal is to do that before April of 1995.

Federal Issues

Staff will spend time working on issues including the habitat recovery program just being organized on the South Platte River, Centennial Wildlife Refuge, solutions to problems arising in special use permit renewals within U. S. forest, and water quality issues. Because these issues are far reaching and in control of others, reasonable goals are difficult to set. Participation is necessary and will be provided.

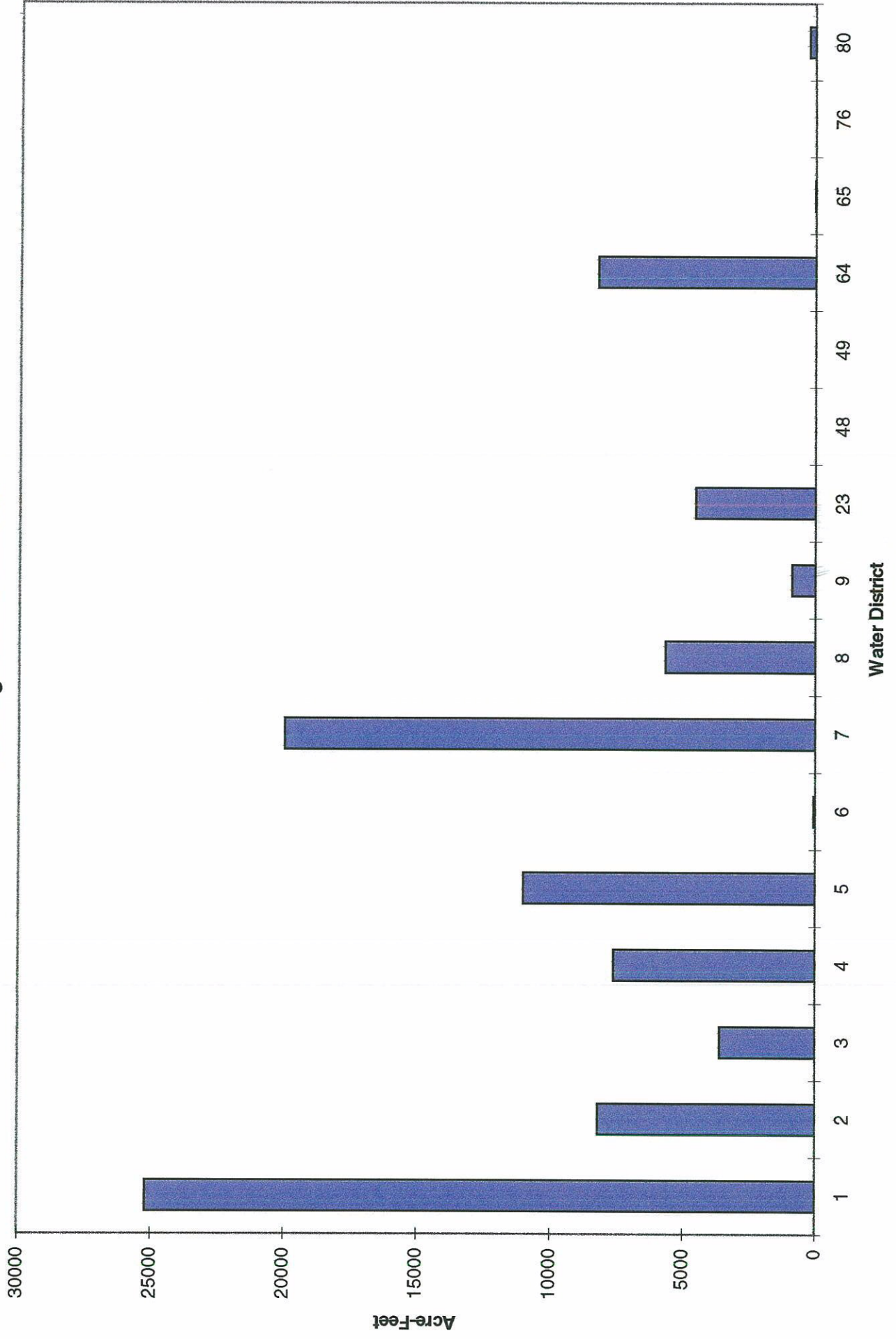
Long Range Plan

New tasks in the long range plan that will be addressed in the coming year include preparation of a specific plan setting targets to enhance and improve records and data collection (goal 3, obj. 2); developing and implementing a plan to expand coverage and accuracy of water supply data (goal 3, obj. 3); and evaluating the feasibility of determining irrigated acreage, cropping patterns, consumptive use, return flow patterns, and forecasting runoff (goal 3, obj. 4).

Development of New Projects

There are numerous opportunities to develop combined recharge/storage activities that also have multiple uses and benefits along the South Platte River that lies downstream of Ft. Morgan. One goal this year will be to promote the installation of such projects. One possible project is located near Ovid where existing draws can be dammed to create storage that can be filled in the winter. Division staff will continue to investigate this project in conjunction with GASP and other interested parties. Another location with great potential to build both storage and recharge as well as create habitat for migratory birds is at Tamarack Ranch, owned by the Colorado Division of Wildlife. Efforts will be made to at least study the feasibility of building a multipurpose project on that property that will benefit many uses. Other sites along the Harmony ditch exist which also appear to be workable. Such projects can produce benefits to threatened and endangered species, well users, ditch companies, habitats, compact operation, and recreation.

