ANNUAL REPORT

WATER DIVISION 5

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ANNUAL REPORT

WATER DIVISION 5

I. WATER ADMINISTRATION

A. 1987 Water Year

In 1985 a lot of projects were identified and started as well as implementation of new procedures for about everything done in Division 5. In 1986 the work force jelled and a great volume of work both accurate and professional, was accomplished. 1987 was to be the payoff year.

This year began with an aura of optimism. Reality, however, set in and to offer an analogy, the situation resembles the building of a house where the framers work for a week and have what looks like a project 50 percent done. However, it takes the plumbers, electricians, and finish workers another three months to bring it to completion.

1987 was devoted to detail. The finish work takes time and expectations of project completions and moving on to others just never materialized. The net result is that 1987 was very similar to 1986. A lot of good solid work was accomplished but the mile markers were hard to see.

1. Accomplishments

The goals and objectives of the last several years' reports are continually coming closer to being a reality as various work items are accomplished or near completion.

The abandonment hearings are completed. A decree will be forthcoming which will finalize the list and ready it for inclusion in the 1988 tabulation.

Work on the tabulation continued with approximately 50 percent of the backlog in augmentation plans completed. Sixty percent of the 399 new decrees have been entered and Water District 38 was thoroughly reviewed and corrected (3,500-plus line items). A lot of work occurred in the other districts as well since the software became available for current status listings.

There were 328 water court applications in 1986 and 398 in 1987. Most of these were field inspected, have had water referee consultations written, and were decreed.

The 1987 diversion data of water usage has been collected and entered into the diversion data base. We are now going through the last revisions of the printouts and readying them for signing by the Water Commissioners. The in-house PC and software are continuing to revolutionize this process.

We have completed all of the 44 assigned reservoir inspections plus 4 carryovers from the year before. Two were done by engineers in order to access improvements in order to remove restrictions. All five assigned to Division 5 engineers were done.

Fifty reservoir restrictions were carefully monitored by the Water Commissioners. Due to owner cooperation and efforts by personnel from the Dam Safety Branch and our office, nine restrictions were lifted; five new restrictions were added. Two restrictions were relaxed but not removed and restrictions were increased on six.

We continue to develop and use several much-needed data bases. The wells, water cases, abandonments, reservoirs, augmentation plans and our expenditures are now tracked electronically.

Each Water Commissioner diagrammed and coded a system for record keeping for diversions, deliveries, and water use for each non-ordinary (source river, use irrigation, etc.) diversion. Including these in this year's and future years' records should greatly enhance the quality of the records. Also the percentage of diversions for which records are kept increased from an estimated level of 30 percent to perhaps 50 percent. User-supplied data is being solicited in many instances, particularly in small spring and well situations and in nearly all municipal supply situations.

Probably the most significant single accomplishment, however, was that a total river call was administered much of the year—not perfectly by any means—but many of the individual parts are coming together. The Colorado River Accounting software is about 80 percent complete and usable. Water Commissioner understanding and ability to timely deliver real time diversion data is increasing.

The remote data transmitted via satellite provided real time data that enabled our administrative decisions to be more responsive and save water. This system also monitored data from other agencies such as the National Weather Service, the USGS, the U.S. Bureau of Reclamation, Denver Water Board, Northern Colorado Water Conservancy District, and Colorado Springs.

The water-using public is becoming aware that water administration does and will exist on a whole river scale.

2. <u>Involvement in the Water User Community</u>

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There has been continued effort this year to increase contact with the water user community. Water Commissioners have specifically made that their responsibility and have been successful in it. Municipalities and non-exempt well owners including those with augmentation plans have been systematically contacted concerning measuring devices and have submitted much diversion information.

The Division Engineer has been carefully reviewing each new augmentation plan. It is imperative that he work with the applicants' engineers and attorneys to make these plans acceptable for water administration. Establishment of accounting procedures for each is of utmost importance. Many, many problems and misconceptions have been resolved before the decrees were signed.

The Division Office continues to facilitate usage by the public. The more accurate tabulation, decree books with indexes, updated structure lists, well permit information, organized diversion data, combined with a concerted effort to assist anyone with questions has brought this about. It is also convenient for them to have a place to work.

Public information meetings were set up in five locations within the Division. While these were sporadically attended, those who did attend expressed appreciation and approval, and learned a lot. Three well-attended meetings were held for major water users where the subject was "Clarification of Division 5 Water Administration."

3. Issues Impacting Division 5

There are several important trends that are impacting Division 5 which affect the direction of water administration. Decisions will be made for manpower needs, work coverage, and new technology required to deal with these trends.

First, the NEW DEMANDS on a sometimes limited water supply are creating all kinds of pressures.

- (a) The rapid growth in the high country combined with ski industry demands, including water for snow making, has necessitated not only more augmentation plans but increasingly complex augmentation plans requiring more manpower and expertise in administration.
- (b) East Slope demands, such as Windy Gap,
 Northern Colorado's major transmountain water
 diversion, have come on-line and effectively depleted
 any excess water in the Upper Colorado River requiring
 more stringent administrative practices. The exchange
 pool from Windy Gap for the Middle Park Water
 Conservancy District will create additional
 measurements and paperwork to track water exchanged up
 the Blue River for snow making and municipal uses.
- (c) The Front Range metropolitan area has been involved in several major negotiations concerning water from the Colorado River. An agreement has been signed with Public Service Company of Colorado concerning payment in lieu of power generation at the Shoshone Power Plant (the major river call on the Colorado River), thus freeing up an additional depletion to the Colorado River of 30,000 to 50,000 acre feet of firm yield during the non-irrigation season. No request to administer this agreement has been made but will occur sometime.
- (d) Previously, agreements were signed with Summit County enabling augmentation plans and growth to proceed in the Upper Blue River with a uniform approach and protection for Denver water rights. Those have run headlong into minimum streamflow filings by the Water Conservation Board. This will create need for careful winter administration of the exchanges involved.
- (e) Finally, a major agreement was worked out last year with the Colorado River Water Conservation District which basically gives Western Colorado

a number of storage reservoirs for their usage, gives Northern Colorado several storage reservoirs for their replacement usage, and gives the Denver metro area the Blue and Williams Fork Rivers, including Green Mountain Reservoir.

