

ANNUAL REPORT

DIVISION NO. 1

1992 IRRIGATION

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WATER ADMINISTRATION

Current Water Year

Accomplishments

Water Administration

As in past years the normal activity of daily administration of ditches, reservoirs, wells, exchanges, and plans for augmentation consumes the majority of division efforts. Those administrative activities involve about 8,500 direct flow rights, 3,150 storage rights, 430 decreed plans for augmentation, 63 substitute supply plans, and 950 gravel pits. Since the start of activities surrounding the 1990 abandonment list, 123 water rights were put on the list, 9 rights were protested and currently there are 5 rights that remain under protest and are the subjects of related filings for changes of water right.

A longstanding agreement between Colorado and Wyoming involving the waters of Sand Creek, a tributary to the Laramie River, was reviewed by representatives of both states. The preliminary recommendation is to amend the agreement to reflect contemporary operations. The issues are such that the states should be able to agree on the revision and apportion waters accordingly. The water in the stream has been divided between the states without litigation or a compact since the 1930's.

Dam Safety

Four dam safety engineers moved from the Denver office to the office in Greeley. The engineers inspected 455 dams, updated the National Inventory of Dams data base, and reviewed the design plans for 9 structures. Inspections of small outlets are now easier to accomplish with the development of a device which includes a camera mounted on a sliding frame (SLED) which can be advanced along the inside of the outlet with specially designed pipe lengths. Finally, a very successful program designed to bring the dam owners together to develop emergency preparedness plans (EPPs) for their dams is currently being completed. The dam owners, the local emergency managers, the dam safety engineers, and the water commissioners for the particular geographical areas meet face to face to discuss and familiarize themselves with the plans.

Hydrography

The hydrographers measured and kept record for 94 gaging stations within division one. Of these stations, 28 are record stations for which a completed record is turned into the United States Geological Survey (USGS) and 48 other stations are ones which have a formal record kept by Division of Water Resources (DWR). Additionally, numerous measurements were made to verify flow-stage relationships for flumes and ditches. During the past year the gaging station at the lower end of Clear Creek was moved downstream and the control was renovated. The \$3,200 cooperative effort included DWR and the Clear Creek Water Users Association. A new 8200 Data Collection Platform (DCP) was installed on the Highland Ditch on St. Vrain Creek. The ditch is subject to frequent adjustments since it is often the swing ditch in that reach of river. In addition to providing the regular readings to the central system, the new installation allows the ditch company to get continuous readings and be alerted by alarm when the stage changes significantly. Efforts to install a new gaging station on the Middle Fork of St. Vrain Creek are being made in conjunction with St. Vrain/Left Hand Water Conservancy district and the US Forest Service. Finally, hydrographic functions such as meter note and rating curve computation have been computerized.

Groundwater

Apart from normal well inspection and permitting efforts, the most significant accomplishment related to groundwater was bringing wells on the lower end of the South Platte River below Lodgepole Creek into compliance with rules and regulations for groundwater pumping. The creation of the Lower South Platte recharge demonstration project provided the wells with an augmentation source to bring those wells into compliance with rules and regulations. In addition, with the assistance of the Denver staff, water commissioners were trained about well permitting policies and procedures.

Water Records and Information

With the introduction of QINFO, the utility of the DWR data bases has been greatly enhanced. The program produces very informative reports that include water rights, diversion, and owner information in one report. Also, the program allows historic records to be looked over and scrutinized for accuracy, resulting in an improvement in the data base. Structure ID's for wells were merged with permit numbers for cross referencing to assure accurate reporting.

Special Projects

Special projects were a major part of the division's work effort over the past year. The artificial recharge project at Julesburg progressed significantly. The structural components of the project are completed and running smoothly. Water quality measurements continue to be made quarterly, and the associated plan for augmentation is well along the way. A pilot program designed to evaluate the accuracy of various methods of measuring groundwater pumping from wells was initiated. The network of wells has been identified, owners contacted, and background data collected. A training session covering well efficiency testing and monitoring is scheduled for spring. Cooperating agencies are Ground Water Appropriators of the South Platte (GASP), Central Colorado Water Conservancy District (CCWCD), and Lower South Platte Water Conservancy District (LSPWCD). The data collection phase of the program will also begin this spring. A small lysimeter-lawn grass return flow study conducted at Colorado State University is being monitored by one of the staff engineers. Last May twenty four small lysimeters had been installed along with one large lysimeter and data was collected and analyzed. The data collection program will continue this year.

Division personnel have been involved in the South Platte Management Support System that is being developed for the upper South Platte River basin in conjunction with Aurora, Denver, Thornton, Boulder, Englewood, Centennial, Colorado Water Resources Research Institute (CWRRI), and Center for Advanced Decision Support for Water and Environmental Systems (CADSWES). The goal of the plan is to develop management tools that increase the efficiency of water distribution and to enhance information transfer and user participation. Four phases have been completed to produce a prototype model, and we are currently becoming familiar with the software. Future phases include system enhancements to allow user interaction, to add analytical features, to add hardware, and to expand the system to downstream areas.

A cooperative study in conjunction with the St. Vrain/Left Hand Water Conservancy District was continued. The goal is to assist that agency in organizing a basin wide augmentation program for wells. Water sources for replacement have been obtained by the district and the plan has begun operating.

Important Water Issues

Trials for the Thornton water transfer case and the U. S. Forest Service case were finished during the year. Decrees are expected at any time.

The Thornton case involves several unique issues such as maintenance of water table levels following the transfer of surface rights, reuse of transbasin waters that had historically not been reused for many years, impacts to waste discharge permits created by reduced flows in the river (reduced dilution potential), quality of water returned to farmers by exchange, water quality of return flows to the river, and indirect use of Colorado-Big Thompson (CBT) water outside the district by exchange.

The US Forest Service case issues center around the need and/or amount of water necessary to preserve the water conveyance channels within the forests in division one, including the question of whether such right is properly a federal reserved right. Priorities claimed were antedated back to correspond to creation of the forest systems under federal acts. This puts federal rights senior in priority to numerous active private water rights and threatens to reduce their reliability. In a case between Denver and Englewood, the supreme court ruled that an entity wanting to exchange water must notify water officials prior to making the exchange to allow them an opportunity to evaluate the conditions surrounding the exchange before allowing the exchange.

Another case before the Supreme Court is that between Public Service Company and the Willows Water District. At issue is the ability to reuse lawn irrigation return flows of nontributary groundwater and whether dominion and control is maintained in the process. The decision on this case potentially impacts numerous other cases that have similar claims.

The Cities of Golden, Thornton, Westminster and Coors began operation of an agreement (whose components have been decreed) to resolve various water quality and supply issues which had been the source of controversy among the entities for some time. The primary controversy was Coors' augmentation of out-of-priority diversions from Clear Creek by releasing its effluent upstream of Standley Lake (a municipal water supply). The agreement, called the Cosmic Agreement by the parties, allows Coors to continue to divert water out-of-priority and provides that Coors will turn its effluent out downstream of the Standley Lake diversion to be stored in Thornton's West Gravel Lakes. To make the Standley Lake right whole, the water stored downstream is then exchanged back to Standley Lake Reservoir for higher quality water during the spring runoff when there is exchange potential on Clear Creek.

