

COLORADO DEPARTMENT OF NATURAL RESOURCES

DIVISION OF WATER RESOURCES

DIVISION ENGINEER' S

ANNUAL REPORT

WATER DIVISION NO. 2

1992

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## I. WATER ADMINISTRATION

### A. 1992 Water Year

#### 1. Accomplishments

The 1992 water year began with optimistic expectations within the Arkansas river basin; however, by the first of May runoff predictions had diminished to 65-79 percent of average along the mainstem. Streamflows peaked somewhat earlier than normal and reservoir releases were relied upon to help satisfy the demand throughout the warm and generally dry spring and early summer period. Significant precipitation eased demands during the mid and latter part of the growing season. Overall, the water supply was very similar to that experienced last year.

The Division 2 staff successfully administered the 1991-1992 Winter Storage program by accounting and distributing 159,278 a.f. according to the terms of the decree. See Appendix G.

The Division Engineer for Division 2 acts as the Operations Secretary to the Arkansas River Compact Administration. In that capacity an accounting of operations conducted during the year pursuant to the April 24, 1980 Resolution Concerning an Operating Plan for John Martin Reservoir is required. The Annual Report for 1992 is on file with the Arkansas River Compact Administration, the State Engineer's Office, and the Colorado Water Conservation Board. An excerpt of that report is included herein as Appendix H.

Among the innumerable administrative actions taken within the past year, three merit individual attention here.

- DeWeese Reservoir was required to conform to accepted operational standards. DeWeese Reservoir in former Water District 13 near Westcliffe, Colorado impounds water for subsequent irrigation use in former Water District 12 near Canon City. Three storage appropriations have been adjudicated, the most senior of which is for 1771 a.f.; however, the total capacity exceeds 4000 a.f. Over time a practice apparently developed whereby storage was allowed to occur without regard to the limitations associated with the respective water rights. Furthermore, it was generally

understood that the reservoir outlets were in such a state of disrepair that they could not be operated to bypass "out-of-priority" inflows nor were there any accounting or reporting procedures in place that would enable the structure to be properly administered. After establishing the necessary procedures to distinguish the waters within the reservoir and directing the prompt release of water stored "out-of-priority" while allowing the reservoir owners to draw water to which they were determined to be entitled as they saw fit, the situation was monitored to assess the need for outlet repairs. This experience showed the need for restoration of the outlet capacity and this work was undertaken after the reservoir was evacuated in early October. An unanticipated and unfortunate consequence of the drainage of the reservoir for the first time in many years has been the discharge of accumulated silt and the effects of that discharge which have yet to be determined.

- Efforts to curtail all known illegal and undecreed water usages within the Horse Creek basin have essentially been completed. With a few minor exceptions, this important prerequisite step to further administration of decreed water rights has been accomplished.

- Implementation of a method of delivering Fryingpan-Arkansas Project water to Fountain Creek irrigation ditches by exchange was attempted. Although the administration of this method as described in a stipulation between Colorado Springs and Chilcott Ditch Company, et. al related to Consolidated Cases Nos. 84CW202, 84CW203, 86CW118(B) and 89CW36, did not result in the delivery of significant amounts of water in 1992, the precedent is noteworthy.

The Division 2 dam safety program as conducted by Division personnel resulted in the inspection of approximately 165 structures which accomplished the 1-1-5 objective for class 1, 2, and 3 dams. There were no dam safety incidents during the year. Staff also conducted construction monitoring, hydrological analysis, plan reviews, and made required corrections to the NATDAM data base.

The Division 2 hydrographic unit met its record production schedule, operated and maintained 54

gaging stations and 49 satellite monitoring installations. Satellite linked monitoring hardware was installed at the existing Cucharas River near Boyd's Ranch site and a new monitoring station was established on the Arkansas River near Rocky Ford. Additionally, staff was able to take advantage of at least three technical training opportunities coordinated by the Chief Hydrographer and in conjunction with the United States Geological Survey.

Efforts were made in 1992 to further improve enforcement and awareness of the requirements of the Arkansas Rules and Regulations governing the use of groundwater. This was done in cooperation with the Colorado Water Development and Protective Association and the Lower Arkansas Water Management Association. Through an allocation of SB-200 cash funds, we were able to continue a field reconnaissance and monitoring program which included the bench aquifer area of the St. Charles Mesa through the efforts of summer intern, Mr. Richard Meserve. This program was extended through FY 92-93.

The Colorado Water Protective and Development Association initiated a program of measuring the discharge and power requirements of member wells at their own expense. Approximately 600 wells were tested in 1992.

Nine members of the Division 2 staff (4 engineers and 5 water commissioners) received training regarding the State Engineer's policies and procedures related to the review of well permit applications during the year.

The Upper Arkansas Water Conservancy District was encouraged to develop a plan for augmentation designed to address out-of-priority depletions within the District boundaries to the fullest extent possible. This concept has been well received by the District and their constituency.

Progress was made in the area of records development and information dissemination on several fronts.