All of these agreements will necessarily be administered by exchanges with very little of the administrative details as of yet even conceived. The fairly new principal operating policy for Green Mountain Reservoir along with the federal Blue River decrees and Senate Document 80 now look like interim steps in the continual movement of water to the highest usage.

Second, under OLD DEMANDS, the entry and demise of the oil shale industry has affected Division 5 in many ways.

- (a) Conditional water rights have been left undeveloped, water rights that were transferred from agriculture to industrial uses have been left standing and once farmed lands are turning to sagebrush. Oil prices will rise again and therefore the industry is protecting their rights but the population growth pressures associated with it has waned.
- (b) Agriculture, along with the economy on the lower river, is just getting by. With farm prices as low as they are and real estate falling terribly with the oil shale industry, there is little incentive to use water and maintain agriculture. The bright spots are the good fruit crop this year and the rise in cattle prices.
- (c) Further downstream, the Central Arizona Project is using more water and so far has taken it from California. Someday this will affect administration in Colorado also and we should be prepared for it.
- (d) Finally, governmental policies are continuing to slowly shift toward more emphasis on environmental issues. The federal government has been heavily involved in cleaning up the salinity problems in the Grand Valley. The Federal Fish and Wildlife Service is making overtures toward storage pools in West Slope reservoirs to be used for endangered species programs. The United States Bureau of Reclamation is less involved with large agriculture projects. Even the Colorado Water Conservation Board's involvement centers around minimum streamflows and fish and wildlife habitat.

The adopting of the Colorado River Accounting which is being phased out by the United States Bureau of Reclamation has put considerable strain on our manpower. This project has had to be absorbed by our staff and the hydrographic work necessary is left undone. A bill is presently before the state legislature to create the FTE's and funding support to correct the deficiencies.

4. <u>Issues of Concern</u>

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We, again, have many of the same concerns that we had last year. The main concern is the inability of the staff to accomplish all that needs to be done in almost any area. The continuing areas of concern are:

- Number and complexity of augmentation plans are prohibitive to administer with existing staff and methods.
- -- Much work is still needed on the tabulation prior to republishing.
- Do not have the hydrographic staff to handle the river accounting.
- -- Fifty percent of the structures have no record at all.
- -- Many diversion records are estimated rather than observed.
- -- Staff gauges and capacity tables are almost non-existent for reservoirs.
- -- Many of the structures have no control and/or measuring devices.

A general river call requiring deliveries of Green Mountain water and the accounting of such is still not satisfactory. The Satellite Monitoring system has improved our accessibility to accurate data; however, there are a number of holes in the system.

There is a lack of Water Commissioner coverage in the Blue River area. There has been a large conversion of agricultural lands and waters to commercial and municipal development in District 36 and the decretal information and the data-gathering network cannot function without a Water Commissioner.

Three hundred thousand to five hundred thousand acre-feet of diversions are not monitored for quality control by any neutral party, which creates nervousness and feeds East Slope/West Slope tensions.

5. Effect of Workload Changes

As mentioned above, the adoption of the Colorado River Accounting, the addition of the PC's to the Division Office, and the Abandonment proceedings have all placed extra time demands on the Division 5 office staff. The time spent learning how to operate the PC's will eventually decrease as we develop operating proficiency. The Satellite Monitoring system does take additional time to put the data produced in a usable form as well as time spent in training personnel in operations.

An engineering FTE was transferred into Division 5. This has helped offset the general increase in workload and will eventually help to reduce the work backlog.

6. Impact of the Budgets on Operations

We do not have enough FTE's to put Water Commissioners in each Water District. Additionally, 14 of 19 are part-time people and the seasonal nature of their employment severely hampers the updating of structure lists, administrative lists, tabulations, or any other non-direct water administration activity.

Not only were we short in human resources but operating funds were precariously low. We had only enough to provide us with the supplies we needed to function by transferring travel money to operating.

Funds for capital expenditures were not received. However, we did divert small amounts of operating to purchase used goods through the government resale program.

Travel money was one place we had an excess in 1987. This was due to the terrible water year that we had. We also were fairly confined to the office due to priority work there. This will shift as the backlog of work is completed.

B. 1988 Water Year

1. Operational Concerns

1988 will surely be the year of finishing old projects and moving on to new ones. We are still working on a sizable backlog but expect to bring much of that to an end, especially if we get some additional help. The real problem is the large backlog of untabulated decrees. Most are very complicated augmentation plans or large multi structure decrees covering several water districts. We continue to deal with the present as needs dictate and are implementing projects necessary to provide the basis for better administration in the future.

The U.S. Bureau of Reclamation's pullout of operations on the Colorado-Big Thompson has left a hydrographic void on the Upper Colorado that, combined with the Satellite Monitoring maintenance on gaging stations, creates a need for several full-time hydrographers.

The volume of Water Court activity has increased somewhat again which will continue to use our resources.

2. Projected Work Items for 1988:

Other than the usual business of:
(1) administering water, (2) collecting and recording diversion data, (3) reservoir inspections,
(4) hydrographic work, and (5) reviewing water applications, the following are Projected Work Items for the next year and for the next five years:

- (a) Train Water Commissioners in (1) reviewing water rights applications, (2) estimating irrigated acreage, (3) determining stream mile numbers.
- (b) Finish tabulation work for Districts 36 and 51.
- (c) In Colorado River Accounting, create spread sheet program for West Slope depletions.
- (d) Assemble corrected up-to-date current status lists for all Water Districts by which water administration can take place.
- (e) Tabulate outstanding augmentation plans.
- (f) Install control structures and measuring devices at appropriate headings.