DIVISION 1
1994 Augmentation Releases



TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS

RECIPIENT										SOURCE			
WD	ID	NAME	STREAM	10 YEAR AVG		CURRENT YEAR				WD	ID		
				AF	DAYS	AF	DAYS						
3	4604	WILSON SUPPLY DITCH	CACHE LA POUDRE RIVER	13513	38	1580	39	48		48	4604	SAND & DEADMAN CR.	
3	4608	DEADMAN DITCH	CACHE LA POUDRE RIVER	408.82	24.3	306	21	48		48	4608	DEADMAN CREEK	
3	4606	BOB CREEK DITCH	CACHE LA POUDRE RIVER	0	0	0	0	48		48	4606	NUNN CREEK	
3	4607	COLUMBINE DITCH	CACHE LA POUDRE RIVER	0	0	0	0	48		48	4607	DEADMAN CREEK	
3	4600	LARAMIE-POUDRE TUNNEL	CACHE LA POUDRE RIVER	18541.3	106.9	19490	123	48		48	4600	LARAMIE RIVER	
3	4605	SKYLINE DITCH	CACHE LA POUDRE RIVER	432.9	6.8	0	0	48		48	4605	LARAMIE RIVER	
3	4602	CAMERON PASS DITCH	CACHE LA POUDRE RIVER	64	16.3	0	0	47		47	4602	MICHIGAN RIVER	
3	4603	MICHIGAN DITCH	CACHE LA POUDRE RIVER	2855.8	192.1	5910	172	47		47	4603	MICHIGAN RIVER	
3	4601	GRAND RIVER DITCH	CACHE LA POUDRE RIVER	21710.7	140	17870	135	51		51	4601	COLORADO RIVER	
4	911	EUREKA DITCH	BIG THOMPSON RIVER	37.7	35.6	0	0	51		51	4602	COLORADO RIVER	
4	4634	ADAMS TUNNEL	BIG THOMPSON RIVER	251480	388.9	233200	365	51		51	4634	COLORADO RIVER	
6	4655	MOFFAT TUNNEL	SOUTH PLATTE RIVER	65314	375.9	43310	365	51		51	4655	FRASER RIVER	
7	4625	BERTHOUD PASS DITCH	CLEAR CREEK	864.7	113.3	874	101	51		51	4625	FRASER RIVER	
7	4626	VIDLER TUNNEL	CLEAR CREEK	798.1	104.4	465	31	36		36	4626	MONTEZUMA CREEK	
8	653	ROBERTS TUNNEL	SOUTH PLATTE RIVER	48629.9	167.7	73890	312	36		36	4684	BLUE RIVER	
23	4611	BOREAS PASS DITCH	SOUTH PLATTE RIVER	56.9	26	90	42	36		36	4685	INDIANA CREEK	
23	4612	HOOSIER PASS DITCH	ARKANSAS RIVER	10835	161.6	9160	139	36		36	4683	BLUE RIVER	
23	4490	AURORA HOMESTAKE	SOUTH PLATTE RIVER	12366.3	119.1	15302	161	37		37	4644	HOMESTAKE CREEK	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 1

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						END OF YEAR
				MINIMUM		MAXIMUM				
				AF	DATE	AF	DATE			
1	3570	BIJOU #2	SOUTH PLATTE	0	5/1/94	4980	10/1/93		4980	
1	3816	EMPIRE	SOUTH PLATTE	1254	8/1/94	34930	3/1/94		2848	
1	3817	JACKSON	SOUTH PLATTE	2584	8/1/94	27192	3/1/94		2584	
1	3651	RIVERSIDE	SOUTH PLATTE	5206	8/1/94	63113	3/1/94		5206	
1		OTHERS		14002.74		125748.75			60017.3	
1		TOTALS		23046.74		255963.75			75635.3	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 2

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				END OF YEAR
				MINIMUM		MAXIMUM		
				AF	DATE	AF	DATE	
2	3837	OASIS RES/BARR	SOUTH PLATTE	2932	9/30/94	30872	4/30/94	4300
2	3351	BULL CANAL #8	CLEAR CREEK	831	11/1/93	3053	6/30/94	921
2	3890	COAL RIDGE	LITTLE DRY CREEK	0	8/31/94	491	4/30/94	0
2	3861	GREAT WESTERN	WALNUT CREEK	1031	5/31/94	2720	7/31/94	1842
2	3878	HORSE CREEK	SOUTH PLATTE	2164	11/30/93	15086	5/31/94	1526
2	3902	LORD	SOUTH PLATTE	0	11/30/93	419	5/31/94	0
2	3858	LOWER LATHAM	SOUTH PLATTE	3258	8/31/94	6212	11/30/93	6212
2	3876	MILTON	SOUTH PLATTE	4659	9/30/94	21067	4/30/94	10901
2	3877	PROSPECT	SOUTH PLATTE	1424	8/31/94	4983	2/28/94	1438
2	3375	QUINCY	SOUTH PLATTE	2026	8/31/94	2624	11/30/93	2286
2	3903	STANDLEY	WOMAN CREEK	28328	10/31/94	42268	6/30/94	28328
2		OTHERS		1374.7		4270.8		1551.5
2		TOTALS		48027.7		134065.8		59305.5