Standardized forms were provided to all water commissioners to be used as primary documentation of diversion data and to update information related to diversion structures. A peer review program was utilized to detect improper coding and data entry errors. Justifications were required for all

"active" structures lacking diversion data.

A work plan was developed to remedy deficiencies and update the water rights data base. As a part of this plan copies of decrees pertaining to each former Water District have been and continue to be distributed to the appropriate water commissioners. Additionally, the statutory process of determining certain water rights to be abandoned resulted in 21 protests to the Revised Abandonment List published December 31, 1991.

A publications team has been appointed to facilitate the collection of various types of information that is to be included in the agency publications Water Supply Conditions Update Report and Streamlines.

Several "special projects" were accomplished, or at least substantially advanced during the year.

In response to directives of the State Engineer the Division personnel assumed an enlarged role in setting the agenda and in conducting the annual meeting of the State Engineer's staff. Part of this assignment required preparation and presentation of a prioritization of the functional programs with budgeted allocations of manpower and financial resources to each. Although time consuming this proved to be a valuable exercise from a management perspective and improved the overall quality of the meeting.

On May 11, 1992, Governor Romer signed an Executive Order creating the Lower Arkansas River Commission and directing the commission to organize and lead efforts to obtain water for John Martin and the Great Plains reservoirs and to accelerate the process of establishing a state park in Southeastern Colorado. The commission consists of representatives of six counties, five agencies of state government including the Division 2 Engineer as the designee of the State Engineer, two at-large members appointed by the Southeastern Colorado Water Conservancy District, and is chaired by the Executive Director of the Colorado Department of Natural Resources. To date the efforts of the commission have resulted in a draft implementation plan dated November 16, 1992 which preliminarily sets forth the actions recommended by the Lower Arkansas River Commission to accomplish its goals and describes the procedures to carry out these actions. Final action on the draft is scheduled to occur on March 5, 1993.

The Division Engineer and Assistant Division Engineer, Chuck Roberts, successfully completed the Supervisory Certificate program offered by the Colorado Department of Personnel.

Water Commissioners Becky Nichols and Eddie Taylor received Total Quality Management training during the month of January 1992 and participated in the project on Training within the Division of Water Resources.

2. Milestones Observed in 1992

The dismissal of Dr. Jeris A. Danielson as State Engineer on February 14, 1992 abruptly marked the end of an era in the history of water administration in Colorado. Dr. Danielson's tenure as State Engineer began in December 1979.

Mr. Hal Simpson served as Acting State Engineer during the difficult transition period and was ultimately appointed to the position on a permanent basis. Mr. Simpson took the oath of office on September 9, 1992.

The trial in the case of Kansas vs. Colorado, No. 105 Original before the United States Supreme Court, which began on September 17, 1990, was finally concluded on December 16, 1992. After a delay of nearly nine months occasioned by the loss of one of Kansas' chief witnesses, trial was resumed on February 24, 1992 to allow Kansas to complete its case and to allow Colorado to respond to the revised Kansas case. On June 9, 1992, Special Master Arthur L. Littleworth granted Colorado's motion to dismiss Kansas' claim that the operation of the Trinidad Project resulted in a violation of the Arkansas River Compact. On July 31, 1992, the Master granted Kansas' motion to dismiss Colorado's counterclaim regarding the post-compact development of wells in Kansas.

Summary briefings will continue through May 1993 and thereafter the Master may be expected to rule.

In February 1992, the Colorado Department of Natural Resources published a strategic plan, referred to as the 1991-1995 plan. Included within this plan is a Departmental mission statement and a chapter (Chapter 5) which lists eight goals specifically addressing water issues. This document evidences progressive leadership and

provides thoughtful guidance.

3. Involvement in the Water User Community

Mr. Charles L. (Tommy) Thomson was the recipient of the 1992 "Water Manager of the Year Award for Water Division 2" in recognition of his extensive accomplishments and many years of service to the water users of the Arkansas River primarily in his capacity as General Manager of the Southeastern Colorado Water Conservancy District.

Mr. Leonard Trujillo was recognized as "Water Commissioner of the Year" for his efforts to effect the proper administration of the waters of the Apishapa river in former Water District 18.

The Division 2 staff had the pleasure of sponsoring Mr. Dominic Ayala as a summer student through the Department of Natural Resources' Youth in Natural Resources Program. Supervised by Mrs. Celia Solano, Mr. Ayala gained valuable experience and work ethics in an office setting and in association with professionals in the field of natural resources, while making important contributions to our office productivity.

Division 2 staff members attended numerous meetings with traditional water user entities including the Southeastern Colorado Water Conservancy District, the Upper Water District 10 Users Association, Colorado Water Protective and Development Association, Arkansas Valley Ditch Association, Upper Arkansas Water Conservancy District, Purgatoire River Water Conservancy District, and the Arkansas River Compact Administration. Additionally, the Division Engineer's office gained broader exposure to other public interest sectors through participation in Task Force One, the Lower Arkansas River Commission and the Arkansas Water Needs Assessment project.