The rapid development of the towns of Black Hawk and Central City due to the introduction of gaming has placed a burden on the towns to develop legal water supplies. The river system is highly over-appropriated and water supplies are limited in the area, thus reducing the ability to obtain a supply. The waste water treatment capabilities of the towns are limited and water quality is a problem. Resolution of the conflicts existing in the area will be a major issue this coming year.

At the end of the year the Northern Colorado Water Conservancy District filed for an appropriation that would potentially divert most of the remaining free water from the South Platte River east of Greeley and incorporate it into an extensive project involving groundwater recharge, pumping, and exchange along the front range. The project is very extensive and will be controversial.

The paramount issue that will impact the South Platte River in Colorado is that of recovery of endangered species in Nebraska. Included in the list of species is the whooping crane, piping plover, least tern, and the bald eagle. Any project that will require a new or renewal of a federal permit (i.e., Corp of Engineers (COE) 404 permit, United State Forrest Service (USFS) special use permit, etc.) that involves water will prompt an investigation/opinion regarding endangered species. In some cases, by-pass flows or replacement flows at the state line may be required to accommodate the endangered species, and in other cases mitigation such as purchase of habitat may be required. This scenario will continue until such time as the habitat for the species is recovered. The on-going Platte Management Joint Study involving Colorado, Nebraska, Wyoming, the United States Fish and Wildlife Service (USFWS), and the United States Bureau of Reclamation (USBR) is an attempt to develop a recovery program that will allow the future development of water rights in the state and recover the habitat for the endangered species.

Involvement With Water Users

Division personnel have actively participated in educational programs for students and adults through talks and presentations. Personnel continue to attend many meetings of ditch companies, conservancy districts, and other water organizations. We have worked with recreationists and water users to manage and enhance water flows where legally and physically possible. We have worked closely with the Division of Wildlife to develop and maintain their water rights. Division dam safety engineers worked closely with dam owners in assisting them in the preparation of their emergency preparedness plans.

Unresolved Issues

Some of the items above did not get completely resolved during the past year due to the long term nature of the problems. During the coming year the issues such as gravel pit enforcement and inspection, endangered species recovery plan development, and completion of the revision in the Sand Creek agreement will continue to be addressed. Emergency preparedness plans for dams will be upgraded in certain areas. Increased knowledge of groundwater usage and reservoir operations must be obtained. Ongoing special projects will proceed as scheduled.

Workload Changes/Impacts

The most significant increases in workload in the division are the result of new duties such as gravel pit enforcement, increased numbers of substitute supply plans, additional and more complex decrees, and special projects like Julesburg recharge and the well efficiency pilot program. Also, the engineering staff has been realigned so that each engineer now supervises water commissioners, is responsible for providing engineering support for that commissioner, and is expected to learn the operation of the districts involved.

The budget has remained constant over the past years and continues to be limiting. However, the infusion of groundwater management funds to help offset the expenses of doing field inspections of wells has helped alleviate some of the travel constraints.

The addition of 4 dam safety engineers to the Greeley office has enlarged the functions performed by the office. Replacement of other positions left open by retirement has proven difficult due to the hiring freeze. This impact has been most felt in the upper Platte River districts where we have been unsuccessful in permanently replacing a water commissioner position.

Coming Water Year

Goals and Objectives

The focus of the coming year for division one will concentrate on supporting the combination of departmental, division, and field office goals and objectives through a service oriented program that benefits the public in the area of water. Many of the department's eight goals can be addressed by performing our normal statutory duties in a professional and efficient manner. In addition, the following objectives highlight the year's areas of commitment that are beyond the regular functions performed by the staff.

We plan to continue to commit resources to the South Platte Management Support System being developed in conjunction with the major water users in the South Platte River basin. This effort touches on many of the goals of the Department of Natural Resources like developing Colorado's water, increasing water efficiency, improving administration, enhancing use of the satellite monitoring system, and promoting cooperative front range water initiatives. Also, other special projects will continue to be supported. The well measurement pilot program, the Julesburg recharge project, the St. Vrain/Left Hand augmentation program development, the lysimeter study, and the efforts to upgrade gaging stations will go forward.

In the area of dam safety, the program will continue to be service oriented. Programs such as holding emergency preparedness workshops with dam owners, disaster personnel, and our professional and field staff will improve the safety of the public through better communication and preparation. Use of the SLED to inspect small outlets in dams will help dam owners know more about the condition of their dams. We will work directly with dam owners with the objective of removing 20 dams off the restriction list, and we will inspect all class 1 and 2 dams along with about 20% of the class 3 dams.

We hope to improve administration through standardization of accounting for water rights for complex plans, by automating data transfer between water users and DWR, and by emphasizing engineering support to the water commissioners from the division office.

Because of importance of the satellite monitoring system to our administrative functions, we plan to maintain the system to reduce downtime and enhance its use by water users.

Participation in the Platte River Management Joint Study is important to protect existing water uses in the state as well as to provide a future for development of the unused waters. The objective will be to help facilitate a plan to address the habitat needs of the endangered species that is compatible with water use and law in Colorado.

Cooperation with sister agencies such as the Division of Wildlife and the division of Parks and Recreation will continue to be stressed in the coming year. We will provide assistance where possible in the area of water rights and water use.

In the area of personnel, the opportunities now available through the division's training program will be promoted in order to improve skills of the work staff. A team building session will be held at one of the semi-annual staff meetings. Diversity awareness in the workplace will also be emphasized and improved.

Potentially, the most limiting factor to accomplishing the goals cited above will be workload. With the present freeze in hiring and promotion combined with the ever increasing work demand due to new, complex decrees, substitute supply plans, gravel pits and special projects, the division's ability to keep pace with the workload is diminished. Unforeseen and unpredictable events like floods, dam incidents, droughts, and extended court hearings can take away from the time available to address the other projects. Also any budget reduction that results in loss of personnel will also restrict the ability of the division staff to meet the objectives.

Influential Statutes, Court Decisions and Issues

Water administration is increasingly made complex by new exchanges of water. Because exchanges require knowledge of flows at and in the exchange reach and because exchanges operate on a priority system among themselves, the frequency and importance of administering exchanges is increasing. Monitoring exchanges to ensure they are operated correctly in conjunction with other rights is becoming a significant part of administration.