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				END OF YEAR
				MINIMUM		MAXIMUM		
				AF	DATE	AF	DATE	
3	3774	FOSSIL CREEK	FOSSIL CREEK	912	9/30/94	9288	11/1/93	4361
3	3712	HALLAGAN	N FK POUDRE RIVER	369	11/1/93	6428	5/31/94	571
3	3707	INDIAN CREEK/MTN SUPPLY	INDIAN CREEK	0	11/1/93	1906	4/30/94	890
3	3697	NORTH POUDRE #2/DEMME LAKE	N FK POUDRE RIVER	1940	11/1/93	3416	3/31/94	2401
3	3702	NORTH POUDRE #3/HACKEL LAKE	N FK POUDRE RIVER	1144	9/30/94	2593	7/31/94	1377
3	3704	NORTH POUDRE #4	N FK POUDRE RIVER	479	11/1/93	701	6/30/94	622
3	3698	NORTH POUDRE #5/BEE LAKE	N FK POUDRE RIVER	1960	8/31/94	3776	4/30/94	2609
3	3716	NORTH POUDRE #15	N FK POUDRE RIVER	1061	9/30/94	5517	5/31/94	1265
3	3715	PARK CREEK	PARK CREEK	990	9/30/94	7117	5/31/94	2231
3	3730	COBB LAKE	CACHE LA POUDRE RIVER	7120	9/30/94	13680	11/1/93	7120
3	3713	SEAMAN/MILTON SEAMAN	N FK POUDRE RIVER	2987	5/31/94	4187	6/30/94	3467
3	3780	CLAYMORE	CACHE LA POUDRE RIVER	354	9/30/94	874	5/31/94	442
3	3772	SEELEY	CACHE LA POUDRE RIVER	976	8/31/94	1155	10/31/94	1155
3	3804	WARREN	CACHE LA POUDRE RIVER	955	9/30/94	1888	6/30/94	1622
3	3786	WOOD	ROLLARD DRAW	1474	7/31/94	2570	1/31/94	1754
3	3678	JOE WRIGHT/CAMERON	CACHE LA POUDRE RIVER	1186	10/31/94	7161	6/30/94	1186
3	3952	RAWHIDE	CACHE LA POUDRE RIVER	12299	10/31/94	13752	5/31/94	12299
3	3732	HORSETOOTH	DIXON CANYON CREEK	69247	10/31/94	139327	3/31/94	69247
3	3725	DOUGLASS	CACHE LA POUDRE RIVER	4107	10/31/94	6298	2/28/94	4107
3	3770	WINDSOR RESERVOIR #8	CACHE LA POUDRE RIVER	0	10/31/94	1122	4/30/94	0
3	3728	NO. 8 ANNEX	CACHE LA POUDRE RIVER	1198	3/31/94	2187	6/30/94	1228
3	3738	WINDSOR RESERVOIR	CACHE LA POUDRE RIVER	6431	9/30/94	15882	5/31/94	6851
3	3679	CHAMBERS	JOE WRIGHT CREEK	0	9/30/94	8047	6/30/94	1550
3	3676	LONG DRAW/GRAND RIVER	LONG DRAW CREEK	662	9/30/94	10519	5/31/94	832
3		SUBTOTALS		117851		269391		129187

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3 (CONTINUED)

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)			
				MINIMUM		MAXIMUM	
				AF	DATE	AF	DATE
		BALANCE FROM PREVIOUS PAGE		117851		269391	
3	3744	BLACK HOLLOW	CACHE LA POUDRE RIVER	0	9/30/94	4673	5/31/94
3	3735	CURTIS	CACHE LA POUDRE RIVER	389	6/30/94	790	11/1/93
3	3740	KLUVER	CACHE LA POUDRE RIVER	656	9/30/94	793	11/1/93
3	3742	LONG POND/WATER SUPPLY #5,6,7	CACHE LA POUDRE RIVER	2093	9/30/94	2969	3/31/94
3	3736	ROCKY RIDGE/WATER SUPPLY #1	CACHE LA POUDRE RIVER	2733	1/31/94	3523	5/31/94
3	3737	WATER SUPPLY #3	LONG POND RESERVOIR	2584	7/31/94	4573	5/31/94
3	3739	WATER SUPPLY #4	LONG POND RESERVOIR	355	11/30/93	704	6/30/94
3	3805	TERRY/LARIMER WELD	CACHE LA POUDRE RIVER	1803	9/30/94	7928	5/31/94
3	3726	WORSTER	SHEEP CREEK	0	8/31/94	3683	5/31/94
3	3775	TIMNATH	DUCK SLOUGH	759	9/30/94	10070	3/31/94
3	3770	WINDSOR LAKE	CACHE LA POUDRE RIVER	0	10/31/94	1122	4/30/94
3	3683	BARNES	BARNES MEADOWS CREEK	1008	2/28/94	2447	7/31/94
3		OTHERS		8560.7		16393.8	
3		TOTALS		138791.7		329059.8	
							155579.3

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	224	10/31/94	3029	5/31/94	224	
4	4110	BOYD LAKE	BIG THOMPSON	14580	10/31/94	36794	6/30/94	14580	
4	4513	CARTER	BIG THOMPSON	43339	8/31/94	110461	3/31/94	68401	
4	4116	DONATH	BIG THOMPSON	211	3/31/94	1153	5/31/94	652	
4	4166	HERTHA RESERVOIR	DRY CREEK HERTHA	668	9/30/94	1703	3/31/94	744	
4	4123	HORSETOOTH RESERVOIR	BIG THOMPSON	1680	2/28/94	8182	6/30/94	2883	
4	4487	LAKE LOVELAND	BIG THOMPSON	8858	8/31/94	12249	6/30/94	9724	
4	4136	LON HAGLER	BIG THOMPSON	559	7/31/94	2851	9/30/94	2807	
4	4137	LONE TREE	BIG THOMPSON	3351	8/31/94	8869	4/30/94	3530	
4	4133	LOVELAND LAKE	BIG THOMPSON	629	8/31/94	1459	4/30/94	638	
4	4134	BOEDECKER LAKE/MARINO	BIG THOMPSON	593	8/31/94	5338	5/31/94	3071	
4	4146	WELCH LAKE	BIG THOMPSON	3189	7/31/94	5281	11/30/93	3755	
4		OTHERS		1275		2636		1419	
4		TOTALS		79156		200005		112428	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 5