(g) Establish an augmentation plan data base that can be used for administration.

(h) Establish accounting system for each active

augmentation plan.

(i) Write Individual Performance Objectives (IPO's) for Water Commissioners on diversion data and annual record submittal.

(j) Upgrade structure data base to complement

tabulation.

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(k) Organize and implement program for hydrographic data collection for Division.

(1) Utilize accounting system to monitor expenditures.

Projected Long-Range Work Items:

- (a) Create and assemble a Water Commissioner handbook.
- (b) Implement regular training sessions for Water Commissioners.
- (c) Spend time in field with Water Commissioners.

(d) PACE program.

- (e) In Colorado River Accounting, continue to
 (1) phase in hydrographic support and
 (2) utilize real time diversion data.
- (f) Continue upgrading each Water District's tabulations.
- (g) Get reservoir staff gages installed and capacity tables to match.

3. Goals and Objectives

Our objectives are quite broad, yet simply stated, are as follows:

- (a) Establish the capability to administer a total river call prompted by either in-state priorities or an interstate water compact requirement.
- (b) Uphold all other statutory duties of the State Engineer's office.
- (c) Provide the public with service regarding our administration and their needs in water resources.

In order to fulfill these objectives, the following goals must be attained. It is imperative that we have a complete and reliable tabulation. All water usage and consumption must be inventoried and we need to possess the ability to monitor the same on a real time basis. We need to know where augmentation and exchanges are taking place and in what amounts. We must know the locations and amounts of the water supply at any given time. We have to fully develop our personnel and must have an educated public willing to cooperate with us. We must also work with the legislature and other governmental agencies in order to have our needs provided for. We can begin to reach these objectives as more of the work projects are completed.

TRANSMOUNTAIN DIVERSIONS SUMMARY - IMPORTS WATER DIVISION V

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			PREVIOUS	IYR	٦,	RECORD		
ម	NAME	STREAM	AF	DAYS	AF	DAYS	WD.	STREAM
38	Roaring Fork Bypass Flow	Roaring Fork River	* 1,191	273	* 1,958	283	11	Turquoise River
45	Divide-Highline Feeder	Divide Creek	1,003	114	1,360	64	40	Clear Fork Muddy Creek
50	Sarvis Creek Ditch	Red Dirt Creek	962	83	2,210	169	58	Service Creek
53	Dome Creek Ditch	Egeria Creek	543	75	414	57	58	Bear River
53	Stillwater Ditch	Egeria Creek	2,924	100	1,040	118	58	Bear River
72	Redlands Power Canal	Colorado River	511,715	355	549,957	357	42	Gunnison River
72	Grand Junction Municipal	Colorado River	7,096	365	6,686	365	42	Kannah Creek
72	Fruita Water Works	Colorado Ríver	396	365	0	0	73	Little Dolores River
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	TOTAL DIVISION 5 IMPORTS:		525,830	ļ	563,625			
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	* Twin Lakes Bypass Exchanged	inged for Fry-Ark Water						
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TRANSMOUNTAIN DIVERSIONS SUMMARY - EXPORTS WATER DIVISION V

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TRANSMOUNTAIN DIVERSIONS SUMMARY - EXPORTS WATER DIVISION V

40 6 6 4 w S ω TOTAL DIVISION 5 EXPORTS: Leon Tunnel Canal Vasquez Pipeline August P. Gimlick Tunnel Berthoud Pass Ditch Moffat Tunnel Eureka Ditch Grand River Ditch Alva B. Adams SUBTOTAL PAGE SUBTOTAL PAGE SUBTOTAL (Pg. NAME Tunne1 2: 2): Surface Creek Boulder via Fraser River Boulder via Fraser River Clear Creek Boulder Creek Big Thompson River Cache Cache La Poudre Rivr La STREAM Poudre Rivr RECIPIENT 506,510 380,573 125,937 380,573 Inclusive 275,230 Inclusive 78,930 1,021 24,481 Ą PREVIOUS IYR 911 0 000 ı n i. 365 DAYS 365 124 73 91 0 Moffat Moffat 410,147 319,137 319,137 91,010 250,219 48,878 17,246 2,523 Ą IYR OF RECORD 271 0 1987 Tunnel Tupnel DAYS 365 333 145 73 55 0 72 51 51 51 51 51 ¥ 51 51 Leon Creek Williams Fork N.F. N.F. SOURCE Williams Fork 년 (전 N.F. Fraser River Colorado River Colorado River Colorado River River STREAM

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				Way Res	Upper Blue Lake Res	Upper Black Creek Res	Reynolds Res	Lower Black Creek Res	Lost Lake	Hoagland Res No. 1	Green Mountain Res	Goose Pasture Tarn	Dillon Res BRDP	Cataract Lake	Buffehr Enlarged Res	Black Lake		RESERVOIR NAME	
TOTAL:				Springs Creek	Blue River	Black Creek	Keystone Creek	Black Creek	Brush Creek	Elliott Creek	Blue River	Blue River	Blue River	Cataract Creek	Ten Mile Creek	Black Creek		SOURCE	STREAM
368,208				4	0	200	N.I.A.	400	155	400	133,301	900	229,255	1,600	N.I.A.	1,997	AF:	Beg. IYR	אַפ
419,497	·			40	2,119	200	N.I.A.	522	155	100	152,539	900	259,313	1,652	N.I.A.	1,997	Z AF	Beg	PREVIOUS IYR
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385,994				4	0	200	N.I.A.	400	155	50	140,274	900	240,418	1,600	N.I.A.	1,997	AF		IYR OF
413,170				40	2,119	522	N.I.A.	522		75	145,911	900	259,279	1,650	0	1,997	7 AF		RECORD
357,223				4	0	400	N.I.A.	400	155	15	105,557	900	246,295	1,500	0	1,997	% AF	on End IYR	