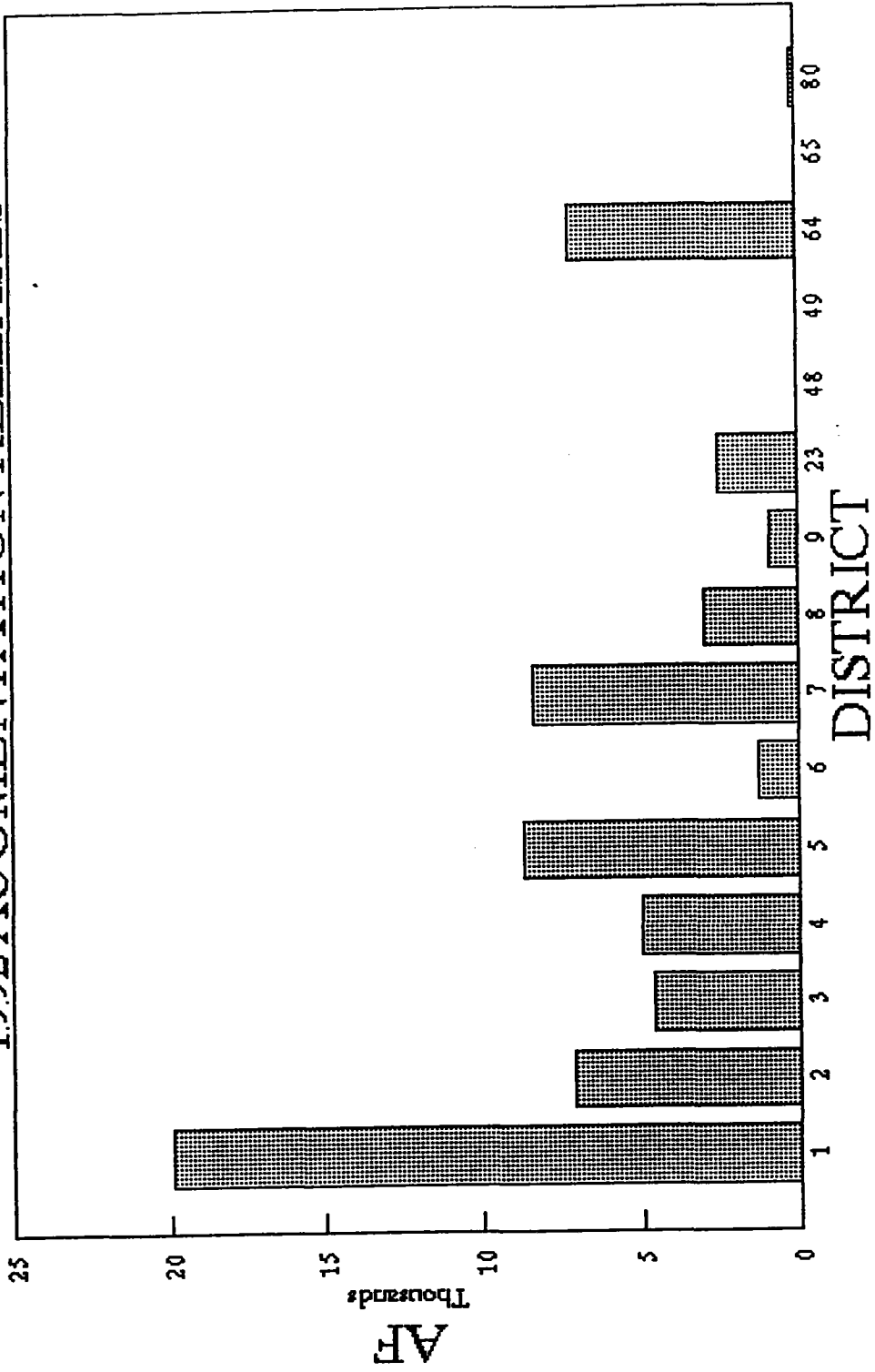
Decisions on certain water court cases may create impacts on water administration in the upcoming year. Of note, the US Forest Service case could cause a change in the pattern of water right administration along the mountains of the front range. The Thornton water transfer case could change administration in the areas of water quality, augmentation requirements, and shepherding water releases down a long reach of stream. If Public Service Company is successful in eliminating the credit from lawn grass return flows returning to the stream from nontributary groundwater, many existing decrees would be subject to reconsideration.

Federal versus state issues may have more influence in the development and use of water in the basin than any other issue. Endangered species, wetlands, environment, 404 permits, and water conservation are all federal issues that many times conflict with Colorado decrees and law. Resolution of these conflicts may consume much of our time in the future in order to allow Colorado to develop its water.

Finally the recent downturn in the economy of the state could affect water administration next year and in years to come. Reductions in staff or in operating funds could further limit our ability to accomplish our duties. A lack of monetary support for the satellite monitoring system could jeopardize a system that we have come to rely heavily upon for administration of water rights. Reduced monies from the Colorado Water Conservation Board construction fund could slow the repair of dams and also retard the completion of the upper South Platte Management Support System.

DIVISION 1

1992 AUGMENTATION RELEASES



TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS

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 Poudre River	1140	34	1840	57	48	4604	Sand & Deachman Cr.			
3	4608	Deachman Ditch	Cache La Poudre River	347	23	991	46	48	4608	Deachman Creek			
3	4606	Bob Creek Ditch	Cache La Poudre River	0	0	0	0	48	4606	Nunn Creek			
3	4607	Columbine Ditch	Cache La Poudre River	0	0	0	0	48	4607	Deachman Creek			
3	4600	Laramie-Poudre Tunnel	Cache La Poudre River	16470	96	18680	89	48	4600	Laramie River			
3	4605	Skyline Ditch	Cache La Poudre River	582	8.9	198	8	48	4605	Laramie River			
3	4602	Cameron Pass Ditch	Cache La Poudre River	83	17	131	41	47	4602	Michigan River			
3	4603	Michigan Ditch	Cache La Poudre River	2020	151	4700	316	47	4603	Michigan River			
3	4601	Grand River Ditch	Cache La Poudre River	19210	123	21360	161	51	4601	Colorado River			
4	911	Eureka Ditch	Big Thompson River	16	26	216	97	51	4602	Colorado River			
4	4634	Adams Tunnel	Big Thompson River	235940	352	198300	362	51	4634	Colorado River			
6	4655	Moffat Tunnel	South Platte River	65795	356	49890	350	51	4655	Fraser River			
7	4625	Berthoud Pass Ditch	Clear Creek	680	97	1010	133	51	4625	Fraser River			
7	4626	Vidler Tunnel	Clear Creek	667	92	1150	128	36	4626	Montezuma Creek			
8	653	Roberts Tunnel	South Platte River	34420	129	85530	274	36	4684	Blue River			
23	4611	Boreas Pass Ditch	South Platte River	8.2	5.2	189	89	36	4685	Indiana Creek			
23	4612	Hoosier Pass Ditch	Arkansas River	9594	144	11650	149	36	4683	Blue River			
23	4490	Aurora Homestake*	South Platte River	12730	137	17720	162	37	4644	Homestake Creek			

*Only have records for nine years.