4. Water related issues not addressed

The quality of the Division 2 Water Rights Data Base is in need of substantial improvement. This information, which is fundamental to proper water rights administration must be made more reliable through principled application of the provisions of law. Despite attempts to emphasize the importance of this, progress has been less than satisfactory primarily due to competing demands on personnel time.



Procedures to improve administration of terms and conditions of adjudicated plans for augmentation need to be developed and implemented. Although the need to assist water commissioners with interpretation of these often complex decrees has been recognized for some time, the press of other priorities have prevented the accomplishment of this activity.

The specter of uncertainty associated with the ramifications of the Kansas vs Colorado lawsuit, issues of interpretation and application of the Arkansas Rules and Regulations and manpower limitations have inhibited some groundwater regulation activities.

5. Workload Changes/Administrative Limitations that Affected Operations

Figure 1 depicts the current organizational structure that has been adopted to meet the Division's responsibilities and objectives.

Delegation of high profile public and inter-agency oriented responsibilities; i.e. Lower Arkansas River Commission, Water Needs Task Force, Task Force 1, etc., are appropriate but extremely time consuming endeavors that divert attention from other well established responsibilities.

Increased complexity of administrative requirements created in part by a recent program of re-use, exchange, and augmentation approved for the City of Colorado Springs justified the creation of a new water commissioner position assigned to former Water District 10. Mr. Joe Flory was appointed to fill this position on a temporary basis as of August 19, 1992. Mr. Flory has provided uninterrupted service since the resignation of his former supervisor Ms. Becky Nichols on October 30, 1992.

Mr. Tom Kelly, former Assistant State Engineer (retired) was hired as a temporary water commissioner to fill a vacancy created by the resignation of Mr. John Jackson and to evaluate manpower distribution requirements in former Water District 11.

Mr. Anthony Guterrez was hired as a hydro-graphic technician on January 13, 1992 to fill a longstanding vacancy.

Several factors beyond the control of the agency have resulted in reduced managerial flexibility in addressing program objectives. These include a hiring freeze, budget cuts, mandatory increased supervisory responsibilities, and a court decision restricting use of contract personnel.

Due to budgetary and hiring restrictions in 1992, it was necessary to resort to some innovative means of accomplishing our objectives. In addition to the cash funded temporary appointment of a summer intern and participation in the Youth in Natural Resources program as described above, we were able to participate in a work study program through which University of Southern Colorado students earned credit toward Engineering Technology degrees for their assistance in development of hydrographic records.

It has been suggested that a statewide evaluation of manpower distribution should be conducted with the objective of distributing manpower in proportion to workload associated with the highest priority functions of the agency within each Division. This would establish a justification of personnel needs and utilization and promote uniformity of service statewide.

In FY 91-92 Division 2 overspent its final allocation for Operating and Travel by \$2926. This represents a 5% overexpenditure of an allocation of \$58,012. Originally an allocation of \$62,186 was made at the beginning of the fiscal year; however, mid-year budget cuts and compensating adjustments resulted in the final allocation being made on March 12, 1992. Actual expenditures were 2% less than the original allocation.

The initial FY 92-93 allocation for Division 2 Operating is \$40,496 and Travel is \$24,109, for a total of \$64,605. This amount which has been reduced by 2% in order to establish funds specifically for training purposes, appears to provide adequate resources based upon past experience. However, there is some concern that due to the separate allocations for Operating and Travel this year, coupled with the acquisition of additional leased vehicles to replace more expensive private vehicle travel, it may be difficult to stay within the Operating allocation unless some appropriate transfers are made.

B. 1993 Water Year

1. Objectives for 1993

Planning and implementation of a program to secure compliance with the Rules and Regulations Governing Use of Groundwater in the Arkansas River Basin.

- Continue and extend field reconnaissance efforts of affected wells.

- Develop computer data base to compile results of findings and provide for efficient comparison and cross checking with other data files.

- Develop, refine, and implement enforcement procedures as required.

Develop an accurate tabulation of water rights for Division 2 as required by law.

- Refine and continue to implement workplan to remedy deficiencies within most recent tabulation and maintain the database to keep it current as new water right determinations or changes are decreed.

Improve administration of decreed plans for augmentation.

- Develop summaries of plan requirements and review with water commissioners.

Develop and implement appropriate administrative program within the Horse Creek basin.

- Determine if material injury has or will occur to senior vested rights.

- Determine if additional curtailment will alleviate or prevent any such injury.

- Develop and implement appropriate actions.

Preserve, protect, and maximize the beneficial use of the water supplies of the Arkansas river through active participation in the activities of the Lower Arkansas River Commission.

Administer, distribute, and regulate the waters of the state in accordance with the constitution of the State of Colorado, statute and other applicable laws, and written instructions of the State Engineer.

2. Factors that may influence water administration practices

The potential ramifications of the Kansas vs Colorado lawsuit are enormous. Conceivably they could include renegotiation of the Arkansas River Compact and a mandate for more rigorous administration of groundwater which would require substantially greater resource commitments.