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)				END OF YEAR
				MINIMUM		MAXIMUM		
				AF	DATE	AF	DATE	
5	4020	BEAVER POND	BEAVER CREEK	497	10/31/94	2161	5/31/94	551
5	4071	FOOTHILLS	ST. VRAIN	968	10/31/94	3589	5/31/94	968
5	4037	HIGHLAND #1	ST. VRAIN	413	7/31/94	968	5/31/94	505.8
5	4032	HIGHLAND #2	ST. VRAIN	2001	8/31/94	3712	5/31/94	2224.4
5	4038	HIGHLAND #3	ST. VRAIN	566.4	7/31/94	1652	5/31/94	814
5	4073	MCINTOSH	ST. VRAIN	988	10/31/94	2459.8	4/30/94	988
5	4063	PLEASANT VALLEY	ST. VRAIN	1124.7	9/30/94	3043	4/30/94	1899
5	4067	OLIGARCHY RESERVOIR #1	ST. VRAIN	1025	9/30/94	1718	4/30/94	1025
5	3905	UNION	ST. VRAIN	4018	9/30/94	12768	4/30/94	4018
5	4076	LEFT HAND PARK	LEFT HAND CREEK	1093.8	8/31/94	1548.7	4/30/94	1093.8
5	4488	LEFT HAND VALLEY	LEFT HAND CREEK	460.5	10/31/94	1626	11/30/93	460.5
5	4010	BUTTON ROCK	ST. VRAIN	12327.3	4/30/94	16197.2	6/30/94	15801
5	4379	NEW THOMAS	ST. VRAIN	1701.6	9/30/94	2263.9	1/31/94	1701.6
5	4081	LAGERMANN	LEFT HAND CREEK	876.7	9/30/94	977.5	12/31/93	876.7
5		TOTALS		28061		54684.1		32926.8

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 6

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				MINIMUM		MAXIMUM		END OF YEAR	
				AF	DATE	AF	DATE		
6	4269	ALBION	ALBION CREEK	590	4/30/94	1111	11/30/93	1111	
6	4172	BARKER	BOULDER CREEK	4311	7/31/94	9653	8/31/94	6644	
6	4173	BASELINE	BOULDER CREEK	1378	10/31/94	5146	6/30/94	1378	
6	4515	BOULDER	BOULDER CREEK	7033	11/30/93	10134	6/30/94	7522	
6	4489	GOOSE	NORTH BOULDER CREEK	300	4/30/94	1036	11/30/93	900	
6	4199	GROSS	SOUTH BOULDER CREEK	22214	10/31/94	41518	6/30/94	22214	
6	4178	HILLCREST	BOULDER CREEK	1725	10/31/94	1953	5/31/94	1725	
6	4180	LEGGETT	BOULDER CREEK	1250	10/31/94	1415	5/31/94	1250	
6	4212	MARSHALL	SOUTH BOULDER CREEK	3474	10/31/94	9655	6/30/94	3474	
6	4185	PANAMA	BOULDER CREEK	2300	8/31/94	3700	11/30/93	2300	
6	4238	SILVER	NORTH BOULDER CREEK	793	4/30/94	3996	7/31/94	3996	
6	4187	SIX MILE	BOULDER CREEK	300	10/31/94	1200	4/30/94	300	
6	4230	VALMONT	SOUTH BOULDER CREEK	6627	11/30/93	7426	5/31/94	6685	
6		TOTALS		52295		97943		59499	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 7

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)					
				MINIMUM		MAXIMUM		END OF YEAR	
				AF	DATE	AF	DATE		
7	3324	RALSTON	RALSTON CREEK	6030	4/30/94	10018	6/30/94		7903
7	4459	TUCKER	RALSTON CREEK	0	1/31/94	531	6/30/94		121
7	3406	COORS B #3	CLEAR CREEK	1976	5/31/94	2453	1/31/94		2370
7	3407	COORS B #4	CLEAR CREEK	3600	10/31/94	4000	11/30/93		3600
7	3308	BLUNN	CLEAR CREEK	3749	10/31/94	5462	6/30/94		3749
7	3702	FAIRMOUNT	CLEAR CREEK	252	5/31/94	966	11/30/93		866
7	4242	GREAT WESTERN	CLEAR CREEK	1031	4/30/94	2720	6/30/94		1768
7	4411	MAPLE GROVE	SOUTH CLEAR CREEK	885	1/31/94	1124	10/31/94		1124
7				1190		1560			1316
7		TOTALS		18713		28834			22817

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	20426	12/1/93	26948	4/1/94	21602	
8	3532	CHERRY CREEK	CHERRY CREEK	11773	10/1/94	13329	4/1/94	11773	
8	3832	MCLELLAN	DAD CLARK DITCH	3851	9/1/94	5866	3/1/94	4265	
8		TOTAL		36050		46143		37640	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 9