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 2

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year	
				Minimum		Maximum		Date	Date		
				AF		AF					
2	3837	Oasis Res/Barr	South Platte	13185		8/31/92	4/30/92	31335		4/30/92	14108
2	3851	Bull Canal #8	Clear Creek	1183.1		10/31/92	4/30/92	3073.9		4/30/92	1183.1
2	3890	Coal Ridge	Little Dry Creek	174		7/31/92	5/31/92	696		5/31/92	696
2	3861	Great Western	Walnut Creek	1755		4/30/92	7/31/92	3228		7/31/92	2045
2	3878	Horse Creek	South Platte	7199		10/31/92	4/30/92	15539		4/30/92	7199
2	3902	Lord	South Platte	159		10/31/92	4/30/92	405		4/30/92	159
2	3858	Lower Latham	South Platte	5363		8/31/92	6/30/92	6118		6/30/92	6118
2	3876	Millton	South Platte	13095		8/31/92	4/30/92	21092		4/30/92	15087
2	3877	Prospect	South Platte	53.2		4/30/92	3/31/92	5630		3/31/92	1803
2	3375	Quincy	South Platte	2099		10/31/92	2/29/92	2665		2/29/92	2099
2	3903	Standley	Woman Creek	36229		10/31/92	6/30/92	42619		6/30/92	36229
2		Others		2233.2				3786.8			3291.8
				82727.5				136187.7			90017.9
TOTAL											

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
3	3774	Fossil Creek	Fossil Creek	3830	11/1/91	10711	6/30/92	3434		
3	3712	Hallagan	N Fk Poudre River	465	10/31/92	6428	4/30/92	465		
3	3707	Indian Creek/Mtn Supply	Indian Creek	1211	10/31/92	1906	5/31/92	1211		
3	3697	North Poudre #2/Dennel Lake	N Fk Poudre River	1597	11/1/91	3283	4/30/92	2424		
3	3702	North Poudre #3/Hackel Lake	N Fk Poudre River	1779	11/30/91	3021	6/30/92	2011		
3	3704	North Poudre #4	N Fk Poudre River	474	4/30/92	728	8/31/92	506		
3	3698	North Poudre #5/Bee Lake	N Fk Poudre River	2298	9/30/92	4568	6/30/92	3083		
3	3699	North Poudre #6	N Fk Poudre River	0		0		0		
3	3716	North Poudre #15	N Fk Poudre River	2038	11/30/91	5486	5/31/92	2651		
3	3715	Park Creek	Park Creek	1870	11/1/91	7037	5/31/92	5003		
3	3730	Cobb Lake	Cache La Poudre River	4129	10/31/92	7800	6/30/92	4129		
3	3713	Seaman/Milton Seaman	N Fk Poudre River	2021	9/30/92	3336	6/30/92	2129		
3	3780	Claymore	Cache La Poudre River	291	8/31/92	866	5/31/92	253		
3	3814	Panhandle	Panhandle Creek	841	10/31/92	841	11/30/91	841		
3	3772	Seeley	Cache La Poudre River	1017	9/30/92	1103	5/31/92	1063		
3	3804	Warren	Cache La Poudre River	944	9/30/92	1824	7/31/92	630		
3	3786	Wood	Rollard Draw	2037	11/1/91	2922	5/31/92	2115		
3	3678	Joe Wright/Cameron	Cache La Poudre River	3262	10/31/92	7070	6/30/92	3262		
3	3952	Rawhide	Cache La Poudre River	14445	11/1/91	15502	6/30/92	14634		
3	3732	Horsetooth	Dixon Canyon Creek	90084	11/1/91	141192	6/30/92	107848		

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 3 (CONTINUED)

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)				End of Year
				Minimum		Maximum		
				AF	Date	AF	Date	
3	3725	Douglass	Cache La Poudre River	5.2	11/30/91	12	6/30/92	19.1
3	3770	Windsor Res. #8	Cache La Poudre River	740	11/30/91	1131	5/31/92	996
3	3728	No. 8 Annex	Cache La Poudre River	878	11/1/91	3552	6/30/92	1483
3	3738	Windsor Reservoir	Cache La Poudre River	5516	11/30/91	17418	6/30/92	26.2
3	3679	Chambers	Joe Wright Creek	0	11/1/91	5000	7/31/92	815
3	3676	Long Draw/Grand River	Long Draw Creek	2629	11/1/91	10519	6/30/92	4548
3	3744	Black Hollow	Cache La Poudre River	3663	11/1/91	4716	3/31/92	3700
3	3735	Curtis	Cache La Poudre River	426	6/30/92	524	11/30/91	454
3	3740	Kluver	Cache La Poudre River	396	7/31/92	819	11/1/91	586
3	3742	Long Pond/Water Supply #5,6,7	Cache La Poudre River	2415	11/1/91	2909	10/31/92	2909
3	3736	Rocky Ridge/Water Supply #1	Cache La Poudre River	3087	11/30/91	3544	5/31/92	3223
3	3737	Water Supply #3	Long Pond Reservoir	994	10/31/92	4322	6/30/92	994
3	3739	Water Supply #4	Long Pond Reservoir	467	12/13/91	1232	11/30/91	355
3	3805	Terry/Larimer Weld	Cache La Poudre River	2347	9/30/92	8145	6/30/92	3137
3	3726	Worster	Sheep Creek	0	9/30/92	3750	6/30/92	87
3	3775	Timinath	Duck Slough	3035	11/1/91	10070	4/30/92	4150
3	3770	Windsor Lake	Cache La Poudre River	740	11/1/91	1131	5/31/92	996
3	3683	Barnes	Barnes Meadows Cree	0	5/31/92	2386	10/31/92	2386
3		Others		9125.2		22003		10226.8
TOTAL				171096.4		328607		198783.1

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 4

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
4	4156	Boulder & Larimer/fish	Little Thompson	1755	11/30/91	5635	5/31/92	2634		
4	4110	Boyd Lake	Big Thompson	22689	2/29/92	33498	6/30/92	24030		
4	4513	Carter	Big Thompson	44717	10/31/92	111818	2/29/92	44717		
4	4116	Donath	Big Thompson	362	12/31/91	1124	6/30/92	681		
4	4166	Hertha Reservoir	Dry Creek Hertha	718	10/31/92	1521	11/30/91	718		
4	4123	Horseshoe Reservoir	Big Thompson	2600	10/31/92	7353	6/30/92	2600		
4	4487	Lake Loveland	Big Thompson	3486	10/31/92	10324	4/30/92	3486		
4	4136	Lon Hagler	Big Thompson	1054	8/31/92	3315	10/31/92	3315		
4	4137	Lone Tree	Big Thompson	2729	10/31/92	8869	4/30/92	2729		
4	4133	Loveland Lake	Big Thompson	820	6/30/92	1631	3/31/92	999		
4	4134	Boedlecker Lake/Marino	Big Thompson	1128	9/30/92	5571	5/31/92	2056		
4	4146	Weich Lake	Big Thompson	800	11/30/91	5116	6/30/92	4676		
4		Others		1523		2576		1825		
TOTAL				84361		198361		94466		