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							Welsh Res	Robinson Res	0.Z. Res	Noecker Res	Lower G.G. Res	L.E.D.E. Res	Homestake Res	G.G. Res	Chalk Mountain Res	Black Lake No. 2	Black Lake	Benchmark Lake		RESERVOIR NAME	
TOTAL:							Alkali Creek	Eagle River	Brush Creek	Eby Creek	Eby Creek	Gypsum Creek	Homestake Creek	Eby Creek	Eagle River	Gore Creek	Gore Creek	Eagle River		SOURCE	STREAM
45,952							60	3,136	450	0	0	45	41,799	0	204	90	N.I.A.	168	AF	Beg. IYR	PRI
46,358						,	308	3,136	450	158	0	45	41,799	0	204	90	N.I.A.	168	Z AF		PREVIOUS IYR
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45,892							0	3,136	450	0	0	45	41,799	0	204	90	N.I.A.	168	AF	Beg. IYR	IYR OF
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43,505							0	3,136	450	180	0	**************************************	39,232	0	204	90	N.I.A.	168	AF	Beg.Irr.Season	RECORD
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	Upper Chapman Res	Thomas Res	Tagert Lake	Spring Park Res	Ruedi Res	Ralston No. 1 Res	Polaris Res	McNulty Res	Lake Ann Ditch Res	Jacobson Lakes & Ponds	Ivanhoe Res	Hopkins Res	Elk Creek Res No. 2	Crooked Greek Res	Crawford Dam No. 2	Crawford Dam No. 1	Consolidated Res	Beaver Lake	Alicia Lake Res		RESERVOIR NAME	
SUBTOTAL (Pg. 1):	Fryingpan River	Thomas Creek	Roaring Fork River	Blue Creek	Fryingpan River	West Coulter Creek	Coulter Creek	Shippee Run Creek	Sopris Creek	Roaring Fork River	Fryingpan River	Landis Creek	Elk Creek	THE COLORS OF TH	Blue Creek	Blue Creek	West Coulter Creek	Crystal Lake	Lime Creek		SOURCE	STREAM
98,901	2,448	N.I.A.	N.I.A.	508	93,641	0	0	0	20	225	20	800	10	A Description of the Contract	56	160	300	N.I.A.	673	AF Z	Beg. IYR	PRE
113,076	2,498	N.I.A.	N.I.A.	4,340	100,884	0	Ō	100	N.I.A.	250	1,200	816	10	A D	57	163	970	N.I.A.	688	AF		PREVIOUS IYR
103,103	2,448	160	30	508	97,580	0	. 0	0	20	225	20	800	10	Million Martin Martin School College Constraints (1)	56	160	300	73	673	Z AF	n Beg. IYR	IYR OF
112,384	2,525	165	31	4,350	101,398	0	N.I.A.	50	215	275	1,200	0	10	the form of the second section (40 ·) section	57	163	1,141	76	688	Z AF	Beg.Irr.Season	RECORD
94,781	2,450	160	30	0	90,874	0	N.I.A.	0	10	225	20	0	10	40.	56	160	0	73	673	Z AF	on End IYR	

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| Van Cleve-Fisher Res Woods Lake Res Von Springs Res No. Wildcat Res RESERVOIR NAME 2 Lime Creek Mesa Creek Snowmass Creek Coulter Creek SUBTOTAL Page 2: SUBTOTAL Page 1: SUBTOTAL TOTAL: STREAM SOURCE (Pg. 2): 100,455 Beg. 98,901 1,554 1,554 1,140 120 294 A. 0 IYR PREVIOUS IYR 115,350 Beg.Irr.Season 113,076 2,274 1,190 2,274 2 294 270 520 74 104,657 103,103 Beg. IYR 1,554 1,554 1,140 Ą 294 120 IYR OF RECORD 0 7.1 114,681 Beg.Irr.Season 112,384 2,297 2,297 1,185 Æ 309 250 553 74 96,634 94,781 1,853 1,853 1,100 End IYR 300 453 Ą 0

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									Rifle Gap Res	Park Res	Middle Fork Res	Meadow Creek Res	Harris Res	Grass Valley Res	City of Rifle Pond No. 1		RESERVOIR NAME	
TOTAL:									Rifle Creek	Elk Creek	Parachute Creek	Elk Creek	Rifle Creek	Rifle Creek	Colorado River		SOURCE	CTBEAN
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14,256									8,652	76	100	984	100	4,288	56	AF	Beg. IYR	TVR OF
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20,134									12,312	163	719	984	200	5,700	56	AF	Beg. Irr. Season	R F C O R D
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7,206									2,143	45.5	719	984	100	3,158	56	AF	End IYR	

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							·		·	Vaughn Res	Centenial Lake	Barton Porter Res	Anderson Pond No. 1		RESERVOIR NAME	,	-
TOTAL:		-						-		Mamm Creek	Colorado River	East Alkali Creek	Colorado River		SOURCE	STREAM	RESERVOIR STORAGE
475										0	238	0	237	AF	Beg. IYR		
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				Woods Res	Whiteley Peak Res	Parsons Res	North Meadow Res	Milk Creek Res	McMahon Res No. 2	McElroy Res	Matheson Res	Martin Res	Lewis Res	Lake Agnes	Hinman Res	Binco Res	Basin Res	Antelope Res	Albert Res		RESERVOIR NAME	
TOTAL:				Muddy Creek	Muddy Creek	Muddy Creek	Muddy Creek	Milk Creek	Red Dirt Creek	Pass Creek	Troublesome Creek	Muddy Creek	Pinto Creek	Muddy Creek	Muddy Creek	Troublesome Creek	Muddy Creek	Colorado River	Albert Creek		SOURCE	STREAM
3,726				0	360	2	N.I.A.	100	1,280	0	600	210	2	432	300	225	60	100	55	A.F:	Beg. IYR	PR
e, 213				55	772	90	N.I.A.	105	3,498	240	1,073	216	49	432	610	500	118	330	125	Z AF Z	Beg.	PREVIOUS IYR
3,514				15	380	2	N. I.A.	100	900	0	925	205	2	432	175	125	0	250	ω	AF	Beg	ינו
8,132	-			55	772	70	50	105	3,500	240	1,073	216	49	432	500	500	115	330	125	2 AF	Вер	RECORD
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2,033				15	280	0	0	25	375	0	325	56	1	432	230	120	21	150	3	AF	End IYR	