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						END OF YEAR
				MINIMUM		MAXIMUM				
				AF	DATE	AF	DATE			
9	4315	SODA #1, #2	BEAR CREEK	1017	9/30/94	1621	4/30/94		1257	
9	4281	BOWLES	BEAR CREEK	1361	9/30/94	2062	4/30/94		1361	
9	4314	PATRICK	BEAR CREEK	1017	6/30/94	1161	1/31/94		1059	
9	3999	BEAR CREEK RESERVOIR	BEAR CREEK	1981	7/31/94	2068	5/31/94		1989	
9	4310	MARSTON	SOUTH PLATTE	12053	3/31/94	16994	8/31/94		16135	
9		OTHERS		3683.3		4820.4			3722.3	
9		TOTALS		21112.3		28726.4			25523.3	

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	19819	11/30/93	20059	7/31/94	20015	
23	3962	MONTGOMERY	MID FK SOUTH PLATTE	572	4/30/94	4870	10/31/94	4870	
23	3965	ELEVEN MILE	MID FK SOUTH PLATTE	99280	2/28/94	101073	6/30/94	99349	
23	4013	SPINNEY MOUNTAIN	MID FK SOUTH PLATTE	31940	4/30/94	48844	6/30/94	36883	
23		TOTALS		151611		174846		161117	

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	8051	10/31/94	25643	3/31/94	8051	
64	3551	NORTH STERLING	SOUTH PLATTE	3210	9/30/94	70883	3/31/94	16117	
64	3906	JULESBURG	SOUTH PLATTE	426	8/31/94	22230	3/31/94	10905	
64		TOTALS		11687		118756		35073	

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	59055	10/31/94	78315	7/31/94		59055	
80	3829	WELLINGTON	N FK SOUTH PLATTE	2355	11/30/93	3910	7/31/94		2427	
80		OTHERS		20	11/30/93	545	6/30/94		90	
80		TOTAL		61430		82770			61572	

WATER DIVERSION SUMMARIES

WD	DITCHES REPORTING			OTHERS		ESTIMATED NUMBER OF DITCH VISITS	TOTAL DIVERSIONS (AF)	TOTAL DIVERSIONS TO STORAGE	TO IRRIGATION		
	WITH RECORD (1)	NO WATER AVAIL. (2)	NO WATER TAKEN (3)	NO INFO AVAIL. (4)	NO RECORDS				TOTAL DIVERSIONS (AF)	NO. OF ACRES IRRIGATED	AVG AF PER ACRE
1	174	30	19	87	4851	1548	578855	271486	283746	1198225	1.43
2	164	04	47	6	4304	1017	472626	55627	411241	15704	2.7
3	169	0	12	26	2654	1716	555875	203542	464190	273416	1.7
4	74	14	33	9	1178	1350	190140	332071	127168	83354	1.53
5	96	1	19	14	1197	2412	192445	22729	108777	53370	2
6	151	2	17	59	1659	5060	280192	73084	98611	100331	.98
7	88	2	5	24	1406	1096	182619	28776	45612	51250	.89
8	323	28	105	44	4880	1439	424716	90529	53258	9780	5.4
9	59	0	3	17	1444	396	12007	2206	6985	2000	3.49
23	207	38	114	4	1197	619	102299	58533	13538	9457	1.43
48	56	0	29	0	70	2111	17803	0	17803	4205	4.23
49	4	0	17	0	41	2205	3395	0	3395	1555	2.14
64	119	2	16	15	1723	2625	325330	30085	302827	136994	2.2
65	14	0	15	0	84	0	11907	315	9956	4720	2.11
76	1	0	1	0	9	0	941	0	946	350	2.69
80	136	21	23	8	856	0	59845	54066	5083	1914	2.65
TOT	1835	142	475	313	27553	23594	3410995	1223049	1953136	1946625	37.57