The Highland Irrigation Company and the Nine Mile Canal Company have filed suit in United States District Court (92C1151) against the Arkansas River Compact Administration, the State Engineer, the Division Engineer, and the Acting Chief Engineer of the United States Army Corps of Engineers in which it is alleged that the April 24, 1980 resolution of the Compact Administration concerning an operating plan for John Martin Reservoir is ultra vires. Presently all proceedings in this case have been stayed pending decisions in Kansas vs Colorado; however, an adverse determination in this case could require substantially different administrative practices.

In November of 1992 Colorado voters approved a ballot initiative amending the constitution restricting growth of state government and imposing spending limitations. Given the requirements of other state programs substantial reductions of funding allocations to the Division of Water Resources appear likely to occur. This will necessitate restricting operations to provide only the most fundamental services affordable.

DIVISION OF WATER RESOURCES  
OFFICE OF THE DIVISION TWO ENGINEER  
 January 1, 1993

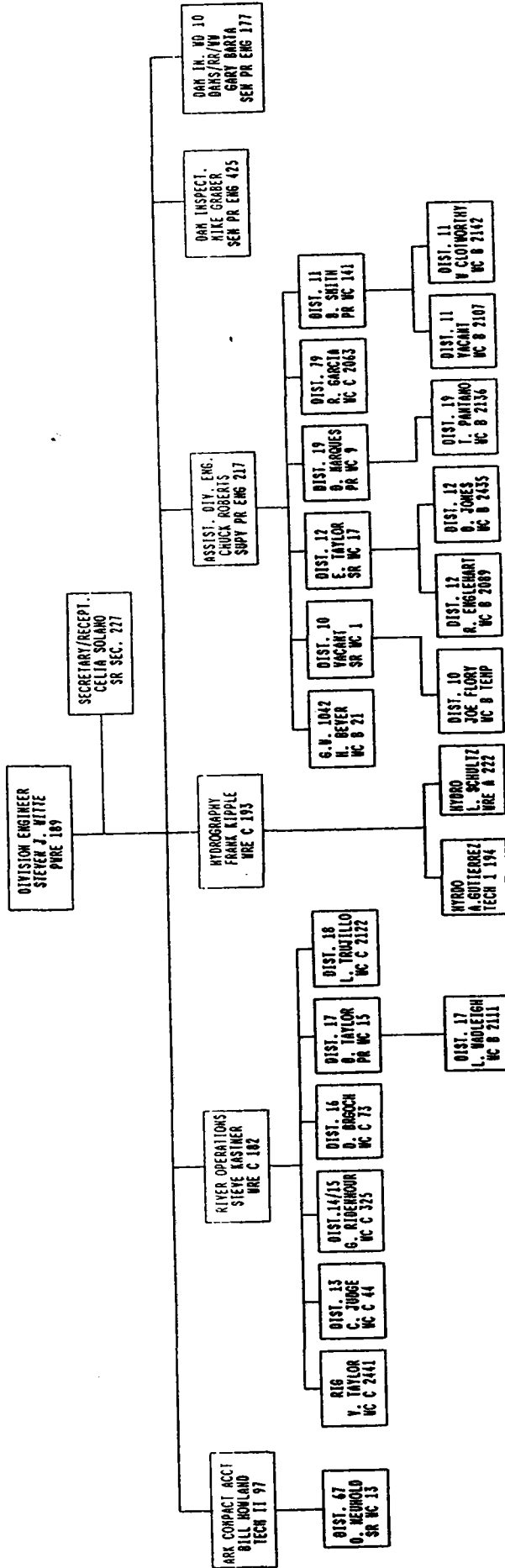


FIGURE 1

APPENDIX A-1  
 TRANSMOUNTAIN DIVERSION SUMMARY - INFLOWS

RECIPIENT										SOURCE		
WD	ID	Name	Stream	10-Year Average		Current Year		WD	ID	Stream		
				AF	Days	AF	Days					
14	NA	City of Pueblo Tenn. Cr.	Tenn. Creek	1203	216	934	168	11	NA	Ewing Ditch		
14	NA	City of Pueblo Tenn. Cr.	Tenn. Creek	2681	125)	1644	101	11	NA	Wurtz Ditch		
14	NA	City of Pueblo Tenn. Cr.	Tenn. Creek (combined)		)	529	112	11	NA	Wurtz Ditch		
14	NA	City of Pueblo Tenn. Cr.	Ark. River	1849	129	1610	112	11	NA	Columbine Ditch		
17	NA	Catlin Canal Ark. River	Ark. River	176	93	205	108	11	NA	Larkspur Ditch		
11	NA	Turquoise Res. LK FK. CRK	LK. FK. Crk	53370	365	57060	366	11	NA	Boustead Tun.		
14	NA	City of Pueblo LK FK CRK	LK. FK. Crk	6009	185	5210	160	11	NA	Busk-Ivanhoe Tun.		
10	NA	City of Co. Spgs. LK FK Crk.	Lake FK. Crk	22583	67	26910	61	11	NA	Homestake Tun		
14	NA	City of Pueblo Lake Crk	Lake Crk.	36181	166	41970	193	11	NA	Twin Lakes Tun		
16	NA	Cuerno Verde Cattle & Land	Huerfano R	1372	60	1815	79	79	851 & 968	Medano Hudson		