(PAGE 1 OF 1)

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	Willow Creek Res	Williams Fork Res	Ute Creek Res	Sylvan Res	Sun Valley Res	Shadow Mountain Res	Scholl Res	Musgrave Res	Moore Res	Meadow Creek Res	Langholen Res	Lake Granby	Jack Orr	Hankinson Res	FW Linke No. 2 Res	East Branch Res	Cottonwood Res	Bull Run Res		RESERVOIR NAME		
TOTAL:	Willow Creek	Williams Fork River	Williams Fork River	Little Muddy Creek	N Fork of Colorado	Colorado River	Corral Creek	Corral Creek	Williams Fork River	Fraser River	Battle Creek	Colorado River	Colorado River	Fraser River	Fraser River	Williams Fork River	Colorado River	Williams Fork River		SOURCE	STREAM	
587,074	8,767	78,470	N.I.A.	250	72.5	17,836	0	200	90	553	17	480,011	245	116	6	100	40	300	A.F.	Beg. IYR	PR	
662,350	9,400	90,285	N.I.A.	1,134	72.5	17,959	300	320	220	5,477	65	535,777	245	116	0	250	80	650	Z AF	Beg. Irr. Season	PREVIOUS IYR	
632,192	9,359	85,015	75	200	72.5	17,959	0	75	80	874	22	517,835	245	116	0	125	40	100	Z AF	Beg. I	IYR C	
598,120	9,667	79,526	100	1,134	72.5	17,761	250	300	220	4,148	50	482,295	245	116	40	2,000	35	250	Z AF	Beg.Irr.	OF RECORD	
535,212	7,243	79,176	70	90	72.5	17,653	20	50	20	206	20	428,765	245	116	U 5	1,250	10	200	Z AF	Season End IYR		

	1		1	1	1	1	1		,							 						
		-	 	-		_	-		-	-	-		 	-	-	 		52		Ð		
																Rock Gap Dam	Jones Res	Christenson Res		RESERVOIR NAME	-	
TOTAL:								-								Unnamed Tributary to Colorado River	Sheephorn Creek	Sheephorn Creek		SOURCE	STREAM	RESERVOIR STURAGE
210																50.0	70.0	90.0	A.F.	Beg. IY		
																			74	×	REV.	SUPERAKLES
210																50.0	70.0	90.0	ΑF	IYR Beg. Irr. Season	IOUS IYR	IES GREATER THAN 50
																 			7	ion		THAN
206																48.8	69.0	88.5	AF	Beg. IYR	IYR OF	50 AF
				<u> </u>			-		 			 -							2,3		RE	
210																52.0	69.2	88.5	ΑF	Beg.Irr.Season	RECORD	(PAGE 1
						 	ļ									 		 	7	ason		OF 1)
204																49.4	65.8	88.5	AF	End IYR		

		CHOLVE	5551			BECOBE	
£	RESERVOIR NAME	SOURCE	Beg. IYR	YR Beg. Irr. Season	Beg. IYR	Beg. Irr. Season	n End IYR
			AF Z	AF Z	AF %	AF Z	AF
53	Clyde Res	Egeria Creek	20.0	66.0	6.0	66,4	
	Cresent Lake	Derby Creek	2.0	237.0	5.0	237.0	
	Ed W. Harper	Egeria Creek	100.0	194.0	192.0	194.0	
	Egeria Res	Egeria Creek	26.0	107.0	57.0	107.0	
	Grimes Brooks Res	Red Ditch Creek	161.0	247.0	120.0	426.0	316.0
	Hadley Res	Egeria Creek	9.0	164.0	151.0	164.0	164.0
	Heart Lake Res	Deep Creek	192.0	346.0	341.0	3,255.0	3,255.0
	Hidden Springs Res	Horse Creek	51.0	53.0	52.0	N.I.A.	N.I.A.
ļ	Jones No. 1 Res	Sheep Creek No. 2	236.0	240.0	238.0	240.0	
	Jones No. 2 Res	Sheep Creek No. 2	247.0	333.0	247.0	333.0	83.0
	Kelly Res	Egeria Creek	122.0	290.0	10.0	93.0	43.0
	Luark Res	Spring Creek	1.0	90.0	10.0	90.0	
-	Mackinaw Lake Res	Derby Creek	N.I.A.	N.I.A.	N.I.A.	79.0	79.0
	Morris Res	Toponas Creek	317.0	325.0	25.0	324.0	30.0
	Newton Gulch Res	King Creek	19.0	227.0	27.0	120.0	
 	Reid Res No. 3	Egeria Creek	N.I.A.	N.I.A.	N.I.A.	93.0	93.0
	Sterner Res	Egeria Creek	1.0	68.0	18.0	100.0	30.0
). 	Sweetwater Res	Sweetwater Creek	990.0	1,200.0	1,190.0	1,200.0	1,200.0
 	Tonier Gulch Res	Tonier Gulch	0.0	65.0	0.0	64.3	64.3
-		SUBTOTAL (Pg. 1):	2,494.0	4,252.0	2,689.0	7,186.0	5,552.0