DISTRICT 9 DITCH VISITS COMBINED WITH DISTRICT 80

DISTRICT 48 DITCH VISITS COMBINED WITH DISTRICT 76

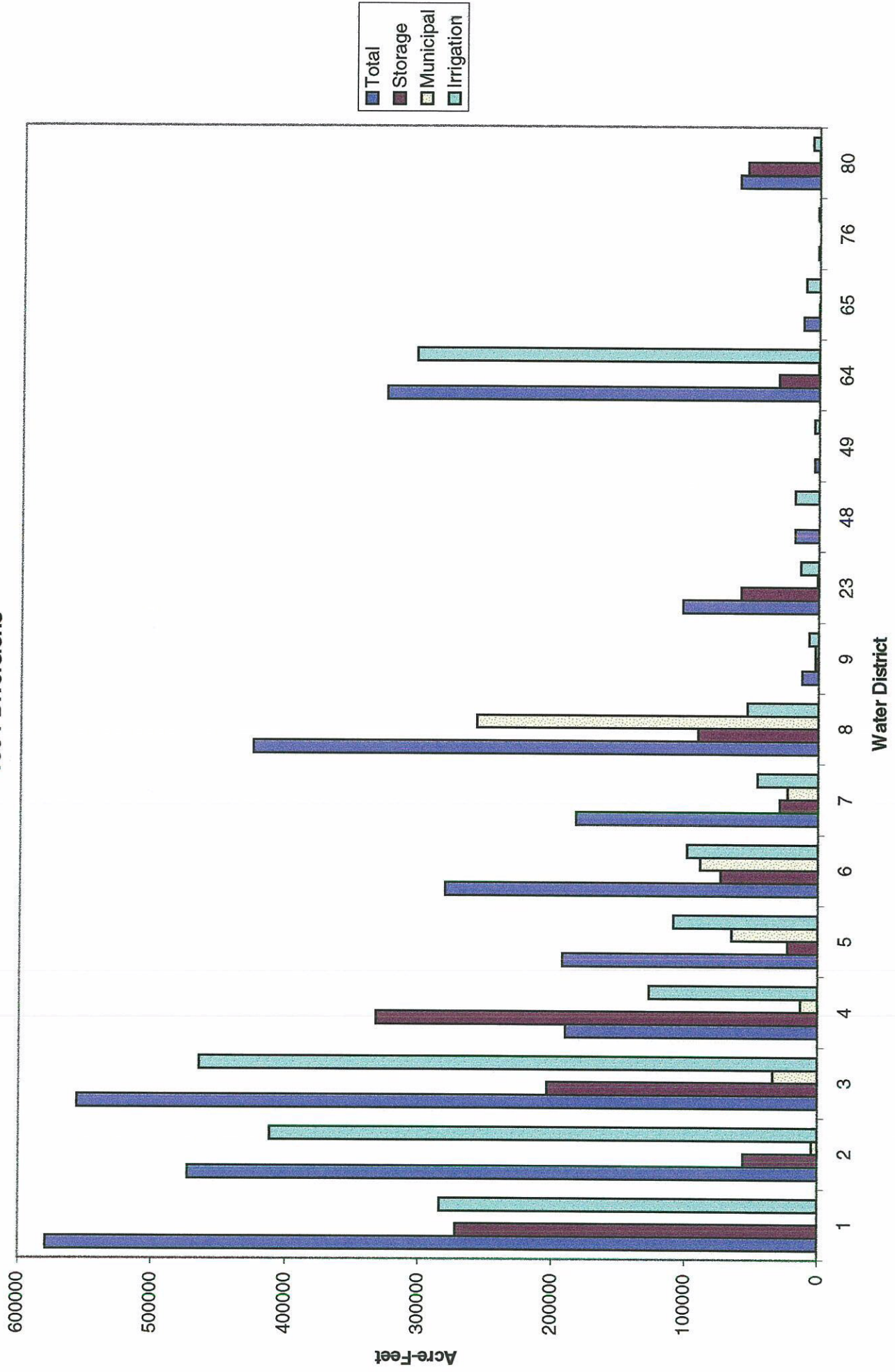
DISTRICT 49 DITCH VISITS COMBINED WITH DISTRICT 65

WATER DIVERSION SUMMARIES TO VARIOUS USE

WD	TRANS-MOUNTAIN OUTFLOW	TRANS-BASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
1	0	0	0	40	7669	0	0	0	82
2	0	0	4300	10035	1110	0	0	0	9
3	0	0	33355	0	1446	0	0	99	0
4	0	0	12918	0	0	0	0	0	0
5	0	0	64642	52	0	0	0	24	0
6	0	0	88718	1	687	0	0	0	0
7	0	0	22829	3	49786	0	0	0	0
8	0	0	256308	702	6643	0	5972	10514	4
9	0	0	2289	206	35	0	0	0	0
23	0	0	1085	0	21	3620	48	0	71
48	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0
64	0	0	571	1120	0	0	0	0	17
65	0	0	0	0	0	0	1636	0	0
76	0	0	0	0	0	0	0	0	0
80	0	0	318	0	0	0	0	213	0
TO	0	0	487333	12159	67397	3620	7656	10850	183

WD	AUGMENTATION	EVAPORATION	GEO THERMAL	SNOWMAKING	MINIMUM STREAMFLOW	POWER GENERATION	WILDLIFE	RECHARGE	OTHER
1	25182	0	0	0	0	0	0	57144	0
2	8169	0	0	0	0	0	0	5895	0
3	3618	332	0	0	0	0	0	0	0
4	7573	0	0	0	0	113150	0	0	0
5	10994	0	0	0	603	0	0	0	0
6	47	0	0	0	3974	5369	0	0	0
7	19971	0	0	91	0	0	0	0	0
8	5653	3239	0	0	0	0	0	0	0
9	885	0	0	0	0	0	0	0	0
23	4533	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	8188	0	0	0	0	0	0	5958	0
65	9	0	0	0	0	0	0	0	0
76	0	0	0	0	0	0	0	0	0
80	220	0	0	0	0	0	0	0	0
TO	95042	3571	0	91	4577	118519	0	68997	0

DIVISION 1 **1994 Diversions**



WATER COURT ACTIVITIES
Calendar Year 1994

Applications made to water court this year.....	299
Consultations with Referee this year.....	324
Decrees Issued by Court this year.....	147
Dismissals.....	12
Complaints.....	1

TYPES OF RULINGS

TYPE OF RULING	NUMBER OF CASES	NUMBER OF STRUCTURES
Findings of Diligence on Conditional Rights	16	32
Cancellations of Conditional Rights	13	19
Conditional Rights Made Absolute	7	13
Surface Water Rights Adjudicated	20	104
Underground Water Rights Adjudicated	51	374
Water Storage Rights Adjudicated	24	39
Plans for Augmentation Adjudicated	15	298
Changes of Water Rights Adjudicated	32	186
Instream Flow Rights Adjudicated	0	0