APPENDIX A-2

TRANSMOUNTAIN DIVERSION SUMMARY - OUTFLOWS

RECIPIENT							SOURCE			
WD	ID	Name	Stream	10-Year Average		Current Year		WD	ID	Stream
				AF	Days	AF	Days			
11	37	Climax Molybdenum Co.	Ark. River	N/A*	N/A*	188	276	11	759	Stevens Leiter Well

\*N/A = Not available, no record kept

APPENDIX B

RESERVOIR STORAGE SUMMARIES BY DISTRICT

WD	ID	RESERVOIR NAME	SOURCE STREAM	AMOUNT IN STORAGE (AF)						End Of Year
				Minimum		Maximum		Date	Date	
				AF	Date	AF	Date			
10	3615	Pikeview Res	Monument Cr	58.7	04/30	73.6	08/31	66.3		
10	3641	Fountain Valley Res. 3	Fountain Cr.	985	10/31	3555	05/01	510		
10	3644	S. Catamount Res	S. Catamount Cr	1823	04/01	2518	07/01	2198		
10	3645	S. Suburban Res	N. Cheyenne Cr	186	10/31	211.6	11/01	186		
10	3646	Gold Camp Res.	N. Cheyenne Cr	328	10/31	369.7	12/01	328		
10	3667	Crystal Cr. Res.	Crystal Creek	1859	02/01	2112	05/01	2112		
10	3668	Bigtooth Res	S. Ruxton Cr.	96	04/01	203.3	06/01	203.3		
10	3669	Nichols 4	W. Monument Cr	586	11/01	586	10/31	586		
10	3670	Rampart Res.	W. Monument Cr	30317	11/01	39735	07/01	32488		
10	3673	N. Catamount Res	N. Fk. Catamount	9728	12/01	11874	06/01	10418		





APPENDIX B - continued

12	3820	Rosemont- Penrose	Beaver Cr	2465	03/01	2541	05/01	2485.7
13	3613	DeWeese Dye	Grape Cr	804	11/15	4322	01/27	0.0
14	3821	Huerfano Valley Res	Huerfano R.	1113	04/24	1299	01/09	NA
15	3693	Lake Minnequa	St. Charles R	1040	11/05	1190	07/07	1080
	3694	Bonnie Meade	Greenhorn Crk	100	04/01	100	04/01	NA
	3695	Hayden Beckwith	Greenhorn Cr	455	11/05	1005	04/29	NA
	3728	.Clark	Apache Cr	200	05/01	200	05/01	NA
	3828	St. Charles #2	St. Charles R.	2060	03/10	2420	08/25	2310
	3829	St. Charles #3	St. Charles R.	5520	01/29	8070	08/25	6850
16	3712	Cucharas Valley	Cucharas R	1800	06/01	1200	11/01	1400
	3713	Holita Res	Cucharas R	239	11/08	290	06/05	269
	3715	Lake Meriam	Cucharas R	1982	11/09	2235	07/01	2149

APPENDIX B - continued

3716	Lake Oehm	Cucharas R	2172	11/16	2692	06/01	2506
3718	Maria Stevens	Cucharas R	1132	11/18	1202	06/04	1166
17	3511	Holbrook Res	0.0	09/11	6122	02/14	0.0
17	3524	Lake Henry	1707	11/01	6949	03/06	73
17	3525	Lake Meredith	827	11/01	22918	03/27	4252
17	3546	Adobe Cr	0.0	09/11	48127	03/13	0.0
18	N/A						
19	3782	Black Hills	242	08/17	242	07/31	0.0
19	3789	Hermosa Valley	0.0	09/13	92	04/04	0.0
19	3855	North Lake	4276	11/01	4276	10/31	4276
19	3586	Russel Res.	120	11/22	150	01/13	120
19	3857	Monument Lake	1666	11/22	1666	10/28	1666
19	3940	Sueno	50	11/22	50	09.25	50
19	3941	Lake Dorothy	325.6	01/27	325.6	10/13	325.6
66	N/A						

APPENDIX B - continued

67	3512	John Martin	Arkansas R	13582	10/31	70591	10/31	13582
		Purse-Two Buttes	Two Butte Cr	0.0	06/12	100	07/16	
67	3882	Thurston Res	Arkansas R	15.5	11/25	1669	08/27	1514
79	N/A							

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APPENDIX C-1 Revised 1993  
 WATER DIVERSION SUMMARIES  
 IY 92