	 	 	 	-			 					53		ð	
											Wohler Res	Toponas Rock No. 2 Res		RESERVOIR NAME	
TOTAL:					SUBTOTAL PAGE 2:	SUBTOTAL PAGE 1:			SUBTOTAL (Pg. 2):		Elk Creek	Toponas Creek		SOURCE	STREAM
2,530					36.0	2,494.0			36.0		28.0	8.0	AF Z	Beg. IYR	PRE
4,368				•	116.0	4,252.0			116.0		28.0	88.0	2 AF }2	Beg. Irr. Season	PREVIOUS IYR
2,720					30.5	2,689.0			30.5		27.5	3.0	Z AF	Beg	
18,218					142.0	17,985.7			142.0		54.0	88.0	Z AF	Beg. Irr. Season	IYR OF RECORD
<u> </u>		 	 			}	 	 					7	son	
16,410					58.0	16,351.7		·	58.0		54.0	4.0	AF	End IYR	

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RESERVOIR	
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STORAGE	
STORAGE SUMMARIES	
GREATER	
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ı	Cottonwood No. 2 Res	Cottonwood No. 1 Res	Coon Creek No. 3 Res	Coon Creek No. 2 Res	Coon Creek No. 1 Res	Colby Horse Park Res	Bull Creek No. 5 Res	Bull Creek No. 4 Res	Bull Creek No. 3 Res	Bull Creek No. 2 Res	Bull Creek No. 1 Res	Bull Basin No. 2 Res	Bull Basin No. 1 Res	Big Creek No. 7 Res	Big Creek No. 5 Res	Big Creek No. 4 Res	Big Creek No. 3 Res	Big Creek No. 1 Res	Big Beaver Res		RESERVOIR NAME	
	Cottonwood Creek	Cottonwood Creek	Coon Creek	Coon Creek	Coon Creek	Leon Creek	Bull Creek	Big Creek	Bull Creek		STREAM SOURCE	RESERVOIR S										
_	0.0	2,102.0	0.0	0.0	0.0	200.0	0.0	0.0	0.0	69.8	N.I.A.	0.0	132.0	995.0	94.2	181.0	1,462.0	746.0	0.0	AF Z	PREV Beg. IYR	STORAGE SUMMARIES
_	220.0	652.0	138.0	147.0	299.0	469.0	236.0	226.0	59.2	69.8	N.I.A.	94.9	132.0	1,223.0	105.0	181.0	1,549.0	746.0	130.0	AF	PREVIOUS IYR YR Beg.Irr.Season	GREATER
_	137.0	1,710.0	0.0	0.0	0.0	183.0	214.0	0.0	0.0	69.8	N.I.A.	23.0	0.0	985.0	105.0	181.0	1,549.0	746.0	0.0	Z AF	IYR OF Beg. IYR	THAN 50 AF
	220.0	1,765.0	0.0	0.0	251.0	469.0	315.0	226.0	0.0	69.8	83.0	0.0	69.7	1,223.0	105.0	181.0	1,549.0	746.0	108.0	% AF	RECORD Beg.Irr.Season	(PAGE 1 OF
	0.0	1,445.0 V	0.0	0.0	0.0	130.0	0.0	0.0	0.0	69.8	0.0	0.0	0.0	891.0	55.4	0.0	1,549.0	746.0	0.0	AF	on End IYR	3)

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Palisade	_	Monument	Monument	Mesa	Mesa	Mesa	Mesa	Mesa	Lost	Leon	Kitson	Jerry	Jerry	Jenson	Hawx	Decamp	Dawson	Coti	72 Cot		V D RE	
	ade Cabin Res	ent No. 2 Res	ent No. 1 Res	Creek No. 5 Res	Creek No. 4 Res	Creek No. 3 Res	Creek No. 2 Res	Creek No. 1 Res	Lake Reservoir	Lake Res	on (T.E.) Res	y Creek No. 2 Res	y Creek No. 1 Res	on Res	Hawxhurst Res	ımp (Fred) Res	on Res	Cottonwood No. 5 Res	Cottonwood No. 4 Res		RESERVOIR NAME	
	Rapid Creek	Plateau Creek	Plateau Creek	Mesa Creek	Mesa Creek	Mesa Creek	Mesa Creek	Mesa Creek	Bull Creek	Leute Creek	Cottonwood Creek	Plateau Creek	Plateau Creek	Cottonwood Creek	Hawxhurst Creek	Cottonwood Creek	Big Creek	Cottonwood Creek	Cottonwood Creek		STREAM SOURCE	
-	163.0	0.0	0.0	15.8	0.0	290.0	48.4	0.0	0.0	N.I.A.	0.0	N.I.A.	N.I.A.	0.0	0.0	16.0	220.0	289.0	160.0	AF Z	PRE Beg. IYR	
-	61.6	254.0	573.0	15.8	227.0	290.0	48.4	239.0	0.0	N.I.A.	0.0	N.I.A.	N.I.A.	225.0	283.0	38.4	220.0	183.0	259.0	AF 7	PREVIOUS IYR YR Beg.Irr.Season	
	166.0	0.0	66.0	15.8	0.0	290.0	48.4	87.3	0.0	N.I.A.	0.0	N.I.A.	N.I.A.	225.0	117.0	38.4	220.0	342.0	377.0	AF	IYR OF Beg. IYR	
_	1,006.0	1,020.0	572.0	0.0	9.1	285.0	0.0	131.0	0.0	2,166.0	0.0	5,500.0	1,320.0	225.0	154.0	38.4	220.0	342.0	377.0	% AF Z	RECORD Beg. Irr. Season	
	776.0 V	0.0	0.0	0.0	0.0	223.0	0.0	91.0	0.0	459.0	0.0	5,495.0	1,320.0	225.0	50.0	38.4	220.0	342.0	149.0	AF	End IYR	