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 5

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)					
				Minimum		Maximum		Date	End of Year
				AF	Date	AF	Date		
5	4020	Beaver Pond	Beaver Creek	535.4	10/31/92	2161.6	6/30/92	535.4	
5	4071	Foothills	St. Vrain	951	11/30/91	3186	4/30/92	1068.2	
5	4037	Highland #1	St. Vrain	427.9	8/31/92	978	6/30/92	547	
5	4032	Highland #2	St. Vrain	2301	10/31/92	3660	6/30/92	2301	
5	4038	Highland #3	St. Vrain	566.4	8/31/92	1598	3/31/92	637	
5	4073	McIntosh	St. Vrain	1281.5	11/30/91	2408	6/30/92	1722	
5	4063	Pleasant Valley	St. Vrain	1741	9/30/92	3076	5/31/92	2280	
5	4067	Oligarchy Reservoir #1	St. Vrain	1247	10/31/92	1737	4/30/92	1247	
5	3905	Union	St. Vrain	6686	8/31/92	12768	4/30/92	7072	
5	4076	Left Hand Park	Left Hand Creek	599.5	9/30/92	1548.7	4/30/92	795	
5	4488	Left Hand Valley*	Left Hand Creek						
5	4010	Button Rock	St. Vrain	13666.5	3/31/92	16197.2	6/30/92	15932.5	
5	4379	New Thomas	St. Vrain	2051.4	7/31/92	2335	10/31/92	2335	
5	4081	Lagermann	Left Hand Creek	845.1	10/31/92	1056.6	4/30/92	845.1	
TOTAL				32899.7		52710.1		37317.2	

*NO INFORMATION AVAILABLE 1991-1992

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 6

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year
				Minimum		Maximum		Date	AF	
				AF	Date	AF	Date			
6	4269	Albion	Albion Creek	0	11/30/91	1111	6/30/92	1111	6/30/92	1111
6	4172	Barker	Boulder Creek	3328	3/31/92	10000	6/30/92	10000	6/30/92	6124
6	4173	Baseline	Boulder Creek	2657	11/30/91	5070	7/31/92	5070	7/31/92	3554
6	4515	Boulder	Boulder Creek	6315	9/30/92	12696	5/31/92	12696	5/31/92	6315
6	4489	Goose	North Boulder Creek	518	6/30/92	1036	5/31/92	1036	5/31/92	800
6	4199	Gross	South Boulder Creek	29396	11/30/91	41489	6/30/92	41489	6/30/92	39607
6	4178	Hillcrest	Boulder Creek	1915	11/30/91	2207	3/31/92	2207	3/31/92	1847
6	4180	Leggett	Boulder Creek	1332	10/31/92	1600	3/31/92	1600	3/31/92	1332
6	4212	Marshall	South Boulder Creek	5065	11/30/91	9952	5/31/92	9952	5/31/92	5085
6	4214	McKay	South Boulder Creek	523	8/31/92	1245	4/30/92	1245	4/30/92	523
6	4185	Panama	Boulder Creek	2690	7/31/92	4790	4/30/92	4790	4/30/92	3000
6	4238	Silver	North Boulder Creek	1100	3/31/92	3987	6/30/92	3987	6/30/92	3700
6	4187	Six Mile	Boulder Creek	400	10/31/92	1100	1/31/92	1100	1/31/92	500
6	4230	Valmont	South Boulder Creek	6598	9/30/92	7426	3/31/92	7426	3/31/92	6598
TOTAL				61837		103709		103709		80096

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)					
				Minimum		Maximum		Date	End of Year
				AF	Date	AF	Date		
7	3324	Ralston	Ralston Creek	1898	10/31/92	7486	11/30/91	1898	
7	4415	Long Lake	Ralston Creek	1360	11/30/91	1367	6/30/92	1070	
7	4459	Tucker	Ralston Creek	0	11/30/91	702	6/30/92	289	
7	4410	Leyden	Clear Creek	339.6	10/31/92	503.4	4/30/92	339.6	
7	4396	Hyatt	Clear Creek	636	10/31/92	982	6/30/92	636	
7	3406	Coors B #3	Clear Creek	1196	3/31/92	2514	6/30/92	2100	
7	3407	Coors B #4	Clear Creek	3483	3/31/92	3728	12/31/91	3674	
7	3308	Blunn	Clear Creek	3633	11/30/91	5462	7/31/92	3633	
7		Others		1760		2099		1853	
TOTAL				14305.6		24843.4		15492.6	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 8

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)					
				Minimum		Maximum		Date	End of Year
				AF	Date	AF	Date		
8	3504	Aurora Rampart	Gulch	231	3/31/92	1275	1/31/92	990	
8	3514	Chatfield	South Platte	20755	5/31/92	28196	1/31/92	23484	
8	3532	Cherry Creek	Cherry Creek	11982	11/30/91	14088	3/31/92	12523	
8	3632	McLellan	Dad Clark Ditch	4714	11/30/91	5611.3	6/30/92	5239.5	
8	3500	Platte Canon	South Platte	610	3/31/92	906	4/30/92	759	
8	3675	Quincy	South Platte	1836	9/30/92	2065	2/29/92	2099	
8	3983	Strontia Springs	South Platte	5905	8/31/92	7539	5/31/92	7369	
TOTAL				46033		59680.3		52463.5	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 9

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year
				Minimum		Maximum		Date	Date	
				AF		AF				
9	4315	Soda #1, #2	Bear Creek	1098		1587		10/31/92	12/31/91	1098
9	4281	Bowles	Bear Creek	1636		2062		11/30/91	6/30/92	1833
9	4314	Patrick	Bear Creek	1017		1165		3/31/92	4/30/92	1141
9	3999	Bear Creek Reservoir	Bear Creek	1986		2150		9/30/92	8/31/92	2003
9	4310	Marston	South Platte	13016		19253		11/30/91	8/31/92	14727
9		Others		1748		2546				2159
TOTAL				20501		28763				22961

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 23

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
23	3904	Antero	S Fk South Platte	19454	10/31/92	20125	3/31/92	19454	19454	
23	3962	Montgomery	Mid Fk South Platte	449	4/30/92	4980	9/30/92	4899	4899	
23	3965	Eleven Mile	Mid Fk South Platte	99349	2/29/92	100071	9/30/92	99692	99692	
23	4013	Spinney Mountain	Mid Fk South Platte	22680	4/30/92	46778	8/31/92	42810	42810	
TOTAL				141932		171954		166855	166855	

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 64

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
64	3552	Prewitt	South Platte	17690	10/31/92	28597	6/30/92	17690		
64	3551	North Sterling	South Platte	15730	9/30/92	75164	6/30/92	27890		
64	3906	Julesburg	South Platte	3324	10/31/92	23109	6/30/92	3324		
TOTAL				36744		126870		48904		