WD	Structures Reporting					All Other Structures		Estimated Number of visits to Structure	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 Record (5)	Total Diversions AF	Number of Acres Irrigated				Avg AF per Acre		
10	243	0	39	58	0	1724	127335	198	38035	9475	4.01		
11	17	26	14	9	3	1397	189078	321	137554	15172	9.06		
12	1	11	27	53	0	9248	292849	4366	176686	14860	11.89		
13	1	15	35	413	0	331	38199	0	38004	18700	2.03		
14	8	6	12	2	0	1725	270918	32190	199704	25222	7.92		
15	1	4	47	1	0	1189	35381	540	14138	4681	3.02		
16	0	44	46	1	10	3077	18986	1291	13911	2361	5.89		
17	14	17	64	55	1	3748	619251	59590	520179	90000	5.78		
18	0	0	12	0	1	422	12847	0	12824	3383	3.79		
19	4	34	45	0	15	2647	74766	30945	69455	25000	2.78		
66	0	0	0	10	0	0	5068	0	5068	61800*	3.53		
67	4	4	9	141	0	1765	213651	0	212852	61800*	3.53		
79						2563	30989	0	30989	6783	4.57		

Tot	293	161	350	743	30	29836	1929318	129441	1469399	277437	5.215
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\*66 & 67 combined  
 Definitions:

- (1) Count of structures with CIU=A and NUC=blank
- (2) Count of structures with CIU=A and NUC-B
- (3) Count of structures with CIU=A and NUC={A, C, D} + CIU
- (4) Count of structures with CIU=A and NUC={E, F}
- (5) Count of structures with CIU=U

APPENDIX C-2

WATER DIVERSION SUMMARIES TO VARIOUS USES

WD	TRANS-MOUNTAIN OUTFLOW	TRANS-BASIN OUTFLOW	MUNICIPAL	COMMERCIAL	INDUSTRIAL	RECREATION	FISHERY	DOMESTIC & HOUSEHOLD	STOCK
10	0	0	17390	0	0	0	0	0	0
11	0	5856	2675	0	524	0	6251	0	2054
12	0	4356	8947	0	92101	0	0	1144	0
13	0	0	156	0	0	0	0	0	0
14	0	0	32260	0	6764	0	0	0	0
15	0	0	142	0	303	0	8	21	0
16	0	0	3784	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	4	0	0	4
19	0	0	223	0	0	13	0	0	45
66	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0
79	0	0	0	0	0	0	0	0	0
TOTAL	0	10,212	65,577	0	99,692	17	6259	1165	2103

APPENDIX C-2 Continued

WATER DIVERSION SUMMARIES TO VARIOUS USES, continued

WD	AUGMEN- TATION	EVAPO- RATION	GEO- THERMAL	SNOW- MAKING	MINIMUM STREAMFLOW*	POWER GENERATION	WILDLIF E	RECHARGES	OTHER
10	0	198	0	0	0	1543	0	161	2624
11	0	0	0	0	0	26653	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
66	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	799	0
79	0	0	0	0	0	0	0	37	0
Total	0	198	0	0	0	28196	0	997	2624

\* where measured

APPENDIX D

WATER COURT ACTIVITIES

Calendar Year 1992

Applications made to water court this year . . . . .	105
Consultations with Referee this year . . . . .	60
Decrees Issued by Court this year . . . . .	28
Dismissals . . . . .	8
Complaints . . . . .	2

TYPES OF RULINGS

TYPE OF RULING	NUMBER OF CASES	NUMBER OF STRUCTURES
Findings of Diligence on Conditional Rights	1	10
Cancellations of Conditional Rights	0	
Conditional Rights Made Absolute	0	
Surface Water Rights Adjudicated	6	29
Underground Water Rights Adjudicated	7	9
Water Storage Rights Adjudicated	1	1
Plans for Augmentation Adjudicated	4	*108
Changes of Water Rights Adjudicated	8	58
Changes of Use	1	1
Instream Flow Rights Adjudicated		

\* This total number may be broken out by type of structure if desired.