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	STREAM	ਸ਼ਿਕ	PREVIOUS IYR	IYR OF	RECORD	
WD RESERVOIR NAME	SOURCE	Beg. IYR	• !	Beg. IY		on End IYR
		AF	Z AF	Z AF	AF	Z AF
72 Palisade Storage Res No. 1	Rapid Creek	0.0	88.0	0.0	109.0	109.0
Palisade Storage Res No. 3	Rapid Creek	17.0	96.0	0.0	96.0	96.0
Parker Basin No. 1 Res	Cottonwood Creek	272.0	272.0	272.0	272.0	272.0
Parker Basin No. 2 Res	Cottonwood Creek	0.0	0.0	0.0	60.0	0.0
Parker Basin No. 3 Res	Cottonwood Creek	21.1	79.3	0.0	0.0	0.0
Stubbs McKinney Clark Res	Spring Creek	115.0	230.0	0.0	230.0	0.0
Twin Basin Res	Bull Creek	0.0	114.0	114.0	114.0	68.0
Vega Res	Plateau Creek	15,114.0	37,757.0	14,587.0	34,022.0	8,009.0
Y T Res	Grove Creek	N.I.A.	N. I.A.	N.I.A.	360.0	0.0
	SUBTOTAL (Pg. 3):	15,539.1	38,636.3	14,973.0	35,263.0	8,554.0
				·		
	SUBTOTAL Page 1:	5,982.0	6,676.9	5,902.8	7,380.5	4,886.2
	SUBTOTAL Page 2:	1,202.2	2,917.2	1,992.9	13,365.5	9,388.4
	SUBTOTAL Page 3:	15,539.1	38,636.3	14,973.0	35,263.0	8,554.0
	TOTAL:	22,723	48,230	22,869	56,009	22,829

-	_	 		_	 72	70	53	52	51	50	45	39	38	37	36		ទ		
																	RESERVOIR NAME		
			TOTAL:														SOURCE	STREAM	
			1,144,595		22,723	0	2,530	210	587,074	3,726	475	13,242	100,455	45,952	368,208	Æ	Beg. IYR		
			1,325,288		48,230	0	4,368	210	662,350	8,213	806	19,906	115,350	46,358	419,497	Z AF	Beg. Irr. Season	PREVIOUS IYR	
			1,212,780		22,869	0	2,720	206	632,192	3,514	480	14,256	104,657	45.892	385,994	% AF	Beg	IYR OF	
			1,272,999		56,009	0	18,218	210	598,120	8,132	820	20,134	114,681	43, 505	413,170	% AF	Beg.Irr.Season	RECORD	
			1,080,679		22,829	0	16,410	204	535,212	2,033	557	7,206	96,634	42, 371	357,223	AF	on End IYR		

(PAGE | OF 1)

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								72	70	ដ	52	51	50	45	39	38	37	36		ម
																				RESERVOIR NAME
					TOTAL:															STREAM
					1,064			0	0	264	124	98	65	73	19	312	0	109	AF Z	PRE Beg. IYR
					1,495			0	37	392	90	192	189	90	37	288	28	152	? AF	PREVIOUS IYR YR Beg.Irr.Sea
							ļ										-		74	Season
					751			0	0	180	59	32	45	77	37	265	0	56	AF	IYR OF Beg. IYR
	-	 	-			<u> </u>									 	 	 	-	9.1	POF
					1,			İ												Be
					,636			0	37	364	132	196	182	149	30	306	120	120	AF	RECORD Beg.Irr.Season
			 	 	 		-		┼	 	 		-	-		<u></u>			7	ng
					1,035			0	0	212	102	52	93	103	25	279	120	49	AF	End IYR

DISTRICT TOTALS RESERVOIR STORAGE SUMMARIES LESS THAN 50 AF

DIVISION 5 TOTALS RESERVOIR STORAGE

				 <u> </u>				<u></u>		 							Ð	
									_	DIVISION 5 TOTAL STORAGE	DISTRICT TOTALS RESERVOIRS		DISTRICT TOTALS RESERVOIRS				RESERVOIR NAME	
											S LESS THAN 50 AF		GREATER THAN 50 AF				SOURCE	STREAM
	-									1,145,659	1,064		1,144,595			AF 7	Beg. IYR	PRE
										1,326,783	1,495		1,325,288			Z AF	IYR Beg.Irr.Sea	VIOUS IYR
				 											 	79	nos	
										1,213,531	751		1,212,780			AF	Beg. IYR	I ~ ?
	 	 	 	 -	 -	-	 	 	-	 	 					51		
-										1,274,635	1,636		1,272,999			AF	Beg.Irr.Season	RECORD
			-	 	ļ		ļ		ļ	 				1		73	son	ŀ
										1,081,714	1,035		1,080,679			AF	End IYR	

				72	70	53	52	51	50	45	39	38	37	36		<u> </u>
4,723				431	169	497	172	326	208	494	423	1280	372	351	WA	TOT
43				0	ľ	7	0	9	2	11	 	11	0	Ъ	AMN	TOTAL DITCHES
2,829				257	113	232	68	344	94	264	218	687	281	271	NO	
3,206				613	16	54	36	429	28	216	250	771	491	302	NR	REPORTING
23,928				5,905	1,265	2,281	445	5,095	878	2,150	877	1,977	2,135	920	DITCH VISITATIONS	ESTIMATED NUMBER OF
5,593,381				1,964,498	60,276	992,573	39,468	670,968	87,882	174,569	173,011	544,884	151,052	734,200	-AF-	TOTAL
522,379				118,102	0	2,205	32	127,101	5,856	497	13,649	53,865	20,938	180,134	TO STORAGE -AF-	DIVERSIONS
1,984,910				739,488	57,624	96,094	38,221	152,045	81,501	152,076	161,452	327,423	95,285	83,701	DIVERSIONS -AF-	TOTAL
347,180				107,921	7,062	26,655	10,162	31,867	19,874	30,198	23,108	56,255	19,122	14,956	ACRES IRRIGATED	IRRIGATION NUMBER OF
5.72				6.9	8.2	3.6	3.8	4.8	4.1	5.0	7.0	5.8	5.0	5.6	AVERAGE AF PER ACRE	