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 80

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						Encl of Year
				Minimum		Maximum		Date	Date	
				AF		AF				
80	3550	Cheesman	S Fk South Platte	55233	10/31/92	78846	8/31/92	55233		
80	3829	Wellington	N Fk South Platte	2473	10/31/92	4052	11/30/92	2473		
80		Others		17.3		549		150		
TOTAL				57723.3		83447		57856		

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WATER DISTRICT 1

WD	ID	Reservoir Name	Source Stream	Amount in Storage (AF)						End of Year	
				Minimum		Maximum		Date	Date		
				AF		AF					
1	3653	Bijou #2	South Platte	0		2/29/92	4/30/92	4820		4/30/92	4460
1	3816	Empire	South Platte	10184		9/30/92	3/31/92	34930		6/30/92	11237
1	3817	Jackson	South Platte	17587		11/30/92	6/30/92	27257		3/31/92	18431
1	3651	Riverside	South Platte	22739		9/30/92	3/31/92	63113		3/31/92	29402
1		Others		51.2				5820.3			5371
		TOTAL		50561.2				135940.3			68901

WATER DIVERSION SUMMARIES

WD	Ditches Reporting			Others		Estimated Number of Ditch Visits	Total Diversion -AF-	Total Diversion to Storage	To Irrigation		
	With Record (1)	No Water Avail. (2)	No Water Taken (3)	No info Avail. (4)	No Records				Total Diversion g (AF)	No. of Acres Irrigated	Average AF per Acre
1	115	0	83	34	4,748	2,748	696,124	317,402	405,227	189,225	2.14
2	116	2	34	20	4,255	2,719	416,082	65,375	334,171	177,161	1.89
3	168	0	44	15	2,647	1,617	594,516	293,196	435,902	262,425	1.66
4	46	14	32	4	1,186	1,652	181,530	51,077	121,600	107,706	1.13
5	89	0	16	1	1,134	2,288	150,819	17,186	108,298	111,780	0.97
6	79	2	52	50	1,657	3,452	242,910	80,275	91,824	100,331	0.92
7	118	3	150	47	1,361	537	200,653	40,609	71,953	51,250	1.40
8	141	13	169	47	4,618	1,562	401,850	87,686	49,492	9,781	4.92
9	60	0	9	2	1,488	528 *	13,156	2,130	8,162	2,000	4.00
23	162	20	113	1	1,194	1,174	138,999	74,455	18,141	8,964	2.02
48	43	0	29	1	65	1,757 #	18,070	0	18,070	3,707	4.87
49	4	0	16	0	40	2,006 +	6,799	0	6,799	1,555	4.37
64	89	2	19	12	1,722	2,856	291,542	27,239	268,403	140,270	1.91
65	12	0	12	0	109		12,646	780	10,263	4,720	2.17
76	0	0	0	0	0		0	0	0	0	0.00
80	100	1	34	2	793		77,837	70,466	7,016	1,664	4.22
TOTAL	1,342	57	812	236	27,017	24,896	3,443,533	1,127,876	1,955,321	1,172,539	

* Ditch visits combined with District 80
 # Ditch visits combined with District 76
 + Ditch visits combined with District 65

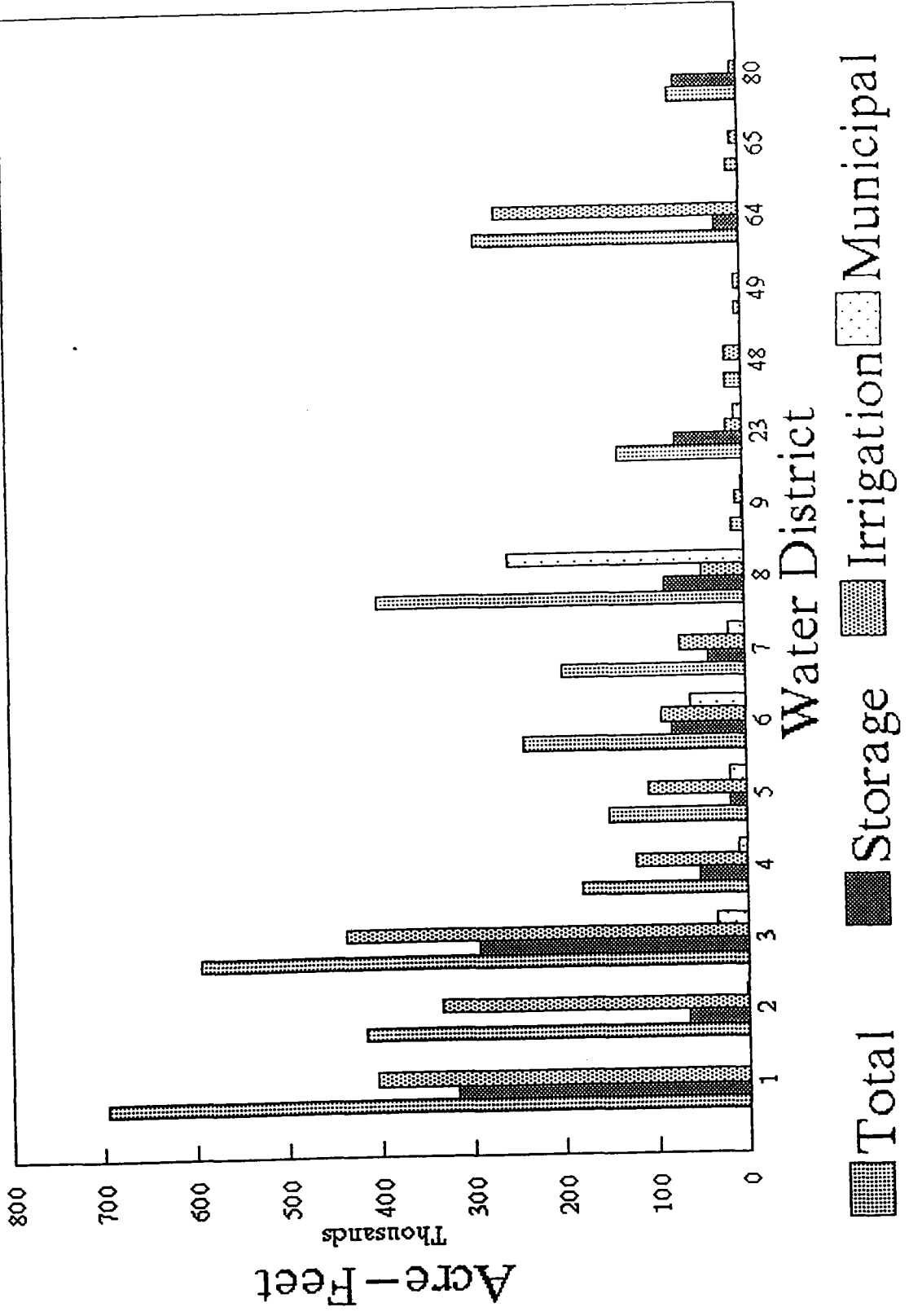
WATER DIVERSION SUMMARIES TO VARIOUS USES