Page No. 1  
02/12/93

## RIVER CALL/CHRONOLOGICAL

DATE	PRIORITY DATE	ENTITY	DISTRICTS	DURATION OF CALL/DAYS
<b>** YEAR 1991</b>				
11/01/91	03/01/1887	FORT LYON #2	10-15,17	0
11/03/91	03/02/1892	HOLBROOK RESERVOIR	10-15,17	1
11/04/91	03/01/1887	FORT LYON #2	10-15,17	2
11/06/91	03/02/1892	HOLBROOK RESERVOIR	10-15,17	1
11/07/91	03/09/1898	LAKE MEREDITH	10-15	1
11/08/91	03/02/1892	HOLBROOK RESERVOIR	10-15,17	1
11/09/91	1891	HENRY RESERVOIR	10-15	6
11/15/91	03/01/1910	WINTER WATER 84CW179	ALL	120
<b>** YEAR 1992</b>				
03/15/92	03/11/1886	HIGHLINE	10-15	2
03/17/92	03/01/1887	FT LYON #2	10-15,17	32
04/18/92	02/27/1887	AMITY/FT LYON #2	10-15,17,67	2
		SPLIT		
04/20/92	03/01/1887	FT LYON #2	10-15,17	5
04/25/92	02/27/1887	AMITY	10-15,17,67	28
05/23/92	03/01/1887	FT LYON #2	10-15,17	2
05/25/92	05/01/1887	BESSEMER #2	10-14	4
05/29/92	09/25/1889	HOLBROOK #1	10-15,17	2
05/31/92	09/11/1889	FT BENT #3	10-15,17,67	1
06/01/92	03/13/1889	CONSOLIDATED #3	10-15,17	2
06/03/92	09/25/1889	HOLBROOK #1	10-15,17	5
06/08/92	03/01/1887	FT LYON #2	10-15,17	1
06/09/92	09/25/1889	HOLBROOK #1	10-15,17	1
06/10/92	01/06/1890	HIGHLINE	10-15	1
06/11/92	09/25/1889	HOLBROOK #1	10-15,17	1
06/12/92	03/03/1890	OTERO #1	10-15,17	1
06/13/92	06/09/1890	COLORADO	10-15	2
06/15/92	03/03/1890	OTERO #1	10-15,17	1
06/16/92	09/25/1889	HOLBROOK #1	10-15,17	1
06/17/92	03/13/1888	CONSOLIDATED #3	10-15,17	1
06/18/92	05/01/1887	BESSEMER #2	10-14	1
06/19/92	03/01/1887	FT LYON #2	10-15,17	1
06/26/92	09/25/1889	HOLBROOK #1	10-15,17	1
06/27/92	06/09/1890	COLORADO	10-15	1
06/28/92	09/25/1889	HOLBROOK #1	10-15,17	1
06/29/92	01/06/1890	HIGHLINE	10-15	1
07/01/92	09/25/1889	HOLBROOK #1	10-15,17	1
07/02/92	03/01/1887	FT LYON #2	10-15,17	5
07/07/92	02/21/1887	AMITY	10-15,17,67	6
07/13/92	02/26/1887	OXFORD #2	10-15	1
07/15/92	03/01/1887	FT LYON #2	10-15,17	1
07/16/92	09/25/1889	HOLBROOK #1	10-15,17	1
07/17/92	02/26/1887	OXFORD #2	10-15	1
07/19/92	02/21/1887	AMITY	10-15,17,67	1
07/21/92	03/01/1887	FT LYON #2	10-15,17	10
07/31/92	02/21/1887	AMITY	10-15,17,67	1
08/06/92	03/01/1887	FT LYON/OXFORD SPLIT	10-15,17	1
08/07/92	03/01/1887	FT LYON #2	10-15,17	1

RIVER CALL/CHRONOLOGICAL

DATE	PRIORITY DATE	ENTITY	DISTRICTS	DURATION OF CALL/DAYS
08/08/92	02/21/1887	AMITY	10-15,17,67	2
08/10/92	12/03/1884	CATLIN #1	10-15,17	2
08/12/92	12/03/1884	CATLIN/CONSOLIDATED	10-15,17	1
08/13/92	02/21/1887	AMITY	10-15,17,67	6
08/19/92	03/01/1887	FT LYON #2	10-15,17	2
08/21/92	02/26/1887	OXFORD #2	10-15	1
08/22/92	02/21/1887	AMITY	10-15,17,67	3
08/25/92	06/09/1890	COLORADO	10-15	1
08/26/92	08/31/1893	FT LYON #3	10-15,17,67	1
08/27/92	08/01/1896	GREAT PLAINS RES.	10-15,17	1
08/28/92	03/03/1890	OTERO	10-15,17	1
08/29/92	03/01/1887	FT LYON #2	10-15,17	11
09/09/92	02/21/1887	AMITY	10-15,17,67	20
09/30/92	11/04/1886	LAMAR #2	10-15,17,67	1
10/01/92	12/03/1884	CATLIN	10-15,17	13
10/13/92	03/11/1886	HIGHLINE	10-15	8
10/21/92	02/21/1887	AMITY	10-15,17,67	10
11/01/92	03/01/1887	FT LYON #2	10-15,17	14
11/15/92	03/01/1910	WINTER WATER (84CW79)	ALL	120

APPENDIX F

OFFICE ADMINISTRATION AND WORKLOAD MEASURES

WATER DIVISION NO. 2

Activity Summary, Calendar Year 1992

<u>ACTIVITY</u>		<u>TOTAL</u>
Number of professional and technical staff		8
Number of clerical staff		1
Number of Water Commissioner FTE assigned (full and part-time)		18
Number of decreed surface rights (including springs)	*	8,439
Number of surface rights administered		6,020
Number of wells	**	25,854
Number of plans for augmentation		91
Number of consultations with Referee		75
Number of Water Court appearances		38
Number of meetings with water users	*3	329
Number of contacts to give public assistance on water matters (including telephone inquiries and an estimated number of contacts made by water commissioners)		3,009

- \* Estimate from 1992 Tabulation
- \*\* Includes Domestic
- \*3 Office contacts or contacts in the field by office personnel

## APPENDIX G

### WINTER WATER PROGRAM

The Winter Water Program has maximized use of irrigation water normally applied in the winter months by storing the water for summer application. The 1992 Winter Water Program commenced November 15, 1991 and concluded March 15, 1992. This was the sixteenth year of operation of the Winter Water Program since its inception in irrigation year 1976. (The Program was not in operation in irrigation year 1978).