CALLING PRIORITY

Date Call Initiated 1993-1994	Date Call Released 1993-1994	Structure Name	Appropriation Date	Administration Number	District	Person Placing Call	Districts Affected
11/4/1993	11/24/1993	Barr Lake Burlington	11/20/1885	14423.0000	2	Kent Timmerman	8,9,80,23,Denver
11/24/1993	12/1/1993	Barr Lake Enlargement	1/13/1909	21562.0000	2	Ken Timmerman	8
11/24/1993	12/1/1993	Denver Intake	5/1/1899		8	Denver, Bob Stahl	8,9,80
11/24/1993	3/7/1994	Cheesman	6/27/1889		8	Denver, Bob Stahl	2,3
12/1/1993	1/7/1994	Horse Creek	3/17/1911	22355.000	2	Ken Timmerman	8
12/1/1993	4/8/1994	Denver Intake	12/6/1910	22254.0000	8	Denver	8,9,80
1/7/1994	2/22/1994	Chatfield	12/28/1977	16748.0000	8	Denver	8,9,80
3/7/1994	4/1/1994	Cheesman	9/24/1893	15973.0000	8	Denver	23
4/1/1994	4/15/1994	Cheesman	6/27/1889		8	Denver	23
4/8/1994	4/10/1994	Burlington	1/31/1909	21562.0000	2	Ken Timmerman	8,9
4/8/1994	4/10/1994	Denver Intake	5/1/1899	18018.0000	8	Denver	8,80
4/10/1994	4/13/1994	Denver Intake	12/6/1910	22254.0000	8	Denver	8,80
4/13/1994	4/15/1994	Burlington Direct	1/13/1909	21562.0000	8	Ken Timmerman	8,9,Denver
4/13/1994	4/15/1994	Denver Intake	5/1/1899	18018.0000	8	Denver	8,80
4/15/1994	4/19/1994	Cheesman Bypass to Burlington	6/27/1889	14423.0000	8	Denver	2,8,9,80,23
4/18/1994	4/25/1994	North Sterling Direct	5/17/1914	26302.23522	1	Mae Cunnning	2,3,4,5,6,7,Monfort
4/19/1994	4/25/1994	Bypass Burlington Direct	11/20/1885	14423.0000	2	Bob Stahl	2,7,8,9,80,23,Denver
4/25/1994	4/26/1994	Snyder	1/17/1902	19009.0000	1	Mae Cunnning	2,3,4,5,6,
4/25/1994	4/27/1994	Denver Intake	5/1/1899		8	Denver	8,9,80
4/25/1994	5/2/1994	Cheesman	6/27/1889		8	Denver	23
4/26/1994	4/29/1994	North Sterling Direct	5/27/1914	26302.23522	1	Mae Cunnning	2,3,4,5,6,7,Denver
4/27/1994	5/2/1994	Denver Intake	12/6/1910	22254.0000	8	Denver	8,9,80
4/29/1994	4/29/1994	North Sterling Storage	8/1/1915	23953.0000	1	Mae Cunnning	2,3,4,5,6,7,Denver
4/29/1994	5/5/1994	District Reservoir 1	12/31/1929	31423.29219	1	Mae Cunnning	2,3,4,5,6,7,Denver
5/2/1994	5/3/1994	Cheesman Bypass to Burlington	6/27/1889	14223.0000	8	Denver Water Board	2,8,9,80
5/3/1994	5/6/1994	Denver Intake Bypass to District 2	12/6/1910	22254.0000	8	Denver	2,8,9,80,7

Date Call Initiated 1993-1994	Date Call Released 1993-1994	Structure Name	Appropriation Date	Administration Number	District	Person Placing Call	Districts Affected
5/5/1994	5/9/1994	North Sterling Storage	8/1/1915	23953.0000	1	Mae Cunning	2,3,4,5,6,7
5/6/1994	5/10/1994	Burlington Bypass	11/20/1885	14423.0000	2	Ken Timmerman	2,8,9,80,2,3,7
5/9/1994	5/12/1994	Lower Platte & Beaver	4/15/1888	13985.0000	1	Mae Cunning	2,3,4,5,6,7,8,9,80,23,
5/12/1994	5/14/1994	Farmers	7/11/1895	16628.0000	64	J.T. Hanrahan	1,2,3,4,5,6,7,8,Central
5/12/1994	5/14/1994	Denver Intake	9/1/1892		8	Denver	8,9,80
5/12/1994	5/19/1994	Cheesman	6/27/1889	14223.0000	8	Denver	23
5/14/1994	5/16/1994	Riverside Direct	5/31/1907	20969.0000	1	John Anderson	2,3,4,5,6,7,8,9
5/14/1994	5/16/1994	Denver Intake	5/1/1899		8	Denver	8,9,23,80
5/16/1994	5/27/1994	Farmers	7/11/1895	16628.0000	64	J.T. Hanrahan	1,2,3,4,5,6,7,8,9,80
5/16/1994	5/18/1994	Denver Intake	9/1/1892		8	Denver	8,9,23,80
5/19/1994	5/20/1994	Cheesman Bypass to Branthner	6/27/1889	14223.0000	8	Denver	2,8,9,80,23,7,Central
5/20/1994	5/26/1994	Burlington Bypass to Branthner	11/20/1885	14423.0000	2	Bob Stahl	2,8,9,80,23,7,Central
5/26/1994		Cheesman	6/27/1889		8	Denver	23,80
5/27/1994	5/31/1994	North Sterling Direct	5/27/1914	26302.23522	2	Mae Cunning	2,3,4,5,6,7,9,Denver,8
5/28/1994	5/28/1994	Burlington Bypass to Branthner	1/13/1909	21562.0000	2	Bob Stahl	2,7,8,9,80,Denver
5/28/1994	6/2/1994	Cheesman Bypass to Burlington	6/27/1889	14223.0000	8	Denver	2,8,9,80,Denver
5/31/1994	6/2/1994	Riverside Direct	5/31/1907	20969.0000	1	Mae Cunning	2,3,4,5,6,7,Central
6/2/1994	6/6/1994	District 1 Reservoir	12/31/1929	31423.29219	1	Mae Cunning	1,2,3,4,5,6,7,8,9,80,
6/21/1994	6/3/1994	Barr Lake Refill	1/13/1909	21562.0000	2	Bob Stahl	2,8,9,80
6/2/1994	6/6/1994	Cheesman	6/27/1889	14423.0000	8	Denver	80,23
6/3/1994	6/4/1994	Marston	4/1/1911	22370.0000	8	Denver	8,80
6/4/1994	6/6/1994	Denver Intake Bypass to Burlington	12/6/1910	22254.0000	8	Denver	2,8,9,80
6/6/1994	6/6/1994	Cheesman	9/24/1893	15973.0000	8	Denver	80,23
6/6/1994	6/8/1994	Croke Bypass to Branthner	3/4/1902	19055.0000	2	Bob Stahl	2,7,Denver
6/6/1994	6/8/1994	North Sterling Storage	8/1/1915	23953.0000	1	J.T. Hanrahan	2,3,4,5,6,Central
6/6/1994	6/8/1994	Cheesman Bypass to Burlington	9/24/1893	15973.0000	8	Denver	2,8,9,80