WD	TRANS-MOUNTAIN OUTFLOW	TRANS-BASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
1					8,633			15	444
2			3,120	8,409				94	
3			32,927		2,692				
4			8,853						
5			17,947	10					
6			60,810		1,024			11	743
7			18,522		60,244			1	
8			259,170		677		4,103		
9			1,903	11	35				
23			10,080		1,333	3,634	228		92
48									
49									
64				921					15
65									
76									
80			119					216	
TOTAL	0	0	413,532	9,357	74,638	3,634	4,301	337	1,294

WD	AUGMENTATION	EVAPORATION	GEOTHERMAL	SNOWMAKING	MINIMUM STREAMFLOW	POWER GENERATION	WILDLIFE	RECHARGE	OTHER
1	10805							68333	
2	7167							5387	
3	4026	302							
4	4057								
5	8007								
6	1280				424				
7	18373			75					
8	2075	3208							
9	905								
23	2520								
48									
49									
64	7180							8540	
65	6								
76									
80	159								
TOTAL	78085	3600	0	75	424	0	0	82200	0

DIVISION 1

1992 Diversions



WATER COURT ACTIVITIES

Calendar Year 1992

Applications made to water court this year.....	170
Consultations with Referee this year.....	215
Decrees Issued by Court this year.....	239
Dismissals.....	25
Complaints.....	2

TYPES OF RULINGS

TYPE OF RULING	NUMBERS OF CASES	NUMBER OF STRUCTURE
Findings of Diligence on Conditional Rights	20	70
Cancellations of Conditional Rights	8	9
Conditional Rights Made Absolute	7	41
Surface Water Rights Adjudicated	38	167
Underground Water Rights Adjudicated	90	535
Water Storage Rights Adjudicated	28	45
Plans for Augmentation Adjudicated	26	404
Changes of Water Rights Adjudicated	56	177
Instream Flow Rights Adjudicated	6	6

RIVER CALL 1991-1992

Calling Priority

Date Call Initiated	Date Call Released	Structure Name	Appropriation Date	Administration Number	District	Person Placing Call	Districts Affected
1991-1992	1991-1992						
11/01/91	11/12/91	Burlington	11/20/1885	13108.0000	2	Keith Delventhal	7,8,9,23,80
11/12/91	01/21/92	Cheesman	6/27/1889	14423.0000	80	Jim McClure	23,80
11/12/91	03/10/92	Denver Intake	12/6/1910	22254.0000	8	Jim McClure	8,9,80
11/12/91	01/06/92	Chatfield	12/28/1977	46748.0000	8	Jim McClure	8,9,80
01/06/92	03/09/92	No Call					
03/10/92	04/15/92	Marston	04/01/1911	22370.0000	8	Jim McClure	8,23,80
03/17/92	04/29/92	Cheesman	06/27/1889	14423.0000	8	Jim McClure	23,80
04/15/92	04/17/92	Denver Intake	12/06/1910	22254.0000	8	Jim McClure	8,80
04/17/92	04/24/92	Marston	04/01/1910	22370.0000	8	Jim McClure	8,80
04/24/92	05/04/92	Burlington	11/20/1885	13108.0000	2	Keith Delventhal	8,9,23,80
04/29/92	05/11/92	Harmony #1	04/28/1895	16554.0000	64	Jim Hanrahan	1,2,3,4,5,6,7
05/04/92	05/05/92	Bijou	10/01/1888	14154.0000	1	Mae Cunnig	2,3,4,5,6,7,9,23,80
05/05/92	05/11/92	Upper Platte & Beaver	04/15/1888	13985.0000	1	Mae Cunnig	2,3,4,5,6,7,8,9,23,80
05/06/92	05/11/92	Burlington	11/20/1885	13108.0000	2	Ken Timmerman	2,7,8,9,23,80
05/11/92	05/14/92	Pawnee	06/22/1882	11861.0000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
05/14/92	05/20/92	Hill Platte Valley Ditch	10/01/1883	12327.0000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
05/15/92	05/18/92	Farmers Independent	11/20/1876	9821.0000	2	Keith Delventhal	7,8,9,23,80
05/20/92	05/23/92	Lowline	10/14/1882	11975.0000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
05/23/92	05/25/92	Lower Platte & Beaver	04/15/1888	13985.0000	1	Mae Cunnig	1,2,3,4,5,6,7,8,9,23,80
05/24/92	05/25/92	Brantner	01/15/1881	11338.0000	2	Keith Delventhal	7,8,9,23,80
05/25/92	05/26/92	Harmony #1	04/28/1895	16554.0000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9,23,80
05/26/92	05/27/92	Burlington	11/20/1885	13108.0000	2	Ken Timmerman	2,7,8,9,23,80
05/26/92	05/29/92	Riverside Direct	05/31/1907	20969.0000	1	Mae Cunnig	2,3,4,5,6,8,9
05/26/93	05/29/92	Cheesman	06/27/1889	14423.0000	8	Jim McClure	23,80
05/29/92	06/01/92	Burlington	11/20/1885	13108.0000	2	Ken Timmerman	8,9,23,80
05/29/92	06/01/92	North Sterling	08/01/1915	23953.0000	64	Jim Hanrahan	1,2,3,4,5,6,7,8,9

Calling Priority (Continued)