(PAGE 1 OF 2)

WATER DIVERSION SUMMARIES BY DISTRICT IN ACRE FEET

(PAGE 2 OF 2)

-32-

			<u> </u>				72	70	53	52	51	50	45	39	38	37	36	
		402.007					2,523	0	0	0	316,614	0	0	0	22,946	24,642	35,282	TRANS- MOUNTAIN OUTFLOW
	- 9	2.999					1,882	0	0	0	0	0	124	993	0	0	0	TRANSBASIN OUTFLOW
	20,000	28.609		c			5,236	1,650	52	340	2,735	27	16,820	1,609	140	0	0	STOCK
	() () () () () () () () () ()	57.004					23,221	50	3,579		4,389	0	1,282	2,135	10,015	9,068	3,265	MUNICIPAL
,	, , , ,	793					410	952	3,476	407	421	19	2,214	6,364	1,286	196	48	DOMESTIC
	79709702	1_510_962					0	0	884,014	0	64,942	0	90	0	125,356	0	436,560	INDUSTRIAL
	0,010	5 010					0	0	1,827	436	246	0	1,390	0	178	929	4	RECREATIONAL
	0,0/0	8 676					243	0	959	0	2,371	26	1	2,808	2,268	0	0	FISHERY
	129	1 70					7	0	0	0	104	0	0	4	13	H	0	COMMERCIAL

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D.
      WATER COURT ACTIVITIES - 1987 CALENDAR YEAR
                                                   1/1/87 - 12/31/87
      Number of Water Court Applications Filed
                                                     398
      Structures in Water Court Applications
                                                     719
          Canals and Tunnels = 5
          Conduits = 6
          Ditches = 71
          Pipelines (Pumping Stations, etc.) = 41
          Power Plants = 6
          Reservoirs = 83
          Springs and Ponds = 215
          Wells = 252
          Miscellaneous = 46
      Number of Consultations with Water Referee
                                                     341
      Number of Decrees Issued by Water Court
                                                     399
          Abandonment List Activity
             215 Water Rights Decreed Abandoned
             233 Water Rights Deleted from Abandonment List
               6 Cases Pending in Water Court re Abandonment
Ε.
      RIVER CALLS - 1987
      11/24/86 - 1/5/87
                         Shoshone down to one generator while making
                         repairs on other
      1/5 - 3/10
                    Shoshone call off
      3/10 - 4/17
                    Shoshone call on
      4/17 - 7/10
                    Shoshone call off
             7/10
                    Shoshone 1408 call on
             7/12
                    Shoshone 1408 call off
             7/16
                    Shoshone 1408 call on
             7/24
                    Shoshone 1250 call on
             7/28
                    Shoshone calls off
             8/6
                    Shoshone 1408 call on
             8/7
                    Shoshone 1408 call off
             8/11
                    Shoshone 1408 call on
             8/12: Shoshone 1250 call on
             8/20
                    Grand Valley Canal (Cameo) call on
             8/22
                    Grand Valley Canal (Cameo) call off
             8/24
                    Shoshone 1408 call on
             8/24
                    Shoshone 1250 call off
             8/27
                    Shoshone 1250 call on
                    Grand Valley Canal (Cameo) call on
             9/11
                    Grand Valley Canal (Cameo) call for 119.47 still on
             10/1
                    Grand Valley Project call for 300 still on
             10/1
                    Grand Valley Canal (Cameo) call off
             10/23
                    Grand Valley Project call off
             10/23
                    Shoshone 1250 call off
             10/26
             10/28 Shoshone 1250 call on
      10/29/87 - 12/31/87 Shoshone 1250 call still on
```

F. OFFICE ADMINISTRATION

Public Served - 6,642 Public Consultations - 9,282 Water Court Appearances - 46 No. of Employees - 4 Professional 1 Clerical 18 FTE's

WATER DISTRICT	EMPLOYEE	PRIVATE VEH 2-WHEEL	PRIVATE VEH 4-WHEEL	STATE VEH	TOTAL MILEAGE	
36 & 37	Wells, Wayne	-	-	9,376	9,376	
38	Callicotte, Stephen	1,700	353	_	2,053	
38	Nichols, Rebecca	8,289	1,958		10,247	
38	Whitehead, Dwight		-	-	-	
39	Lemon, James	1,838	4,067	-	5,905	
45	Klenda, Robert	1,343	9,225	-	10,568	
45	Nelson, Glen	1,229	<u>-</u> -	-	1,229	
50	Thompson, William	- .	13,609	-	13,609	
51	Daxton, James	16,106	-	-	16,106	
52 & 53	Shelden, James	9,828	4,612		14,440	
70	Anderson, George	6,666	_	-	6,666	
72	Klocker, Marcus	-	-	7,486	7,486	
72	Bieser, Robert	_	2,627	_	2,627	
72	Cox, Tom	368	3,425	_	3,793	
72	Hill, Clifford	360	4,530	-	4,890	
72	Hittle, Ray	_	3,953	_	3,953	
72	Reed, Miles	251	2,476	-	2,727	
WELLS COMMISSR	Cerise, Alvin	-	-	19,060	19,060	
OFFICE STAFF	Bell, Orlyn	-	-	20,440	20,440	
	Martellaro, Alan	721	-	12,320	13,041	
	Blair, John	1,689		_	1,689	
	McCabe, Robert	-	-	_	-	
	Hitchcock, Nancy	659			659	
	TOTALS:	51,047 mi	50,83 5 mi	68,682 mi	170,564 mi	