Date Call Initiated 1993-1994	Date Call Released 1993-1994	Structure Name	Appropriation Date	Administration Number	District	Person Placing Call	Districts Affected
6/8/1994	6/10/1994	Bijou	10/7/1888	14154.0000	1	Mae Cuning	2,3,4,5,6,7,8,9,80,23,
6/10/1994	6/14/1994	Upper & Lower Platte & Beaver	4/15/1888	13985.0000	1	Mae Cuning	2,3,4,5,6, Central
6/10/1994	6/11/1994	Burlington Bypass to Meadow #1	11/20/1885	21562.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
6/11/1994	6/16/1994	Farmers Independent	11/20/1876	9821.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
6/14/1994	6/16/1994	Springdale	7/19/1886	13347.0000	64	J.T. Hanrahan	1,2,3,4,5,6,Cent
6/16/1994	6/21/1994	Fulton	7/8/1876	9606.0000	2	Bob Stahl	2,7,8,9,23,80,Cen,Den
6/16/1994	6/21/1994	Iliff & Platte Valley	10/1/1883	12327.0000	64	J.T. Hanrahan	1,2,3,4,5,6,Cent off
6/17/1994	6/21/1994	Ft. Morgan	10/18/1882	11979.0000	1	Mae Cuning	2,3,4,5,6,Cent
6/21/1994	6/22/1994	Burlington Bypass to District 2	11/20/1885	21562.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
6/21/1994	6/25/1994	Bijou	11/1/1888	14154.0000	1	Mae Cuning	2,3,4,5,6,7,8,9,80,23
6/24/1994	6/25/1994	Burlington Bypass to Dist 2	11/20/1885	21562.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
6/25/1994	6/27/1994	Upper & Lower Platte & Beaver	4/15/1888	13985.0000	1	Mae Cuning	2,3,4,5,6,Den,Cen
6/25/1994	6/27/1994	Fulton	7/8/1876	9606.0000	2	Bob Stahl	7,8,9,80,23,Den,Cent
6/27/1994	7/1/1994	Ft. Morgan	10/18/1882	11979.0000	1	Mae Cuning	2,3,4,5,6,Cent
6/27/1994	6/28/1994	Platteville	10/15/1873	8689.0000	2	Bob Stahl	7,8,9,80,23,Den,Cen
6/28/1994	6/28/1994	FHL Bypass to Evans #2	4/1/1872	8127.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
6/28/1994	7/10/1994	Evans #2	10/5/1872	7948.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
7/1/1994	7/14/1994	Pawnee	6/22/1882	11861.0000	64	J.T. Hanrahan	1,2,3,4,5,6,Cent
7/10/1994	7/28/1994	Western	8/10/1871	7892.0000	2	Bob Stahl	2,7,8,9,80,23,Den,Cen
7/14/1994	8/12/1994	Lower Platte & Beaver	9/4/1880	11935.0000	1	Mae Cuning	1,2,3,4,5,6,7,8,9,80,23
7/28/1994	7/31/1994	Platteville	1/1/1871	7691.0000	2	Bob Stahl	7,8,9,80,23,Den,Cen
7/31/1994	8/3/1994	Western	5/5/1866	5969.0000	2	Bob Stahl	7,8,9,80,23,Den,Cen
8/3/1994	8/4/1994	Western	8/10/1871	7892.0000	2	Bob Stahl	7,8,9,80,23,Den,Cen
8/4/1994	8/7/1994	Evans #2	10/5/1871	7948.0000	2	Bob Stahl	7,8,9,80,23,Den,Cen
8/7/1994	8/11/1994	Western	8/10/1871	7892.0000	2	Bob Stahl	7,8,9,80,23,Den,Cen
8/12/1994		Bijou	10/1/1888	14154.0000	1	Mae Cuning	2,3,4,5,6,7,Cen
8/12/1994		Fulton	7/8/1876	9606.0000	2	Bob Stahl	8,9,80,23,Den,Cen

OFFICE ADMINISTRATION AND WORKLOAD MEASURES

Staffing

Dam Safety Engineers	4
Water Resource Engineers	7
Engineering/Physical Science Techs (Includes 4 Hydrographers)	5
Administrative Assistants	2
Full-Time Water Commissioners	13
Permanent Part-Time Water Commissioners	8
Temporary Water Commissioners	<u>2</u>
TOTAL STAFF	41

Statistics

Decreed Surface Rights	11,989
Number of Well Permits	113,507
Number of Plans for Augmentation	473
Number of Dams	787
Number of Active Substitute Supply Plans	114
Number of Contacts to give Public Assistance	25,000+