Date Call Initiated	Date Call Released	Structure Name	Appropriation Date	Administration Number	District	Person Placing Call	Districts Affected
1991-1992	06/03/92	Cheesman	06/27/1880	14423.0000	8	Jim McClure	23,80
06/01/92	06/04/92	District 1 Reservoir	12/31/1920	31423.29219	1	Mae Cunning	2,3,4,5,6,7,8,9,80
06/03/92	06/08/92	Burlington	11/20/1885	13108.0000	2	Ken Timmerman	8,9,23,80
06/04/92	06/10/92	Riverside Direct	05/31/1907	20069.0000	1	Mae Cunning	2,3,4,5,6,7,8,9,80
06/08/92	06/09/92	Cheesman	06/27/1880	14423.0000	8	Jim McClure	23,80
06/09/92	06/11/92	Burlington	11/20/1885	13108.0000	2	Ken Timmerman	8,9,23,80
06/10/92	06/22/92	District 1 Reservoir	12/31/1920	31423.29219	1	Mae Cunning	2,3,4,5,6,7
06/11/92	06/13/92	Cheesman	06/27/1880	14423.0000	8	Jim McClure	23,80
06/13/92	06/24/92	Burlington	11/20/1885	13108.0000	2	Ken Timmerman	8,9,23,80
06/22/92	06/26/92	Riverside Direct	05/31/1907	20069.0000	2	Mae Cunning	2,3,4,5,6
06/24/92	06/26/92	Farmers Independent	11/20/1870	9128.0000	2	Keith Delventhal	7,8,9,23,80
06/26/92	06/27/92	Burlington	11/20/1885	13108.0000	2	Keith Delventhal	8,9,23,80
06/27/92	06/30/92	Barr Lake	01/13/1900	21582.0000	2	Keith Delventhal	8,9
06/27/92	06/30/92	Cheesman	06/27/1880	14423.0000	80	Jim McClure	23,80
06/30/92	07/06/92	Riverside Direct	05/31/1907	20069.0000	1	Mae Cunning	1,2,3,4,5,6,7,8,9
06/30/92	07/02/92	Burlington Direct	11/20/1885	13108.0000	2	Ken Timmerman	2,8,9,23,80
07/02/92	07/04/92	Cheesman	06/27/1880	14423.0000	80	Jim McClure	23,80
07/03/92	07/04/92	Cheesman to Burlington	06/27/1880	14423.0000	80	Jim McClure	2,8,9,80
07/03/92	07/04/92	Burlington Bypass	11/20/1885	13108.0000	2	Keith Delventhal	2,7,8,9,23,80
07/04/92	07/06/92	Farmers Independent	11/20/1870	9821.0000	2	Keith Delventhal	2,7,8,9,23,80
07/06/92	07/13/92	Platteville	10/15/1873	8089.0000	2	Keith Delventhal	2,7,8,9,23,80
07/06/92	07/07/92	Bljou	10/11/1888	14154.0000	1	Mae Cunning	2,3,4,5,6
07/07/92	07/08/92	Upper Platte & Beaver	04/15/1888	13985.0000	1	Mae Cunning	2,3,4,5,6
07/08/92	07/14/92	Ft. Morgan Canal	10/18/1882	11979.0000	1	Mae Cunning	2,3,4,5,6
07/13/92	07/15/92	Farmers Independent	11/20/1870	9821.0000	2	Keith Delventhal	2,7,8,9,23,80
07/14/92	07/20/92	Bljou	10/01/1888	14154.0000	1	Mae Cunning	2,3,4,5,6
07/15/92	07/16/92	Platteville	10/15/1873	8089.0000	2	Keith Delventhal	2,7,8,9,23,80
07/16/92	07/27/92	Farmers Independent	11/20/1870	9821.0000	2	Keith Delventhal	2,7,8,9,23,80
07/20/92	07/21/92	Upper Platte & Beaver	04/15/1888	13985.0000	1	Mae Cunning	2,3,4,5,6
07/21/92	07/23/92	Bljou	10/01/1888	14154.0000	1	Mae Cunning	2,3,4,5,6

Calling Priority (Continued)

Date Call Initiated	Date Call Released	Structure Name	Appropriation Date	Administration Number	District	Person Placing Call	Districts Affected
1991-1992	1991-1992						
07/23/92	07/25/92	Riverside Direct	05/31/1907	20969.0000	1	Mae Cunning	2,3,4,5,6
07/25/92	07/29/92	Bijou	10/01/1888	14154.0000	1	Mae Cunning	2,3,4,5,6
07/27/92	07/28/92	Burlington Direct	11/20/1885	13108.0000	2	Ken Timmerman	8,9,23,80
07/27/92	07/29/92	Riverside Direct	05/31/1907	20969.0000	1	Mae Cunning	2,3,4,5,6,7
07/28/92	07/28/92	Burlington Bypass	11/20/1885	13108.0000	2	Ken Timmerman	8,9,23,80
07/28/92	07/29/92	Farmers Independent	11/20/1876	9821.0000	2	Keith Delventhal	7,8,9,23,80
07/29/92	07/29/92	Fulton	07/08/1876	9698.0000	2	Keith Delventhal	7,8,9,23,80
07/29/92	08/03/92	Upper Platte & Beaver	04/15/1888	13985.0000	1	Mae Cunning	2,3,4,5,6
07/29/92	07/30/92	Platteville	10/15/1873	8689.0000	2	Keith Delventhal	2,7,8,9,23,80
07/30/92	08/13/92	Evans #2	10/05/1871	7948.0000	2	Keith Delventhal	2,7,8,9,23,80
08/03/92	08/19/92	Ft. Morgan Canal	10/18/1882	11979.0000	1	Mae Cunning	2,3,4,5,6
08/12/92	08/13/92	Lupton Bottom	09/15/1873	8659.0000	2	Keith Delventhal	2,7,8,9,23,80
08/13/92	08/18/92	Platteville	10/15/1873	8689.0000	2	Keith Delventhal	2,7,8,9,23,80
08/18/92	08/21/92	Fulton	07/08/1876	9686.0000	2	Keith Delventhal	2,7,8,9,23,80
08/19/92	08/24/92	Upper Platte & Beaver	04/15/1888	13985.0000	1	Mae Cunning	2,3,4,5,6
08/21/92	08/21/92	Platteville	10/15/1873	8689.0000	2	Keith Delventhal	2,7,8,9,23,80
08/24/92	08/24/92	Evans #2	10/05/1871	7948.0000	2	Keith Delventhal	2,7,8,9,23,80
08/24/92	09/03/92	Chatfield	12/28/1977	46748.0000	8	Jim McClure	8,9,23,80
08/24/92	08/25/92	Cheesman	06/27/1889	14423.0000	80	Jim McClure	23
08/24/92		Free River Below Chatfield					
08/31/92	09/03/92	Denver Intake	12/06/1910	22254.0000	8	Jim McClure	8,9,23,80
09/03/92	10/21/92	Barr Lake	01/13/1909	21562.0000	2	Ken Timmerman	8,9,23,80
09/03/92	09/06/92	Denver Intake	05/01/1899	18018.0000	8	John Lochhead	8,9,23,80
09/06/92	09/15/92	Denver Intake	09/01/1892	15585.0000	8	John Lochhead	8,9,23,80
09/15/92	10/27/92	Denver Intake	05/01/1899	18018.0000	8	Jim McClure	8,9,23,80
10/21/92	11/02/92	O'Brien/Beebe Draw	02/01/1984	48974.0000	2	Ken Timmerman	8
10/21/92	11/02/92	Chatfield	12/28/1977	46748.0000	8	Jim McClure	8
10/27/92	11/02/92	Denver Intake	12/06/1910	22254.0000	8	Jim McClure	8
10/27/92	11/02/92	Cheesman	06/27/1889	14423.0000	80	Jim McClure	23

OFFICE ADMINISTRATION AND WORKLOAD MEASURES

Staffing

Dam Safety Engineers	4
Water Resource Engineers	4
Hydrographers	5
Clerical Staff	2
Full-Time Water Commissioners	16
Permanent Part-Time Water Commissioners	4
Temporary Water Commissioners	<u>3</u>
TOTAL STAFF	38

Statistics

Decreed Surface Rights	11,800
Number of Wells	75,000
Number of Plans for Augmentation	430
Number of Dams	748
Number of Active Substitute Supply Plans	63
Number of Meetings with Water Users	195
Number of Public Meetings	61
Number of Contacts to give Public Assistance	18,275