### WINTER WATER PROGRAM OPERATIONS

- A. By forgoing winter diversions, the water will be accounted for by storage in Pueblo Reservoir or headgate diversions on a percentage basis of total river production.
- B. A division of total river production below 100,000 A. F. entitles the off channel storage participants to 71.2 percent of the river flow and the direct flow participants 28.8 percent of the river flow.
- C. The Amity Canal receives the next 2,750 A. F. over 100,000 A. F.
- D. When the system reaches 102,750 A. F., 2,250 A. F. of water is released to the Colorado Canal, pro-rata from winter water stored in reservoirs upstream from Pueblo.
- E. The Holbrook Canal receives the next 356 A. F. over 102,750 A. F.
- F. A division of total river production above 103,106 A. F. entitles the off channel storage participants to 75 percent of the river flow and the direct flow participants, 25 percent of the river flow.
- G. Winter water that is delivered to the Amity Canal account in John Martin Reservoir will not be depleted by transit loss occurring from the Arkansas at Las Animas Gauge to John Martin Reservoir. All participating entities except Fort Lyon will stand that loss, based on the Livingston Formula, on a pro-rata basis. Any winter water delivered to the Fort Lyon or Consolidated accounts in John Martin will be charged a transit loss based on the Livingston Formula.

After eleven years of a successful voluntary Winter Water Program, the Division 2 Water Court awarded the applicants a interlocutory decree for the Winter Water Program on November 10, 1987. A final decree was entered in Case 84CW179 on November 10, 1990.

APPENDIX G continued

WINTER WATER STORAGE PROGRAM

FINAL SUMMARY REPORT

1991-1992

Direct Flow Entities

Bessemer Ditch	9,142.38
Catlin Canal	13,488.20
Consolidated Canal	4,069.42
Highline Canal	12,276.30
Oxford Canal	2,959.53
Riverside Ditch	195.61
West Pueblo Ditch	<u>391.21</u>
Total (A. F. )	42,522.70

Storage Entities

Amity Canal	24,722.07
Colorado Canal	17,746.24
Fort Lyon Canal	59,598.91
Holbrook Canal	<u>14,688.21</u>
Total (A. F. )	116,755.43

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System Total (A. F. )	159,278.13
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APPENDIX H

JOHN MARTIN RESERVOIR

RELEASES AND DELIVERIES  
TO KANSAS

WATER YEAR 1992 MONTH	DEMAND RELEASE A.F.	TRANSIT LOSS ACCT.RELEASE A.F.	FRONTIER DITCH A.F.	ARKANSAS COOLIDGE,KS. A.F.	DITCH & RIVER DELIVERY A.F.	CREDITED FLOW A.F.
NOVEMBER	0.00	0.00	0.00	0.00	0.00	0.00
DECEMBER	0.00	0.00	0.00	0.00	0.00	0.00
JANUARY	0.00	0.00	0.00	0.00	0.00	0.00
FEBRUARY	0.00	0.00	0.00	0.00	0.00	0.00
MARCH	0.00	0.00	0.00	0.00	0.00	0.00
APRIL	0.00	0.00	0.00	0.00	0.00	0.00
MAY	0.00	0.00	0.00	0.00	0.00	0.00
JUNE	0.00	0.00	0.00	0.00	0.00	0.00
JULY	11074.55	1475.22	486.00	17381.00	17867.00	14541.00
AUGUST	0.00	0.00	0.00	0.00	0.00	0.00
SEPTEMBER	0.00	0.00	0.00	0.00	0.00	0.00
OCTOBER	0.00	0.00	0.00	0.00	0.00	0.00
TOTALS	11074.55	1475.22	486.00	17381.00	17867.00	14541.00

NOTE: The July stateline flows are based on provisional USGS data. Only one release lasting 15 days was made on Kansas' demand during the year. The above table reflects only times when actual releases were being made from John Martin Reservoir plus a 7 day rundown period. "Credited flow" refers to the limitation that credit will not be taken for more than one hundred five percent of Kansas' demand.

RELEASES AND DELIVERIES  
TO KANSAS  
BY RUNS

RUN #	RELEASE PERIOD	RELEASED FROM KANSAS ACCOUNT ACRE FEET	A.F. CREDITED DELIVERY AT STATELINE
ONE	7/7-7/21	11074.55	14541.00
TWO		0.00	0.00
THREE		0.00	0.00
FOUR		0.00	0.00
TOTALS		11074.55	14541.00